

1 BEFORE THE ARIZONA POWER PLANT LS-354

2 AND TRANSMISSION LINE SITING COMMITTEE

3

4 IN THE MATTER OF THE APPLICATION OF ) DOCKET NO.  
 4 TUCSON ELECTRIC POWER COMPANY, IN ) L-00000C-24-0118-00232  
 CONFORMANCE WITH THE REQUIREMENTS )  
 5 OF A.R.S. § 40-360, ET SEQ., FOR A ) LS CASE NO. 232  
 CERTIFICATE OF ENVIRONMENTAL )  
 6 COMPATIBILITY AUTHORIZING THE )  
 MIDTOWN RELIABILITY PROJECT, WHICH )  
 7 INCLUDES THE CONSTRUCTION OF A NEW )  
 138 KV TRANSMISSION LINE )  
 8 ORIGINATING AT THE EXISTING )  
 DEMOSS-PETRIE SUBSTATION (SECTION )  
 9 35, TOWNSHIP 13 SOUTH, RANGE 13 )  
 EAST), WITH AN INTERCONNECTION AT )  
 10 THE PLANNED VINE SUBSTATION )  
 (SECTION 06, TOWNSHIP 14 SOUTH, )  
 11 RANGE 14 EAST), AND TERMINATING AT )  
 THE EXISTING KINO SUBSTATION )  
 12 (SECTION 30, TOWNSHIP 14 SOUTH, )  
 RANGE 14 EAST), EACH LOCATED WITHIN )  
 13 THE CITY OF TUCSON, PIMA COUNTY, ) EVIDENTIARY HEARING  
 ARIZONA. )  
 14 \_\_\_\_\_ )

15 At: Tucson, Arizona

16 Date: July 8, 2024

17 Filed: July 23, 2024

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19 REPORTER'S TRANSCRIPT OF PROCEEDINGS

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1 BE IT REMEMBERED that the above-entitled and  
2 numbered matter came on regularly to be heard before the  
3 Arizona Power Plant and Transmission Line Siting  
4 Committee at Tucson Reid Park Doubletree, 445 South  
5 Alvernon Way, Tucson, Arizona, commencing at 1:03 p.m. on  
6 July 8, 2024.

7

8 BEFORE: ADAM STAFFORD, Chairman

9 GABRIELA S. MERCER, Arizona Corporation Commission  
10 LEONARD DRAGO, Department of Environmental Quality  
11 DAVID FRENCH, Arizona Department of Water Resources  
12 NICOLE HILL, Governor's Office of Energy Policy  
13 R. DAVID KRYDER, Agricultural Interests  
14 SCOTT SOMERS, Incorporated Cities and Towns  
(via videoconference)  
MARGARET "TOBY" LITTLE, PE, General Public  
15 DAVE RICHINS, General Public  
16 JOHN GOLD, General Public

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18 Tucson, Arizona 85719

19 SPANISH INTERPRETER: Ms. Alma Dausinger, to translate  
20 any requested translations from English into Spanish and  
21 Spanish into English during the public comment session.

22

23

24

25

1 CHMN STAFFORD: All right. Let's go on the  
2 record. Now is the time set for the hearing on the  
3 application of Tucson Electric Power for a certificate of  
4 environmental compatibility for its Midtown Reliability  
5 Project Docket No. L-00000C-24-0118-00232 or Line Siting  
6 Case 232.

7 Let's take the roll.

8 Member Kryder.

9 MEMBER KRYDER: Present.

10 CHMN STAFFORD: Member Mercer.

11 MEMBER MERCER: Present.

12 CHMN STAFFORD: Member Gold.

13 (No response.)

14 CHMN STAFFORD: Member Drago.

15 MEMBER DRAGO: Present.

16 CHMN STAFFORD: Member Little.

17 MEMBER LITTLE: Present.

18 CHMN STAFFORD: Member French.

19 MEMBER FRENCH: Present.

20 CHMN STAFFORD: Member Hill.

21 MEMBER HILL: Present.

22 CHMN STAFFORD: Member Richins.

23 MEMBER RICHINS: I'm here.

24 CHMN STAFFORD: Do we have Member Somers  
25 online?



1 (No response.)

2 CHMN STAFFORD: And Member Gold is here.  
3 He's just not at his microphone.

4 MEMBER KRYDER: Right. Here he comes.  
5 Tell him you're present, Jon.

6 MEMBER GOLD: Present.

7 CHMN STAFFORD: Thank you, Member Gold.  
8 All right. We have a number of parties to  
9 this application. All of them are parties by right.  
10 There's the applicant, Banner Health, City of Tucson,  
11 Pima County, and Underground Arizona.

12 Let's start by taking appearances beginning  
13 with the applicant.

14 MS. GRABEL: Thank you, Mr. Chairman,  
15 Committee members. Meghan Grabel from the law firm  
16 Osborn Maledon on behalf of the applicant Tucson Electric  
17 Power Company.

18 With me from my law firm is my associate  
19 Elias Ancharski. And also with me up at counsel table is  
20 Megan Hill, who's TEP's in-house regulatory counsel.

21 CHMN STAFFORD: Banner Health.

22 MS. DE BLASI: Good afternoon, Chairman and  
23 Committee members. I'm Michelle De Blasi with the Law  
24 Firm of Michelle De Blasi. And I am here representing  
25 Banner Health University Medical Campus.

1 And with me will be my witness Mark  
2 Barkenbush.

3 CHMN STAFFORD: Thank you.  
4 City of Tucson.

5 MR. LUSK: Good morning, Mr. Chair. This  
6 is -- my name is Roi Lusk. And I'm here with Jennifer  
7 Stash representing the City of Tucson. Our witness will  
8 be Mark Castro.

9 CHMN STAFFORD: And Pima County.  
10 (No response.)

11 CHMN STAFFORD: All right. Underground  
12 Arizona.

13 MR. DEMPSEY: My name is Dan Dempsey, and I  
14 represent Underground Arizona.

15 CHMN STAFFORD: All right. Thank you.  
16 Would the parties like to make an opening  
17 statement, starting with the applicant?

18 MS. GRABEL: Yes, I would. Thank you,  
19 Mr. Chairman. And I ask the Committee's indulgence.  
20 It's a bit longer than I normally do given the nature of  
21 this project.

22 CHMN STAFFORD: But it's under 30 minutes;  
23 right?

24 MS. GRABEL: I hope so.

25 CHMN STAFFORD: Thank you.

1 MS. GRABEL: Mr. Chairman, Committee, this  
2 case is unique compared to most that this Committee  
3 hears. The transmission line that is the subject of this  
4 application is not needed simply to interconnect a new  
5 customer or a new generation to the grid. It is part of  
6 TEP's plan to upgrade and modernize the 50- to  
7 70-year-old electric infrastructure that serves the  
8 Tucson area. And in doing so meets several critical  
9 reliability needs as I will discuss.

10 If I were to give a theme to this case, it  
11 would be this.

12 Can we put up the slides? That doesn't  
13 count against my 30 minutes.

14 Progress. This is a case about modernizing  
15 an electric grid to keep pace with the City's growing  
16 population and progressing with the City to meet its  
17 evolving energy needs.

18 The electric grid serving the Midtown  
19 Tucson area was built in the 1950s and '60s during a time  
20 of large population growth, and it has grown  
21 exponentially since then.

22 I thought this was an interesting picture  
23 and certainly apropos to the present case. The  
24 population of the City of Tucson in the early 1950s was  
25 around 50,000 people. According to Archive Tucson, a

1 University of Arizona library website that preserves the  
2 history of the City, the entire population of Tucson in  
3 the 1950s could fit with plenty of seats to spare in  
4 today's University of Arizona's stadium.

5 And as you can see by the evolution of the  
6 skyline, Tucson had grown considerably by 1980. And  
7 TEP's existing 46kV grid was built in that interim period  
8 between 1950 and 1970 to accommodate that marked  
9 population change.

10 Tucson continued to grow in the succeeding  
11 decades, much of it through infill and already populated  
12 areas, as demonstrated by the difference in intensity of  
13 the light in the center of the skyline between 1980 and  
14 2003.

15 This is modern Tucson, which has grown even  
16 more since TEP first installed its 46kV system to serve  
17 the City in the 1950s. In fact, TEP has had over 30  
18 percent load growth since the year 2000. That's just the  
19 past 24 years, the last skyline in the photo previously  
20 reviewed.

21 Tucson's current population of over half a  
22 million people is more than four times what it was when  
23 TEP's existing electric infrastructure was installed.  
24 Not only has the population changed, but the City's  
25 energy needs have also evolved.

1 The current system was designed to serve  
2 homes and buildings that were smaller, used gas  
3 appliances, swamp coolers instead of air conditioner, and  
4 relied entirely upon cars fuelled by gas.

5 Today Midtown Tucson is fully developed.  
6 The City encourages infill and is being built upward.  
7 Customers rely heavily on air conditioning, particularly  
8 in these hot summer days. And the community and its  
9 government shows a keen interest in encouraging the  
10 adoption of electric vehicles, rooftop solar systems, and  
11 battery storage.

12 An electric grid designed to meet the needs  
13 of customers in the middle of the last century simply  
14 cannot accommodate today's increasing energy demand and  
15 new energy needs. As you will hear, the existing system  
16 is at capacity and has real reliability challenges that  
17 need to be addressed now.

18 Rather than simply replace that old system,  
19 TEP proposes with this project to upgrade it to modern  
20 standards that can meet the future energy needs of a  
21 growing and evolving Tucson. So how is it going to do  
22 that? First TEP will build a 138kV line that connects  
23 the existing Kino Substation to the DeMoss Petrie or DMP  
24 substation with a connection through a planned 138kV Vine  
25 Substation.

1           This 138kV line is the second phase of the  
2 Irvington to DMP project, which is needed to comply with  
3 NERC reliability rules to avoid overloads on TEP's  
4 transmission system in the event of a transmission  
5 outage.

6           The first phase of the Irvington to DMP  
7 project, the Irvington to Kino line was approved by this  
8 case in case No. 178 and was completed in 2021.

9           The MRP project is the second phase  
10 completing a transition loop that improves reliability  
11 for both Midtown and all of TEP's customers as you will  
12 hear in detail during this hearing.

13           Second, TEP will construct a 138kV Vine  
14 substation. TEP's planners determined that additional  
15 transmission capacity was needed in the Midtown area,  
16 which required the construction of a supporting  
17 substation, Vine.

18           Running the MRP line through the Vine  
19 Substation serves the dual benefit of adding needed  
20 transmission capacity to Midtown and completing the  
21 transmission line loop that I just mentioned.

22           Third, TEP will retire and upgrade its  
23 aging infrastructure. It will replace the old wooden  
24 poles you have likely seen in Midtown, and if you  
25 haven't, you will certainly see them during the tour, and

1 replace them with more robust but fewer steel poles. And  
2 with the addition of a new 138kV transmission line and  
3 substation it will retire and remove up to eight 46kV  
4 substations and 19 miles of existing 46kV lines in the  
5 next ten years.

6 The result is a net reduction of utility  
7 infrastructure, which improves the appearance of Tucson  
8 streets and saves customers from paying for millions of  
9 dollars in replacement costs for these facilities.

10 Fourth, while not the subject of this  
11 application, TEP intends to upgrade the lower voltage  
12 distribution system serving this area as part of the  
13 overall project replacing the antiquated 4kV distribution  
14 system with a modern 14kV system controlled by an  
15 advanced distribution management system. That's a  
16 software solution that automates outage restoration and  
17 optimizes the performance of the electric grid.

18 This project also proposes to relocate  
19 another 15.7 miles of existing distribution lines and  
20 communication attachments belowground as part of the  
21 preferred route for this project. In fact, between  
22 retiring assets and relocating existing infrastructure  
23 underground, 32 miles of existing overhead infrastructure  
24 will no longer be visible in the Tucson area.

25 So not only will reliability for the area

1 be improved, but the visual aesthetics of the area will  
2 improve as well as many of the visual simulations will  
3 demonstrate. And just to give you one example, the  
4 current view at Park Avenue and Chauncey Lane is riddled  
5 with utility poles and lines, including communications  
6 attachments to utility poles.

7 I count in the left picture 15 lines and at  
8 least six poles from this key observation point. The MRP  
9 project will result in the retirement or relocation  
10 underground of all of the infrastructure on the left and  
11 in the background. The stray line running to the light  
12 pole will also be removed. It was mistakenly left up in  
13 this picture. So the new view will include only a  
14 handful of slightly taller poles with four lines run  
15 parallel on the right side of the street.

16 The MRP project will clean up many of the  
17 streets along the various route alternatives, not just  
18 this one. This benefit is on top of significant  
19 reliability gains that MRP will bring to Central Tucson.  
20 I would also note that communications equipment that is  
21 currently attached to the distribution poles cannot  
22 reappear on a 138kV system because it's -- by law you  
23 can't attach communications equipment to high voltage  
24 transmission.

25 This project has had a really long history.



1 It was first identified as serving a reliability need for  
2 the TEP transmission system in 2007. TEP's 138kV  
3 transmission system at that time circled the central  
4 region but left a large gap in its growing center.

5 NERC rules require redundancy in the event  
6 of a transmission outage and a line bisecting the Tucson  
7 area was a needed solution. That line was to be  
8 developed in two phases. The first was Irvington to  
9 Kino, which was awarded the CEC for construction for over  
10 virtually no opposition in 2018.

11 But when TEP started outreach on the second  
12 phase, the Kino to DMP line, it received significant  
13 public pushback. Unlike the Irvington to Kino line, Kino  
14 to DMP ran through several more organized residential  
15 neighborhoods, but insisted that the line be constructed  
16 belowground.

17 The City of Tucson also took the position  
18 that the Kino to DMP line had to be built underground  
19 pursuant to city ordinance, which was a position it had  
20 not taken in the prior phase of the project.

21 Given the community's response, TEP  
22 withdrew its initial application and attempted to devise  
23 a solution to serve the city in a mutually agreeable way.

24 Because the issue of undergrounding the  
25 construction of the MRP line will play a central theme in

1 this hearing I want to lay a little bit more background  
2 about it. As I mentioned, the City of Tucson and other  
3 stakeholders in the first attempt at siting this project  
4 took the position that portions of the line needed to be  
5 constructed belowground to comply with the local law  
6 called the Unified Development Code. You'll hear it  
7 referred to as the UDC.

8                   The UDC establishes what is called a  
9 Gateway Corridor Zone, which is a land use overlay  
10 intended to improve the visual aesthetic of major streets  
11 and routes in the City.

12                   Other stakeholders argue that various  
13 neighborhood and area plans also require that the line be  
14 buried belowground. TEP disputed the applicability of  
15 those ordinances and plans, which had not been sited as a  
16 reason to underground the Irvington to Kino line, which  
17 was also in a Gateway Corridor, and argued that given the  
18 truly extraordinary cost of undergrounding, which is 10  
19 to 20 times the cost of aboveground construction, if not  
20 more, as you will hear in TEP's case, the cost difference  
21 should not be funded by utility rates.

22                   The dispute regarding the applicability of  
23 the UDC to this project is now the subject of litigation  
24 with a decision pending any day from superior court.  
25 However, rather than wait for the outcome of that

1 litigation and any subsequent appeal and because of the  
2 urgent need for this project to meet Tucson's reliability  
3 needs, TEP and the City worked together in collaboration  
4 to try to find a mutually beneficial solution.

5           The first thing that the City and TEP did  
6 was to negotiate with stakeholder input special  
7 exceptions to the UDC that would allow for the  
8 construction of overhead transmission lines in certain  
9 circumstances such as, and as most relevant to the  
10 existing application, when the line perpendicularly  
11 crosses one of the major streets covered by the Gateway  
12 Corridor Zone.

13           Second, TEP and the City explored various  
14 means of funding the extreme cost difference between  
15 building the transmission line above versus belowground.  
16 They explored utility rates, whether TEP shareholders  
17 should fund it, whether private parties -- third parties  
18 could fund it, whether government resources were  
19 available to fund it, whether an underground improvement  
20 district could fund it as provided by state law, or  
21 whether the franchise fee that TEP pays to the City could  
22 be used to fund it. As you will hear in testimony, none  
23 of these proved fruitful to explore except for the  
24 franchise fee option.

25           So TEP and the City determined to

1 renegotiate TEP's franchise with the City and to increase  
2 franchise fee to pay for various things, including  
3 undergrounding and also investing in the City's climate  
4 plan, among other things. That franchise had to be  
5 approved by Tucson voters in a special election but was  
6 heavily contested and ultimately failed.

7           So TEP went back to the drawing board and  
8 reengaged the public and reinitiated the siting process  
9 to determine the routes that are before you today.

10           Before I move on to the routes, I want to  
11 emphasize how truly extensive TEP's outreach and  
12 engagement has been for this project. As you will hear  
13 in greater detail, during the witness presentation, TEP  
14 went to incredible lengths to inform and receive feedback  
15 from each of the neighborhoods that could have been  
16 impacted by this project about it. From a public survey  
17 to multiple open meetings to neighborhood listening  
18 sessions, neighborhood advisory group meetings with 21  
19 participating neighborhoods, social media outreach, the  
20 outreach was intensive and productive as evidenced by the  
21 hundreds of comments and questions received relating to  
22 the project. As you will hear, TEP took the community's  
23 feedback to heart as it devised its various routes.

24           In the end, TEP landed on the 10  
25 alternatives presented to this Committee today. This

1 map, which you will see often, is identical to the map on  
2 the laminated placemat in front of you and has been  
3 marked as TEP-2.

4 Alternatives characterized with letters A,  
5 B, C, or D indicate routes connecting the existing DMP  
6 Station identified by the northmost blue triangle on the  
7 map and the planned Vine Substation, which is the yellow  
8 triangle in the middle.

9 Routes tagged with numerical identifiers,  
10 so 1 through 6, indicate the routes planned between the  
11 planned Vine Substation and the existing Kino Substation,  
12 which is the southmost blue triangle.

13 Each alternative route has its own demerits  
14 and merits, which we will discuss over the next several  
15 days. And we realize, of course, that there are a lot of  
16 alternatives, but, given the public interest in this  
17 process, we thought it was important to present options  
18 that went through various parts of Central Tucson and had  
19 various impacts on the Gateway Corridors.

20 TEP ultimately requests approval of two  
21 segments that will form one looped route serving the  
22 Midtown Tucson area. The route will be a combination of  
23 a letter segment between DMP and Vine and a numbered  
24 alternative between Vine and Kino.

25 Of the alternatives TEP's preferred route

1 is alternative B and alternative 4 as depicted in orange  
2 with the black outline on this map. The preferred route  
3 is approximately 8.5 miles long and is supported by  
4 Banner.

5 The City of Tucson continues to assert that  
6 portions of any route that runs through a Gateway  
7 Corridor Zone and that does not qualify for special  
8 exception must be constructed belowground. Underground  
9 Arizona also argues that any project that transverses a  
10 neighborhood or area plan that has provisions regarding  
11 undergrounding must also be constructed belowground.

12 This map shows the various segments with an  
13 overlay of the Gateway Corridor Zone and the two impacted  
14 plans: The Sam Hughes Neighborhood Plan and the  
15 University Area Plan.

16 Gateway Corridor Zones are represented in  
17 dark gray covering as relevant Oracle, Grant, Broadway,  
18 and Kino. They look like the little gray worms along the  
19 side.

20 As you will see, every route crosses a  
21 Gateway Corridor Zone street at one point or another.  
22 The preferred route B-4 crosses Oracle perpendicularly on  
23 the north part of the map. Then crosses Broadway as it  
24 heads from the Vine Substation. And then crosses Kino as  
25 it heads east into the Kino Substation.

1           That said, we believe that these crossings  
2 satisfy the requirements of a special exception allowing  
3 the entire Grant line to be constructed aboveground.  
4 That special exception should also apply to other  
5 segments that cross a Gateway Corridor route.

6           The routes that the City is least likely to  
7 allow to be constructed aboveground, however, assuming  
8 their interpretation of the ordinance is correct, is most  
9 of Route 1, which parallels Campbell, a portion of Route  
10 D, which parallels Campbell for a short time, and a  
11 portion of Routes 2 and 6 in the blue and pink, which  
12 parallel Broadway for a short time.

13           I would also note that Routes 5 and 6  
14 require an approval from the Union Pacific Railroad.  
15 Despite TEP's efforts to get the railroad's approval of a  
16 route that implicates the railroad, we have not yet had  
17 confirmation that a route that can be built on the  
18 required time frame. So for this reason, if you choose  
19 Routes 5 or 6, we ask that you also approve an  
20 alternative in case we are unable to get the necessary  
21 authorization from the railroad on time.

22           As you will also see from the hashtagged  
23 area, which is where the neighborhood plans are, every  
24 single route runs at some point in time through property  
25 covered by the University of Area Plan and Routes 1 and 2

1 also run through property covered by the Sam Hughes  
2 Neighborhood Plan.

3 We firmly disagree that these plans have  
4 the strength of regulation that would require TEP to  
5 construct a 138kV transmission line belowground in these  
6 areas. Plans only apply to the project if they are  
7 incorporated into regulation through a zoning change, for  
8 example.

9 Moreover, because 15.7 miles of existing  
10 utility infrastructure will be relocated belowground as  
11 part of the preferred route and more for other  
12 alternatives and up to eight kV substations and  
13 several -- I'm sorry, eight 46kV substations and several  
14 more miles of distribution lines will be retired in the  
15 coming years resulting in a net reduction in overhead  
16 lines, TEP believes that the project firmly meets the  
17 purposes of these neighborhood and area plans.

18 Of these routes TEP prefers B-4 because it  
19 best balances the economic construction of the line with  
20 our interest in respecting the wishes of City, Banner,  
21 and other stakeholders who have urged a route other than  
22 down Campbell. That said we can build any of them. We  
23 are certainly not going to ask this Committee to resolve  
24 the legal question as to whether local law requires that  
25 the line be constructed belowground.



1           If, however, the Committee selects a route  
2 that it believes may conflict with a local ordinance or  
3 applicable plan, we are going to ask that you make a  
4 legal finding that the law allows you to make to  
5 supersede local regulations.

6           Specifically, an Arizona Revised Statute  
7 40-360D allows this Committee to issue a CEC  
8 notwithstanding any ordinance, master plan, or regulation  
9 if the Committee finds as a fact that compliance with  
10 such ordinance, master plan, or regulation is  
11 unreasonably restrictive, and compliance therewith is not  
12 feasible in lieu of the technology available.

13           Assuming this Committee agrees that an area  
14 or neighborhood plan does not require undergrounding and  
15 it is only required for a route that runs through a  
16 Gateway Corridor, this finding would be required for  
17 Routes D, 1, 2, and 6.

18           If you agree with Underground Arizona that  
19 the plans do, in fact, have the force of law, you will  
20 need to make this finding for any of the routes that are  
21 approved because we cannot avoid the University Area  
22 Plan. This project simply cannot be built without  
23 running near the U of A.

24           So to the extent you choose a route that  
25 requires a legal filing -- a legal finding to construct,

1 we believe the facts will bear out that a requirement to  
2 build this project belowground is unreasonably  
3 restrictive, and the compliance with that law is not  
4 feasible in light of the available technology.

5 First, it's important to understand that  
6 feasible must mean more than possible in the context of  
7 this law. We do not contest that the law [sic] can be  
8 constructed belowground. It is physically possible to do  
9 so. It's hard to concede of a local law that would be  
10 physically impossible to comply with. But feasibility  
11 has other components, including cost, practicality, and  
12 ratepayer impacts.

13 As you'll see from the slide, the law  
14 generally holds that feasible includes an economic  
15 component. The Arizona Supreme Court, for example, has  
16 found that reasonable feasibility includes consideration  
17 of whether a project is achievable from a practical  
18 standpoint and economically sound.

19 The United States Supreme Court interpreted  
20 the word "feasibility" under the context of OSHA to  
21 include both economic and technical feasibility.

22 The Third Circuit also agreed that it would  
23 comport with common usage to say that a standard that is  
24 prohibitively expensive is not feasible.

25 And while this is a case of first

1 impression in Arizona, courts in other jurisdictions have  
2 hold that the increased cost of local undergrounding  
3 ordinances applied to transmission lines can render local  
4 ordinances unreasonably restrictive, prohibitive, and  
5 subject to state preemption.

6 For example, in Ohio the Ohio Court of  
7 Appeals held that in light of the evidence that  
8 underground installation would increase substantially the  
9 cost per mile we hold the ordinance to be unreasonable as  
10 applied to the project.

11 Similarly, the Wisconsin Public Service  
12 Commission overrode a local undergrounding ordinance  
13 holding that the proliferation of undergrounding  
14 ordinances would intolerably interfere with the orderly  
15 statewide planning, certification, and construction of  
16 necessary utility projects.

17 Massachusetts agreed finding that, quote,  
18 "There is ample evidence in the record upon which the  
19 Department reasonably could find the cost of constructing  
20 an underground transmission line prohibitive."

21 Our Arizona Commission has also weighed in  
22 on the matter. In a decision published last year, it put  
23 in writing its policy that -- and I'm going to quote the  
24 bold -- "Installing electric transmission lines  
25 underground is much more expensive than building them

1 aboveground.

2 "Underground transmission lines can also be  
3 more costly and challenging to maintain and repair. As a  
4 general matter, utilities under the Commission's  
5 jurisdictions should avoid incurring those higher costs  
6 unless underground installation of a transmission line is  
7 necessary for reliability or safety purposes or to  
8 satisfy other prudent operational needs.

9 "Installing a transmission line underground  
10 for other reasons, such as stakeholder preferences, would  
11 add unnecessarily to costs recovered through rates."

12 It then also noted another legal remedy for  
13 funding the underground construction of lines through the  
14 creation of an underground improvement district which the  
15 impacted residents rejected in this case, as you'll hear.

16 I would also note that the law specifically  
17 requires this Committee to consider the costs of the  
18 project and ratepayer impacts in its decision-making.  
19 That's A.R.S. 40-360.06(A)(8).

20 So against that legal backdrop, we believe  
21 that the facts will bear out that a requirement to build  
22 this project belowground is unreasonably restrictive and  
23 that compliance with that law is not feasible in light of  
24 the technology available.

25 In this case, as you will hear in evidence,

1 the cost to underground is anywhere from 14 to 22.2 times  
2 the cost to construct aboveground. Maybe in the future  
3 the technology will make it less expensive, but that  
4 surely is not the case today.

5 And from an environmental perspective,  
6 which is what this Committee was formed to address, it is  
7 incredibly disruptive to the environment to underground a  
8 project digging wide and deep trenches in narrow streets  
9 and requiring the relocation of existing conflicting  
10 underground utilities elsewhere with additional land  
11 impacts, not to mention the significant noise and traffic  
12 disruption associated with underground construction.

13 Undergrounding also has a much longer and  
14 variable construction time frame. It takes months to  
15 build a mile of an underground transmission line compared  
16 to a day or two to install an aboveground utility pole.

17 Tucson is also culturally sensitive area,  
18 and it is highly likely that the digging required for  
19 underground construction would unearth a historically  
20 rich artifact. In that case construction could be  
21 considerably delayed. All of this risks the much needed  
22 2027 in-service date.

23 An additional delay in this case is just  
24 not an option. The Tucson system, as I talked about  
25 before, is aging and it's failing. There's an urgent

1 need to address it. TEP has already spent more than  
2 \$10 million to band-aid its existing system, which is old  
3 and outdated, from a delayed 2024 in-service date. And  
4 it will have to spend another \$10 million in repairs to  
5 this old system if we miss the 2027 in-service date.

6 And if it's delayed beyond then, TEP would  
7 need to replace the entire 46kV system for more than \$50  
8 million without the added capacity or modernization  
9 benefits, and it would still need to build another  
10 transmission line connecting Irvington to DMP for  
11 transmission reliability reasons. Time really is of the  
12 essence. This project can't be delayed any further than  
13 it already has been.

14 Of course, you're going to hear everything  
15 I just told you in evidence. Each of the Committee  
16 members present should have your binder with all of the  
17 exhibits and materials that the TEP team intends to use  
18 through the hearing and on your iPads as well. The  
19 exhibits are also accessible on the iPads as I just  
20 mentioned thanks to our great AV team.

21 We intend to present witnesses in four  
22 panels. On the first panel we will hear from Mr. Erik  
23 Bakken, Vice President of System Operations and  
24 Environment for TEP; Mr. Clark Bryner, Manager of Siting  
25 Outreach and Engagement for the company; and

1 Mr. Christopher Lindsey, TEP Senior Advisor Transmission  
2 Business Strategy and Development. Mr. Bakken,  
3 Mr. Bryner, Mr. Lindsey will present an introduction and  
4 overview of the project, its purpose and need, and its  
5 history.

6 Mr. Larry Robinson, director of engineering  
7 for the company, will then join Mr. Bryner to discuss the  
8 preferred and alternative routes for the project on the  
9 second panel. This panel will lead the virtual tour,  
10 which will be broken up into digestible route flyovers.

11 Third, Mr. Bryner will discuss public  
12 outreach together with the planning and siting process  
13 that produced the project before the Committee today.

14 And finally, Mr. Robinson will join  
15 Mr. Jason Jocham, a Vice President and Project Director,  
16 for Sargent & Lundy, to testify to the estimated costs  
17 and operational considerations for undergrounding  
18 portions of the proposed 138kV transmission routes.

19 In the event that questions about property  
20 valuation in the study area arise, TEP will also offer  
21 Ms. Sara Baker, a commercial and residential real estate  
22 appraiser, as a rebuttal witness to discuss the impacts  
23 of transmission lines on the market value of residential  
24 properties.

25 In closing, the Midtown Reliability Project

1 is needed for reliability. The current 46kV  
2 infrastructure serving Central Tucson is 50 years old or  
3 older and is either poor or in very poor condition. It  
4 looks its age and it is at capacity creating a risk of  
5 low voltage and outages. It needs to be replaced with a  
6 system that is built to meet today's needs.

7 MRP is needed for better service  
8 continuity. The project will complete the 138kV loop  
9 around Central Tucson initiated with the Irvington to  
10 Kino line allowing customers in this area to benefit from  
11 another source of power should an outage occur, thus  
12 making outages shorter and less frequent.

13 It's needed for modernization. TEP's  
14 existing 46kV system was not designed to serve the needs  
15 of homes and businesses built 50 to 70 years ago. This  
16 project adds three times the capacity of the current  
17 system allowing for additional population growth and  
18 energy usage and supporting modern technologies that the  
19 Tucson community wants such as electric vehicles, rooftop  
20 solar, and battery storage.

21 It's needed for regulatory compliance.  
22 NERC reliability rules require TEP to build a  
23 transmission path from DMP to Irvington for transmission  
24 reliability purposes, and this project meets that need.

25 And finally it's needed for economic



1 growth. The project will upgrade service to the  
2 University of Arizona, Tucson's largest employer, and to  
3 Banner, each of which provides services and benefits for  
4 the entire Tucson community.

5 Notably, as I've mentioned, between the  
6 undergrounding and relocation distribution and  
7 communication infrastructure and retirement of the  
8 existing 46kV system, this project will remove 32 miles  
9 of aboveground poles and wires. The result is a  
10 significant net reduction in visible utility  
11 infrastructure.

12 Of course, as I noted, any line approved in  
13 an area that is required by local law or plan to be  
14 constructed belowground requires a concomitant finding  
15 that the local law or plan is unreasonably restrictive  
16 and the compliance with it is not feasible. This finding  
17 can and should include economic considerations.

18 We believe that at the close of the  
19 proceedings you will conclude that the Midtown  
20 Reliability project will help meet Arizona's need for  
21 adequate, economical, and reliable supply of power with  
22 minimal impacts to the environment and ecology of the  
23 State.

24 We therefore respectfully ask that you  
25 approve the requested CEC. As a resident of the Sam

1 Hughes neighborhood was quoted as saying in the Tucson  
2 Daily Star article relating to the MRP project, "Let  
3 progress progress." Thank you.

4 CHMN STAFFORD: Thank you, Ms. Grabel.

5 Banner Health, would you care to make an  
6 opening statement?

7 MS. DE BLASI: Yes, I would, Chairman.

8 Thank you again. My name is Michelle De  
9 Blasi of the Law Office of Michelle De Blasi, and I'm  
10 representing Banner Health.

11 The Banner University Medical Center Tucson  
12 campus, which I'll refer to as the medical center,  
13 provides comprehensive acute care, quaternary, and  
14 tertiary services. These services provide -- include --  
15 provided include hospital, emergency, including life  
16 flight, and ongoing medical treatment to members of the  
17 Tucson community.

18 Banner is an Arizona non-profit corporation  
19 whose primary mission is to protect the health of the  
20 populations it serves through the provision of affordable  
21 health care.

22 As part of its mission, Banner owns and  
23 operates the medical center. The medical center is the  
24 primary teaching affiliate of the University of Arizona  
25 College of Medicine and provides special services

1 including comprehensive heart and cancer care, advanced  
2 neuroscience techniques, and a multiorgan transplantation  
3 program.

4 The medical center is one of two Level I  
5 trauma centers in southern Arizona. Diamond Children's  
6 Medical Center located within the medical center provides  
7 specialized pediatric services, including neonatal and  
8 intensive care emergency medicine and cancer therapies.

9 The medical center is located on  
10 approximately 30 acres of land within the University of  
11 Arizona Tucson campus at the intersection of North  
12 Campbell Avenue and East Elm Street, also known as 1625  
13 North Campbell Avenue adjacent to the proposed site for  
14 the construction of the UA North Vine Substation.

15 The medical center campus contains  
16 facilities for inpatient and outpatient medical care,  
17 including four patient hospital towers, numerous  
18 ancillary medical buildings, associated administrative  
19 facilities, and a greenbelt that was constructed to  
20 provide a buffer between the medical center and  
21 surrounding historical neighborhoods as part of Banner's  
22 commitment to minimize impacts of the medical center on  
23 those neighborhoods.

24 The corridor selected for this project is  
25 of critical importance to the medical center and will

1 directly impact the use and operations of the medical  
2 center. Applicant's preferred route near the medical  
3 campus and Vine Substation would avoid impacts to the  
4 use, maintenance, and buffer between the medical center  
5 buildings and the adjoining neighborhoods, flight  
6 operations of the medical center, and future potential  
7 changes or additions to the medical center campus.

8 Applicant's preferred route also avoids  
9 Banner's concerns with the impacts to the project, both  
10 real and perceived, on the medical center, sensitive  
11 medical equipment and public perceptions of the medical  
12 center. Thus, Banner has chosen to intervene as a party  
13 in this case.

14 As the Committee knows, this development --  
15 the development of this project has been a long process,  
16 and Banner has been involved throughout that process. To  
17 date Banner has invested over \$700 million in the  
18 development of its medical campus.

19 As a critical resource to the Committee it  
20 is crucial to ensure there are not any issues that arise  
21 in this case that would impede the medical services and  
22 operations of the medical campus.

23 We have conferred with the applicant and  
24 other intervening parties on the preferred and  
25 alternative routes, and we believe the preferred route

1 near the medical campus as currently proposed will not  
2 impact the viability of the medical campus services and  
3 operations.

4           Banner will be presenting one witness,  
5 Mr. Mark Barkenbush, who is the Vice President of  
6 Facility Services for Banner. We have provided  
7 Mr. Barkenbush's professional background as our prefiled  
8 testimony summary as prefiled Exhibit BUMCT-1.

9           Mr. Barkenbush will testify regarding the  
10 overview and history of the medical center, the medical  
11 center's coordination agreement with the Jefferson Park  
12 Neighborhood Association, critical safety and viewshed  
13 issues related to the operation of the medical facility,  
14 electrical service provided by TEP's Midtown Reliability  
15 Project to the medical center, and the medical center  
16 support for TEP's preferred route versus alternative  
17 routes.

18           Mr. Barkenbush will present his testimony  
19 through a PowerPoint presentation which we provided in  
20 our prefiled exhibits as prefiled Exhibit BUMCT-2. And I  
21 believe the applicant has agreed to be so kind as to put  
22 our presentation on all of your iPads for next week.

23           We would like to thank the Chairman and  
24 Committee for their time and expertise for this important  
25 project and the applicant and other intervening parties

1 for conferring with us on the issues prior to the  
2 hearing. Thank you.

3 CHMN STAFFORD: Thank you.

4 The City of Tucson?

5 MR. LUSK: Thank you, Mr. Chair, and  
6 members of the Committee.

7 The concern that the City has in this  
8 proceeding is not related to the necessity for progress  
9 or the necessity for this project in and of itself.

10 What the concern the City has and is  
11 willing to discuss and defend is its ability to enforce  
12 its own code. And that's been our position throughout  
13 the entirety of this proceeding as well as our  
14 discussions with the applicant as well prior to this  
15 proceeding.

16 There are many things that we think will be  
17 positive about this project, and we have little concern  
18 about those things. The only thing we are involved  
19 in this -- the only reason we are involved in this  
20 particular proceeding is because under state law we're  
21 required to be as because the applicant has requested a  
22 specific factual finding that you make. And that factual  
23 finding was already discussed by Ms. Grabel, and I won't  
24 belabor it.

25 But the -- for the specifics of that

1 decision, I will clarify it's not a legal finding. We're  
2 not intending that you be judges and arbiters of the law.  
3 What the statute requires is that you make a factual  
4 finding. And that factual finding, again, is  
5 unreasonably restrictive -- that our code is unreasonably  
6 restrictive, and compliance therewith is not feasible in  
7 view of technology available.

8           It says nothing about cost in that  
9 particular provision. And I think that's important to  
10 understand for the Committee members because what we're  
11 not suggesting is that this is a cheap thing to do or  
12 even that we would suggest that TEP do that.

13           What we're suggesting is that the reasons  
14 that the City has and that its voters have put the mayor  
15 and council in power to enforce those provisions is for  
16 their -- their ability to run the City in which they want  
17 to.

18           And I know we're going to conflate these --  
19 these terms in this -- in this proceeding quite a bit.  
20 Utility ratepayers, taxpayers, community members, they're  
21 all the same here in Tucson; right?

22           The City of Tucson has people who have  
23 decided to make certain decisions about their own city  
24 and their other right-of-way. And we ask that the  
25 Committee and applicant respect those, and that's all

1 we're intending to proceed with in this proceeding.

2           What's very clear I think what you'll find  
3 throughout this proceeding is, and I think the applicant  
4 will also say this as well, is they're not saying that  
5 they can't do this. They're not saying that under  
6 this -- if you were to make this factual finding they  
7 couldn't build the route underground.

8           What they're saying is it's very expensive,  
9 and that's a different thing. It's also not necessarily  
10 so that it couldn't be done financially or economically.  
11 It's just very expensive. And there are many, many  
12 things that are very expensive that we do everyday and  
13 that we do all day, and that is not the standard that the  
14 factual finding you're asked to make is. And we'll --  
15 we'll argue that again during our own presentation.

16           Thank you.

17           CHMN STAFFORD: Thank you.

18           Pima County?

19           MS. GRABEL: Mr. Chairman, we got an e-mail  
20 from Mr. Yu from the County who said he will just be  
21 participating remotely and won't be involved in this  
22 proceeding.

23           CHMN STAFFORD: So he'll just be watching  
24 it?

25           MS. GRABEL: I think he's watching it.



1 CHMN STAFFORD: Okay. All right. Do we  
2 have Member Somers on the line?

3 MEMBER SOMERS: Yes, we do.

4 CHMN STAFFORD: Great. Just making sure  
5 you were here because I heard you were having some  
6 trouble calling in.

7 MEMBER SOMERS: So, yeah, we finally got  
8 that put aside, so I've heard the majority of the  
9 presentation so far.

10 CHMN STAFFORD: Okay. Excellent.  
11 Excellent.

12 Up next we have Underground Arizona.

13 MR. DEMPSEY: Hi. My name is Daniel  
14 Dempsey, and I represent Underground Arizona.

15 First of all, thank you for doing your job.  
16 It's not an easy job. And we're really appreciative of  
17 you taking the time to solve these issues for our  
18 communities.

19 Underground Arizona exists to educate you  
20 and the community about underground electric lines in  
21 Arizona. There are many misconceptions perpetuated by  
22 the utility companies that are easy to disprove.

23 The biggest is that undergrounding a  
24 project costs substantially more than aboveground. It  
25 does not -- it does cost more up front, but it saves

1 money over the long run such that the lifetime cost of  
2 the asset can be less than aboveground lines, especially  
3 in urban high-density settings.

4           The cost of undergrounding is not at all  
5 infeasible. We will demonstrate this beyond a reasonable  
6 doubt in our testimony.

7           As you know, under the line siting statute  
8 the Line Siting Committee does not have jurisdiction over  
9 underground lines. Had TEP chosen to underground where  
10 required by Tucson's laws this project would be done by  
11 now.

12           Such a project happened recently in  
13 Chandler where SRP paid to underground about three miles  
14 of transmission lines. It did the same thing five years  
15 earlier.

16           In addition, in Central Phoenix, APS is  
17 currently refurbishing and reconductoring an 11-mile  
18 underground transmission line at its own expense.

19           And in Tempe adjacent to ASU and Tempe Town  
20 Lake is another underground transmission line through an  
21 economically important area.

22           These are but a few examples of  
23 transmission lines in Arizona that were undergrounded  
24 because doing so was deemed prudent.

25           In Tucson we have a handful of areas of

1 historic or economic importance where undergrounding has  
2 been required by law since the 1980s after the Arizona  
3 Supreme Court confirmed a City's right to do so.

4 TEP has done everything it can to ignore  
5 these laws, is attempting to run aboveground transmission  
6 lines through the very center of Tucson and the economic  
7 heart of southern Arizona, which is important to all of  
8 Arizona in our competition with other states for tourism  
9 and business.

10 Its argument is that cost usurps all other  
11 considerations. Looking at the line siting factors,  
12 however, demonstrates that cost is but one factor out of  
13 nine. It is given no more importance than any other  
14 factor. And the City of Tucson's decades-old laws that  
15 TEP is asking you to override exists precisely to protect  
16 the other factors.

17 Ultimately, we will demonstrate that the  
18 cost to ratepayers of TEP obeying Tucson's laws is either  
19 nonexistent or insignificant. It is certainly nowhere  
20 near infeasible.

21 Moreover, TEP's project seeks to create a  
22 loop for redundancy. However, as we will also show,  
23 there's absolutely nothing about this project that  
24 requires this redundancy to go through so many legally  
25 protected areas.

1 TEP could avoid these long-protected areas  
2 to achieve its desired redundancy. Instead, it seeks to  
3 have you tell us these protected areas and the other line  
4 siting factors are insignificant compared to costs.

5 We ask you to deny TEP's application  
6 because none of the line siting factors favor approval.  
7 Please invite TEP to reapply once it takes the other  
8 factors seriously.

9 Please do not help TEP drag this process  
10 out any further than it already has. Help it follow the  
11 lead of APS and SRP in protecting Arizona's assets.

12 You will see that the community, including  
13 Underground Arizona, supports the project so long as it  
14 follows local laws which protect our most valuable  
15 assets.

16 I look forward to going through this  
17 process with you, and thank you for your time.

18 CHMN STAFFORD: Thank you.

19 Ms. Grabel, would you like to call your  
20 first panel.

21 MS. GRABEL: I would. Thank you,  
22 Mr. Chairman.

23 We call Mr. Bryner, Mr. Lindsey, and  
24 Mr. Bakken for the first panel, which is purpose in need  
25 and project overview.

1 CHMN STAFFORD: All right. You said  
2 Bryner, Lindsey, and Bakken for the first panel?

3 MS. GRABEL: Correct.

4 CHMN STAFFORD: Okay. All right.  
5 Mr. Lindsey, would you prefer an oath or affirmation?

6 MR. LINDSEY: Oath.

7 CHMN STAFFORD: Do you swear the testimony  
8 you will give in this matter will be the truth, the whole  
9 truth, and nothing but the truth so help you God?

10 MR. LINDSEY: I do.

11 CHMN STAFFORD: Mr. Bryner, oath or  
12 affirmation?

13 MR. BRYNER: Oath.

14 CHMN STAFFORD: Do you swear the testimony  
15 you will give in this matter will be the truth, the whole  
16 truth, and nothing but the truth so help you God?

17 MR. BRYNER: Yes, I do.

18 CHMN STAFFORD: Mr. Bakken?

19 MR. BAKKEN: Make it three for three.  
20 Oath.

21 CHMN STAFFORD: All right. Do you swear  
22 the testimony you will give in this matter will be the  
23 truth, the whole truth, and nothing but the truth so help  
24 you God?

25 Mr. Bakken: I do.

1 CHMN STAFFORD: Thank you.

2 Please proceed.

3 MS. GRABEL: Thank you, Mr. Chairman.

4

5 CHRIS LINDSEY, CLARK BRYNER, AND ERIK BAKKEN,  
6 called as witnesses as a panel on behalf of Applicant,  
7 having been affirmed or sworn by the Chairman to speak  
8 the truth and nothing but the truth, were examined and  
9 testified as follows:

10

11 DIRECT EXAMINATION

12 BY MS. GRABEL:

13 Q. Mr. Bryner, please state your name and business  
14 address for the record.

15 A. (Mr. Bryner) My name is Clark Bryner. My  
16 business address is 88 East Broadway, Tucson, Arizona.

17 Q. By whom are you employed and in what capacity?

18 A. (Mr. Bryner) I'm employed by Tucson Electric  
19 Power as the manager of siting outreach and engagement.

20 Q. What is your role in this matter?

21 A. (Mr. Bryner) For the Midtown Reliability  
22 Project, I've acted as the project manager responsible  
23 for the overall preparation of a CEC application,  
24 including all of the outreach and engagement activities,  
25 the various siting and analysis activities we've done.

1 Q. All right. Would you please briefly describe  
2 your education and experience for the Committee, and  
3 you're welcome to advance to the slide that contains that  
4 information as you do so.

5 A. (Mr. Bryner) Yeah. So I have a bachelor's in  
6 geography and a master's in bioregional planning both  
7 from Utah State University.

8 I'm a member of the American Planning  
9 Association and am a certified planner, a certification  
10 that I've had since 2011. I have over 18 years of  
11 experience in the electric utility industry primarily  
12 with Tucson Electric Power where I've filled a number of  
13 different roles.

14 For the past couple of years I've been  
15 responsible for siting. And prior to that, I spent about  
16 10 years in maintenance and asset management with direct  
17 responsibility for the maintenance of our transmission  
18 system.

19 And prior to that, I spent about six years as an  
20 environmental and land use planner, a number of those  
21 years with a consulting firm doing siting projects for  
22 various utilities in Arizona as well as throughout the  
23 western United States.

24 Q. Thank you.

25 As the project manager for the Midtown

1 Reliability Project, please turn to Exhibit TEP-1 which  
2 is the application for a CEC.

3 You need to lift weights to pick up our  
4 application.

5 A. (Mr. Bryner) Got it.

6 Q. Was TEP-1 prepared by you or under your  
7 direction and control?

8 A. (Mr. Bryner) Unfortunately, yes.

9 Q. Are the contents true and correct to the best of  
10 your knowledge?

11 A. (Mr. Bryner) Yes.

12 Q. Do you have any changes you would like to make  
13 to TEP-1?

14 A. (By Mr. Bryner) I do have a couple.

15 Q. Okay.

16 A. (Mr. Bryner) Okay. So if you were on page 23  
17 of the CEC application, so TEP-1 under Section 4, I'd  
18 like to revise the cost estimates that we provided.

19 So I want to point out that the direct cost for  
20 the transmission and right-of-way acquisition didn't  
21 change. However, after we submitted the application, we  
22 found a few areas where we didn't include all of the  
23 associated costs to move some of the existing lower  
24 voltage distribution lines underground. So that resulted  
25 in a change to the cost estimate for several of the



1 alternative routes.

2           So these costs are reflected under our witness  
3 presentation, which is TEP-8 under Slides 200 and 201.  
4 And they are also -- I know we haven't talked about the  
5 placemat yet, but they're also reflected on the placemat  
6 in front of you. So those are the correct costs as  
7 opposed to -- so I'd like to say use the costs on the  
8 placemat or on Slides 200 and 201 as opposed to the costs  
9 that you see on page 23 of the application.

10           And then the second correction that I'd like to  
11 make is from Exhibit G-3 of the application, so, again,  
12 the exhibit is TEP-1, and it's pages 128 through 130 of  
13 that exhibit. And those are visual simulations from key  
14 observation point 30. So those visual simulations show  
15 the perseverance of some existing overhead facilities  
16 even after the completion of the project. And our  
17 project would actually remove those facilities as part of  
18 this project.

19           So we have updated visual simulations from that  
20 key observation point that shows the removal of those  
21 facilities, and they're included in the witness  
22 presentation, again, which is TEP -- Exhibit TEP-8 on  
23 pages 47 through 49.

24           MEMBER RICHINS: Chairman.

25           CHMN STAFFORD: Member Richins.

1 MEMBER RICHINS: Can you clarify which page  
2 numbers we're using? Because there's some in the middle  
3 and there's some on the side. So which ones?

4 MR. BRYNER: So the ones on the side are  
5 sort of a master page number. If you went through 2000  
6 pages, it would go from 1 through 2000. So this would be  
7 the page numbers in the middle that are specific to that  
8 exhibit is what I'm talking about.

9 MEMBER RICHINS: Thank you.

10 MR. BRYNER: Yeah.

11 BY MS. GRABEL:

12 Q. Thank you, Mr. Bryner.

13 Please turn to Exhibit TEP-2 which is the map of  
14 the proposed project.

15 A. (Mr. Bryner) Okay.

16 Q. Was TEP-2 prepared by you or under your  
17 direction and control?

18 A. (Mr. Bryner) Yes.

19 Q. Are the contents of Exhibit TEP-2 true and  
20 correct to the best of your knowledge?

21 A. (Mr. Bryner) Yes. They are.

22 Q. Do you have any changes that you would like to  
23 make to Exhibit TEP-2?

24 A. (Mr. Bryner) No.

25 Q. Is this map the same map that is contained on

1 the laminated placemats that have been provided to the  
2 Committee Members and intervenors?

3 A. (Mr. Bryner) Yes. It is.

4 Q. You've noted a bit, but what other information  
5 is presented on those placemats?

6 A. (Mr. Bryner) so, yes, on the -- you saw the map  
7 on the one side. On the reverse side you have three  
8 visual simulations. These are from three different key  
9 observation points along TEP's preferred route Route B-4.  
10 And they're represented in three different pole finishes.

11 So you have in the photo on the left side, a  
12 galvanized steel finish. In the middle a painted pole  
13 finish in the color of Mohave sage. And on the right  
14 side a weathered pole finish, which the weathered finish  
15 is TEP's standard and our preferred pole color.

16 Below that, you have a matrix of the various  
17 routes and the factors, the evaluation criteria that TEP  
18 used to evaluate and compare one route to another that  
19 helped us to decide which routes were brought forward in  
20 this CEC application as well as which route ultimately  
21 was selected as our preferred route.

22 You'll see Nos. 1 through 4 and 1 through 6 on  
23 the top routes there and the bottom routes. Those are  
24 numbers that are a relative ranking of one route to  
25 another with respect to that evaluation criteria.

1 Q. And looking at the evaluation criteria, one of  
2 the columns further to the right says, "Plan Ordinance  
3 Compliance."

4 Does the ranking pursuant to that criterion  
5 assume that the City of Tucson's interpretation of the  
6 Gateway Corridor ordinance or zoning overlay and the  
7 existing university and neighborhood plans are -- is  
8 accurate?

9 A. (Mr. Bryner) Yes. It does.

10 Q. And does TEP dispute the applicability of the  
11 Gateway Corridor Zone and the Plans?

12 A. (Mr. Bryner) Yes. We do.

13 Q. All right. Thank you.

14 Is the information contained on this reserve  
15 side of this placemat found elsewhere in the evidentiary  
16 record?

17 A. (Mr. Bryner) Yes. It is.

18 So the visual simulations are found in TEP's  
19 Exhibit 1, specifically under Exhibit G-3 of the  
20 application. And the data found in the summary table is  
21 also found in TEP-1 under Exhibit B-2 in appendix D,  
22 which is our siting study.

23 Q. Thank you.

24 Please turn to Exhibit TEP-3 which is the  
25 testimony summary of Clark Bryner.

1 A. (Mr. Bryner) Okay.

2 Q. Was TEP-3 prepared by you or under your  
3 direction and control?

4 A. (Mr. Bryner) Yes.

5 Q. Are the contents of TEP-3 true and correct to  
6 the best of your knowledge?

7 A. (Mr. Bryner) Yes.

8 Q. Do you have any changes you would like to make  
9 to TEP-3?

10 A. (Mr. Bryner) No.

11 Q. All right. Thank you.

12 Moving on to Mr. Lindsey.

13 Mr. Lindsey, please state your name and business  
14 address for the record.

15 A. (Mr. Lindsey) My name is Chris Lindsey. And my  
16 business address is 88 East Broadway, Tucson, Arizona.

17 Q. By whom are you employed and in what capacity?

18 A. (Mr. Lindsey) Tucson Electric Power. And I'm  
19 the senior advisor of transmission business strategy and  
20 development.

21 Q. What is your role in this matter?

22 A. (Mr. Lindsey) I will describe the project's  
23 history, purpose, and benefits as well as describe  
24 technical and engineering components of the project.

25 Q. Thank you.

1 And will you please give the Committee a brief  
2 description of your education and experience.

3 A. (Mr. Lindsey) You got it.

4 I joined TEP back in 2006 and have 17 years of  
5 experience in the electric utility industry.

6 A majority of my time has been focused on the  
7 planning of both transmission and distribution systems as  
8 it relates to growth and technology integration.

9 I hold a bachelor's of science degree in  
10 electrical engineering from the University of Arizona and  
11 have been a registered electrical professional -- excuse  
12 me, a registered professional engineer in the State of  
13 Arizona since 2010.

14 In my current position, I'm focused on the  
15 strategic development of transmission and generation  
16 systems to support the company's clean energy transition.  
17 Probably more importantly for today's hearing in previous  
18 roles with the company and during the development of this  
19 project I provided direction and oversight for short and  
20 long-term planning functions related to both transmission  
21 and distribution systems for TEP.

22 Q. Thank you.

23 Please turn to TEP-4, which is the testimony  
24 summary of Chris Lindsey.

25 A. (Mr. Lindsey) Okay.

1 Q. Was TEP-4 prepared by you or under your  
2 direction and control?

3 A. (Mr. Lindsey) Yes. It was.

4 Q. Are the contents true and correct to the best of  
5 your knowledge?

6 A. (Mr. Lindsey) Yes.

7 Q. Do you have any changes you would like to make  
8 to TEP-4?

9 A. (Mr. Lindsey) No. I do not.

10 Q. Thank you.

11 Moving on to you, Mr. Bakken.

12 Please state your name and business address for  
13 the record.

14 A. (Mr. Bakken) Erik Bakken, 88 East Broadway,  
15 Tucson, Arizona.

16 Q. By whom are you employed and in what capacity?

17 A. (Mr. Bakken) Tucson Electric Power as the  
18 Senior Vice President of Energy Resources and the Chief  
19 Sustainability Officer.

20 Q. What is your role in this matter?

21 A. (Mr. Bakken) I oversee our generation fleet as  
22 well as system control, which includes transmission  
23 planning along with development and acquisition.

24 Q. Thank you.

25 Will you please briefly describe your education

1 and experience.

2 A. (Mr. Bakken) Yes. I have an undergraduate  
3 degree from the University of Arizona and a law degree  
4 from Arizona State University. I've been with TEP just  
5 over 25 years now with various areas of oversight and  
6 increasing responsibility over those 25 years.

7 As I mentioned, I currently oversee our  
8 generation fleet, which includes the clean energy  
9 transition that we're going through as well as system  
10 operations.

11 And then the chief sustainability officer and  
12 everything that comes along with the sustainability  
13 efforts that TEP has.

14 Q. Thank you.

15 CHMN STAFFORD: One second. You said you  
16 got your B.A. from which university?

17 MR. BAKKEN: From the Arizona State  
18 University.

19 CHMN STAFFORD: Okay. I thought you said  
20 it the other way around for a second.

21 So you got your J.D. from the University of  
22 Arizona, then?

23 MR. BAKKEN: That's correct.

24 CHMN STAFFORD: Okay. Okay.

25 MR. BAKKEN: Yep.



1 CHMN STAFFORD: I thought it heard it  
2 reversed when you said it.

3 MR. BAKKEN: Did I flip it?

4 MS. GRABEL: The flip is my educational  
5 background.

6 MR. BAKKEN: Subliminally.

7 CHMN STAFFORD: Please proceed. Thanks.

8 MS. GRABEL: Thank you.

9 BY MS. GRABEL:

10 Q. Mr. Bakken, please turn to Exhibit TEP-5, which  
11 is the testimony summary of Erik Bakken.

12 A. (Mr. Bakken) I've got it.

13 Q. Was TEP-5 prepared by you or under your  
14 direction and control?

15 A. (Mr. Bakken) Yes.

16 Q. Are the contents true and correct to the best of  
17 your knowledge?

18 A. (Mr. Bakken) they are.

19 Q. Do you have any changes you would like to make  
20 to Exhibit TEP-5?

21 A. (Mr. Bakken) I do not.

22 Q. So you're all on this panel to discuss the  
23 purpose and need for this project, give a summary of its  
24 history, and provide a project overview.

25 To that end, Mr. Bryner, will you please turn to

1 TEP-8, which is PowerPoint presentation prepared for this  
2 hearing.

3 A. (Mr. Bryner) I thought we were done. Okay.  
4 I'm there.

5 Q. Mr. Bryner, have you seen this presentation  
6 before?

7 A. (Mr. Bryner) Yes. I have.

8 Q. Was it prepared by your or under your direction  
9 and control?

10 A. (Mr. Bryner) Yes.

11 Q. Is its contents true and correct to the best of  
12 your knowledge?

13 A. (Mr. Bryner) Yes. They are.

14 Q. Do you have any revisions to Exhibit TEP-8?

15 A. (Mr. Bryner) No.

16 MS. GRABEL: At this time I'd like to move  
17 the admission of Exhibits TEP-1 through 5 and 8.

18 CHMN STAFFORD: I typically just admit them  
19 all at the end.

20 MS. GRABEL: Okay. We can do that.

21 CHMN STAFFORD: I'm keeping track of which  
22 ones you've covered. And I do believe the parties have  
23 already stipulated to all of TEP Exhibits 9 through 11;  
24 correct?

25 MS. GRABEL: That's correct. We did that.

1 MR. LUSK: That's correct.

2 BY MS. GRABEL:

3 Q. All right. Mr. Bryner, please begin the  
4 overview of the purpose and need for the project.

5 A. (Mr. Bryner) Thank you.

6 So the electric grid serving the Midtown area of  
7 Tucson was built in the '50s and '60s. This was during a  
8 boom in Tucson's population from under 50,000 in 1950 to  
9 just over 200,000 in 1960.

10 This was a time prior to the widespread  
11 installation of air conditioning, and swamp coolers were  
12 more the norm. Many appliances including water heaters  
13 and stoves were gas, and homes had few electronic devices  
14 and typically just a single television set.

15 And in some homes Leave It to Beaver was being  
16 watched on that television set, and you can see the actor  
17 Jerry Mathers who played Beaver, he was a nine-year-old  
18 boy at this time.

19 Since that time the population of the City has  
20 continued to grow, and now numbers over 500,000 with a  
21 population in the metro area of over 1.2 million. And  
22 with that growth has come additional business, industry,  
23 restaurants, and hotels.

24 The University of Arizona has grown, and with  
25 that more student housing and high-rise dorms. The

1 university hospital was built in 1971 and has grown to be  
2 a substantial community asset now known as Banner -  
3 University Medical Center, and we've got them represented  
4 here. It's one of only two Level I trauma centers in  
5 southern Arizona as we heard.

6 Residential growth within the City of Tucson is  
7 illustrated on the graph shown on the right screen. But  
8 beyond that the City encourages infill development. And  
9 in some Midtown areas we've seen some very high intensity  
10 infill projects.

11 All of this growth has continued to be served by  
12 the electric system that was built in the 1950s and '60s.  
13 The assets are both extended to the limits of what they  
14 can serve, and they're also aging as is our beloved actor  
15 Jerry Mathers from Leave It to Beaver. He's now 76. And  
16 I'll say looking at the picture there I think he's aged a  
17 little bit better than some of our equipment.

18 Now, I'm a transplant to the Tucson area, but  
19 Mr. Lindsey has spent his whole life here. Do you want  
20 to just elaborate on some of the things you've seen  
21 change?

22 A. (Mr. Lindsey) You've got it, Mr. Bryner.

23 So I think it's important to add that a lot of  
24 this development and modernization we're talking about  
25 here today in the Midtown area has occurred over the past

1 decade or two.

2           So Banner, which was called university medical  
3 center when I was born there in the early '80s, looked  
4 nothing like it does today as you see on the screen. And  
5 when I was a student at the U of A in the early 2000s,  
6 there were nowhere near the housing options you see with  
7 all the high-rises built in and around the university as  
8 well as in the downtown area with the easy access from  
9 the streetcar.

10       A.   (Mr. Bryner) Thank you. So to show this in  
11 another way, on the screen on the left, you'll see a  
12 depiction of a 1950s-era home. So, like I mentioned  
13 before, lifestyles were different back then than they are  
14 today.

15           Now, I didn't live then, so I'm just going off  
16 of what I've heard. But homes were much smaller, many  
17 appliances were gas. And those that were not were less  
18 efficient than what we have today, but there were far  
19 fewer of them.

20           Again, air conditioning wasn't widely adopted  
21 yet, and evaporative cooling was more the norm.

22           And lastly, all the vehicles were gas powered.

23           Today, we find a Midtown area that's fully  
24 developed where basically the only opportunity for  
25 development is upward. And in contrast to the behavior

1 of the '50s and '60s electric appliance and technology  
2 use is everywhere, air conditioning is a necessity,  
3 sometimes having more than one unit per home.

4 Most have converted the old gas stoves and water  
5 heaters to electric, and newer electric technology is  
6 being adopted more widely, including electric vehicles,  
7 distributed generation such as rooftop solar, and battery  
8 storage.

9 And a very important note, the community  
10 continues to rely on the same old electric system that  
11 was built in the 1950s. We all know that nothing lasts  
12 forever. The existing system has served its purpose and  
13 it has done so very well, but it no longer meets the  
14 needs of the City and is due for modernization.

15 CHMN STAFFORD: Quick question with that  
16 slide. What's the mini-split?

17 Is that like a smaller air condition or  
18 something?

19 MR. BRYNER: Yeah. They're typically --  
20 they work to cool off one room or one portion of your  
21 house. A lot of the times it's used to make it more  
22 energy efficient so that you don't have to cool the  
23 entire house down or the building or whatever. You can  
24 just cool that one, control the temperature up or down.

25 CHMN STAFFORD: Okay. Thank you.

1 MR. BRYNER: They're very nice.

2 CHMN STAFFORD: I think I need one of those  
3 in my house.

4 MEMBER LITTLE: They're awesome.

5 MR. BRYNER: So rather than simply replace  
6 the old electric system, which was designed to meet the  
7 needs of the 1950s, TEP proposes to upgrade the system to  
8 modern standards that will not only meet current  
9 electrical needs but the foreseeable needs too as  
10 consumer electrical usage continues to evolve in response  
11 to new technology and climate change.

12 So TEP will replace the old wooden poles  
13 with more robust steel poles that can withstand  
14 increasingly severe weather. These poles will support a  
15 looped 138kV transmission line that will strengthen the  
16 regional grid and provide reliability to customers both  
17 within the Midtown area and greater Tucson.

18 TEP will replace a number of aging 46kV  
19 substations with a single modern, fully redundant  
20 gas-insulated 138kV substation that has a footprint only  
21 slightly larger than any one of the substations that it  
22 will replace.

23 And TEP will not stop with the higher  
24 voltage transmission system. The Midtown Reliability  
25 Project includes upgrades to the lower voltage -- or

1 lower voltage distribution system as well.

2 The antiquated 4kV distribution system will  
3 be replaced with a modern 14kV distribution system that  
4 will be controlled through an advanced distribution  
5 management system and will provide reliability benefits  
6 to all of our residential, business, and commercial  
7 customers in the area while also meeting the electrical  
8 demand.

9 The Midtown Reliability Project allows us  
10 to do this once to do it right to modernize the grid,  
11 which will help Tucson thrive now and long into the  
12 future.

13 So the need for -- the need for a 138kV  
14 transmission line connecting TEP's DeMoss Petrie  
15 Substation, which is -- which is located near I-10 and  
16 Grant Road and the Irvington Substation, which is located  
17 near I-10 and Alvernon Road, was first identified in 2007  
18 in order to avoid overloads on the transmission system in  
19 a contingency.

20 As you can see on the map, there was a  
21 fairly large gap in TEP's transmission system with the U  
22 of A right at the center of it. The new line would  
23 create a loop around downtown Tucson or around the  
24 downtown and Midtown Tucson as well as some of our  
25 growing south side communities.



1           So in 2021, TEP constructed what is the  
2 first phase of the transmission line by constructing the  
3 new Kino Substation connected with -- to Irvington  
4 through the Kino to Irvington transmission line. This  
5 first phase was urgently needed to bring more capacity to  
6 serve some major new development that was occurring near  
7 Kino Parkway and I-10, which is really, really close to  
8 the Kino Substation.

9           But that didn't fully meet the purpose of  
10 the project. So a connection between the DeMoss Petrie  
11 Substation and the Kino Substation, shown on the map, is  
12 still needed, and that's what we're here to talk about.

13           So I want to show you in a little more  
14 detail the conditions driving the need for the Midtown  
15 Reliability Project.

16           So to start, I want to orient you to the  
17 image on the screen. So this is a recent aerial image  
18 from Google Earth that generally depicts the Midtown  
19 portion of Tucson that will benefit greatest from this  
20 project. The extent of the view is bounded by 36th  
21 Street on the south, basically I-10 on the west, Grant  
22 Road on the north, and Country Club Road on the east.

23           A couple other things, downtown Tucson is  
24 basically in this area close to the I-10 symbol, and the  
25 U of A -- you can see the big A kind of in the middle of

1 the screen.

2                   So I'm going to step back a few years and  
3 show you the grid in the Midtown area at the time the  
4 need for the 138kV line between DeMoss Petrie and  
5 Irvington was identified. If you'll recall, that was in  
6 2007. And that was still the state of the grid in 2021  
7 prior to building the first phase of the project between  
8 Kino and Irvington.

9                   Now, on the screen the blue lines and pins  
10 represent power lines and substations that operated 46kV.  
11 So this is -- we've discussed this was a standard that  
12 TEP introduced in the mid-20th century. The purple lines  
13 and pins represent higher capacity 138kV lines and  
14 substations. These were built for the 21st century.

15                   Again, on the map, I just want to point out  
16 that you can see the 138kV system kind of skirts all the  
17 way around the Midtown area of Tucson, leaving all of  
18 that still in that older, antiquated 46kV system. It  
19 hasn't been upgraded to the 138 system.

20                   Now, here's a look at actual customer usage  
21 prior to the project. In the red and orange areas,  
22 energy use was nearly overloading the available capacity  
23 of the 46kV system.

24                   Areas in yellow and green had more  
25 available capacity, but their reliability could still be

1 compromised by outages in some of the adjacent overloaded  
2 areas.

3 And beyond that, TEP has continued to see  
4 peak energy demand increase throughout the community.

5 Now let me show you the state of the grid  
6 in Midtown today. So I'll be kind of referencing the  
7 screen on the right now.

8 So we recently completed the first phase of  
9 the proposed transmission line loop from Irvington to  
10 Kino. If you'll notice how -- our slides are looking a  
11 little bit funky, but we -- we recently completed the --  
12 so the transmission line, this purple line right there,  
13 represents the line from Irvington to Kino, and this is  
14 the Kino Substation.

15 And you see how the area around that turned  
16 from red to green. So it used to have almost no  
17 available capacity, and now it's green, which represents  
18 that it has plenty of available capacity under peak  
19 conditions.

20 However, you'll also notice that those blue  
21 lines and pins, the 46kV system, is still there. Because  
22 with only one point of service that -- the Kino  
23 Substation is on a radial, so it only has one point of  
24 service. So that 46kV system serves as the backup in the  
25 event that something happens. And the same conditions

1 that existed before that are shown on the left screen are  
2 still there today.

3 So the Midtown Reliability Project will  
4 complete the transmission loop between DeMoss Petrie and  
5 Irvington. It will build the transmission link from  
6 DeMoss Petrie to the proposed Vine Substation. And let  
7 me point that out. So DeMoss Petrie over to Vine. So  
8 Vine is going to be located just north of the U of A  
9 campus, and then a transmission line from Vine to Kino.

10 This will provide two feeds to both the  
11 Kino and Vine substations through a reliable transmission  
12 loop. And very importantly, this will -- whoops, sorry.  
13 Our animation doesn't seem to be working on the screen.  
14 But imagine, if you will, the blue lines and pins, those  
15 will all go away because we'll be able to retire that  
16 46kV system, and it will just be the 138kV system. No  
17 need to use your imagination anymore. It's gone.

18 So this fully resolves any current concerns  
19 to meet customer demands under peak conditions. And it  
20 provides plenty of capacity for future growth. In the  
21 event of a transmission line outage, because of the way  
22 the system is designed, customers would experience no  
23 interruption in service.

24 BY MS. GRABEL:

25 Q. Mr. Bryner, certain opponents of this project

1 has proposed what they call the halfway solution in which  
2 only the portion of the line from DMP to Vine is  
3 constructed.

4 Is that a viable option for TEP?

5 A. (Mr. Bryner) So, no, it's not, not a viable  
6 option. And I'll show you that on the screen. So up on  
7 the screen right now this is a concept that's been  
8 floated most vocally by Underground Arizona who's  
9 represented here. In this scenario a transmission line  
10 would be built from DeMoss Petrie to Vine, but no  
11 connection would be made between Vine and Kino.

12 So both the Vine Substation and the Kino  
13 Substation would be left as radial lines, so they would  
14 just have that single source.

15 I'm going to turn to Mr. Lindsey so that he can  
16 provide a little bit of a more technical response as to  
17 why this is not an acceptable solution for TEP.

18 A. (Mr. Lindsey) Okay. So as Clark mentioned, and  
19 I think it's really important to note as we walk through  
20 this, that this proposal we see here would place both  
21 Vine and Kino Substations on radial 138kV lines.

22 So walking through an outage of the Irvington to  
23 Kino circuit -- the automation went quick, but you can  
24 see the line from Irvington to Kino is out in this  
25 scenario, and we would expect widespread outages until

1 repairs could be made. So depending on the time of year  
2 and the nature of the outage, this could be prolonged.

3 The example on the screen's hypothetical but it  
4 is informed by a 46kV outage we had a few weeks ago.  
5 Right now we still have the old 46kV system, as  
6 Mr. Bryner mentioned, in service as a backup, but if  
7 you'll reference the image on the left, those 46kV  
8 facilities are at capacity.

9 So as a result and in the outage that occurred a  
10 few weeks ago, we were unable to restore power to the  
11 entire area fed by those 46kV substations, and it  
12 resulted in a prolonged outage. So this is a real world  
13 scenario we're dealing with right now.

14 So without the completed loop on the 138kV side,  
15 and once these 46kV facilities you see here on the left  
16 are retired, this outage would likely result in rolling  
17 outages throughout this darkened area you see on your  
18 screen to your right with almost no way to serve the  
19 Bridges area -- you've heard us reference that a few  
20 times. That's a major commercial center shown in the  
21 dark black on this image -- until we made repairs and  
22 restored the 138kV line into service.

23 CHMN STAFFORD: And just for record, you're  
24 talking about Slide 18 of the presentation; correct?

25 MR. LINDSEY: Yes, sir.

1 CHMN STAFFORD: Okay.

2 MR. LINDSEY: So more importantly, if that  
3 didn't sound bad enough, we want to walk through an  
4 example of an outage of the DMP to -- DeMoss Petrie to  
5 Vine Station.

6 So in the event of an outage on the  
7 transmission line between DMP and Vine, similar to what  
8 we were discussing for Kino, the dark area shown on the  
9 map would experience widespread rolling outages until the  
10 138kV could be restored.

11 And here's the big difference for us from  
12 the last example. In the very dark area around the U of  
13 A and Banner, this area would be out of power entirely  
14 until repairs were made. So this creates a significant  
15 safety concern for the community as Banner is only one of  
16 two Level I trauma centers in southern Arizona.

17 So expanding on this issue a little bit,  
18 the only connection to the university and Banner will be  
19 made via this new Vine Substation. We will not have the  
20 ability to provide an alternate feed even if the 46kV  
21 system was left in service. This creates an unacceptable  
22 operational situation for us and our most critical  
23 customers.

24 BY MS. GRABEL:

25 Q. So, Mr. Lindsey, if you could explain a little

1 bit better why can't you do the halfway solution and keep  
2 up to 46kV infrastructure for backup purposes?

3 A. (Mr. Lindsey) So, as I mentioned, the way the  
4 Vine Substation's configured the only connections to the  
5 University of Arizona and Banner UMC hospital will be  
6 made via that new Vine sub.

7 So, as we're discussing this outage here, an  
8 outage of this DMP to Vine 138kV line would  
9 subsequently -- we'd have an outage at the Vine Station.  
10 It's our only source without the loop being completed.  
11 We do not have plans or the capability to connect the old  
12 46kV system at Vine.

13 CHMN STAFFORD: And you're looking at  
14 slide 19 of the exhibit --

15 MS. GRABEL: TEP-8.

16 CHMN STAFFORD: -- TEP-8; correct?

17 MR. LINDSEY: Yes, sir.

18 CHMN STAFFORD: All right.

19 MS. GRABEL: Thank you.

20 MEMBER GOLD: Mr. Chairman.

21 CHMN STAFFORD: Yes, Member Gold.

22 MEMBER GOLD: Not being familiar with your  
23 substations, is the Vine Substation existing today?

24 MR. LINDSEY: So, Member Gold, no, it is  
25 not. That's the proposed new 138kV to 13.8kV substation.



1 MEMBER GOLD: Okay. Then I have a  
2 question. I'm looking at Route 210, Aviation Parkway.

3 MR. LINDSEY: Okay.

4 MEMBER GOLD: Why is nothing considered  
5 going along that parkway to connect your two existent  
6 substations?

7 MR. BRYNER: If -- Member Gold, if I could  
8 jump in.

9 So right now, I mean, what we're showing on  
10 this screen doesn't show any of our proposed routes. We  
11 do have some proposed routes that do go along Route 210,  
12 Aviation Parkway. The lines on the map right now are  
13 just conceptual just to show that we need a connection  
14 there.

15 MEMBER GOLD: Okay. So the connection  
16 you're putting up is primarily to service the university  
17 and Banner, because that's where it's located; is that  
18 correct?

19 MR. BRYNER: So yes and no. It is to  
20 service the university and Banner. It's also to service  
21 all of the customers in this portion of Tucson.

22 As you saw from some of the earlier slides  
23 that I showed, we have no 138kV service throughout the  
24 entire area, and that entire area is at or over capacity  
25 and needs additional capacity to be served.

1 MEMBER GOLD: Understood. And the  
2 university and Banner use a tremendous amount of  
3 electricity; is that correct?

4 MR. BRYNER: I won't dispute that.

5 MEMBER GOLD: All right. Have you secured  
6 the area to build that substation?

7 MR. BRYNER: Yes, we have.

8 MEMBER GOLD: Okay.

9 BY MS. GRABEL:

10 Q. Mr. Bryner, before you move on, for the record,  
11 how many additional customers other than Banner and the U  
12 of A will be receiving reliability benefits as a result  
13 of this project?

14 A. (Mr. Bryner) I should -- it's just under  
15 40,000. Sorry. I can't remember the exact number, but  
16 it's just under 40,000 business, residential, commercial  
17 customers are within this area.

18 Can I correct that? I just remembered. Okay.  
19 It's just under 40,000 residential customers. And then  
20 we have just under 7,000 business customers. So it's  
21 around 45,000 total customers that will benefit from this  
22 project, the U of A and Banner being two of those  
23 customers.

24 Q. Thank you. Please continue.

25 A. (Mr. Lindsey) Okay. So there's just a few last

1 things to mention about this solution. So kind of  
2 regrouping here.

3 So a few comments about maintaining the 46kV  
4 infrastructure. It drastically reduces the efficiency of  
5 this overall project as you can see. We would need to  
6 rebuild many of these existing lines and subs you see on  
7 the left there in blue within the neighborhoods to  
8 increase the ability of our 46kV system to reliably back  
9 up Midtown Tucson during this proposed -- or this 138kV  
10 outage.

11 Even in this overbuilt situation that we're  
12 discussing here with both a new 138kV line to Vine and a  
13 rebuilt 46kV system, we'd -- our customers would still  
14 experience outages while system operators and field crews  
15 made adjustments to the system during these types of  
16 emergencies.

17 This is all avoidable with completing the  
18 Midtown Reliability Project and the transmission loop  
19 between DeMoss Petrie and the existing Kino Substation.

20 MEMBER GOLD: Mr. Chairman.

21 CHMN STAFFORD: Yes, Member Gold.

22 MEMBER GOLD: I'm not familiar with which  
23 poles have which voltage on them, so just something to  
24 clarify it for me.

25 You just have an outage right now at Ina

1 and I believe it's Shannon where a microburst knocked  
2 down some of your poles, and they've been down for a  
3 couple of days now. What size poles are they?

4 What size lines? Are they 48? Are they  
5 distribution lines? What are they?

6 MR. LINDSEY: So, Member Gold, I believe  
7 that was a 46kV line in that area. We can confirm, but  
8 from the pictures that I saw I believe it's 46kV.

9 And just a quick -- I mean, all of us  
10 utilities like to come up with new voltages; right? So a  
11 quick rundown of the TEP standard voltages within town,  
12 we have a 138kV standard transmission voltage that we're  
13 talking about expanding here today. We also have an  
14 older as mentioned 46kV system that dates way back kind  
15 of to the beginning of our system. And we really termed  
16 that or call that a sub transmission system, really don't  
17 consider that a true transmission type system.

18 From a distribution perspective, we have  
19 both 13.8kV. Sometimes we refer to that as 14 just for  
20 simplicity's sakes. And also a 4kV system, which is  
21 really 4.16kV. And you'll hear us talk a lot about that  
22 here today with the opportunity this project brings to  
23 convert the old 4kV system to 14.

24 MEMBER GOLD: So the ones that are down are  
25 the 38kV. And what I've noticed when I saw them if I get

1 this correctly is they're wood poles, and they splinter  
2 when a microburst hit them.

3 MR. LINDSEY: That's typically what we see  
4 during a storm outage is the older wooden poles do fail  
5 in the micro bursts. To talk about what we're looking to  
6 do in this area related to this project, it's another  
7 opportunity to upgrade to the steel pole standard. And  
8 we don't typically see storms and microburst damage these  
9 types of facilities we're proposing.

10 MEMBER GOLD: That's what I needed to know.  
11 Thank you.

12 CHMN STAFFORD: Thank you, Member Gold.

13 BY MS. GRABEL:

14 Q. Mr. Lindsey, before you continue, has TEP  
15 restored power to all of those customers on Ina and  
16 Shannon?

17 A. (Mr. Lindsey) It sounds like we have not, but I  
18 am -- is that confirmed? So, yes, we have not restored  
19 to all customers in that area.

20 Q. Were this project in place would restoration be  
21 smoother and more quick?

22 A. (Mr. Lindsey) So we're talking about an outage  
23 in a different part of town. I'll step out and say if we  
24 had facilities like we're proposing in this project in  
25 that area of town, then, yes, restoration would be

1 smoother.

2 But it's very hard to just generally say that.  
3 There's a lot of particulars on our distribution system.  
4 But in general where we're looking to move towards 138kV  
5 loop transmission system, an upgraded 13.8kV distribution  
6 system, it really brings a lot of capacity to the city  
7 and allows for a lot more flexibility from an operational  
8 perspective.

9 Q. Thank you. Please continue.

10 A. (Mr. Bryner) All right. So just a couple more  
11 slides on this subject.

12 I just wanted to talk a little bit about some of  
13 the aging assets that we've mentioned.

14 So on the Slide 20, the screen on the left, this  
15 is a look at the state of the existing assets in the 46kV  
16 substations today. So the pins or the teardrops, the  
17 dark red ones, represent equipment within those stations  
18 that have an average age closer to 60 years. So that's,  
19 again, looking at transformers, breakers, major equipment  
20 and those overall averages.

21 The ones that are -- there are no green ones up  
22 through. But the ones that are yellow, those are -- have  
23 an average age that's a little bit younger.

24 But the major piece of equipment in all of these  
25 substations are the transformers. In each of these

1 cases, those transformer are the oldest piece of  
2 equipment in those substations, and they're all in that  
3 50 to there's a couple of them that are approaching  
4 70 years old.

5 MEMBER RICHINS: Chairman.

6 CHMN STAFFORD: Yes, Mr. Richins.

7 MEMBER RICHINS: Will all of these 46kV  
8 substations be retired?

9 MR. BRYNER: That's correct.

10 MEMBER RICHINS: And what's the  
11 environmental disposition of the land that those -- that  
12 equipment has been sitting on for quite a while?

13 MR. BRYNER: Yeah, so, Member Richins, good  
14 question. And we've been asked that several times  
15 throughout our public outreach process.

16 And so, you know, it's eight substation  
17 sites. They're not huge sites. They're about, you know,  
18 a half an acre to, you know, maybe a little bit larger in  
19 some cases. So there's been equipment there for a number  
20 of years. You know, our transformers are filled with  
21 mineral oil. Our breakers -- our older breakers are also  
22 filled with mineral oil. And we would clean up those  
23 sites. If had there been any leaks over the years or  
24 anything, we would remove all that equipment, properly  
25 dispose of that, clean up, remediate anything that needed

1 to be remediated, and then we would likely sell those  
2 sites.

3 Does that answer your question? I'm not  
4 sure if that --

5 MEMBER RICHINS: No. It does. It's just  
6 thinking about those sites located in the existing  
7 neighborhoods there might be opportunities there.

8 MEMBER KRYDER: Excuse me, Dave. You're  
9 moving away from your mic.

10 MEMBER RICHINS: Oh, sorry.

11 There just seems there might be some  
12 partnership opportunities with the neighborhoods that  
13 you're going through. Because we just did this in the  
14 City of Mesa. We upgraded our system from 4 to whatever.

15 But we partnered on those old sites and  
16 turned them into microparks or other, like, maybe there's  
17 a parking need somewhere, just things like that, that  
18 could help alleviate the impacts of those site -- the  
19 change of those sites.

20 MR. BRYNER: Sure. And some of those  
21 suggestions have come up in some of our meetings. I  
22 don't think that we're opposed. I think we're open to  
23 discussing and figuring out things that could be done  
24 with those sites that would be best for the community.

25 MEMBER RICHINS: But I did hear on the



1 record the commitment for total environmental cleanup.

2 MR. BRYNER: Correct.

3 MEMBER RICHINS: Thank you.

4 MEMBER LITTLE: Mr. Chairman.

5 CHMN STAFFORD: Yes, Member Little.

6 MEMBER LITTLE: Mr. Bryner, do you have  
7 your or any of your members there on your team have an  
8 average loading on those 46kV substations? Are they  
9 reaching their maximum load, loading capacity?

10 MR. BRYNER: We do have that information.  
11 It's not in the top of my head, but it might be in  
12 Mr. Lindsey's.

13 MR. LINDSEY: Yeah, from an average  
14 perspective, we'll take that at break and get you an  
15 exact number.

16 If we could go back a few slides, though.  
17 Is that possible?

18 MR. BRYNER: Yeah.

19 MR. LINDSEY: So the slide on the left  
20 screen here shows just a pictorial look at the capacity  
21 on the 46kV system and those substations from a color  
22 perspective. So you can see in the southern part of the  
23 project closer to Kino Station we had a very limited  
24 amount of capacity in red.

25 And then as we move up further into

1 Midtown, there's a little more flexibility on the 46kV  
2 system. Again, this is very general. So what we'll do  
3 at break is get you an exact of the stations.

4 But this is just a pictorial look of the  
5 limited capacity on the 46.

6 CHMN STAFFORD: And for the record,  
7 Mr. Lindsey, you're referring to Slide 14 of TEP-8;  
8 correct?

9 MR. LINDSEY: Yes, sir.

10 MEMBER LITTLE: I don't need the average  
11 loading. The colors, then, in the areas reflect the  
12 loading on the substations?

13 MR. LINDSEY: Yes, that's correct.

14 MEMBER LITTLE: Okay. I had another  
15 question. I can't remember what it was. So --

16 MR. BRYNER: If I could just add, Member  
17 Little, to that. You see the green in the upper left, so  
18 those are coming out of the one -- two 138kV stations.  
19 One is our DeMoss Petrie and the other is our Tucson  
20 Substation.

21 MEMBER LITTLE: Right. Right.

22 CHMN STAFFORD: So those are not on the  
23 46kV system. That's why they look great.

24 MEMBER LITTLE: I guess my other -- the  
25 other thing that I was going to say, and it's more of a

1 statement than a question, which is that I realize that  
2 in today's world often -- you know, people talk about  
3 putting solar on houses. And they're -- often the older  
4 systems have problems with back feeding the solar back  
5 into the grid on the older distribution systems.

6 MR. LINDSEY: So, Member Little, I think  
7 that's a great observation. And one of -- and we may  
8 have just breezed through it so far today. But one of  
9 the big advantages of this project is it does support  
10 additional technology.

11 So going back through our story here, the  
12 system was built when, you know, solar really wasn't a  
13 thought. Energy storage wasn't a consideration in any  
14 fashion from a residential perspective. Electric  
15 vehicles weren't either.

16 And so we do see some major limitations I  
17 would say specifically in this area on our 4kV  
18 distribution, so I know it's a little bit outside of a  
19 context of a line siting conversation, but one of the  
20 things we're trying to get across here is just how many  
21 layers of the system we're making improvements with when  
22 we're talking about this project.

23 So building the 138kV loop, building Vine  
24 Substation allows us an opportunity to upgrade that 4kV  
25 system to 13.8. And many of the we call them hosting

1 capacity studies that we've run across our system that  
2 look specifically at solar integration, those 13.8kV  
3 facilities fare much better than our 4kV.

4 And actually, there's even more technical  
5 limitations on what we do from a sizing perspective with  
6 the 4kV system. And so it's really just an antiquated  
7 distribution system that's served well. I mean, we like  
8 to put it down here today, but it's done a good job. But  
9 it's time to replace it with something better.

10 MEMBER LITTLE: Thank you.

11 CHMN STAFFORD: With that we've been going  
12 for about 90 minutes. I think our court reporter needs a  
13 break. I see a lot of members of the public in  
14 attendance. I just wanted to admonish them that the ex  
15 parte rule is in effect, and they are not to discuss  
16 merits of this case with the members.

17 With that let's stand in recess for  
18 approximately 15 minutes.

19 (Recess from 2:34 p.m. to 2:53 p.m.)

20 CHMN STAFFORD: Let's go back on the  
21 record.

22 Ms. Grabel, please continue.

23 MS. GRABEL: Yes, thank you.

24 BY MS. GRABEL:

25 Q. Mr. Lindsey, before we reengage with the

1 presentation, were you able to clarify the results of the  
2 recent outage that you discussed with Mr. Gold while we  
3 were on a break?

4 A. (Mr. Lindsey) Yes, I was.

5 Q. Will you please correct the record on the  
6 various conversations that you had?

7 A. (Mr. Lindsey) So a couple details about that  
8 outage. We are still making repairs to the pole line,  
9 but all customers are back in service. So I think before  
10 I stated that customers were still out of service. That  
11 was incorrect. All customers are back in service.

12 We still are making repairs. And a little more  
13 detail, it was a double circuit 13.8kV line, so two  
14 distribution circuits, one on top of the other, not a  
15 46kV line. But I think the example still holds true, the  
16 old wood poles sustained damage in the storm.

17 MEMBER GOLD: Thank you very much. So the  
18 lines -- the customers have been restored service, your  
19 guys are still working on it. Are the streets still  
20 closed?

21 MR. LINDSEY: I don't believe so, no.

22 MEMBER GOLD: Thank you.

23 CHMN STAFFORD: I believe Member Somers has  
24 a question. Member Somers.

25 MEMBER SOMERS: Yes, Mr. Chair. How do you

1 hear me?

2 CHMN STAFFORD: We can hear you. Please  
3 proceed.

4 MEMBER SOMERS: Very good. I wanted to  
5 follow up a little bit on the question asked by Member  
6 Richins, which had to do with the environmental footprint  
7 of the existing system.

8 So eight stations that potentially are  
9 going to be replaced, could the witness tell me how old  
10 are those stations? When were those built and how old is  
11 the equipment?

12 MR. BRYNER: Yes, Member Somers. This is  
13 Clark Bryner. I can respond to that question.

14 So these substations, we've shown some of  
15 them on the screen with some relative -- well, we showed  
16 average ages of the equipment. But those stations, the  
17 oldest one was commissioned in the late '50s. And then  
18 some of them were commissioned in the '60s. I think the  
19 newest station was commissioned in the '70s, but I would  
20 have to double-check on that. But they're all 50-plus  
21 years old.

22 MEMBER SOMERS: And during the testimony in  
23 response to one of the questions about cleaning up the  
24 environmental footprint of the areas, they mentioned  
25 that -- the witness mentioned that there was oil

1 involved; correct?

2 MR. BRYNER: Correct. So the transformers  
3 and breakers in those stations are oil filled, and it's  
4 with mineral oil. And the mineral oil is -- prior to  
5 some of the more current, you know, uses some of that  
6 mineral oil did contain PCBs.

7 MEMBER SOMERS: Yeah. And that is exactly  
8 where I wanted to head with that. Is there any of the  
9 legacy equipment still in that area that contains the  
10 Polychlorinated Biphenyls or has all that been removed  
11 and replaced?

12 MR. BRYNER: I would have to double-check  
13 to be certain. So my prior -- one of my prior positions  
14 was in asset management and maintenance, and I left that  
15 a couple of years ago. At that time we still had three  
16 pieces of equipment in our system throughout the entirety  
17 of our system that had PCBs. So I would have to  
18 double-check and see if it's any of this equipment.

19 MEMBER SOMERS: Okay. And are you aware if  
20 any of these eight sites when equipment was replaced and  
21 upgraded if there was a cleanup done to remove PCBs from  
22 the area --

23 MR. BRYNER: I'm not aware --

24 MEMBER SOMERS: -- from the dirt or  
25 anything that might have contaminated?

1 MR. BRYNER: Sorry. I'm not aware of that.  
2 I don't know if any of my colleagues might be.

3 MR. BAKKEN: Member, this is Erik Bakken.  
4 As it relates to PCBs, if we become aware of a spill of  
5 oil or a leak of oil onto the soil and that spill  
6 contains PCBs, it is cleaned up immediately and to all  
7 environmental standards.

8 MEMBER SOMERS: Excellent.

9 And then the new the stations that will  
10 replace these eight obviously will not have equipment  
11 containing PCBs since federal -- I believe it's a federal  
12 regulation passed in 1979 -- sound right? -- that new  
13 equipment does not contain this carcinogen?

14 MR. BAKKEN: That's correct. We do not  
15 have any new equipment that contains PCBs, nor would any  
16 equipment that we install as part of this project contain  
17 PCBs.

18 MEMBER SOMERS: Okay. And then just going  
19 back to what Member Richins asked was is that the company  
20 if this is approved in replacing those eight old  
21 stations -- those eight stations that an environmental  
22 assessment and cleanup would be done for any type of  
23 contamination to include the Polychlorinated Biphenyls?

24 MR. BAKKEN: Yes. We typically do what's  
25 called a phase 1 study to understand what, if any,



1 contamination has occurred. And then we proceed to clean  
2 up that contamination.

3 Now, we might look for partners as we look  
4 for different opportunities with that property whether  
5 it's a sale or potentially some type of park opportunity,  
6 pocket park typically we call them. Yeah, exactly.

7 So we may look to partner with certain  
8 entities for that cleanup, but certainly it would be  
9 cleaned up before there was any public use of that  
10 property.

11 MEMBER SOMERS: Okay. And maintaining the  
12 environment is part of our charge on the board, so that's  
13 why I wanted to ask these questions on how these were  
14 going to be cleaned up and removal of potential legacy  
15 equipment that may or may not contain PCBs. So thank  
16 you, Mr. Chair.

17 CHMN STAFFORD: Thank you, Member Somers.  
18 Ms. Grabel.

19 MS. GRABEL: Thank you.

20 BY MS. GRABEL:

21 Q. I believe, Mr. Bryner, it's your turn to  
22 continue with the presentation?

23 A. (Mr. Bryner) Yeah. Thank you. So I believe we  
24 ended up talking about the state of the existing  
25 equipment. And I just wanted to make the comparison of

1 what is there today to what we will have in the future.

2 So as opposed to having those eight aging 46kV  
3 substations along with all that equipment in need of  
4 replacement, all of that will be not replaced like in  
5 kind, rather retired. And we'll end up having the  
6 picture that's on the right-hand screen, Slide 21, with  
7 all 138kV stations, all new equipment, all to today's  
8 standards.

9 And in addition to that, what you're not seeing  
10 on the screen right here is we'll replace -- or we'll  
11 also retire 19 miles of 46kV lines that feed those eight  
12 46kV substations.

13 All right. So just to summarize, so the Midtown  
14 Reliability Project is needed for modernization. TEP's  
15 existing 46kV system was designed to serve the energy  
16 needs of homes and businesses that were built in the  
17 mid -- the mid to late 20th century. Energy usage has  
18 increased since then with changes in technology and  
19 population. And the old system must be modernized to  
20 meet current demand.

21 The project adds three times the capacity of the  
22 current system, which will allow for additional  
23 population growth. It will also allow for additional  
24 energy usage that will support modern technology such as  
25 electric vehicles, rooftop solar, and battery storage.

1           It's also needed for reliability. The current  
2 infrastructure serving Central Tucson, as we've seen, is  
3 50 years old or older, and it's either in poor or very  
4 poor condition. And it's at capacity, which creates a  
5 risk of low voltage or outages, and it needs to be  
6 replaced.

7           It's also needed for better service continuity.  
8 The project will complete the 138kV around Central Tucson  
9 that was initiated by the Irvington to Kino line, which  
10 will allow customers in the area to benefit from another  
11 source of power should an outage occur. So that would  
12 make outages shorter and less frequent.

13           It's also needed for regulatory compliance.  
14 NERC reliability rules require that TEP build the  
15 transmission line or a transmission path from DeMoss  
16 Petrie to Irvington. This project meets that need, and  
17 it avoids the need to build yet another transmission line  
18 in the area to satisfy that requirement.

19           And lastly, it's needed for economic growth.  
20 The project will upgrade the service to the University of  
21 Arizona, which is Tucson's largest employer. It will  
22 also upgrade the service to Banner - University Medical  
23 Center, which we've heard about the importance of that  
24 facility to the community. These each provide services  
25 and benefits for our entire community and region.

1 It will also provide enhanced energy capacity in  
2 Central Tucson that will support anticipated increases in  
3 jobs, anticipated growth. That's all laid out in our  
4 local municipal plans.

5 And one other thing that I can't highlight  
6 enough, it will allow us to retire those eight aging 46kV  
7 sub transmission substations as well as the lines that  
8 feed them. That won't happen immediately. It will take  
9 us probably about 10 years once we get this line in  
10 service to make all the cutovers and reconfigure the  
11 circuits and everything, but in the end that will result  
12 in a substantial change for the better in the appearance  
13 of Tucson streets, and it will also result in a  
14 substantial savings in -- in millions of dollars that our  
15 customers won't have to pay to replace or upgrade these  
16 antiquated systems.

17 Overall the Midtown Reliability Project will  
18 provide a timely, costly -- or a cost-effective upgrade  
19 to older systems. It will help TEP maintain affordable  
20 rates. It will increase reliability and strengthen the  
21 grid for all of TEP's customers, even well beyond the  
22 Midtown area.

23 Q. Thank you, Mr. Bryner.

24 Let's go on to Slide 23. I think it is  
25 important for the Committee to understand the long

1 history of this project beginning with when it was first  
2 identified in TEP's Ten-Year Plan.

3 So, Mr. Lindsey, I believe you're going to kick  
4 off the timeline.

5 A. (Mr. Lindsey) Yeah, I'd be happy to.

6 So you see here on the screen to your left,  
7 timeline of the project. So I'll walk through some of  
8 these -- these key milestones related to this project.  
9 So the need for the transmission line was originally  
10 identified as far back as 2007 in our Ten-Year Plan.

11 Originally, it was identified as a -- technical  
12 difficulties.

13 Originally, back in '07 it was identified as a  
14 new 138kV line from Irvington substation to Tucson  
15 substation. So I point that out as we walk through this  
16 history we're going to point out some advantages of the  
17 move to DeMoss Petrie.

18 Then in 2016, you can see our asset management  
19 department identified the need to replace aging equipment  
20 at a number of these 46kV stations. We've hit that a few  
21 times, but that was another milestone I would consider in  
22 the development of this project.

23 This analysis was then included in planning  
24 studies to determine the best path to move forward.

25 2018 was a big year for us. We completed a

1 saturation study that identified the need for the Vine  
2 Substation. You'll hear more about that study a little  
3 later in the presentation.

4 Also in 2018, the Ten-Year Plan moved the line  
5 termination, as I mentioned, from Tucson substation to  
6 DeMoss Petrie. So this allowed for a couple key things  
7 in this area of town. So originally we had planned, like  
8 I mentioned, to connect this line to Tucson Substation.  
9 Moving it to DMP allowed us to repurpose that 138kV  
10 connection or bay at Tucson Station to install a new  
11 transformer. So that transformer allowed us to add  
12 distribution capacity to the downtown area where we don't  
13 have many options for expansion and better serve that  
14 area of town. So that project's complete.

15 It also allowed us to move this connection of  
16 this line to DeMoss Petrie, as I mentioned, to better  
17 align with future transmission projects in the area.

18 So also in 2018 we received the CEC for the --  
19 really the first leg of this overall project, the  
20 Irvington to Kino line.

21 Q. And to clarify, Mr. Lindsey, is the Midtown  
22 Reliability Project associated with the Irvington to Kino  
23 transmission line?

24 A. (Mr. Lindsey) Yes. That's correct. As we've  
25 been discussing in a fair amount of detail, upgrading to

1 138kV line improves reliability, also supports our  
2 efforts to convert to a higher voltage 13.8kV  
3 distribution system.

4 Q. Okay. Thank you.

5 Was the Irvington to Kino line approved in Case  
6 178?

7 A. (Mr. Lindsey) Yes. It was.

8 Q. Did that line attract any intervenors?

9 A. (Mr. Lindsey) No. It did not.

10 Interestingly enough, it had a fair amount of  
11 support from the public. They saw the need. They  
12 experienced some of the reliability issues we're talking  
13 about over time. And at the time also saw all of the  
14 development coming in. If you remember the Bridges  
15 commercial development we talked about a few slides ago,  
16 they saw that coming in and really understood the need  
17 for the project.

18 Q. Did the Irvington to Kino project involve the  
19 construction of aboveground 138kV transmission facilities  
20 in a Gateway Corridor?

21 A. (Mr. Lindsey) Yes. It did.

22 Q. Thank you. Please continue.

23 Are we going to Mr. Bakken? Mr. Bakken, I guess  
24 you're picking up.

25 In 2022 TEP ultimately withdrew the Kino to DMP

1 application; correct?

2 A. (Mr. Bakken) That is correct.

3 Q. Why did it do so?

4 A. (Mr. Bakken) At the time we received feedback  
5 from mayor and council and concerns from other  
6 stakeholders on the first application. And those  
7 concerns were really related to the Gateway Corridors  
8 primarily.

9 Q. And for the Committee's benefit, what is the  
10 Gateway Corridor?

11 A. (Mr. Bakken) Gateway Corridors are a zoning  
12 regulation that requires some infrastructure, not all,  
13 but some infrastructure to be placed underground.  
14 Gateway Corridor designations are given to some major  
15 arterials, the largest really and busiest streets through  
16 town typically.

17 We have built transmission infrastructure in  
18 Gateway Corridors historically. The City and TEP today  
19 disagree on the application of Gateway Corridors to  
20 transmission infrastructure, and I think we've heard a  
21 little bit about that.

22 Q. Okay. Thank you.

23 After withdrawing the Kino to DMP application  
24 the first time, TEP and the City of Tucson collaborated  
25 on finding solutions to the concerns raised by the City



1 with respect to constructing the project within a Gateway  
2 Corridor Zone; correct?

3 A. (Mr. Bakken) That is correct. We reached out  
4 to both the city manager as well as the city attorney,  
5 set up discussions on, really, what became a weekly basis  
6 to look at different options for this transmission  
7 project.

8 We looked at available funding sources as well  
9 as those conversations evolved, talked about the special  
10 exception process for the Gateway Corridor regulation.

11 Q. Thank you. Please explain the special exception  
12 process negotiated with the City and how that process  
13 would have addressed the City's concerns.

14 A. (Mr. Bakken) So ultimately we developed the  
15 special exception process that includes exceptions to  
16 undergrounding transmission lines for things like  
17 railroads, major highways like the aviation highway as  
18 well as perpendicular crossings are just some of the  
19 examples that we developed through that special exception  
20 process, which is now part of the UDC.

21 Q. So what was the outcome of that process?

22 A. (Mr. Bakken) We were able to develop a number  
23 of exceptions and then have those adopted, like I  
24 mentioned, within the UDC, which we would be able to  
25 avail ourselves of if we decided to move forward with an

1 underground project.

2 Q. All right. Thank you.

3 So even with the special exceptions in effect,  
4 and those are circumstances, as you've described, that  
5 would allow TEP to construct aboveground within the  
6 Gateway Corridor Zone, if TEP was building a line within  
7 the Gateway Corridor, would it still have to build  
8 portions of that line belowground?

9 A. (Mr. Bakken) Yes.

10 Q. Did TEP and the City attempt to find ways to  
11 fund that belowground construction?

12 A. (Mr. Bakken) We did.

13 In collaboration with the City through those  
14 conversations we looked at a number of different options,  
15 customer rates. We looked at franchise as well as  
16 private contributions or third-party contributions. We  
17 talked about shareholder funding. We also discussed the  
18 possibility for government funding. We looked at another  
19 mechanism within the City called the utility tax. And  
20 then we also looked at undergrounding districts.

21 Q. All right. Thank you. Let's take each of those  
22 in turn.

23 First, you mentioned the option of funding the  
24 underground portion of the project by customers through  
25 rates.

1 Why is that not a viable option?

2 A. (Mr. Bakken) Undergrounding EHV, or extra high  
3 voltage, which the 138 voltage is classified as, the cost  
4 of doing that is really prohibitive. The business  
5 model -- our business model really is based on overhead  
6 construction from inception, from the inception of the  
7 company. We've been what's called an overhead company.

8 The costs are passed through to customer rates,  
9 and those costs are passed through the rate kind of  
10 mechanism or rate process to customers.

11 And in order to keep costs down, anytime we look  
12 at an infrastructure investment, we're really looking for  
13 the most cost-effective solution. We really intend to  
14 and strive to maintain affordability for all customers.

15 Q. Thank you.

16 MEMBER KRYDER: Mr. Chairman.

17 CHMN STAFFORD: Yes, Member Kryder.

18 MEMBER KRYDER: May I pose a question?

19 CHMN STAFFORD: Certainly.

20 MEMBER KRYDER: Let's say going ahead that  
21 the decision was taken for a particular section, whatever  
22 it might be, to underground it, and I think I just heard  
23 you say that the cost under the current business model  
24 would be to pass that to the ratepayers; is that correct?

25 MR. BAKKEN: That would typically be how an

1 investment in infrastructure is funded or paid for.  
2 However, we have and I think we showed it in the opening  
3 statement a guideline from the Arizona Corporation  
4 Commission, which says that in most circumstances, in  
5 particular for reasons of aesthetics, that those costs  
6 would not be passed through to customers.

7 MEMBER KRYDER: Who would pay for them  
8 then, just out of TEP's pocket?

9 MR. BAKKEN: Well, that's -- that's what  
10 we're here to talk about today. If we were forced to go  
11 underground, I think we would, one, look for that special  
12 exception; and, two, potentially, as, you know, we've  
13 talked about, look for other funding mechanisms. And if  
14 none of those were available to us, potentially go to the  
15 ACC to look for or the Arizona Corporation Commission to  
16 look for an exception to their guideline and to their  
17 policy.

18 MEMBER KRYDER: I'm showing my ignorance  
19 because that's truly what it is. Are there cases where  
20 if it was passed to ratepayers, is it to the entire  
21 customer base of TEP or would it be to the selected ones  
22 who are kind of on the route, or how is that all  
23 determined? Fill me in.

24 MR. BAKKEN: The way that the ratemaking  
25 process works today is that that cost would be passed

1 through to the entire rate base. And one of the concerns  
2 obviously we have as we look at this project is that  
3 where we're seeing the most -- where we're seeing  
4 concerns coming from stakeholders are from discreet  
5 neighborhoods along the route.

6 And so to benefit those customers at the  
7 expense of our entire rate base is -- or our entire  
8 customer base is something that we're concerned about.

9 MEMBER KRYDER: As a TEP customer, I'm  
10 concerned about it too, but that's aside from the  
11 specific point here. But I appreciate the information  
12 that you have.

13 So did I hear in that that the customers  
14 who were having this directly impacting in their  
15 businesses and homes and so on could form their own  
16 taxing district or something like that to pay for it?  
17 Help me understand that too.

18 MR. BAKKEN: Sure. It's an underground  
19 special tax district created by or mechanism of statute.  
20 And neighborhoods or others, a particular area, is able  
21 to initiate that special taxing district, form that  
22 special taxing district, and then pay additional  
23 incremental taxes to fund undergrounding of either  
24 distribution or even transmission infrastructure within  
25 that special district. It can be residential, but

1 commercial is also able to utilize that -- that  
2 mechanism.

3 MEMBER KRYDER: So this would be directly  
4 on your real estate taxes, or is it put into your TEP  
5 bill and paid out this way?

6 How does that all work?

7 MR. BAKKEN: I believe we have never done  
8 it. We looked into it for customers and committed to  
9 assisting those customers if they decided they wanted to  
10 move forward with that. I believe it's just in addition  
11 to a property tax.

12 And then as those taxes are collected, it  
13 goes towards the funding of the underground costs.

14 To date, we have not had anybody approach  
15 us with an interest in funding one of those special tax  
16 districts.

17 MEMBER KRYDER: Thank you.

18 Is it, like, a bonded thing?

19 So we're looking at 50 years, or is it 10  
20 years, or how does that all fit together?

21 MR. BAKKEN: I believe there is a time  
22 limitation. Ten years was the time frame that you would  
23 pay that special tax or that incremental property tax for  
24 funding or reimbursing us for the cost of undergrounding.

25 MEMBER KRYDER: And how is the base of that

1 figured?

2 Is it so many feet from the buried cable,  
3 or is it by customer, or what's all that?

4 MR. BAKKEN: It's really at the discretion  
5 of those that wish to form or initiate the process for  
6 forming a special underground district. So it can be as  
7 few or as many customers along a particular route or that  
8 are impacted feel they're impacted by utility  
9 infrastructure to form that district.

10 MEMBER KRYDER: So --

11 MR. BAKKEN: It's an opt-in I guess I would  
12 say process.

13 MEMBER KRYDER: So it's an opt-in.

14 So that if I was, just to pick on your  
15 biggest customer here, Banner, I propose this, and I'm  
16 David homeowner across the street there on Elm Street, I  
17 could say, well, gee, Banner's got lots of bucks, let's  
18 have them form the district and increase their taxes and  
19 I don't have to opt-in, or is it everybody gets opt-in  
20 who is a user or how -- again, I'm truly confused by  
21 this.

22 MR. BAKKEN: It's not everybody opt-in.  
23 It's a -- if I understand correctly -- and, again, we  
24 have not gone through this. We looked at it and offered  
25 to assist anybody that wanted to avail themselves of it.

1 But it would be in our case a neighborhood that opts in.  
2 Certainly businesses could opt in as well.

3 And if you had a large commercial entity  
4 that was paying higher taxes, they would be funding more  
5 of that undergrounding cost than, say, the average  
6 residential customer.

7 MEMBER KRYDER: Okay. I appreciate that.  
8 And I appreciate also that you haven't really gone  
9 through the process and so on so you don't have all the  
10 answers. I'll stop talking and taking time, but I needed  
11 at least this to kind of get my brain around what was  
12 potentially going on. Thank you very much, Erik.

13 MR. BAKKEN: Yeah, sure.

14 BY MS. GRABEL:

15 Q. And, Mr. Bakken, just to correct the record for  
16 a minute, you stated that the purpose of this proceeding  
17 is to find a funding mechanism for undergrounding.

18 That's not what TEP is proposing to do today, is  
19 it?

20 A. (Mr. Bakken) No. We're looking to site -- find  
21 the appropriate path to site the transmission line.

22 Q. Okay. Thank you.

23 And so if the Committee chooses a route that  
24 would require undergrounding by the City of Tucson, and  
25 under its interpretation of the law, it would need to



1 make a finding that allows it to preempt that local  
2 ordinance; is that correct?

3 A. (Mr. Bakken) That is correct.

4 Q. And if the Committee chooses to adopt the route  
5 but declines to make that finding, we're either going to  
6 have to go to the Commission to see if we get an  
7 exception to their policy or risk not building a project  
8 and getting the reliability benefits of that project; is  
9 that correct?

10 A. (Mr. Bakken) That does seem to be the position  
11 we would be in. That is correct.

12 Q. Okay. Thank you. And I --

13 MEMBER HILL: Mr. Chair, I have a question.

14 CHMN STAFFORD: Yes, Member Hill.

15 MEMBER HILL: I just to clarify, so the  
16 Irvington to Kino Substation -- and I just want to  
17 understand a little bit of the special exception process  
18 that you went through.

19 Did you use the special exception process  
20 to go to actually site that with the City?

21 Because it's all aboveground; right?

22 MR. BRYNER: I guess any of us were  
23 fighting over it.

24 So the special exception process to the  
25 Gateway Corridor ordinance did not exist at the time the

1 Irvington to Kino project line was constructed in 2021 or  
2 at the time that it was approved in 2018. That didn't  
3 come about until 2023, I believe --

4 MEMBER HILL: Okay.

5 MR. BRYNER: -- in concert with these  
6 discussions and trying to find a solution.

7 MEMBER HILL: And then to clarify, the  
8 Irvington to Kino Substation siting and construction  
9 through the gateway areas, did the Gateway Corridors  
10 exist and prohibit aboveground infrastructure or -- at  
11 that time, or was it okay at that time?

12 I'm trying to understand how -- how  
13 everybody, the parties, got to a place where this was  
14 built aboveground in these corridors without a special  
15 exception process it sounds like, so that wasn't it.

16 How did we get there?

17 MR. BRYNER: You know, I'm actually going  
18 to pass this one off to Mr. Lindsey because he was more  
19 in the picture at that point.

20 MR. LINDSEY: So, Member Hill, it's a good  
21 question. I don't think we had -- I don't -- I guess I  
22 can't weigh in on interpretation of the Gateway Corridor  
23 as it relates to Irvington to Kino because it just didn't  
24 come up as a concern during the hearing or during any  
25 conversations with the City.

1 So we built the line overhead.

2 MEMBER HILL: Okay. Thank you.

3 MR. BRYNER: If I could add just one fact.

4 So the Gateway Corridor Zone was adopted by the City in  
5 1982, so it's been around for quite a while.

6 MEMBER HILL: And maybe this is a question  
7 for the City at a later point because you guys don't know  
8 the City ordinances inside and out.

9 But since 1982, has it always had a  
10 prohibition against overhead -- I don't know what exactly  
11 the -- the infrastructure, if you want to call it that or  
12 some --

13 MS. GRABEL: Member Hill, if I may  
14 interject. I think this may be a legal interpretation,  
15 and it's kind of the subject of the dispute between the  
16 City and TEP.

17 But the ordinance has had the same  
18 language, as I understand it, and I'll defer to the City  
19 on this, since it was adopted, and utility infrastructure  
20 has been built aboveground during that time.

21 But the correct interpretation of the  
22 ordinance is the subject of the superior court  
23 proceedings.

24 And I will let Mr. Lusk weigh in if I've  
25 said anything incorrect.

1 MR. LUSK: Thank you.

2 I think we can correct a little bit of what  
3 the confusion is with our witness Mr. Castro --

4 MEMBER HILL: Okay.

5 MR. LUSK: -- who is a planner with the  
6 City, and he can provide a little bit of additional  
7 information.

8 MEMBER HILL: The context for that?

9 MR. LUSK: Yes, absolutely.

10 MEMBER HILL: Okay. And then, Ms. Grabel,  
11 you said that the Committee here today has kind of two  
12 choices. One, we can approve a corridor and indicate  
13 that in our findings -- I'm not going to find all the  
14 words, but in our findings we understand or we found that  
15 the burden of doing this is not economical and the  
16 project should proceed overhead basically, or we can  
17 identify a corridor but not have that finding, and then  
18 the project may not proceed at all.

19 But I see another pathway here. I see the  
20 superior court decision may be making some decisions  
21 about this. Can you --

22 MS. GRABEL: So I think the problem with  
23 that, Member Hill, is that we don't yet have a superior  
24 court decision, and that decision will probably be  
25 appealed, and the appellate process taking a really long

1 time, and we have 2027 in-service date.

2 And so I don't think we can let that legal  
3 process play out to its ultimate outcome without risking  
4 the project time line, and time is of the essence.

5 Do you have something you want to add,  
6 Ms. Hill?

7 MS. HILL: Thank you, Member Hill,  
8 Mr. Chairman. Thank you, Ms. Grabel.

9 Also, too, I want to be clear that the --  
10 and, Mr. Lusk, I think would agree with this that the --

11 MEMBER KRYDER: Can you move closer.

12 MS. HILL: I'm sorry.

13 -- that I think Mr. Lusk would agree with  
14 this is that the superior court litigation really only  
15 applies to the issue of the Gateway Corridor and the UDC  
16 applicability.

17 To the extent that the University Area Plan  
18 is determined to require undergrounding, that in and of  
19 itself has nothing to do with the current pending  
20 superior court litigation. And because, as we said  
21 before, the location of the Vine Substation, the  
22 Committee would have to make that finding for those plans  
23 absent an agreement by parties here today.

24 MEMBER HILL: Okay.

25 MEMBER GOLD: Mr. Chairman.

1 CHMN STAFFORD: Yes, Member Gold.

2 MEMBER GOLD: This was from Ms. Grabel or  
3 Ms. Hill. I'm not sure which one.

4 You're using terminology that I guess some  
5 people are familiar with. I'm not.

6 MS. GRABEL: Okay.

7 MEMBER GOLD: And I've looked at hundreds  
8 of exhibits. I have a stack of papers that's got to be a  
9 foot and a half thick with everything in it.

10 I don't remember seeing a map that says  
11 these are the areas where you must go underground by law.

12 Is there such an exhibit that we can look  
13 at that says these are the areas that you have to go  
14 underground by law?

15 MS. GRABEL: We do have exhibits that are  
16 contained in the witness PowerPoint presentation that  
17 Mr. Bryner will go over in a later panel, I think the  
18 next panel, that show where the City of Tucson currently  
19 would require us to go underground and where the  
20 University Area Plan and the Sam Hughes Neighborhood Area  
21 Plan and others that could require undergrounding if they  
22 have the force of law, which we dispute, and how they  
23 intersect with the routes.

24 So, yes, you will hear testimony to that  
25 regard in the upcoming panel.

1 MEMBER GOLD: That will make our lives a  
2 little easier if we can see that.

3 MS. GRABEL: Certainly.

4 MEMBER GOLD: We can see the rationale with  
5 what you're doing.

6 The second question, what's your  
7 relationship with the railroad?

8 MS. GRABEL: So they are a stakeholder to  
9 this proceeding because some of the lines -- they're an  
10 impacted -- they're not a party, but some of our lines  
11 impact their railroad.

12 MEMBER GOLD: Have you considered using  
13 their right-of-way or along their right-of-way to run  
14 their lines?

15 MS. GRABEL: So Routes 5 and 6 do  
16 contemplate that. And this is something Mr. Bryner can  
17 talk to later.

18 The concern we have with the railroad  
19 rights-of-way is we have not been able to get an  
20 affirmative answer from them whether we would be allowed  
21 to construct.

22 And so if you decide that route, we would  
23 ask that you choose an alternate route as well in case  
24 the railroad doesn't let us.

25 MEMBER GOLD: Is there a reason why the

1 railroad wouldn't let you?

2 MS. GRABEL: I've reached out to them and  
3 asked them, and I just haven't received an answer back,  
4 so I don't know the answer to that.

5 MEMBER GOLD: Thank you.

6 MS. GRABEL: Certainly.

7 CHMN STAFFORD: Ms. Grabel.

8 MS. GRABEL: Yes.

9 CHMN STAFFORD: Would condemnation be an  
10 option then?

11 MS. GRABEL: I will let Mr. Bakken answer  
12 that question because I think that's a business decision.

13 CHMN STAFFORD: It guess it depends if it's  
14 economically feasible, I guess; correct?

15 MS. GRABEL: So to condemn I -- yes.

16 And I'm not sure actually as a matter of  
17 law if you can condemn railroad property, but,  
18 Mr. Bakken.

19 MR. BAKKEN: That would be my concern. I  
20 can't say in my experience that we have ever encountered  
21 that situation. But I do know that the railroads have  
22 certain privileges that other property owners don't have.

23 So whether or not as a utility we would be  
24 able to condemn a railroad property, I'm uncertain as to  
25 whether or not we have the ability to do that at this



1 point.

2 CHMN STAFFORD: But you could condemn other  
3 property that's outside of their right-of-way alongside  
4 it theoretically?

5 MR. BAKKEN: Theoretically, certainly  
6 condemnation is a last resort, one that we don't like to  
7 necessarily avail ourselves of. But theoretically it  
8 could be a possibility.

9 CHMN STAFFORD: All right. Thank you.

10 MEMBER RICHINS: Mr. Chairman.

11 CHMN STAFFORD: Yes, Member Richins.

12 MEMBER RICHINS: First, I would pay good  
13 money to watch a railroad and a utility go at it in a  
14 condemnation process. I mean, that should be on ESPN,  
15 seriously.

16 MR. BAKKEN: The Ocho.

17 MEMBER RICHINS: Seriously. Good luck with  
18 that.

19 Mr. Lusk, when you're -- will you  
20 prepare -- your witness is a planner; correct?

21 MR. LUSK: That's correct.

22 MEMBER RICHINS: To the issue that  
23 Ms. Grabel brought up on area plans being enforceable,  
24 can you find out if those area plans are part of your  
25 general plan. Which is ratified by voters?

1 I'm just curious as to the Sam Hughes Area  
2 Plan and the University Area Plan.

3 MR. LUSK: Sure.

4 MEMBER RICHINS: Sometimes those find  
5 themselves into general plans, and general plans are  
6 approved by voters, which gives them a little bit of heft  
7 over a -- sometimes there's less formal plans that are  
8 done.

9 So I just want to understand where those  
10 plans sit in the legal hierarchy of your planning  
11 department.

12 MR. LUSK: Sure. If I may, I think I can  
13 tell you that they're legislative in nature at this  
14 point. I can verify that to be sure. But our general  
15 plan is adopted by the voters, and the specific plans or  
16 area plans are legislatively adopted.

17 MEMBER RICHINS: Are they found also in the  
18 general plan, general area plans?

19 MR. LUSK: So I would have to -- I would  
20 have to check to be sure. But I don't know for -- I  
21 don't believe they are, but I can check just to have --  
22 and have Mr. Castro --

23 MEMBER RICHINS: That would be great. Have  
24 him be prepared to discuss the legislative route that  
25 those were -- that those took.

1 MR. LUSK: Of course. Yes, sir.

2 MEMBER RICHINS: The other question I had  
3 was getting at the undergrounding cost number.

4 So on page 11 or page 29 of the ginormous  
5 document, right, page 11 of the application, it talks --  
6 it cites a -- some cost estimates from SRP and APS. Your  
7 consultant says that the cost estimates are consistent in  
8 your application here.

9 But you use an example of a route that was  
10 estimated to cost 17 million, which later to underground  
11 it was going to cost 87 million, so \$67 million more. By  
12 my math that's a factor of five. And I've heard that  
13 it's more expensive by a factor of 10 and now by 14 to  
14 22.2.

15 So I'm not sure what numbers we're using  
16 for what's the actual cost of undergrounding, because  
17 your example is five, yet you've gone as high as 22. So  
18 I just -- what are the conditions that make that --

19 CHMN STAFFORD: Member Richins, I believe  
20 they're going to address that in the last panel when they  
21 have the expert.

22 MS. GRABEL: Correct. We've hired Sargent  
23 & Lundy to do that analysis specific to this case, which  
24 is the 14 to 22.2 times number.

25 MEMBER RICHINS: Got it. Thank you.

1 That's all I had.

2 CHMN STAFFORD: Ms. Grabel.

3 MS. GRABEL: Okay. Thank you.

4 BY MS. GRABEL:

5 Q. I think when -- before the Committee began  
6 asking questions we were talking about the variation  
7 options that the TEP and City explored to potentially  
8 fund the underground construction of the MRP project, and  
9 you had begun to talk about why utility rates wasn't an  
10 option.

11 Do you have any concerns that agreeing to  
12 include the cost of undergrounding the project in utility  
13 rates would set a precedent that could be used to require  
14 the undergrounding of future transmission projects?

15 A. (Mr. Bakken) Yes. We do have that concern.

16 And, in fact, we did some analysis on  
17 undergrounding all projects in the Ten-Year Plan, which I  
18 believe Mr. Lindsey had referenced. And the results of  
19 undergrounding those projects in that Ten-Year Plan was a  
20 cost of 2.5 billion or a 20 percent increase in rates,  
21 which translates to about 25 to \$26 per month per  
22 customer.

23 In fact, Tucson Electric's power services  
24 remained remarkably affordable, costing less than -- on  
25 an inflation-adjusted basis costing less than it did

1 25 years ago. TEP's residential electric rates have  
2 increased about approximately 1.9 percent per year on  
3 average over the last 25 years. The average annual  
4 inflation rate over that same time period was about 2.5  
5 percent.

6 So you can see adding that type of additional  
7 cost for undergrounding projects into the future would  
8 put a significant strain on affordability for our  
9 customers.

10 Q. And, Mr. Bakken, that \$2.5 billion relates to  
11 only undergrounding the projects in your Ten-Year Plan.  
12 There would be additional transmission projects not  
13 included in this year's Ten-Year Plan; is that correct?

14 A. (Mr. Bakken) That is correct.

15 Q. So that number would only increase?

16 A. (Mr. Bakken) Yes. It would likely increase as  
17 we continue to move through the clean energy transition  
18 that we're going through today and having to build  
19 transmission in order to access additional clean power.

20 Q. Okay. Thank you.

21 Does TEP face any other capital investment needs  
22 that are going to increase utility rates in the coming  
23 years?

24 A. (Mr. Bakken) Yes.

25 You know, we've really got to think about how we

1 allocate resources to capital infrastructure and balance  
2 that allocation between generation, like I mentioned, as  
3 part of the clean energy transition looking at things  
4 like wind, solar, solar-plus-storage.

5 We're also looking at potentially additional  
6 natural gas within our portfolio with the ability to  
7 eventually burn a cleaner fuel source, something like  
8 hydrogen. We've also got to balance that with  
9 transmission as we've been talking about today.

10 And then obviously we mentioned the issue that  
11 we had -- the outage that we had on Ina due to a micro  
12 burst. We've got to ensure that your distribution  
13 facilities are also as reliable as possible.

14 And that becomes even more in focus, I think,  
15 today potentially than it has been in the past as we look  
16 at wildfire mitigation efforts and the investments we  
17 need to make to ensure that our system is as robust as  
18 possible related to the potential for wildfires.

19 You know, as we look at all of those kind of  
20 demands or how we would allocate funding, TEP expects to  
21 invest approximately 3.5 billion over the next five years  
22 to keep our service safe, reliable, affordable as we've  
23 been talking about for all customers, everybody within  
24 the customer base and not just specific groups.

25 And, you know, we really think that that is

1 critical as we move through this clean energy transition  
2 and see the various demands that we have for investment  
3 and for funding.

4 Q. So if TEP were required to underground  
5 transmission projects, that \$3.5 billion would almost  
6 double; correct?

7 A. (Mr. Bakken) Yes.

8 Depending on how far out you went, it could  
9 certainly double.

10 CHMN STAFFORD: I have a quick question on  
11 that.

12 That \$3.5 billion investment, is that for  
13 both -- does that include generation transmission and  
14 distribution investments?

15 MR. BAKKEN: It does. Yes.

16 BY MS. GRABEL:

17 Q. Is affordability of TEP rates a concern to the  
18 company?

19 A. (Mr. Bakken) Yes.

20 As I mentioned a few times, affordability is a  
21 key factor in how we look at the investments we're making  
22 and the service that we provide.

23 TEP has a relatively high percentage of  
24 low-income customers close to I believe it's 20 percent  
25 or below the poverty line. So we need to ensure that

1 we're maintaining affordability so the customers aren't  
2 faced to make tough choices about paying for basic needs.

3 Also, I think we've talked a little bit about  
4 economic development and lower rates certainly allow us  
5 to be competitive when we're attracting new customers and  
6 do that in order to support economic development within  
7 the region.

8 Q. So would you agree, then, that it is important  
9 to mitigate rate increases where possible?

10 A. (Mr. Bakken) Yes. That is important.

11 Q. Does TEP have any concerns about asking all of  
12 its customers to pay to underground a line purely for the  
13 aesthetic benefit of certain neighborhoods that object to  
14 its aboveground construction?

15 A. (Mr. Bakken) Yes.

16 Q. And I know you talked about the Arizona  
17 Corporation Commission's policy with Member Kryder, so I  
18 won't ask you to do that again.

19 What about shareholder funding, why was  
20 shareholder funding not a viable option?

21 A. (Mr. Bakken) As you might expect, shareholders  
22 expect a return on their investment. This return is  
23 really set by the Arizona Corporation Commission as part  
24 of that ratemaking process that we were discussing  
25 earlier.



1 Shareholders are willing to invest in a company  
2 based on a reasonable rate of return, which, again, is  
3 set by the Arizona Corporation Commission. Investing in  
4 infrastructure without a return is not really sustainable  
5 and would eventually lead to higher rates for all  
6 customers.

7 Potentially our credit rating would suffer,  
8 borrowing costs would increase, and then those costs  
9 would be passed through that ratemaking process to  
10 customers.

11 Without shareholders willing to invest in TEP or  
12 banks were unwilling to lend money to TEP we would not be  
13 able to maintain the safe, reliable, affordable service,  
14 let alone successfully kind of move through this energy  
15 transition to make the investments that we need to get  
16 there to be successful in the transition.

17 Q. Thank you.

18 You also mentioned that TEP and the City have  
19 explored funding the cost of undergrounding through  
20 private parties.

21 Can you please elaborate on that?

22 A. (Mr. Bakken) Yes.

23 As we had some of those conversations with the  
24 City, we were looking at I think I mentioned a number of  
25 different options. One of those was private

1 contributions or third-party contributions.

2 We discussed potentially the U of A or Banner  
3 contributing to the undergrounding costs that we were  
4 facing at the time or that we were looking at the time.  
5 And in those conversations it was either determined that  
6 those parties were unwilling or unable to make those  
7 contributions.

8 Q. Okay. Thank you. And I know you explored with  
9 Member Kryder the creation of an underground district.

10 Did I understand your testimony correctly that  
11 you did explore that option and talked to certain  
12 neighborhoods about it, but they rejected the idea?

13 A. (Mr. Bakken) We certainly let neighborhoods  
14 know that this option was available to them, and, like I  
15 mentioned, have now been approached and that we would  
16 assist really in helping to set up those special  
17 undergrounding districts.

18 To date we have not been approached by any  
19 neighborhood, any individual, any commercial entity to  
20 move forward with the undergrounding district option.

21 Q. Thank you. You mentioned government funding as  
22 a potential resource.

23 What were the results of exploring a government  
24 funding option?

25 A. (Mr. Bakken) We looked at a number of different

1 options related to federal funding, state funding, and  
2 city funding, whether or not there might be some  
3 mechanism or fund out there that we could use to help pay  
4 for some of the undergrounding that may be necessary.

5 As we looked at those options, did not find  
6 anything that this project particularly would qualify  
7 for, any of those kind of government funding options that  
8 might be out there.

9 Q. In the end TEP and the City explored funding the  
10 underground construction of this and potential future  
11 transmission projects through an expansion of the utility  
12 franchise; is that correct?

13 A. (Mr. Bakken) That is correct.

14 Q. So by way of background what is a utility  
15 franchise?

16 A. (Mr. Bakken) So a franchise is an agreement  
17 that we have with really any municipality that we operate  
18 in, in this case City of Tucson, that allows us to use  
19 their rights-of-way for utility infrastructure.

20 Q. Does TEP make any other payments to the City  
21 that could have been used to fund the underground  
22 construction of transmission projects?

23 A. (Mr. Bakken) Yes. There is also a utility tax  
24 that is part of, I believe, the UDC. And we collect that  
25 utility tax from our customers. We serve as a

1 pass-through. That money then goes to the City, I  
2 believe, as part of their general fund.

3 Q. Why wasn't the utility tax a workable option?

4 A. (Mr. Bakken) As we talked about the utility tax  
5 with the City, it's a very complex mechanism. And the  
6 ability to amend the utility tax we found just to be  
7 something that was not workable with the City.

8 And as you might imagine, you know, really two  
9 reasons: One, the complexity and, two, nobody wants to  
10 raise taxes. And so for those two reasons it was  
11 determined not to be a viable option.

12 Q. So how did TEP and the City propose to use the  
13 franchise agreement to fund the undergrounding of the  
14 transmission lines?

15 A. (Mr. Bakken) So as we talked about, the  
16 franchise, we determined it to be the best option really  
17 for meeting both TEP's goals as well as the City's goals.  
18 Those goals include preserving the Gateway Corridor along  
19 with funding for aspects of the City's Climate Action  
20 Plan.

21 So part of the incremental funds collected  
22 through the increase in the franchise fee would be used  
23 for undergrounding utility infrastructure with a portion  
24 of it being used to allow the City to move forward with  
25 initiatives within its Climate Action Plan.

1 Q. Did the proposed franchise agreement require  
2 action from Tucson citizens?

3 A. (Mr. Bakken) It did and does require a vote of  
4 approval from Tucson residents.

5 Q. And did the undergrounding proposition, I  
6 believe it's Proposition 412, go up for election?

7 A. (Mr. Bakken) Yes.

8 We moved forward with a special election.  
9 Ultimately Proposition 412, which included an increase to  
10 the franchise fee, was defeated.

11 Q. How did TEP proceed with the project after the  
12 failure of Proposition 412?

13 A. (Mr. Bakken) At that point, we didn't see  
14 really any other viable options but to come back to the  
15 siting Committee, and that's why we're here today to look  
16 at the potential for overhead routes to make the  
17 connection between Kino to Vine to DMP.

18 Q. Okay. Proponents of undergrounding point to  
19 Salt River Project's use of an aesthetic fund to pay for  
20 the construction of underground transmission lines.

21 Does TEP have such a fund?

22 A. (Mr. Bakken) No. We do not.

23 And, in fact, it's interesting SRP doesn't pay a  
24 franchise fee. They don't have a utility tax. But the  
25 aesthetics fund is an amount that they're able to recover

1 from SRP ratepayers in lieu of a franchise fee or a  
2 utility tax, that it dedicates those funds to the cities  
3 for use at the City's discretion associated with utility  
4 projects. And I believe that's the one -- and the  
5 mechanism that they used in Chandler. And really those  
6 are for beautification, but they could also be -- those  
7 funds could be used for undergrounding as well.

8 Q. All right. Thank you. Does --

9 MEMBER GOLD: Mr. Chairman.

10 CHMN STAFFORD: Yes, Member Gold.

11 MEMBER GOLD: Member Mercer was --

12 MEMBER MERCER: Go ahead.

13 MEMBER GOLD: I guess she wants me to go  
14 first.

15 MEMBER MERCER: Go ahead.

16 MEMBER GOLD: What was proposition --

17 MEMBER KRYDER: Closer to the mic, please.

18 MEMBER GOLD: What was Proposition 412?

19 MR. BAKKEN: So Proposition 412 was a  
20 special election that looked at revising -- I would say  
21 modernizing the franchise that we have on the books today  
22 to include an increase in that franchise fee that, like I  
23 mentioned, would be dedicated in part the majority to  
24 undergrounding infrastructure. But it also had a portion  
25 that was carved out for the City to move forward with

1 climate action initiatives under their Climate Action  
2 Plan.

3 MEMBER GOLD: So this was a City of Tucson  
4 proposition?

5 MR. BAKKEN: Yes, it was.

6 MEMBER GOLD: Did it affect TEP rates?

7 MR. BAKKEN: It would not have affected TEP  
8 rates as they're approved by the Arizona Corporation  
9 Commission. But the way that the franchise fee works is  
10 that we collect it from customers and then pass it  
11 through to the City. So that portion of it on our bill  
12 would have increased.

13 MEMBER GOLD: So the rates for Pima County  
14 in general, which you provide electricity to Pima County  
15 as well, would also go up, or according to that  
16 proposition would it have just have affected Tucson?

17 MR. BAKKEN: It would just have affected  
18 the citizens and residents of Tucson.

19 MEMBER GOLD: So the residents of Tucson  
20 under that down?

21 MR. BAKKEN: That is correct.

22 MEMBER GOLD: That resolution would have  
23 allowed them to underground all these lines that are in  
24 question?

25 MR. BAKKEN: It would have provided a

1 funding source for this line and potentially for future  
2 lines.

3                   There was also some language, if I remember  
4 correctly, that if a committee that was set up as part of  
5 that agreement determined that they had other priorities  
6 or other lines that needed to be underground, they could  
7 use the funding for that as well. But it would not be  
8 used to underground every transmission line within the  
9 City of Tucson.

10                   MEMBER GOLD: But this was turned down by  
11 the voters of Tucson?

12                   MR. BAKKEN: That's correct.

13                   MEMBER GOLD: That's the reason you're here  
14 today?

15                   MR. BAKKEN: That is the crux of the reason  
16 why we're here today, yes, to --

17                   MEMBER GOLD: So the City of Tucson needs  
18 the power, but they declined to pay for the  
19 undergrounding of that power.

20                   Am I summarizing that correctly according  
21 to Proposition 412?

22                   MR. BAKKEN: I would say that the residents  
23 of Tucson determined that paying for undergrounding and  
24 maintaining affordable rates was their priority, and that  
25 was shown in the vote.



1 MEMBER GOLD: Okay. So let me rephrase  
2 that. So the residents of Tucson had an opportunity to  
3 have underground rates which would -- underground their  
4 lines which would have bypassed this Committee, but their  
5 rates only would have gone up for that privilege, but  
6 they declined to vote for that; they turned it down?

7 MR. BAKKEN: That's correct.

8 MEMBER GOLD: That's what I needed to know.  
9 Thank you.

10 MEMBER HILL: Mr. Chair, I have a follow-up  
11 question.

12 CHMN STAFFORD: Yes, Member Hill.

13 MEMBER HILL: Mr. Bakken, was the vote that  
14 Tucson citizens took exclusively for the cost of  
15 undergrounding transmission, or were there a lot of other  
16 things in that ballot measure?

17 MR. BAKKEN: There were a number of other  
18 components of the ballot measure, the franchise itself,  
19 some other changes that we made to the franchise, but  
20 certainly as it was talked about leading into the  
21 election, there were two kind of major factors: One  
22 using funding for undergrounding transmission and the  
23 other using funding for moving forward with the City's  
24 Climate Action Plan, people coming down on both sides of  
25 those issues.

1 MEMBER HILL: Because my recollection of  
2 this just following it in the news was that it was a  
3 little bit confusing to folks because there was a lot of  
4 Climate Action Plan things that would be funded in it.

5 Do you remember -- and, really, what I'm  
6 getting at is that I don't know that we can conclude that  
7 Tucson voters turned this proposition down because of the  
8 cost of undergrounding.

9 My recollection is that there were a lot of  
10 other climate action pieces that were somewhat  
11 controversial in the Committee, and it made it harder for  
12 citizens to know exactly what they were voting on. It  
13 wasn't just one thing.

14 So the Climate Action Plan pieces that  
15 would be funded with this, can you characterize what  
16 those might have been?

17 MR. BAKKEN: As we looked at the Climate  
18 Action Plan with the City became part of our  
19 conversations, there were areas that where we aligned  
20 things like cooling centers in extreme heat situations,  
21 looking at the potential for battery energy storage in  
22 certain areas of the City.

23 Like I mentioned, there were really kind of  
24 two factors, I think, that went into people's decision or  
25 the City of Tucson residents' decision to vote either for

1 or against.

2 MEMBER HILL: Yeah.

3 MR. BAKKEN: One was the transmission.

4 Certainly that was a big area of conversation, and then  
5 as well as the Climate Action Plan.

6 MR. LUSK: Mr. Chair, I apologize for  
7 interrupting. I didn't want to belabor it, but I think  
8 we can just admit through -- with the Applicants a  
9 stipulation we could admit the resolution as voted upon,  
10 if that's helpful.

11 CHMN STAFFORD: Is there already an  
12 exhibit, Ms. Grabel, or not?

13 MS. GRABEL: It is not, Mr. Chairman. We  
14 would need to admit that, but we can do so.

15 CHMN STAFFORD: Well, it seems when you put  
16 on your direct you can have your witness introduce it and  
17 add it to your exhibits.

18 MR. LUSK: Certainly, Mr. Chair. Thank  
19 you.

20 CHMN STAFFORD: Thank you.

21 I have a quick question. When we're  
22 talking about --

23 MEMBER HILL: I have just one last comment.

24 CHMN STAFFORD: Well, one quick question  
25 here.

1           So you were talking about the franchise and  
2 it was going to be -- it was going to pay for -- it was  
3 going to raise the franchise fee from TEP, and that would  
4 enable the City to spend that money on a number of  
5 environmental improvements and undergrounding; correct?

6           MR. BAKKEN: That's correct.

7           CHMN STAFFORD: Okay. My question is in  
8 TEP's rates you operated all throughout Pima County in a  
9 number of cities; correct?

10          MR. BAKKEN: That's correct.

11          CHMN STAFFORD: All right. Now, do the  
12 franchise fees, are they collected only from the  
13 customers in the cities, or are they added to the cost  
14 and spread out among all ratepayers?

15          MR. BAKKEN: Typically, we have a franchise  
16 fee with each municipality or each town that we operate  
17 in.

18          CHMN STAFFORD: Well, I get that, but how  
19 is that collected from the ratepayers through your rates?

20          MR. BAKKEN: It's collected -- there's a  
21 designation. We're able to designate those customers  
22 that are within the City of Tucson or that are within the  
23 City of Marana or that are within the town of Oro Valley  
24 and then collect whatever that franchise fee is, whatever  
25 the agreement is with that entity, on the bill that we

1 send to our customers.

2 CHMN STAFFORD: Okay. So if I'm a resident  
3 of Green Valley, I'm not paying for the franchise fee for  
4 the City of Tucson?

5 MR. BAKKEN: That's correct.

6 CHMN STAFFORD: Okay. Thank you.

7 Member Hill, you had one more question.

8 MEMBER HILL: Thank you.

9 Mostly that I don't want -- I want to say  
10 that I thought the franchise agreement approach was an  
11 elegant solution that the City and TEP came forward with  
12 that -- that had it passed could have addressed a lot of  
13 things.

14 But I also think that sometimes when we put  
15 propositions in front of the public, they have a hard  
16 time tracking things that have lots of moving parts and  
17 pieces.

18 And so I -- I just don't -- I don't want us  
19 to conclude that because the residents of Tucson turn  
20 down a proposition that it was about the cost of  
21 undergrounding. I do think that there was a lot more  
22 going into that decision.

23 And I want to compliment the folks here on  
24 trying to create an elegant solution because I thought it  
25 was really creative. And it's unfortunate it didn't

1 pass, but I just don't want to conclude that it was just  
2 the underground costs that was a concern to residents.

3 MEMBER MERCER: Mr. Chairman.

4 CHMN STAFFORD: Yes, Member Mercer.

5 MEMBER MERCER: So I'm a little confused  
6 here. So Proposition 412 was turned down, so we all  
7 understand that.

8 My understanding was that the people of  
9 Tucson voted it down because it would only benefit -- the  
10 underground lines would only benefit certain  
11 neighborhoods; is that correct?

12 And everybody in Tucson would have had to  
13 pay for it for the improvements or the underground, but  
14 it would only benefit certain neighborhoods, and that's  
15 why we voted it down.

16 MR. BAKKEN: Certainly that -- that was a  
17 concern, and that's why we attempted to craft -- and  
18 thank you very much for the comment, Member Hill --  
19 attempted to craft a funding mechanism that would not  
20 only apply to a project like this but could also apply to  
21 projects going forward.

22 And then to the extent that there were any  
23 additional funds or extra funds, we could apply it to  
24 other neighborhoods, other projects, other overhead  
25 existing lines so that we had the ability to ensure by

1 setting up a committee that it wasn't just benefitting  
2 one part of the City of Tucson, that we had the ability  
3 to allocate funds to various parts, various projects  
4 within the City.

5 MS. GRABEL: Mr. Chairman, if I may.

6 CHMN STAFFORD: Yes, Ms. Grabel.

7 MS. GRABEL: I think that Mr. Lusk's  
8 suggestion of putting Proposition 412 into the record is  
9 a good one, and I think that that will explain everything  
10 that it was to pay for.

11 And I think it's very difficult for  
12 Mr. Bakken because he has no personal knowledge of why  
13 the various voters decided to turn it down. Perhaps we  
14 could just kind of let that document speak for itself,  
15 and everyone can draw their own conclusions about the  
16 meaning of the failure of Proposition 412.

17 CHMN STAFFORD: Right. I think that's an  
18 excellent suggestion, because it seems that the  
19 undergrounding thing might have been an unpopular part of  
20 the proposition, but certainly there were more parts to  
21 it than that, and we can't know what individual voter --  
22 what weighed their decision to vote no. I mean, it could  
23 be just as simple as I don't understand it, so I'm voting  
24 no because it's an increase in costs.

25 Bottom line, we don't -- we don't -- we

1 will never know, but we can certainly look at the  
2 proposition.

3 And do you have the language like the  
4 CliffsNotes or the -- it's the paragraph that explains  
5 what it is briefly that the voters would read?

6 Because I think that's probably going to be  
7 more relevant because that's what a lot of people -- they  
8 look at that and gauge what they're going to vote based  
9 on the synopsis and the -- it's not called the  
10 CliffsNotes. It's got another term. I just recall it  
11 off the top of my -- the summary or --

12 MS. GRABEL: Description.

13 CHMN STAFFORD: -- description. There's --  
14 yeah. Because that would explain what the effect of the  
15 proposition would do. I think you need to have that  
16 attached to the actual -- in addition to the actual text  
17 of the proposition because I think that may be more  
18 instructive as to what drove people's decisions.

19 MR. LUSK: Mr. Chair, if I may. I think we  
20 can provide that.

21 CHMN STAFFORD: Yes, Mr. Lusk.

22 MR. LUSK: We can provide that information.  
23 There's a truth in voting publication that goes out with  
24 each proposition, and we can provide that.

25 CHMN STAFFORD: Excellent. Thank you.



1 MR. LUSK: You're welcome.

2 MEMBER MERCER: Mr. Chairman.

3 CHMN STAFFORD: Yes, Member.

4 MEMBER MERCER: One more -- one more thing  
5 on that same subject.

6 So Mr. Dempsey, he's still here, he's  
7 representing the Underground Arizona. He would like to  
8 see this whole project to be underground; right?

9 MR. DEMPSEY: No.

10 MEMBER MERCER: Is that my understanding?

11 MR. DEMPSEY: Just the --

12 MEMBER MERCER: Just certain areas?

13 CHMN STAFFORD: Get to the microphone  
14 instead of answering, otherwise the court reporter is not  
15 going to pick up your answer.

16 MR. DEMPSEY: So, no, just the areas that  
17 have been required by law since the '80s.

18 MEMBER MERCER: Okay. So I guess my  
19 question is was this a part of Proposition 412?

20 MR. LUSK: Member, I apologize. When you  
21 say "this," what are you --

22 MEMBER MERCER: The underground.

23 CHMN STAFFORD: Mr. Lusk, please go to the  
24 Chair and announce it. Because I'm hearing your voice  
25 and I don't recognize it, so I'm looking around confused

1 as to who's speaking.

2 MR. LUSK: Sure. I apologize, Mr. Chair.  
3 This is Roi Lusk for the City of Tucson.

4 I'm just clarifying that the member, Member  
5 Mercer, is asking about whether the Gateway Corridor Zone  
6 itself was a part of the Proposition 412?

7 MEMBER MERCER: Yes. The what  
8 Mr. Dempsey's asking for certain areas to be underground  
9 on this project.

10 My question is were those areas part of the  
11 Proposition 412 that were turned down by the voters?

12 MR. LUSK: They were not. To clarify,  
13 Proposition 412 was an up or down vote on renewal of the  
14 franchise agreement with the -- with the applicant.

15 MEMBER MERCER: Okay. Thank you.

16 MEMBER RICHINS: Mr. Chairman.

17 CHMN STAFFORD: Yes, Member Richins.

18 MEMBER RICHINS: Is there a current  
19 franchise agreement in place now --

20 MR. BAKKEN: Yes, there is.

21 MEMBER RICHINS: -- due to the failure of  
22 that?

23 For how much longer?

24 MR. BAKKEN: Yes. This is Erik Bakken.

25 And, yes, there is a franchise in place

1 today, and I believe it expires in 2026.

2 MEMBER RICHINS: And what are the  
3 ramifications of that expiration should it occur?

4 MR. BAKKEN: Potentially there would be no  
5 agreement between TEP and the City of Tucson for the  
6 infrastructure that we have placed in city rights-of-way.

7 Beyond that, not sure what the implications  
8 are.

9 MEMBER RICHINS: Thank you.

10 MEMBER GOLD: Mr. Chairman.

11 CHMN STAFFORD: Yes, Member Gold.

12 MEMBER GOLD: This is a question for  
13 Ms. Grabel or Ms. Hill.

14 Let's assume there are residents in, say,  
15 the Sam Hughes neighborhood which doesn't -- let's  
16 assume -- I'm sorry. Let's assume there are residents in  
17 a neighborhood, example Sam Hughes neighborhood, they do  
18 not want overhead transmission lines. Do they not have  
19 the option for 10, \$20,000 to have the lines that they  
20 could normally see buried down individually?

21 Is that not an option? Because I have  
22 friends in the Foothills who did that.

23 MS. GRABEL: Thank you, Chairman Stafford,  
24 Member Gold.

25 I can't comment on the dollar amount, but

1 they do have the option of exploring the underground  
2 improvement district that we discussed with Member Kryder  
3 earlier.

4 And do you want to add to that, Ms. Hill?

5 MS. HILL: Thank you.

6 All right. Mr. Chair, Member Gold, I  
7 believe Mr. Robinson when he testifies can give you a  
8 little bit more of an explanation about the options that  
9 individual homeowners have to have the distribution and  
10 the lines coming to their homes actually undergrounded.  
11 He can give you kind of a little bit more of a technical  
12 overview of what those options are, if that's what you're  
13 talking about as well.

14 But there are actually very few  
15 transmission lines, you know, throughout the City of  
16 Tucson. Certainly the Foothills area has not very many.  
17 And so distribution and that sort of thing are a  
18 different animal than a 138kV line.

19 MEMBER GOLD: So if I understand you  
20 correctly, Ms. Hill, the 138 lines cannot be buried?

21 MS. GRABEL: So, okay, I understand the  
22 question better now.

23 There's a distinct difference between  
24 undergrounding smaller distribution facilities and larger  
25 transmission facilities. And we're going to get into

1 that during the undergrounding panel.

2 And so, for example, this project proposes  
3 to build the 138kV transmission line aboveground because  
4 of the extraordinary cost differential between  
5 aboveground construction and belowground, but it's also  
6 going to bury the smaller distribution lines because it  
7 just doesn't cost -- because the cost differential isn't  
8 nearly as much. It's done pretty regularly.

9 MEMBER GOLD: So if I understand correctly,  
10 the 130-volt transmission lines do not impact these areas  
11 where you have residential homes that they're complaining  
12 about or they do?

13 MS. GRABEL: They do.

14 And so this project proposes to build 138kV  
15 transmission lines through residential -- in portions  
16 through residential areas. But proposes not to  
17 underground -- build them underground.

18 MEMBER GOLD: But if the residents choose  
19 to have those lines buried, can they?

20 MS. GRABEL: The 138kV line?

21 MEMBER GOLD: The 138.

22 MS. GRABEL: It's going to depend on the  
23 area and, of course, if there's a funding option for that  
24 underground construction.

25 MEMBER GOLD: Well, if they wish to pay for

1 it themselves, can they?

2 MS. GRABEL: I guess Ms. Hill wants to  
3 address this.

4 MS. HILL: So, Mr. Chair, Member Gold.

5 So that's -- when we're here, when we talk  
6 about this, obviously Mr. Bakken has been through the  
7 taxing district possibility. That would be a possibility  
8 for an area that, you know, can form their own taxing  
9 district, special taxing district, to underground certain  
10 lines.

11 But one of the things that you'll hear in  
12 future testimony with Sargent & Lundy is the cost of  
13 that. And so most of the time what would be in that  
14 homeowner's viewshed that they would want to underground  
15 would probably be in the several-million-dollar range to  
16 underground a 138kV line.

17 And so when Mr. Jocham from Sargent & Lundy  
18 testifies, he can probably give you a much more specific  
19 answer to that question.

20 MEMBER GOLD: Thank you.

21 CHMN STAFFORD: And that'll be on panel 4?

22 MS. GRABEL: Correct.

23 MS. HILL: Yes. We anticipate that will be  
24 Friday.

25 CHMN STAFFORD: Okay. Any other questions

1 from members?

2 MEMBER SOMERS: Mr. Chair.

3 CHMN STAFFORD: Is that Member Somers?

4 MEMBER SOMERS: Yep, that is Member Somers.

5 I just want to make sure you can hear me.

6 CHMN STAFFORD: Yes. Yes. Do you have a  
7 question?

8 MEMBER SOMERS: Just a brief question. We  
9 spoke a little bit or I heard some testimony about the  
10 franchise agreement. There is one in place even though  
11 another failed an election; is that correct?

12 MR. BAKKEN: Yes. This is Erik Bakken  
13 again. That is correct.

14 MEMBER SOMERS: Okay. And does either  
15 state law or the existing --

16 CHMN STAFFORD: Member Somers, you broke up  
17 there. Can you start your question over again, please.

18 MEMBER SOMERS: I can. Yeah, you've been  
19 breaking up as well a little bit here and there, so I  
20 think it's the Wi-Fi.

21 So the question is does state law or the  
22 franchise agreement with the City of Tucson that's in  
23 place require an installation of underground where  
24 required by local laws?

25 So the zoning ordinance or scenic corridor

1 or specific plans that require undergrounding, is that in  
2 state law or the franchise treatment?

3 MR. LUSK: So, Mr. Chairman, this is  
4 Roi Lusk with City of Tucson. If I can --

5 CHMN STAFFORD: Yes, Mr. Lusk.

6 MR. LUSK: If you can attempt to clarify  
7 Member Somers' question.

8 I think there are two things going on. One  
9 is the franchise, one is state law. Those two things  
10 don't really have anything to do with each other, at  
11 least for this proceeding.

12 The franchise doesn't necessarily control  
13 what this Committee can do as well as this Committee  
14 doesn't really control what happens with the franchise,  
15 so I'm not sure that it would be helpful to sort of go  
16 down that road very far, if that makes sense, Member  
17 Somers.

18 MEMBER SOMERS: Sorry. You guys are  
19 breaking up here.

20 CHMN STAFFORD: Okay. Did you not hear his  
21 response, Member Somers?

22 MEMBER SOMERS: No, I did not. It froze.

23 CHMN STAFFORD: Can you try again now,  
24 Mr. Lusk?

25 MR. LUSK: I don't know if I can get the



1 words right again, but I'll try.

2 Member Somers, Mr. Chair, I think the  
3 concern is that they're -- amongst both the applicant and  
4 some of the parties is that there are two different  
5 things going on. One is the franchise and one is state  
6 law, and those don't really intersect very well or at  
7 all.

8 This Committee has no impact on what the  
9 franchise agreement between the applicant and the City of  
10 Tucson dictates as well as the reverse of that.

11 So the franchise doesn't -- or the  
12 franchise doesn't dictate the Committee, the Committee  
13 doesn't dictate the franchise, so they're not  
14 particularly relevant for this hearing at least as to  
15 what is required for undergrounding, if that makes sense.

16 MS. GRABEL: And TEP concurs with that.

17 CHMN STAFFORD: Thank you, Ms. Hill.

18 MEMBER SOMERS: Okay. That's interesting  
19 because there's been a lot of questions about how things  
20 are paid for.

21 And my follow-up question to that is if  
22 it's required by local law, either the state law or local  
23 law or the franchise agreement, to be -- for a line to be  
24 undergrounded in a certain area based on local law, and  
25 my follow-up question is who in those laws -- who's

1 required to pay for that?

2 Is the City required to pay for that?

3 Do you have to put up the special taxing  
4 district, or does that fall to TEP?

5 MS. GRABEL: So, Mr. Chairman, Member  
6 Somers, that's exactly what the City of Tucson and TEP  
7 were attempting to determine when they met after -- or  
8 prior to the failure of Proposition 412 was how to pay  
9 for it. And the conversation about the franchise --

10 MEMBER SOMERS: My question is is it in law  
11 or ordinance on who's required to pay for it as it  
12 currently sits?

13 MS. GRABEL: That's the subject of a  
14 superior court proceeding. It's not currently --

15 CHMN STAFFORD: Mr. Lusk.

16 MR. LUSK: Mr. Chair, Member Somers, I  
17 apologize. I'll try to answer. And I will immediately  
18 say that I think Ms. Grabel's correct. We do have some  
19 disagreement about that.

20 But there is no requirement that I'm aware  
21 of in either state law or in local law that requires any  
22 particular party to pay for undergrounding.

23 What I think our disagreement is -- and I  
24 won't go too far down that road, but what our  
25 disagreement is is that we believe the franchise has some

1 information about who's required to pay for that, and I  
2 believe the applicant has a different interpretation of  
3 that franchise.

4 MEMBER SOMERS: So there -- there are local  
5 ordinances and view corridors that have been adopted that  
6 require or request power lines to be undergrounded, but  
7 there's nothing in there about who pays for this or how  
8 it's paid for?

9 MR. LUSK: This is Roi Lusk with the City  
10 of Tucson.

11 Member Somers, I apologize. There was a  
12 side conversation. Can you repeat your statement again.

13 MEMBER SOMERS: My question is that there  
14 are also local view corridors potentially impacted here  
15 where we're being asked to maybe avoid those because of  
16 site issues.

17 So there are local ordinances or view  
18 corridors in place by the City of Tucson that would  
19 require undergrounding of the power lines, but there's  
20 nothing saying in that law or anywhere else who pays for  
21 it?

22 It's just a question up in the air right  
23 now in the courts?

24 MR. LUSK: That is correct. That ordinance  
25 does not determine who pays for the undergrounding.

1 That -- the City of Tucson -- I apologize. This is Roi  
2 Lusk for the City of Tucson again.

3 The City of Tucson would -- would interpret  
4 that to go -- to mean that the franchise would control.

5 MEMBER SOMERS: But it's an interpretation  
6 that's -- and it's nebulous, and that's why it's in front  
7 of the court? Would that be accurate?

8 Yeah, I see a head nodding.

9 CHMN STAFFORD: Someone please say yes.

10 MS. GRABEL: Yes.

11 MEMBER SOMERS: Thank you.

12 CHMN STAFFORD: Thank you, Ms. Grabel.

13 Is that the end of your questions, Member  
14 Somers?

15 MEMBER SOMERS: That does. Thank you. And  
16 I apologize, but I think it's your Wi-Fi that's kind of  
17 cutting in and out on me at least for the moment, but so  
18 I was able to get everything out of that. Thank you.

19 CHMN STAFFORD: Great. Excellent. Thank  
20 you.

21 Ms. Grabel.

22 BY MS. GRABEL:

23 Q. Okay. I believe that where we left off,  
24 Mr. Bakken, is you were talking about the difference  
25 between SRP and TEP in terms of whether TEP can establish

1 an aesthetics fund.

2 And you were about to differentiate TEP from SRP  
3 on the basis that SRP does not pay a franchise fee or a  
4 utility tax and collects moneys from its ratepayers to  
5 fund an aesthetics fund, which it dedicates to cities for  
6 use in transmission projects.

7 Is TEP differently situated from SRP?

8 A. (Mr. Bakken) Yeah. I think that's right.

9 Before I go there, SRP does collect from their  
10 customers funds that can then be used by the cities where  
11 they operate for not only transmission projects  
12 undergrounding, for instance, but other kind of  
13 beautification projects as well.

14 The difference is that SRP isn't regulated,  
15 doesn't require ACC approval for that type of fund.

16 On the other hand, we do, you know, pay a  
17 franchise fee. We pay a utility tax. And those are  
18 recovered from our customers.

19 So thinking about the ACC's policy regarding  
20 undergrounding, I think it's highly unlikely that the ACC  
21 would approve something like an aesthetics fund really on  
22 top of the franchise fee as well as the utility tax to  
23 fund undergrounding.

24 So that I think is -- explains or hopefully  
25 clarifies kind of the difference between SRP's aesthetics

1 fund and our franchise fee and utility tax.

2 Q. Thank you.

3 To put this in context, how much money did Tempe  
4 pay to the City of Tucson under its franchise agreement  
5 in 2023?

6 A. (Mr. Bakken) Under the franchise agreement  
7 approximately \$15 million.

8 Q. How much money did TEP pay in utility rates in  
9 2023?

10 A. (Mr. Bakken) For the utility tax --

11 Q. Tax, my apologies.

12 A. (Mr. Bakken) That's all right. A utility  
13 doesn't pay utility rates.

14 But under the utility tax it was approximately  
15 the same, \$15 million.

16 Q. Can the City use those funds to help pay for the  
17 underground construction of transmission lines?

18 A. (Mr. Bakken) They can --

19 MR. LUSK: Mr. Chair, I apologize. I --

20 CHMN STAFFORD: Announce yourself when you  
21 speak, Mr. Lusk.

22 MR. LUSK: Sorry. Roi Lusk with City of  
23 Tucson.

24 Just real quickly, I'm not sure that  
25 Mr. Bakken is the correct person to be able to answer as

1 to what the City can do with its funds.

2 CHMN STAFFORD: He can certainly give his  
3 opinion, Mr. Lusk.

4 MR. LUSK: Sure.

5 CHMN STAFFORD: And you're free to put your  
6 witness on and contradict anything he says.

7 MR. LUSK: Happy to do so. Thank you.

8 CHMN STAFFORD: All right. Thank you.

9 Mr. Bakken, please continue with your  
10 answer.

11 MR. BAKKEN: Yeah. So certainly the City  
12 has a number of different priorities. And to date, they  
13 have decided not to use those funds for undergrounding  
14 utility infrastructure.

15 MS. GRABEL: Thank you.

16 I think those are all the questions I have  
17 on this topic, so absent any from the Committee I'm going  
18 to turn back to the time line and Mr. Lindsey.

19 BY MS. GRABEL:

20 Q. Okay. So Mr. Lindsey, will you conclude with  
21 the rest of this time line?

22 A. (Mr. Lindsey) Yes. Sounds great.

23 So we'll round this slide out here. We've been  
24 here for a bit.

25 As mentioned, without prop 412, we decided to

1 restart the siting and public outreach process for this  
2 project as the need for the project has only grown in  
3 importance over time.

4 In this effort -- so let me see here -- starting  
5 in '23, we evaluated a larger study area and also looked  
6 at several additional routes beyond our initial effort in  
7 2019. This led us to the CEC application we're  
8 discussing today.

9 It's important to note that the original  
10 in-service date for this project is now the summer of  
11 2024. The need to modernize the electrical  
12 infrastructure in Midtown is critical for supporting our  
13 customers today.

14 And to highlight some of the challenges we're  
15 having in this area of town, the next slide shows some of  
16 the investments we've made -- thank you -- and plan to  
17 make to support the system between now and the new  
18 in-service date of 2027.

19 Q. So, Mr. Lindsey, I have to interrupt you for a  
20 moment.

21 A. (Mr. Lindsey) Yes.

22 Q. You mentioned briefly that the original  
23 in-service date was 2024 and that has been extended to  
24 2027; is that correct?

25 A. (Mr. Lindsey) That's correct.



1 Q. So has that delay had any financial consequences  
2 to the company and its customers?

3 A. (Mr. Lindsey) Yes. It has.

4 Q. And that's what you're about to go into?

5 A. (Mr. Lindsey) Yes.

6 CHMN STAFFORD: And, for the record, you're  
7 looking at Slide 25 of TEP-8?

8 MR. LINDSEY: That is correct.

9 CHMN STAFFORD: Thank you.

10 MR. LINDSEY: So to provide a little more  
11 detail on those impacts and the result of the delay,  
12 we've either made or plan to make investments in the  
13 existing system to ensure they continue to operate as  
14 reliable as possible.

15 So these investments have come in the form  
16 of increased inspection and maintenance as you can see in  
17 the top line, also purchasing of spare parts due to the  
18 concern of equipment failures. So as we're talking about  
19 this old system, we're really just trying to keep it  
20 limping along in anticipation of this project.

21 So these investments have also come in the  
22 form of replacing 46kV equipment that would not be  
23 operationally reliable until 2027 no matter how much  
24 maintenance was performed.

25 Specifically we replaced substation

1 equipment at Winnie and are developing designs and  
2 similar upgrades at the Olsen Substation that would  
3 otherwise be retired with this project.

4 So as you see here, we've invested or plan  
5 to invest just over \$10 million as a result of the delay  
6 putting us at that over 10 million point.

7 So further, if the project's delayed beyond  
8 the '27 in-service date, this is where things get even  
9 more challenging, we expect another roughly \$10 million  
10 to be spent just to band-aid the existing system in this  
11 area of town to maintain reliability.

12 One of the things that's of great concern  
13 in this area of town is if we do not gain approval for a  
14 line and get to build the Vine Substation, without the  
15 approval -- sorry. I lost my point there -- we'd be  
16 faced with a complete rebuild and expansion of our 46kV  
17 system in Midtown adding another 50-plus million dollars  
18 of investment into an antiquated system without  
19 addressing the need to modernize Midtown.

20 And as mentioned before, we'd still need to  
21 build another transmission line to meet NERC reliability  
22 standards. If you recall the map, we'd still need to  
23 connect Kino somewhere and we'd still need to build  
24 additional facilities outside of DeMoss Petrie, so we'd  
25 be back here talking about what that project would look

1 like in some fashion.

2 MEMBER LITTLE: Mr. Chairman.

3 CHMN STAFFORD: Yes, Member Little.

4 MEMBER LITTLE: Mr. Lindsey, is that 9 and  
5 a half million dollars just -- is that, like, per year,  
6 or if the project is delayed a year?

7 Because you talked about even more  
8 additional costs if it's delayed, if the project doesn't  
9 happen.

10 MR. LINDSEY: Member Little, that's a good  
11 question.

12 So the 10 million is what we're looking to  
13 invest into Olsen Station to get us into that 2030 time  
14 frame. So it's really just a short-term investment into  
15 that substation to maintain reliability.

16 MEMBER LITTLE: Thank you.

17 CHMN STAFFORD: Yeah. I had a question  
18 about that Slide No. 25.

19 The 10.6 million total investment, what is  
20 the time frame for that?

21 Is that up to today, is that through '27?

22 MR. LINDSEY: So, Chairman Stafford, that  
23 includes the investment at Winnie Substation for new  
24 equipment, and the point about plan 2 includes additional  
25 maintenance between now and the project in-service date.

1 So most of that has been spent.

2 CHMN STAFFORD: Of the 10.6 million?

3 MR. LINDSEY: That's correct.

4 CHMN STAFFORD: So that's -- mostly that's  
5 been incurred already?

6 MR. LINDSEY: Yes.

7 CHMN STAFFORD: And so then the  
8 9.5 million, below that that's what you expect to incur  
9 between now and '27?

10 MR. LINDSEY: After '27.

11 CHMN STAFFORD: After '27?

12 MR. LINDSEY: Yes. Correct.

13 CHMN STAFFORD: So you have a bit left of  
14 the 10.6 to spend between now and '27, but then after '27  
15 you're looking at 9 and a half million more for what time  
16 frame?

17 MR. LINDSEY: Chairman Stafford, we're  
18 talking about getting us to 2030.

19 CHMN STAFFORD: Okay. '30. So three  
20 years. So another 9 and a half million for that three  
21 years, '27 to '30, then?

22 MR. LINDSEY: That's correct.

23 CHMN STAFFORD: Just to band-aid the  
24 existing distribution system together?

25 MR. LINDSEY: That's correct.

1 CHMN STAFFORD: Okay. Now, and you  
2 mentioned another number. Was it, like, \$50 million or  
3 something? That would be to rebuild the entire was it  
4 43kV system?

5 MR. LINDSEY: Chairman Stafford, that's  
6 correct.

7 So we're looking at a significant  
8 investment in the 46kV system in Midtown if we don't  
9 build this 138kV line as proposed.

10 CHMN STAFFORD: Okay. So the expense for  
11 that would be from now until 2030, 2027, whenever you get  
12 that -- those improvements made assuming that this -- you  
13 don't -- aren't able to build this 138kV line?

14 MR. LINDSEY: Chairman Stafford, that's  
15 kind of our -- our -- if we don't get approval to build  
16 the line, our only other option is to invest in the  
17 existing system.

18 So without the Vine Substation, without the  
19 completion of the Kino to DMP 138kV line, our only other  
20 solution that we're faced with is just dumping money into  
21 this old system. So it's beyond the 2030 time frame.

22 CHMN STAFFORD: Okay. And that's you said  
23 about \$50 million?

24 MR. LINDSEY: That's what we approximate to  
25 rebuild the existing system, yes.

1 CHMN STAFFORD: And then what is the --  
2 your estimated cost to build your preferred route  
3 aboveground, then, for comparison?

4 MR. LINDSEY: Chairman Stafford, I'm going  
5 to have to ask --

6 CHMN STAFFORD: I think it's in your  
7 placemat, but I want to make sure I'm looking in the  
8 right spot.

9 MR. BRYNER: It's approximately the same  
10 amount to build the Vine Substation and the overhead  
11 transmission line. It's right around 52 million one way  
12 or the other to rebuild the 46, build the 138.

13 CHMN STAFFORD: But the 138kV system has  
14 additional reliability benefits and it will enable you to  
15 grow into the future greater than just improving the 43kV  
16 distribution system; correct?

17 MR. BRYNER: Yes, that's correct.

18 CHMN STAFFORD: Okay.

19 MEMBER LITTLE: Mr. Chairman.

20 CHMN STAFFORD: Yes, Member Little.

21 MEMBER LITTLE: Just to clarify, you still  
22 in order to make NERC requirements need to have backup  
23 connection between the -- on the 138kV system.

24 So you're talking about needing if this  
25 is -- if this is not approved, needing to invest the 50

1 million to upgrade the 46kV system, which would still be  
2 wood poles, somewhat marginal and in addition having to  
3 build a different route 138kV line to satisfy your  
4 reliability requirements?

5 MR. LINDSEY: Member Little, that's  
6 correct.

7 So we are not really talking about those  
8 costs because we have not scoped what that looks like.  
9 We're planning to build this transmission line that we're  
10 discussing today as our solution because of the exact  
11 points you point out here.

12 So we would be -- we'd be looking at in  
13 addition to that 46kV investment, which would likely --  
14 just a small correction, we would look to install steel  
15 poles very similar but not quite as robust as the ones  
16 needed for a 138kV system.

17 I'll note within the neighborhoods' back  
18 lot in many cases as we'll see later this week we'd still  
19 be looking at investing in that system and coming back to  
20 this Committee with a solution that has not been scoped  
21 to loop Kino in to connect that -- that loop and meet the  
22 reliability promises we made to that neighborhood.

23 And what we haven't talked too much about  
24 quite yet is additional need leaving DeMoss Petrie in the  
25 future. So that's another one of these NERC requirements

1 that fall into the scope of this project.

2           Mentioned earlier, the levels of efficiency  
3 this project brings allow us to resolve all of these  
4 issues with one project, and that's what's -- I mean,  
5 that's what I get excited about. But we'd be back at the  
6 drawing board trying to resolve that problem and scoping  
7 and studying within our transmission plans what that  
8 might look like.

9           MEMBER LITTLE: Mr. Chairman.

10          CHMN STAFFORD: Yes, Member Little.

11          MEMBER LITTLE: One more point. And that  
12 is that whatever reconstruction of the 46kV sub  
13 transmission system gets done, if that were the case,  
14 would not be under the jurisdiction of the -- of the  
15 Commission. It just would get built.

16          CHMN STAFFORD: But they'd still need a  
17 138kV line somewhere even if they did beef up the -- is  
18 it 46? I'm saying it wrong? It's 43? It's 46?

19          MEMBER LITTLE: 46.

20          CHMN STAFFORD: -- 46kV system you still  
21 have to have a 138kV transmission line down the road;  
22 correct?

23                   I'm just making sure I got all this.

24          MR. LINDSEY: Chairman Stafford, that's  
25 correct.



1 I mean, obviously we would -- this is all  
2 what ifs and in the future, but we probably wouldn't be  
3 looking at building in this area. We'd be taking that  
4 new line from Kino likely east or west. Again, it hasn't  
5 been studied or scoped, so we'd have to get through that  
6 process. And we'd also be looking at additional upgrades  
7 outside of DeMoss Petrie Substation on the 138kV side.

8 So you're correct. There's more to come.

9 CHMN STAFFORD: All right. Okay.

10 MEMBER MERCER: Mr. Chairman.

11 CHMN STAFFORD: Yes, Member Mercer.

12 MEMBER MERCER: So a question for

13 Mr. Lindsey.

14 So can you just put it in layman terms what  
15 are the benefits or the pros and cons of just rebuilding  
16 the existing project or the existing what we have right  
17 now?

18 MR. LINDSEY: Sure. So there's -- I'll  
19 walk through them at a high level.

20 So the higher voltage not only of the 138kV  
21 solution, not only provides additional capacity we also  
22 operate it differently. So it's a looped system, meaning  
23 it's fully redundant, it's always connected on both  
24 sides, providing multiple sources of energy to our  
25 substations.

1                   Conversely, the 46kV system is a lower  
2 voltage. It has less capacity. And it also is operated  
3 radially. So from -- we do have connections we can make  
4 manually in the field with that system, but if we do  
5 experience an outage, it's very similar to those examples  
6 we were talking about earlier where power will be out  
7 until we manually restore our customers.

8                   So they will experience an outage.  
9 Depending on the time of year, severity of the issue, it  
10 would be prolonged, and that's really what we're trying  
11 to get away from with this solution.

12                   So just a really high level, 138 not only  
13 has more capacity, we operate it in a way that is much  
14 more reliable.

15                   A second piece that's outside of the  
16 transmission conversation but very much a part of this  
17 project is we also design our substations at the 138kV  
18 level with much more capacity. So it allows us to not  
19 only have redundancy at substation level that our 46kV  
20 stations do not have, it will set us up to convert to  
21 14kV from 4, again, a whole other step up in the world  
22 for the distribution system, additional capacity,  
23 additional reliability.

24                   And so when you compare the systems,  
25 there's just really no comparison.

1 MEMBER MERCER: Okay. So besides the  
2 reliability, what about the way it looks?

3 MR. LINDSEY: So from an aesthetic purpose,  
4 from comparing the two systems -- well, I guess the way  
5 I'd answer that question is if we were to build new  
6 versus new, right, not new versus existing, so our 14kV  
7 system today built new would look very similar to say we  
8 needed to rebuild a 4kV line in this area that fell down  
9 using similar poles, similar arms, similar wires  
10 aesthetically looks no different.

11 MEMBER MERCER: So basically it would still  
12 look ugly?

13 MR. LINDSEY: The advantage -- so I'm an  
14 electrical engineer, so this stuff all looks great to me.

15 So the difference I would say is there'll  
16 be less infrastructure.

17 So Mr. Bryner mentioned earlier we're going  
18 to be removing a number of miles of 46kV as part of this.  
19 We're retiring eight substations with two. So you can  
20 see our impact to the community is really reduced when we  
21 go to these higher voltages and different types of  
22 standards all while bringing more capacity and  
23 reliability. So we're really looking at just a much  
24 better system.

25 MEMBER MERCER: Thank you.

1 MEMBER GOLD: Mr. Chairman.

2 CHMN STAFFORD: Yes, Member Gold.

3 MEMBER GOLD: So, again, so this is to your  
4 side of the tables. If I understood this correctly, in  
5 2000 -- in 1975 you used 787 megawatts for Tucson  
6 roughly.

7 In 2003, it's three times higher, the 24 --  
8 22 -- 2,422 megawatts now converting megawatts to  
9 kilovolts, I know how to do that.

10 If you do not do these upgrades -- judging  
11 by the growth in usage, are we going to have brownouts if  
12 you do not do those upgrades?

13 MR. LINDSEY: So, Member Gold, I think the  
14 easy answer to that is yes.

15 MEMBER GOLD: Thank you.

16 MR. LINDSEY: The longer answer would be  
17 we're going to do everything we can to keep the lights  
18 on; right? I mean, we're going to move forward with that  
19 \$50 million of investment because our responsibility is  
20 reliability and serving our customers.

21 From -- as a planner I'm not going to be  
22 happy about spending those dollars on this part of the  
23 system when I could be investing it somewhere else.  
24 There's more efficient ways to use that.

25 But, yes, there are major limitations with

1 the existing system, and it's going to require, as  
2 Mr. Bryner mentioned, just as many investment to keep it  
3 limping along to just meet what we need to for the near  
4 term versus what we're looking at here today.

5 MEMBER GOLD: So if I understand this  
6 correctly, and I'm going to use a different analogy.  
7 People loved steam engines in its day. Steam locomotives  
8 were beautiful. They moved the people. But as the  
9 population grew and transportation needs increased, the  
10 switch to diesel was actually required. The steam  
11 engines just couldn't have done it in the long run no  
12 matter how much they tried.

13 If I understand this correctly, it's a  
14 similar analogy. The 46kV system is old. It's low  
15 capacity. It's nonredundant. And it's reached the limit  
16 of its technological capability.

17 You can put band-aids on it. You can put  
18 up new little poles, but the correct thing to do is to go  
19 to something that is better today. The 138kV system is  
20 looped, which means you have redundancy. You're not  
21 going to have blackouts. It has more capacity so you're  
22 not going to have brownouts.

23 The population is growing, temperatures are  
24 going up, more electricity is being used by everybody.  
25 To throw money into steam engines when everybody should

1 be using a diesel engine doesn't make sense. It's not  
2 economically good for the community. It's not  
3 economically good for our company. It's not economically  
4 good for anybody.

5 So I don't see why we're questioning the  
6 need for this. I think it's straightforward we need to  
7 upgrade the system. The question is are you allowed to  
8 upgrade the system? And that I believe is why you're  
9 here today; is that correct?

10 MR. LINDSEY: Member Gold, I think we'd  
11 have to agree with most of that, yes.

12 MEMBER GOLD: Thank you.

13 CHMN STAFFORD: All right. Thank you.  
14 We've been going another 90 minutes, so I think the court  
15 reporter is due another break. Let's take a 10-minute  
16 recess.

17 (Recess from 4:33 p.m. to 4:48 p.m.)

18 CHMN STAFFORD: Let's go back on the  
19 record.

20 Ms. Grabel.

21 MS. GRABEL: Thank you, Mr. Chairman.

22 BY MS. GRABEL:

23 Q. I think we left off on we were talking a bit  
24 about reliability and the aesthetics benefits of the  
25 proposed project compared to rebuilding the existing

1 system and then adding another transmission line.

2 So I think this is a good time to address the  
3 Staff letter that was filed in the docket. I know that,  
4 Mr. Lindsey, have you reviewed the letter that was filed  
5 in the docket from Commission Staff regarding the  
6 reliability benefits of this project?

7 A. (Mr. Lindsey) Yes. I have.

8 Q. And do you recall that Commission Staff took the  
9 position that it could not weigh in on any reliability  
10 benefits because we had not presented them with a system  
11 information study, system integration system?

12 A. (Mr. Lindsey) System impact study?

13 Q. There we go. That's it, SIS.

14 A. (Mr. Lindsey) Yes. I've reviewed that.

15 Q. Okay. Thank you.

16 And do you also recall Staff's recommendation  
17 that we explore a little bit on the record how TEP  
18 studies its system to determine what transmission lines  
19 need to be added for reliability purposes?

20 A. (Mr. Lindsey) Yes.

21 Q. And can you talk a little bit about that?

22 A. (Mr. Lindsey) Sure.

23 Q. What is TEP's process for identifying needed  
24 system improvements for its system?

25 A. (Mr. Lindsey) So I'll walk us through the

1 process. It's a little detailed. It's probably the last  
2 thing we want to talk about at the end of -- end of the  
3 day, so I'm going to keep it high level and walk through  
4 our study process.

5 So we call this process our transmission  
6 planning criteria and assumptions. So this is used for  
7 conducting both near and long-term transmission planning  
8 studies. And it's actually a public document, so we can  
9 provide that as needed. And within that document it  
10 outlines a study process.

11 And so -- excuse me. So I'll hit the highlights  
12 here. This study's conducted on an annual basis, and  
13 it's really looking at two main things: What we call our  
14 Ten-Year Plan and towards the end of the process our NERC  
15 compliance reliability studies.

16 So first we start with a load forecast, and that  
17 doesn't mean a load forecast for the entire system. So  
18 there's been some numbers thrown out about system peak  
19 load. That's part of this forecast. But what we do with  
20 those numbers is really drill down all the way to each  
21 substation bus.

22 So you've seen some of our 138kV substations on  
23 the maps. In the future Vine would be included in that  
24 forecast. And so we get the loading all the way down  
25 into the 138kV system so we can evaluate that



1 transmission system.

2           So the next step is case development. So what  
3 we do here is we model our transmission system. And this  
4 includes -- the focus today is 138, but this includes our  
5 entire system, our 345kV and 5000kV system as well. We  
6 build those models and -- in our powerful software, the  
7 GE PSLF software.

8           And so within that step we are conducting both  
9 power flow and transient stability studies to look at the  
10 reliability of our transmission system as it looks today  
11 with loading and, again, from that long-term horizon out  
12 ten years. So that allows us to identify any weakness or  
13 upgrades on an annual basis within that Ten-Year Plan  
14 study.

15           So results of those studies are used to develop  
16 that plan, as I mentioned, and that plan is submitted to  
17 the Corporation Commission on an annual basis.

18       Q.    Thank you, Mr. Lindsey.

19           What were the results of that study for this  
20 project?

21       A.    (Mr. Lindsey) So, you know, understanding some  
22 of the feedback and comments related to the system impact  
23 study, really the Ten-Year Plan is akin to an SIS. So a  
24 system impact study is a little -- sorry, I'm jumping  
25 into a little more detail before I get to your question.

1 Q. You're good.

2 A. (Mr. Lindsey) The impact study's more  
3 traditionally conducted for, say, a new generator  
4 connecting to the system or a new connection to another  
5 utility. But, really, the Ten-Year Plan is looking at  
6 identifying the impacts or the needs of the system. And  
7 I would consider this project -- well, it is --  
8 mitigation to issues that we found in that Ten-Year Plan  
9 study.

10 So, again, a strong connection between our  
11 Ten-Year Plan studies that we conduct on an annual basis  
12 for our entire transmission system to a system impact  
13 study. And really this project among others in our  
14 Ten-Year Plan are designed to resolve issues that we  
15 identified in that study.

16 CHMN STAFFORD: Ms. Grabel, you referenced  
17 the Staff letter.

18 Is that an exhibit somewhere?

19 I don't see it on your list of the 19.

20 MS. GRABEL: It is not a TEP exhibit. They  
21 filed it in the docket in response to your question, but  
22 we did not make it an exhibit. We can do so if you'd  
23 like us to.

24 CHMN STAFFORD: Yeah. Could you make that  
25 TEP-20, then?

1 MS. GRABEL: We will actually make it  
2 TEP-25. We filed some additional exhibits in the record  
3 today regarding public outreach.

4 CHMN STAFFORD: All right. I have not seen  
5 those yet, but thank you.

6 MS. GRABEL: Sure.

7 MEMBER LITTLE: Mr. Chairman.

8 CHMN STAFFORD: Yes, Member Little.

9 MEMBER LITTLE: There's an old in lots of  
10 way electrical utility system planner I would like to  
11 say -- just go on the record as saying that the type of  
12 study that Mr. Lindsey has described is the type of study  
13 that I, in my position here, representing the public,  
14 like to see to indicate that the project is safe,  
15 reliable, and has been studied with respect to the entire  
16 system, not just a specific little piece of it.

17 And I appreciate that the planning process  
18 that TEP has -- goes through with respect to these  
19 projects.

20 MS. GRABEL: Thank you, Member Little.

21 BY MS. GRABEL:

22 Q. Do you have anything further you'd like to put  
23 in the record, Mr. Lindsey?

24 A. (Mr. Lindsey) Maybe just a couple things to  
25 round out our full planning process.

1           So I've focused so far really on our Ten-Year  
2 Plan. Once those are complete and planning memos for  
3 internal documentation are submitted, we then take that  
4 new system configuration.

5           So, again, we've identified new projects from  
6 where we started, coordinate that with our adjacent  
7 utilities who are doing the same thing at the same time.  
8 We're all on the similar path here in the state from a  
9 timing perspective based on the Ten-Year Plan  
10 requirements.

11           And then utilize those new models. So, again,  
12 we're building these cases bigger and bigger with new  
13 transmission lines that are designed to resolve issues  
14 like this one here we're talking about and then utilize  
15 those new models to conduct our reliability studies.

16           So we are required to study our transmission  
17 system to meet NERC compliance requirements, so federal  
18 reliability requirements as well as the state Ten-Year  
19 Plan. And so it really builds on top of that annual  
20 Ten-Year Plan.

21           So really just thought it was worth sharing to  
22 round out what that full study process looks like for us.

23           Q. All right. Thank you.

24           Mr. Bryner, why don't you continue with the  
25 presentation. I believe we are on the Slide 26.

1 A. (Mr. Bryner) Sure. I'd be happy to.

2 So just -- we've talked about the project quite  
3 a bit, but, I guess, I want to be very direct about the  
4 components of the Midtown Reliability Project.

5 So it includes four main components: A new  
6 substation, which is the Vine Substation; a new  
7 transmission line connection; upgrades to the  
8 distribution system; and the retirement of aging assets.

9 So while the proposed transmission line is the  
10 subject of this hearing, it's what you're here to make a  
11 decision on, it's important that you're aware of the full  
12 scope of the project so you can understand kind of why we  
13 designed the project in the way we did.

14 So I want to first just have a quick discussion,  
15 and we've talked about this some already, so I won't  
16 belabor it too much, but why do we have the two end  
17 points of the project? You know, so why is it connecting  
18 between Kino and DeMoss Petrie?

19 Okay. So we talked about where Kino -- or where  
20 DeMoss Petrie is at, and we talked about the connection  
21 of Kino to Irvington. So we know and we've established  
22 the fact that we need to create a new transmission path  
23 between those two.

24 And the first leg of that transmission path --  
25 sorry. I forget about my mic. The first leg of that

1 transmission path was the Irvington to Kino line. The  
2 next leg would be our DeMoss Petrie to Kino line to  
3 complete that loop.

4 So the big thing is why does this need to go  
5 through the Vine Substation? And we've also -- I think  
6 we've established this pretty clearly, it's for  
7 efficiency purposes. By doing this, it keeps us from  
8 having to build another transmission path elsewhere.

9 We need to build the substation. We need to add  
10 capacity. We need to replace this aging infrastructure,  
11 so we need the Vine Substation. It needs a transmission  
12 line to serve it. We also need a path in roughly the  
13 same area. So by doing this we're able to have dual  
14 purposes and meet both of those needs.

15 So let's talk about why the Vine Substation  
16 needs to be where it's at.

17 Q. And, Mr. Bryner, real quickly, TEP is not  
18 required to obtain a CEC to construct a substation, so  
19 why are we including a discussion of the Vine Substation  
20 in this application?

21 A. (Mr. Bryner) So as you'll very likely hear  
22 tonight during the public comment session, or if you've  
23 reviewed some of the public -- or some of the comments  
24 that are in the application, there were a lot of concerns  
25 from -- primarily from some of the neighborhoods in that

1 area about the proximity of the substation to their  
2 neighborhoods.

3 But the reason why we've included it in our  
4 application here is because the location of the  
5 substation impacts the location of the line. It's a  
6 critical part of our project. And, again, as we  
7 mentioned, by building this one substation, it will allow  
8 us to replace or retire eight other substations. So we  
9 wanted to make sure that we provided a proper  
10 explanation.

11 So let me go ahead and start with the saturation  
12 study. So Mr. Lindsey mentioned this briefly when he was  
13 going over the project time line. So this was conducted  
14 in 2018 by a third party. The purpose of this study was  
15 to identify the ultimate buildout of TEP's system based  
16 on load projections which were informed by current loads,  
17 demographics, and zoning.

18 The study identified system requirements to meet  
19 those load projections. And one of those requirements  
20 was the identification to -- or one of those requirements  
21 was the fact that we needed additional capacity in the  
22 Midtown area. And that additional capacity would be met  
23 by a new substation with a load center that was right at  
24 Speedway Boulevard and Vine Avenue. You may not be super  
25 familiar with those roadways just yet, but you will be

1 fairly soon.

2           So, I guess, once we identified the need for a  
3 substation and the load center for that substation, we  
4 began the process of looking for a suitable site and  
5 purchasing the land.

6           So TEP typically -- our typical substations are  
7 air-insulated substations, so they've -- you know, the  
8 equipment is separated by space to provide the necessary  
9 clearances for safety, and that takes space. So these  
10 substations are usually on a parcel about five to seven  
11 acres in size.

12           But we were familiar with this area, and we knew  
13 that it was fully built out, and finding some available  
14 land of that size was going to be very challenging, if  
15 not impossible.

16           And so we considered a gas-insulated substation,  
17 or a GIS. So a gas-insulated substation that uses  
18 nonflammable, nontoxic gas to insulate the electrical  
19 equipment within sealed conduit, so whereas the  
20 air-insulated substation uses air for that purpose.

21           So these substations cost more, but they do  
22 require a lot less space, and so it was something that we  
23 felt like we could accommodate within the spaces that  
24 might be available to us.

25           So you can see these two different substations



1 on the screen. The one on -- this is Slide 30. The  
2 substation on the left is actually our Kino Substation  
3 that we've talked about quite a bit. And the one on the  
4 right is our Tucson Substation. We've also mentioned  
5 that a little bit. And so the gas insulated, it has an  
6 open-air 46kV substation, but the 138kV substation is  
7 sitting underneath that canopy.

8           So between 2018 and 2020 TEP searched for a  
9 site. There were six site-selection requirements. So  
10 I've got those listed on Slide 31. So it needed to meet  
11 technical system requirements. It needed to be of  
12 sufficient size, which in this case could include  
13 potential parcels that would, you know, accommodate a GIS  
14 substation. So one to two acres would be acceptable.

15           It needed to minimize impacts to natural or  
16 cultural resources. We needed to have a willing seller,  
17 and the land needed to be available for TEP to purchase.  
18 It needed to be compatible with surrounding land uses.  
19 And it needed to be cost-effective.

20           So during that initial site-selection process,  
21 we identified a total of 15 sites. And through that  
22 effort, it resulted in the purchase of the Vine  
23 Substation.

24           I believe -- I can't remember who asked the  
25 question before, but do we own the land for Vine

1 Substation? The answer is, yes, we do own the land for  
2 it.

3 So, as I also mentioned, this site had its  
4 critics, primarily from the Jefferson Park neighborhood,  
5 which is located north of the site.

6 So even though TEP had the land before we  
7 restarted the siting process in 2023, following the  
8 failure of Proposition 412, we did another comprehensive  
9 review of sites to see if anything new had become  
10 available since we previously identified those other 15.  
11 And as a result of that, we did identify five additional  
12 sites which were evaluated.

13 Now, lastly, during the first phase of our  
14 siting process, we sought public and stakeholder input on  
15 any other available sites, and as a result of that two  
16 additional sites were identified and evaluated. So  
17 making a total of 22 potential sites that were reviewed  
18 as part of TEP's site-selection process.

19 I'll take just a couple minutes to walk through  
20 these sites detailing how each did not meet each the  
21 site-selection requirements or, in other words, why they  
22 were eliminated from consideration.

23 So, first of all, so slide -- or sites 2, 3, 4,  
24 5, 6, 7, and 8 were all too small, so they were  
25 eliminated.

1 Sites 9, 10, 11, 12, 13, 14, 15, 16, and 21 were  
2 all too far from the load center, so they did not meet  
3 the technical requirements.

4 Sites 17, 20, and 22 all had unwilling sellers.  
5 So that only left us with a few potential sites.

6 So I'll go ahead and start with the Vine  
7 Substation site, the site that was selected.

8 So the site -- the site was the former home of  
9 the University of Arizona facilities management and  
10 maintenance buildings. So it was already disturbed.  
11 It's 1.6 acres in size, so it's sufficient in size to  
12 accommodate a GIS substation.

13 It's located within an area that has similar  
14 land uses that are classified as industrial and  
15 commercial. And it's located adjacent to two existing  
16 substations.

17 And last but not least it did have a willing  
18 seller, which is why TEP was able to purchase it.

19 Site 18 was looked at in conjunction with our  
20 efforts to find a solution to fund the construction of  
21 the line underground down Campbell back in the '22 to '23  
22 time period.

23 The site is currently privately owned and  
24 functionally serves as a retention basin. It is of  
25 sufficient size for a GIS substation. And with some

1 extra work and cost we could make it function as a  
2 substation site with stormwater retention below.

3 And at the time the owner was willing to sell.  
4 However, those discussions were held in the context of  
5 Proposition 412 passing and the line being underground.  
6 So when 412 did not pass, the viability of Campbell as a  
7 route for the line was in question, and those discussions  
8 ended.

9 And lastly, site 19 was identified in 2023 just  
10 prior to restarting our siting efforts. And the site is  
11 currently a surface parking lot. The owner was willing  
12 to sell. The site is borderline too small. It's 1.3  
13 acres. But it wasn't out of the question to make it  
14 work.

15 So TEP didn't pursue this site for two reasons:  
16 One, because the existing -- or because of the existing  
17 location of our distribution feeders it would be quite a  
18 bit more costly than the proposed site on Vine. So, as I  
19 mentioned, the Vine Substation site is adjacent to those  
20 two existing substations, so reconfiguring the circuits  
21 would be fairly simple there. And the second reason was  
22 this site would be surrounded by residential uses on all  
23 sides. In all of our public outreach efforts, we've  
24 constantly heard feedback that substations belong in  
25 industrial and commercial areas, not in residential

1 areas.

2 And so, as I mentioned, the Vine Substation fits  
3 this more closely than this site does, which is within a  
4 residential neighborhood.

5 So there were no advantages to this site over  
6 the Vine site, and it was eliminated from consideration.

7 So just kind of a recap on the Vine Substation  
8 site. So, as I mentioned, it's located within an  
9 industrial and commercial area. On -- on -- this aerial  
10 image shows the site with -- it's kind of hard to see on  
11 the screen, but it's bounded by a yellow line.

12 And on the north side of this site is a  
13 recycling center. East of the property is a parking  
14 garage. On the south side of the property are those two  
15 substations that I talked about. And then on the west  
16 side, yes, it is single-family residential.

17 And this residential area is part of the North  
18 University neighborhood. The boundary of the Jefferson  
19 Park neighborhood is Lester Street, which I know it's not  
20 labeled on here, but it's the street that goes right  
21 across the very top of the screen.

22 As I already mentioned, the site is 1.6 acres in  
23 size, so it's sufficient in size to build our GIS  
24 substation. And the site is located a little north of  
25 the load center that we had identified in the saturation

1 study. As I mentioned, that was at Speedway Boulevard,  
2 which is a little bit south of this and Vine Avenue, but  
3 fairly close, and it did meet our system technical  
4 requirements.

5 And, as I already mentioned, because of the  
6 proximity to the other substations, reconfiguring those  
7 circuits would be less costly. And since it's a fully  
8 built out and disturbed site, environmental impacts would  
9 be minimal.

10 Q. Mr. Bryner, just to reiterate, the selected site  
11 for the Vine Substation is right next to an existing TEP  
12 substation that will eventually be retired once Vine is  
13 constructed; correct?

14 A. (Mr. Bryner) That's correct.

15 Our U of A medical substation is located right  
16 there just directly south of the Vine Substation site.

17 Q. Is the proposed Vine Substation essentially an  
18 upgrade to the existing TEP system?

19 A. (Mr. Bryner) So I would say the Vine Substation  
20 is a critical component of the upgrade of this specific  
21 portion of TEP's 46kV system to a 138kV system.

22 Q. Thank you.

23 A. (Mr. Bryner) All right. So this -- so now  
24 looking on the right screen, which is Slide 40, this is a  
25 photo of the existing site and a simulation of what the

1 substation would look like as proposed.

2 So the substation would be screened by a  
3 13-and-a-half-foot masonry perimeter wall, and it would  
4 also feature landscaping along that wall.

5 One thing to note is the change in the property  
6 from its previous use, which was a maintenance building  
7 for the University of Arizona, so there had -- that had  
8 quite a bit of traffic coming in and out of the site, so  
9 we would not have that kind of traffic coming in and out  
10 of our substation, and so it would relieve traffic and  
11 parking congestion in this area, and it would also  
12 improve visual quality and kind of the pedestrian  
13 experience along Vine Avenue.

14 Q. And, Mr. Bryner, I note that the simulated  
15 condition on the bottom of Slide 40 appears to remove  
16 several utility poles that appear in the current  
17 condition.

18 Why were those poles removed?

19 A. (Mr. Bryner) Yeah, so thank you, Ms. Grabel.

20 So if you look in the current condition, these  
21 poles, those are 46kV poles that source the current U of  
22 A medical substation. So as part of this project, those  
23 46kV lines will retired and removed along with that  
24 substation.

25 Now, going down to the simulated condition, we

1 don't show --

2 MEMBER SOMERS: Mr. Chair.

3 CHMN STAFFORD: Yes. Who's speaking?

4 MEMBER SOMERS: This is Member Somers.

5 CHMN STAFFORD: Member Somers, can you  
6 please turn your camera on? It makes it a lot easier for  
7 the court reporter to make out what you're saying.

8 MEMBER SOMERS: I'll try.

9 CHMN STAFFORD: Thank you.

10 MEMBER SOMERS: There we go.

11 All right. So as you can probably tell, I  
12 have to go into a city council meeting right now, so I'm  
13 going to have to sign off.

14 CHMN STAFFORD: Okay. We're going to take  
15 a break here pretty soon anyway and get ready for the  
16 public comment that begins at 5:30. I think we'll take a  
17 break as soon as Mr. Bryner finishes his answer. But  
18 we're back tomorrow at nine.

19 MEMBER SOMERS: Nine o'clock. Thank you.

20 CHMN STAFFORD: Thank you. Good night.

21 MEMBER LITTLE: Mr. Chairman.

22 CHMN STAFFORD: Member Little.

23 MEMBER LITTLE: Mr. Chairman, is this the  
24 view from the residences that are on the west side?

25 MR. BRYNER: So, yeah, to orient you a



1 little bit, so we're looking south along Vine Avenue. So  
2 the substation is on the -- it's shown on the left side  
3 is the east, and so the residences are located on the  
4 west. So you can't quite see them in the frame, but,  
5 yeah, this would be the view from the --

6 MEMBER LITTLE: On that side. Great.  
7 Thank you.

8 MR. BRYNER: And so, yeah, looking at the  
9 simulated condition, so we don't have any new poles here.  
10 So that's not exactly correct because we didn't -- we  
11 created this simulation to share at some of our public  
12 open houses that we had, and we didn't want to  
13 demonstrate that we made a decision already on where this  
14 new line would go. And so we simply didn't show those.

15 But we will have a transmission line coming  
16 into this substation either from the south along Vine,  
17 the north along Vine, or just east of this location.  
18 Those are where our alternative routes are at.

19 BY MS. GRABEL:

20 Q. Thank you. Please continue.

21 A. (Mr. Bryner) So we've discussed the substations  
22 and why those sites were identified to meet the project  
23 need.

24 CHMN STAFFORD: Mr. Bryner, let's stop  
25 there. You can start with the -- you've covered the

1 substation. You can get to the details of the line  
2 itself tomorrow. We need to take a break to get switched  
3 up to gear up to take the public comment at 5:30.

4 MS. GRABEL: That's fine. We only have two  
5 slides left of this panel, but I understand timing  
6 constraints.

7 CHMN STAFFORD: Yeah. Because otherwise  
8 we'll be starting the public comment late, I think.

9 MS. GRABEL: We don't want to do that.

10 CHMN STAFFORD: All right. So with that  
11 let's take a recess, and we'll come back at 5:30 for  
12 public comment. Thank you.

13 (Recess from 5:15 p.m. to 5:32 p.m.)

14 CHMN STAFFORD: All right. Let's go on the  
15 record.

16 This now is the time set for public comment  
17 on the Midtown Reliability Project, Line Siting case 232.

18 Each member of the public will have  
19 three minutes to speak. The podium is to my right. We  
20 do have a Spanish interpreter available. Ms. Grabel,  
21 where -- where is the interpreter?

22 THE INTERPRETER: Right here, sir.

23 CHMN STAFFORD: Oh, right there. Thank  
24 you. We have a Spanish interpreter here.

25 All right. We have a number of people

1 present in the room to make public comment. When I call  
2 your name please come to the podium. You'll have three  
3 minutes to give your remarks to the Committee.

4 Up first we have Alexandria Thomas. She  
5 indicated maybe she would speak.

6 All right. Up next we have Roberta  
7 Santiago. She indicated maybe.

8 We have a Mike Attwood. He indicated he  
9 wished to speak. Mike Attwood.

10 Please state your name and spell your last  
11 named for the record.

12 MR. ATTWOOD: Hello, my name is Mike  
13 Attwood, and that is spelled A-t-t-w-o-o-d.

14 CHMN STAFFORD: You can go ahead make your  
15 comments now, sir.

16 MR. ATTWOOD: So I am the president of the  
17 North University neighborhood, and along with many of the  
18 other neighborhood associations who are affected by this  
19 project I oppose the -- what TEP has continued to do of  
20 not agreeing to underground this project.

21 We fully understand that this is an upgrade  
22 to existing infrastructure and have no -- excuse me --  
23 going first is kind of hard.

24 We have no opposition to the upgrade  
25 itself, but of course we have some issues with the

1 specifics going through our neighborhood.

2           None of us want this to happen, and we've  
3 repeatedly said this over the course of many years. And  
4 of course we believe that TEP should follow the law as it  
5 says that they legally have to underground their lines  
6 and we're not sure why there is this continuing  
7 opposition to what has been basically settled law and why  
8 it doesn't apply to them.

9           We don't think any of the arguments make  
10 much sense, and we hope that the outcome is in favor of  
11 undergrounding, or at the very least to change the  
12 routes.

13           We've had many conversations about what the  
14 routes should be, and every single time we feel that we  
15 are a little bit unheard as the routes seem to be picked  
16 before even asking neighborhoods. Repeatedly we have  
17 said different routes that we prefer and have had  
18 different outcomes, different proposals.

19           So in conclusion, we believe that this is  
20 not the correct way to do this, although a very necessary  
21 project. Thank you.

22           CHMN STAFFORD: Thank you.

23           Up next we have Adria Brooks.

24           MS. BROOKS: Hi, everyone. My name is  
25 Adria Brooks, B-r-o-o-k-s.

1                   So I'm a little under-prepared today. I  
2 just found out about the project a couple days ago, but  
3 I'm former staff as a transmission engineer at the  
4 Wisconsin Commission. I currently work for the  
5 Department of Energy in the grid deployment office as a  
6 National Transmission Planning engineer.

7                   CHMN STAFFORD: Can you please slow down?

8                   MS. BROOKS: Sorry. I'll back up. Let's  
9 rewind that. Hi everyone, my name is Adria Brooks,  
10 B-r-o-o-k-s.

11                   In my former career I worked at the  
12 Wisconsin version of the ACC at the Commission there as a  
13 transmission engineer. My background is in transmission  
14 engineering planning. I currently work for the  
15 U.S. Department of Energy in national transmission  
16 planning. So I'm very new to this project. I'm coming  
17 today not with any of those hats on, but rather as a  
18 resident who's in the study area.

19                   So I mostly have some questions for this  
20 group, recognizing you can't necessarily answer them, but  
21 I would be curious to hear about those if anyone in the  
22 audience knows or if someone can point me to where I  
23 could find the answers, I would appreciate that.

24                   So looking at national data for what we  
25 need, what a transmission system needs for reliability

1 for demand growth for clean energy integration, I'm not  
2 at all surprised that Tucson needs to upgrade its 48kV  
3 system up to 138.

4 That doesn't surprise me. If anything I'm  
5 actually wondering if 138 is large enough. And I would  
6 love to know if studies were done to understand how far  
7 into the future 138kV is going to get us. Would it be  
8 better if we were doing 161 or something higher.

9 So I'm curious to know if we're rightsizing  
10 this or are we going to be back in this room 10 years  
11 from now because we need to upgrade the line again, in  
12 which case could we consider going ahead and rightsizing  
13 those transmission poles or some of the substation  
14 components that were repaired to reconnect to 161 in the  
15 future.

16 So with that question, my second set of  
17 questions is I'm wondering if these are the traditional  
18 steel cables that we're using or if we're going to be  
19 using advanced conductors for this project, in which case  
20 that might help lessen the right-of-way and lower the  
21 towers that we're going to need in order to get the  
22 reliability that we need from this project.

23 That's all. Thanks.

24 CHMN STAFFORD: Thank you. You should  
25 probably consult with the applicant. They should have

1 the answers to those questions for you.

2 MS. GRABEL: Mr. Bryner's coming up right  
3 now.

4 CHMN STAFFORD: All right. Up next, we  
5 have Margo Belval.

6 MR. BELVAL: Well, as you can see I'm not  
7 Margo but Margo is my wife and her interests -- our  
8 interest is she purchased a house in Sam Hughes, I  
9 believe it was 1975.

10 CHMN STAFFORD: Can you please state your  
11 name and spell your last name for the record, please.

12 MR. BELVAL: Oh, okay. Sorry. My name is  
13 Ron Belval, B-e-l-v-a-l.

14 And I'm mainly here to support the TEP  
15 transmission planners because I was part of that group a  
16 long time ago, and so I can't bad-mouth those people at  
17 all.

18 So in the application, TEP acknowledged  
19 that the Midtown area in the Sam Hughes and other  
20 neighborhoods adjacent to the university all provide  
21 considerable value to the greater Tucson metropolitan  
22 area. So there's that. There's value of not only to the  
23 Midtown area neighborhoods of building a project and  
24 increasing reliability. But there's a broader value.

25 On the other hand, looking at the actual

1 planning of it, I think you could look at it two ways,  
2 who benefits. If you think there's a project that  
3 benefits Midtown, then it sounds like 46kV upgraded  
4 because I believe I saw that it was approaching the limit  
5 of its capacity. So if you're just focusing on that, you  
6 might look at a smaller project.

7 But the 138kV line if I recall correctly,  
8 and it's been a few years, that building that line would  
9 create another path between the major sources from the  
10 transmission system that TEP has in the south and with a  
11 500kV source out of Tortolita.

12 So building this project improves the  
13 reliability of the 138kV network that serves the greater  
14 metropolitan area. So that's who benefits from this.

15 So, and I'm sure that TEP has looked at --  
16 the planners have looked at all the alternate routes.  
17 But since these neighborhoods provide such a great value  
18 and they have a long historical legacy, I would hope that  
19 the Commission or Line Siting Committee would consider  
20 that factor in making this decision, the quality, the  
21 visual aspects of it that would definitely be changed by  
22 a transmission line could detract from the value.

23 And so -- and getting back again to the  
24 engineering aspect of this, there are three main paths  
25 between the sources, and one or two of them goes out,



1 then the other one gets overloaded and closing this 138  
2 path, and tell me if I'm wrong, would provide another  
3 path to alleviate the loading thereby improving the  
4 reliability.

5 And I've always had a hard time dealing  
6 with the incremental cost of undergrounding, but I think  
7 there's certain places where that may be warranted, and  
8 if you do find it's warranted and I hope you do, then  
9 since this is a broader benefit, this shouldn't be borne  
10 by the TEP ratepayers in general. Thank you.

11 CHMN STAFFORD: Thank you.

12 Up next we have Jan Gordley, but she has  
13 indicated she does not wish to speak.

14 We also have a Terah Partridge, which she  
15 has indicated she does not wish to speak.

16 Colleen Nichols. She has indicated she  
17 does not wish to speak.

18 Warren Egmond does not wish to speak.

19 Michael Guymon.

20 MR. GUYMON: Good evening. My name is  
21 Michael Guymon. G-u-y-m-o-n.

22 I'm president and CEO of the Tucson Metro  
23 Chamber, and I'm also a Ward 6 resident in the Sewell  
24 neighborhood near 5th and Craycroft.

25 The Tucson Metro Chamber strongly supports

1 Tucson Electric Power's application for a certificate of  
2 environmental capability for the Midtown Reliability  
3 Project.

4 As the region's leading business advocacy  
5 organization, representing 1400 member businesses and  
6 160,000 employees, the chamber is committed to fostering  
7 competitive, thriving economy.

8 The chamber supports initiatives that  
9 create an environment where businesses can flourish and  
10 the community can prosper, while also balancing the  
11 economic development with community needs.

12 TEP's Midtown Reliability Project does just  
13 that, and is a significant step toward promoting a  
14 robust, reliable energy system that underpins economic  
15 growth and enhances the quality of life for all  
16 Tucsonans.

17 I can tell you that as an employee, former  
18 employee of Sun Corridor for seven and a half years  
19 working with companies that are looking to relocate or  
20 expand into our region, TEP was in almost every single  
21 conversation with those companies to help them understand  
22 the electric liability and the access to electricity  
23 within our community, which was one of the major  
24 components that companies look at when they're looking to  
25 relocate or expand.

1                   Reliable power infrastructure is  
2 foundational to economic development, fostering business  
3 growth, attracting new investments and supporting the  
4 overall economic health of our community.

5                   This upgrade will directly benefit 62  
6 Central Tucson neighborhoods, including over 36,900 homes  
7 and more than 6800 businesses while also paving the way  
8 for new business development and job opportunities in the  
9 area.

10                  Additionally, the project will enable TEP  
11 to retire up to eight 46kV substations within 10 years,  
12 avoiding significant replacement costs and resulting in a  
13 more efficient infrastructure.

14                  TEP's transmission and distribution  
15 improvements will allow customers in the area to continue  
16 adding rooftop solar, private battery storage systems,  
17 and electric vehicles promoting sustainable energy  
18 solutions and advancing our community's economic and  
19 environmental needs.

20                  The Tucson Metro Chamber believes the  
21 Midtown Reliability Project is vital for Tucson's  
22 continued growth and prosperity. We encourage the  
23 Committee to approve TEP's CEC application to ensure  
24 reliable and robust power infrastructure that will drive  
25 economic development and support the thriving central and

1 greater Tucson area.

2 Thank you very much.

3 CHMN STAFFORD: Thank you.

4 Up next we have Rosemary Bolza.

5 MS. BOLSA: I'm Rosemary Bolza, B-o-l-z-a.

6 I live in the Jefferson Park neighborhood  
7 about one block and a half from where the Vine Substation  
8 is proposed.

9 When I first heard about -- and I do  
10 believe that TEP can do better than this. When I first  
11 heard about the project, it was in conjunction with the  
12 U of A becoming carbon neutral. And I thought, well,  
13 that's great.

14 But as we've learned more about it, the  
15 Vine proposed substation is in a very awkward place. It  
16 has to thread its way through Banner and these historic  
17 neighborhoods. And I believe that the TEP local  
18 employees are really fantastic people.

19 But I feel that the administrators of TEP  
20 are trying to bully the neighborhoods in accepting this  
21 location of this substation that is so awkward. And I'm  
22 very concerned about the idea of aboveground high power  
23 lines in our era of wild weather. There was just a  
24 microburst that knocked down five poles onto standing  
25 traffic. Now, the big poles probably won't snap like

1 that, but the lines can.

2 And also with our era of terrorism, these  
3 lines are susceptible to people with drones, to people  
4 cutting them, and I just we've been at this for years.  
5 And I think it's time to look at better technology and  
6 better methods. Thank you.

7 CHMN STAFFORD: Thank you.

8 Dorothy Richman does not wish to speak.

9 Randy Hotchkiss.

10 MR. HOTCHKISS: Randy Hotchkiss,  
11 H-o-t-c-h-k-i-s-s. I live at the intersection of  
12 Campbell and Mabel, East Mabel Street in the  
13 Blenman-Elm neighborhood. I represent the Blenman-Elm  
14 neighborhood in this endeavor, my house is one block east  
15 of Campbell, two blocks north of Speedway, definitely in  
16 the TEP high-power transmission line impact area.

17 I represent the Blenman-Elm neighborhood,  
18 and the neighborhood overwhelmingly objects to the  
19 aboveground power line. Several reasons. I'm a U of A  
20 alum, Tucson native, I love Tucson. I lived in Phoenix  
21 for a while -- sorry, Phoenix people. I lived in  
22 California for a while. Tucson is a wonderful place to  
23 live and we want to keep it that way.

24 TEP, a 138kV aboveground power line  
25 structure would visually, severely visually impact the

1 gateway to Tucson and the University of Arizona. We rely  
2 on this gateway to attract visitors, to attract  
3 businesses, to attract everybody. It's right from the  
4 airport, it's a direct route right into the Tucson  
5 community and U of A campus.

6 Loss of property values up to 40 percent  
7 has been well demonstrated, although TEP does not agree  
8 with me on that. It is well demonstrated up to  
9 40 percent if you live within 400 feet. It breaks down  
10 lower as you move out.

11 My house is within 400 feet.

12 The negative impact of living near or under  
13 power lines has a negative health hazard. TEP disputes  
14 that. There's been several studies including leukemia  
15 studies in children. If you want to go to Google it, go  
16 ahead and Google it. Impact of high-powered transmission  
17 lines on health with children and leukemia.

18 The Campbell-Kino gateway scenic route,  
19 it's a direct route to U of A campus, I told you that.  
20 The route passes through several historic neighborhoods,  
21 churches, Banner Medical Center. It would be absolutely  
22 criminal to run a high-powered transmission line along  
23 this route.

24 To protect the gateway scenic route, the  
25 City of Tucson enacted the gateway and scenic corridor

1 ordinance which requires new power lines must be placed  
2 underground. The City of Tucson Gateway Corridor Zone  
3 Section 5.5.4 subsection (b)(a) states that all new  
4 utilities must be aboveground -- I'm sorry, below ground,  
5 underground. Sorry.

6 CHMN STAFFORD: You're over three minutes.  
7 You've got another 10 seconds to wrap it up, sir.

8 MR. HOTCHKISS: Ten seconds. Have I gone  
9 three minutes already?

10 CHMN STAFFORD: Yes.

11 MR. HOTCHKISS: Have I?

12 CHMN STAFFORD: Yes, I'm timing you.

13 MR. HOTCHKISS: Okay. I'll just get right  
14 to the end. It's absolutely outrageous that TEP wants to  
15 do this to our neighborhood, the Gateway Corridor, the  
16 University of Arizona, Banner, the historic  
17 neighborhoods. We must protect our neighborhoods. We  
18 must protect our city's Gateway Corridor. We must  
19 protect our historic neighborhoods. We must protect our  
20 scenic routes. We must protect the beauty of Kino  
21 Gateway Corridor.

22 TEP and its Canadian parent company must  
23 follow the established laws and put the underground line  
24 underground. Thank you.

25 CHMN STAFFORD: Thank you.

1 Up next we have Christine Villela. I'm  
2 sure I'm not pronouncing that correctly.

3 MS. VILLELA: My name is Christine Villela.  
4 It's okay. Lots of Ls. Spelled V-I-l-l-e-l-a.

5 Thank you, members of the Committee, for  
6 your time tonight. I along with my father own eight  
7 homes on East Adams Street in the North University that  
8 are along the TEP preferred alternative route. We oppose  
9 TEP's alternative route that allows high-powered  
10 aboveground lines along East Adams in this neighborhood.

11 My father, Mike Teufel, has submitted a  
12 letter to the Corporation Commission, and I ask that you  
13 carefully consider before making a decision. I didn't  
14 know what this meeting was like. I brought 12 copies if  
15 those could be passed around. I just can't know it was  
16 this big.

17 But East Adams is purely a residential  
18 street. Why TEP picked East Adams as a preferred route  
19 is a mystery to us, because there are more direct routes  
20 to the Vine Substation.

21 Regardless, TEP's own preferred alternative  
22 B and preferred 4 place some of the high-powered lines in  
23 this residential North University and Jefferson Park  
24 neighborhood underground. But when it gets to Adams  
25 Street, TEP is proposing to bring them out of the ground



1 directly over the residential houses owned by my father  
2 and me, which are rented to young students.

3 There is no reason that if the plan is  
4 approved the lines through Adams Street should not be  
5 underground. The length is less than 2,000 feet. There  
6 is nothing that would make it expensive or difficult to  
7 place these lines underground.

8 I'm not aware of any government entity that  
9 is allowed high-powered aboveground lines to go directly  
10 over preexisting residential houses where young people  
11 are living.

12 These lines are not safe for young people.  
13 The National cancer Institute has stated that various  
14 studies have shown that those high-powered lines increase  
15 childhood leukemia by 1.4 and twofold. This is not  
16 something that I'm making up. It is in detail in the  
17 letter that we sent and it's on the  
18 [cancer.gov/about-cancer/causes-prevention/risk/radiation/  
19 electromagnetic-fields-fact](https://www.cancer.gov/about-cancer/causes-prevention/risk/radiation/electromagnetic-fields-fact).

20 There is no reason that TEP, which is owned  
21 by Fortis, Inc., cannot afford to place these lines in  
22 this 2,000-foot stretch underground. In 2023 alone  
23 Fortis, which owns TEP, made \$1.5 billion in profits.  
24 Fortis has paid 50 consecutive years of increased  
25 dividend paid to shareholders. Fortis has more than 68

1 billion in assets and more than 12 billion in 2023 fiscal  
2 revenue.

3 Fortis has paid its chief executive and  
4 president, David Hutchins, more than 14 million in 2022.  
5 I ask you to do the right thing, and if you allow  
6 high-powered lines through the residential streets in  
7 North University and Jefferson Park that you require TEP  
8 to put them underground. I thank you for your time and  
9 consideration on this matter and for your public service.

10 CHMN STAFFORD: Thank you.

11 Up next we have Peg Weber.

12 Jesse Lugo does not wish to speak.

13 Are you Peg Weber?

14 MS. WEBER: I am.

15 CHMN STAFFORD: Thank you.

16 MS. WEBER: Good evening, I am Peg Weber.

17 W-e-b-e-r. I have a home in the neighborhood North  
18 University.

19 Our area, North University, is not  
20 historical. However, we're part of Tucson next to  
21 historical neighborhoods. My -- I'm sorry I did not say  
22 I was going to speak when this -- when you-all called me  
23 up.

24 It's important for our community to look at  
25 our whole community. I don't think that any of us

1 disagree that we don't need better, more efficient power.  
2 In our area, we believe it should be underground. I  
3 think for the whole city, it should be underground.  
4 Because as has been pointed out it can be afforded and it  
5 is the right thing to do.

6           There have been a lot of Tucson plans, we  
7 always say let's do the right thing. When you go to  
8 public meeting what would you like to see? And everyone  
9 says we would like to see fewer cars, we'd like to see  
10 bike lanes, we'd like to see better pedestrian things and  
11 all of the -- everyone gets excited.

12           And then that dissolves when we can't  
13 afford it. But we can afford it and we need to. We need  
14 to make our communities stronger and it's not like we can  
15 do that later. We need to do these things now, and this  
16 is one of those now things that we could do. Make the  
17 things go underground and prove the electricity as they  
18 should be and move on to the next neighborhood and the  
19 next neighborhood.

20           Because this really is a whole Tucson  
21 problem, issue, and opportunity. Thank you.

22           CHMN STAFFORD: Thank you. Sara and Earl  
23 O'Neil indicate they do not wish to speak. Kathi  
24 McLaughlin.

25           MS. MCLAUGHLIN: Good evening. My name is

1 Kathi McLaughlin, M-c-L-a-u-g-h-l-I-n.

2 I'm a licensed architect in the state of  
3 Arizona for 48 years. Planning and urban planning,  
4 architecture and urban planning have been my interests.

5 TEP is here to argue that the Arizona  
6 Corporation Commission should override Tucson's  
7 long-standing local regulations regarding utilities along  
8 scenic and gateway routes. TEP's argument -- sorry --  
9 that might be better.

10 TEP's argument rests entirely on the  
11 validity of its assertion that the cost to underground  
12 its lines is so much greater than the cost to overhead  
13 that the cost makes the project infeasible.

14 However, in other legal documents TEP has  
15 acknowledged the exact opposite, that the cost of  
16 undergrounding is indeed feasible.

17 TEP acknowledged this fact when it signed  
18 its current franchise contract with the City of Tucson.  
19 In that contract, TEP explicitly agrees to underground  
20 its utility projects at its own expense wherever the City  
21 had required undergrounding prior to the execution of the  
22 contract, which is the case here. And that the costs for  
23 undergrounding will not be a limiting factor or argument  
24 against undergrounding.

25 TEP must have understood that the costs of

1 undergrounding are feasible or it could never have  
2 entered this contract with the City. Or worse, it  
3 entered into the contract in bad faith.

4 Tucson requires undergrounding of utilities  
5 within the city in only a few circumstances, and the  
6 reason TEP could sign the contract in good faith is  
7 because the cost to underground is, in fact, feasible.

8 Take TEP's own estimates for the cost of  
9 undergrounding the project, setting aside for the moment  
10 that the estimates are likely inflated, divide the costs  
11 by the number of ratepayers and then spread the cost per  
12 ratepayer over the actuarial life of the project. And  
13 the result would be -- wouldn't come anywhere close to  
14 even 1 percent increase of a \$100 TEP utility bill.

15 So less than one percent cannot be  
16 considered infeasible.

17 And for those low-income Tucsonans who  
18 might have problems with even a tiny increase in their  
19 electric bill, there are programs available that would  
20 offset that extra cost.

21 So when TEP tells this Commission that the  
22 cost of undergrounding is so infeasible that it warrants  
23 the ACC overriding duly enacted local regulations, it is  
24 simply not the truth.

25 The Kino-Campbell scenic route is the only

1 scenic route actually constructed to be a scenic route.  
2 This happened in 1985. It became the gateway from the  
3 airport into the heart of the city with Campbell Avenue  
4 extending all the way to the Catalina mountains. It's  
5 the only avenue that does that in the entire city.

6 Tucsonans paid for that pathway to remain  
7 beautiful and inviting. Uglifying it with monstrous TEP  
8 infrastructure would be tragic. And now TEP wants to  
9 renege on a binding commitment it made to Tucson when the  
10 City extended TEP's franchise. Please hold TEP  
11 accountable for its promise.

12 CHMN STAFFORD: Laurie Mulcahy does not  
13 wish to speak.

14 Tony Pyle does not wish to speak.

15 Herman Weez does not wish to speak.

16 Meg Johnson does not wish to speak.

17 Nancy DeFeo does wish to speak.

18 MS. DEFEO: Nancy DeFeo, D-e-F-e-o.

19 TEP has assured you that the construction  
20 of 138kV transmission lines will have no impact on nearby  
21 property owners and has submitted a study to that effect.

22 There are a few points in that report that  
23 I'd like to refute.

24 Important point 1: The report implies that  
25 transmission lines, the height and size proposed by this

1 project, are already common in the center of the city.  
2 This is false. Their study contains no such examples in  
3 the center of the city of either a transmission line or  
4 of any other line higher than 60 percent of the proposed  
5 lines.

6                   Important point 2: Half the studies done  
7 on 138kV transmission lines conclude that those lines do  
8 reduce nearby property values. Therefore a reasonable  
9 conclusion is that at least some or many property owners  
10 will suffer reductions in their property values.

11                   Approximately 2,000 residential property  
12 owners live within two blocks of the proposed project on  
13 roadways where the City requires undergrounding. The  
14 study reporting property value reductions find that the  
15 drop in property value averages about 5 percent.

16                   Example: If even one-half of affected  
17 property owners end up with a loss of 5 percent, it would  
18 mean a total loss of \$20 million in property values to  
19 those Tucsonans based on the median price of Tucson  
20 homes. That big loss might be the best-case scenario.

21                   Important point three: TEP says the effect  
22 of value reduction lasts only four to six years and then  
23 disappears. Even if that was true, and it is contested  
24 by many studies, it will still cost all those residents a  
25 lot since the average duration of home ownership in the

1 country is only about eight years.

2 Therefore a fair number of those affected  
3 owners will likely sell their homes within four to five  
4 years. It would cost each of those hundreds of Tucsonans  
5 about \$20,000 on average at the median home price.  
6 That's a huge loss of money for a typical family to bear,  
7 and the majority of Tucsonans along the proposed route  
8 are typical average families.

9 Most important point four: When the  
10 Committee is thinking about fairness to ratepayers,  
11 remember these ratepayers, who many studies show could  
12 well lose many thousands of dollars if the project is  
13 built aboveground. Compare that great loss to a  
14 differential cost of maybe a dime to a dollar a month to  
15 all ratepayers if the project is constructed underground.

16 CHMN STAFFORD: Up next, Christy Cummins.

17 MS. CUMMINS: Good evening, and thank you  
18 for providing this opportunity for us to speak. As you  
19 can tell the majority have been comments about wanting  
20 the lines to be underground.

21 CHMN STAFFORD: Can you please state your  
22 name and spell the last name for the record? Thank you.

23 MS. CUMMINS: I'm sorry. Christy Cummins.  
24 C-u-m-m-I-n-s.

25 The majority have been asking for



1 underground. I was lucky enough to go with my husband to  
2 the TEP meetings that spoke to the neighborhoods that  
3 would be affected by such a situation.

4 At each meeting we all begged and pleaded  
5 for undergrounding, and it became clear that it would  
6 never happen. And they told us directly it will never  
7 happen, it's way too expensive. So we worked hard on  
8 trying to route this -- this situation, find the best  
9 routes. There are no best routes because all of them  
10 will go through somebody's neighborhood. So you have to  
11 pick somebody else's neighborhood for it to go through,  
12 which was very unfair.

13 My objection to the whole aboveground is  
14 the situation I have seen on Grant going east, on Fort  
15 Lowell, if you start looking around our streets they have  
16 been putting up these ginormous poles and they are  
17 hideous. And I don't see any solution. This seems to be  
18 the only thing they can do is put up those humongous  
19 poles that are nothing but a visual abomination.

20 So my objection is visually any of these  
21 things above the ground have been awful and they have  
22 impacted me. They have impacted our neighborhoods. Even  
23 though they're -- most of them are on major streets, but  
24 they're all up Tucson Boulevard which has a lot of  
25 neighborhoods in that. So my objection is aboveground is

1 so bad looking that it affects -- it makes our city look  
2 like third-world country and I have lived in third-world  
3 countries. Thank you.

4 CHMN STAFFORD: Thank you. Up next we have  
5 Jim Cummins.

6 MR. CUMMINS: My name is Jim Cummins,  
7 spelled exactly like the lady before me, C-u-m-m-I-n-s.

8 I was the neighborhood representative for  
9 the Richland Heights East neighborhood for this advisory  
10 group with TEP. My neighborhood is on the far northeast  
11 periphery of the study area, but nonetheless we were -- I  
12 was engaged with them and I thank TEP for having that  
13 advisory group. At least we could understand the project  
14 and see what was going on.

15 As I've heard from many of the other people  
16 that were engaged with this, I would say that nobody was  
17 happy with the final solution, even though we all  
18 probably agreed that the project needed to go ahead.  
19 It's additional power requirements in all these  
20 neighborhoods, it's a fact of life that we're using more  
21 and more of this electricity.

22 The solutions that have come up with are  
23 always going to impact neighborhoods. The only way to  
24 not -- to minimize that impact is to put them  
25 underground. I'm sure that this Committee, the ACC, the

1 City of Tucson, there's all rules and regulations that'll  
2 say, gee, we can't do that, we can't force this. But  
3 it's something that needs to start somewhere and this  
4 Committee could be one, it could be the ACC, it could be  
5 TEP's parent company saying, you know, we have enough  
6 money, we can do this and make it better.

7 And lastly, I just finished a week-long  
8 tour with a college buddy of mine of northwest New  
9 Mexico, southwest Colorado, some beautiful communities  
10 that we saw. And one of the things that struck me was  
11 throughout these communities, you saw very little  
12 aboveground utilities. And it's not just power lines  
13 it's cable lines, it's telephone lines. All these  
14 things.

15 Once you start to notice it, you see it  
16 everywhere. And I'm hoping this Committee could help  
17 drive some change in the organizations, in Tucson's  
18 directives, and in TEP's parent company and make a  
19 difference now and try to get this stuff underground.  
20 Thank you.

21 CHMN STAFFORD: Thank you.

22 Up next we have Gayle Hartmann.

23 MS. HARTMANN: Mr. Chairman, I think it is  
24 Mr. Chairman.

25 CHMN STAFFORD: Yes.

1 MS. HARTMANN: And members of the  
2 Committee, my name is Gayle Hartmann, G-a-y-l-e  
3 H-a-r-t-m-a-n-n.

4 I'm president of the Sam Hughes  
5 Neighborhood Association. We are a Midtown neighborhood  
6 bounded by Campbell Avenue, Country Club Avenue, Speedway  
7 Boulevard, and Broadway Boulevard.

8 Tucson Boulevard bisects our neighborhood.

9 Originally the huge poles that are proposed  
10 as part of this project were to run along Campbell  
11 Avenue, our western boundary. More recently Tucson  
12 Boulevard has been proposed as an option that would  
13 bisect our neighborhood. Our neighborhood is strongly  
14 opposed to this proposal of TEP.

15 I want to point out initially that a  
16 statement by TEP in a recent information card that we  
17 received is really misleading. It states, "Using input  
18 from Midtown residents and other stakeholders, TEP  
19 identified several potential overhead transmission line  
20 routes."

21 The several potential overhead transmission  
22 line routes were presented by TEP, but they were not  
23 agreed upon by Midtown neighbors. I'm sure you know that  
24 in reality there is a strong feeling among the residents  
25 in our neighborhood and other neighborhoods that the

1 proposed lines need to be underground.

2           Underground is common in many parts of the  
3 country as the recent speaker just mentioned, and we are  
4 convinced that that is the only reasonable solution here.  
5 Also, as others have pointed out, undergrounding seems to  
6 be economically feasible.

7           I'm sure you know that there's more than  
8 one local ordinance that clearly states the industrial  
9 poles that this project plans to use have no place on  
10 several of our streets.

11           We have a University Area Plan and the  
12 scenic gateway and route ordinance are both examples that  
13 make it very clear that undergrounding is required. And  
14 these ordinances have been in place for a number of  
15 years. TEP certainly knew of their existence and  
16 therefore should have planned to underground their lines  
17 from the beginning.

18           In addition, I note that when considering a  
19 certificate of compatibility, historic sites and  
20 structures need to be taken into account. The Sam Hughes  
21 neighborhood and other neighborhoods are historic  
22 neighborhoods and are on the National Register of  
23 Historic Places. The huge poles being proposed have no  
24 place in or near any historic neighborhood.

25           I want to make it clear that we are not

1 suggesting that the project as proposed should be sited  
2 somewhere else. A recommendation that was put forth some  
3 months ago proposed that aboveground poles would be  
4 acceptable in industrial areas, but that in all other  
5 locations the poles need to be underground. We concur  
6 with that proposal and hope you will as well. Thank you.

7 CHMN STAFFORD: Thank you. Up next is  
8 Jonathan Salvatierra.

9 MR. SALVATIERRA: Mr. Chairman, as a point  
10 of information --

11 CHMN STAFFORD: Can you please get to the  
12 microphone?

13 MR. SALVATIERRA: Mr. Chairman, as a point  
14 of information, how many more speakers are left?

15 CHMN STAFFORD: Let's see.

16 MR. SALVATIERRA: There's been about 30 to  
17 40 percent that declined.

18 CHMN STAFFORD: I have nine names on the  
19 sign-in sheets that have indicated they want to speak and  
20 then I don't know how many we have either on the phone or  
21 on the Zoom call.

22 MR. SALVATIERRA: Okay. I have a single  
23 one-page summation and I'd like to finish it.

24 CHMN STAFFORD: Well, let's start by  
25 getting your name and spell your last name for the

1 record, and then you can commence with your remarks.

2 MR. SALVATIERRA: Thank you. My name is  
3 Jonathan Salvatierra, S-a-l-v-a-t-I-e-r-r-a.

4 Commission members, stakeholders and  
5 public, I'm a retired railroad conductor, an active  
6 licensed real estate broker, Democratic LD20 PC 246  
7 member, specializing in community health and environment  
8 advocacy, as well as over 20 years with the Citizen  
9 Advisory Board as a member on the Mission Linen-Park  
10 Euclid HAZMAT superfund site.

11 My experience from these endeavors over a  
12 lifetime as a native Tucsonan gives me a unique view of  
13 the challenges and the dismal benefits gained when  
14 industry, ADEQ, and civil servants fall short of safety  
15 guarding the quality of Pima County residents' health,  
16 environment, and economic liability risk exposure. And  
17 this may be in some related elements historic.

18 Many U.S. -- many U.S. -- well, Tucson  
19 citizens remember the scenic sunrise butte of the Enron  
20 era when TEP at their Irvington plant made a million  
21 dollars of revenue each night generating California  
22 energy needs. TEP got the money and we got the sooty  
23 sunrise to breathe.

24 This facility must not be permitted to sell  
25 energy outside of Pima County needs. Our regular ozone

1 alerts, moderate to poor air quality and unnecessary  
2 deadly silent killers of our youth and seniors.

3 So is the long-standing public  
4 disinformation on the overhead energy poles cost basis  
5 versus undergrounding cost and lower maintenance.

6 The Shannon and Ina Roads two-week closure  
7 from the verified -- a verified tornado is one of the  
8 more scenic and road hazard issues threatening our public  
9 health and safety.

10 TEP murder poles exist along Euclid,  
11 Country Club, and Alvernon, mere inches from city street  
12 curbs. Safety is second to profit along our city streets  
13 without bike lanes.

14 TEP's renewable wind and solar are  
15 dwindling benefit to homeowners, but look invitingly  
16 interesting as their dog and pony show TV ads.

17 TEP's 2050 renewables projection will leave  
18 Tucsonans the last to ever benefit from new technology.

19 Finally, TEP as a proxy for foreign-owned  
20 parent Fortis took \$1.6 billion out of this country and  
21 Pima County in 2022, while every public franchise fee  
22 dollar we pay for gets surcharged 12 percent more before  
23 the asset or benefit becomes a converted asset of Fortis.

24 It is my fervent hope that this Commission  
25 denies and refuses to be bound to the -- to comply with



1 TEP's misleading rhetoric. Until the state, county and  
2 city can review TEP as a short-term subcontractor in  
3 transition to a commonwealth public energy group that  
4 keeps the new assets we safely underground for our  
5 continued scenic public safety and cost benefit solution.  
6 That's all I have. Thank you.

7 CHMN STAFFORD: Thank you. All right.

8 Margaret Kish does not wish to speak.

9 Rhonda Baga does not wish to speak.

10 Pat Homan does not wish to speak.

11 Evelyn Thomas has a question mark.

12 MS. THOMAS: My comments have already been  
13 made by many other people.

14 CHMN STAFFORD: So Evelyn Thomas does not  
15 need to speak.

16 Vytas Sakalas.

17 MR. SAKALAS: Thank you. Thank you. My  
18 name is Vytas Sakalas, spelled S-a-k-a-l-a-s.

19 I'm a 32-year resident of the city of  
20 Tucson in the Sam Hughes neighborhood, and a member of  
21 the Sam Hughes Association Board of Directors.

22 Upgrading the existing power lines in the  
23 city of Tucson is not in dispute. That is necessary.

24 However, we ask that TEP respect the wishes  
25 of the people of Tucson. By the way, Phoenix, Tempe,

1 Scottsdale, and even downtown Tucson enjoy underground  
2 power lines, so it's only fair that we get them in our  
3 scenic corridor areas as well.

4 Because we care about how our city looks.  
5 TEP is apparently in deep denial of aesthetic values that  
6 are important to any city, and Tucson residents agree on  
7 that in general.

8 Industrial-scale power poles are not  
9 appropriate in Midtown Tucson. We ask that TEP serve the  
10 residents of Tucson first instead of seeking to extract  
11 the most profits for a relative handful of out-of-state  
12 and foreign investors.

13 Tucson's underground coalition has  
14 conducted an extensive in-depth study of the issue and  
15 concluded that undergrounding the upgraded power lines is  
16 very feasible. And it would be the most appropriate  
17 solution. It's a solution that would be in accord with  
18 the law preserving our city's viewshed, the Gateway  
19 Corridor, and property values are vital to the City of  
20 Tucson. Thank you.

21 CHMN STAFFORD: Thank you. Paula Chalmsky  
22 said she does not wish to speak.

23 Diana Lett.

24 MS. LETT: My name is Diana Lett, my last  
25 name is spelled L-e-t-t.

1 I am the treasurer of Feldman's  
2 Neighborhood Association and the chair of our  
3 Neighborhood Preservation Committee. I'm seeing that  
4 people can't hear me. Is that true?

5 Again, I'm the treasurer of Feldman's  
6 Neighborhood Association and the chair of our  
7 Neighborhood Preservation Committee.

8 I want to explain an aspect of the cost to  
9 residents that has not been elucidated by the previous  
10 speakers. Historic district, National Register historic  
11 districts exist to preserve the historic streetscape. If  
12 you put giant power poles in front of historic buildings,  
13 not only do the individual buildings lose their National  
14 Register listing, the entire streetscape loses its  
15 listing and potentially the entire neighborhood.

16 Whenever individual structures lose their  
17 listing, that's an approximately 50 percent increase in  
18 property taxes automatically.

19 If an entire district loses its listing  
20 every property in that district loses its tax break.

21 This is a very big deal for people trying  
22 to age in place. We really want you to understand that  
23 this is a big part of why neighborhoods really vehemently  
24 object to abovegrounding power lines on neighborhood  
25 streets and historic districts. It is a huge burden,

1 economic burden on the citizens. Thank you.

2 CHMN STAFFORD: Up next we have Andrew  
3 Christopher.

4 MR. CHRISTOPHER: Hello, can you hear me?

5 CHMN STAFFORD: Get a little closer to the  
6 mic, please.

7 MR. CHRISTOPHER: Is this good?

8 CHMN STAFFORD: That's better. Thank you.

9 MR. CHRISTOPHER: I'm Andrew Christopher,  
10 common spelling. I'm a Commissioner on the Tucson-Pima  
11 County Historical Commission. We sent a letter to the  
12 ACC dated July 1, 2024. I would encourage you all to  
13 read it. It outlines dozens of neighborhoods and  
14 historic districts and assets that this potential route  
15 would impact. However, I'm not going to be speaking on  
16 behalf of the Commission tonight. Somebody else will  
17 later in the evening.

18 I am also the president of the Arroyo Chico  
19 Neighborhood Association, and I was in the Neighborhood  
20 Association Advisory Group that met with TEP several  
21 times.

22 One thing that we all agreed on was there  
23 was no proposed route that we could unanimously support.  
24 All the routes impacted one group or another, and if you  
25 shove the route away from one asset you impact another.

1                   So in these meeting we learned a lot of  
2 revealing information from TEP. One of them being that a  
3 lot of their substations are equipment exceeding 50 and  
4 60 years old. Many of them rated in TEP's own assessment  
5 in poor or in very poor condition. As many of you know  
6 we experience regular power outages when we have major  
7 storms, and in extreme cases we have a whole blocks of  
8 power lines failing into traffic.

9                   So as TEP is so concerned with reliability,  
10 a good place to start would be properly maintaining the  
11 infrastructure that they already have and that we already  
12 pay them to maintain.

13                   We have been told that the demand for  
14 electricity has gone up citywide across all consumers.  
15 But the location of the Vine Substation should tell you  
16 all you need to know about where the real demand is  
17 coming from. The University of Arizona builds another  
18 multi-story research building every couple of years and  
19 another multi-story student housing complex goes up at  
20 about the same rate. However, the U of A and big  
21 developers like that pay lower rates for their power than  
22 the average residential citizen.

23                   TEP makes hundreds of millions of dollars  
24 in profit every year, yet they claim they can't afford to  
25 do the right thing and underground these lines. It's

1 time that they pay up and make their industrial consumers  
2 pay their fair share. Thank you.

3 CHMN STAFFORD: Thank you. Charles Vernon  
4 does not wish to speak. Geoff Boyce.

5 MR. BOYCE: Thank you, all. My name is  
6 Geoff Boyce, B-o-y-c-e.

7 I am a homeowner and resident in Pie Allen  
8 neighborhood. I have been following this process for a  
9 long time, and I am really -- I'm here to voice really a  
10 feeling that I know many of my neighbors share, which is  
11 being kind of despondent and certainly upset that at the  
12 end of many years of conversation and engagement by all  
13 of the neighborhoods impacted by the proposed line siting  
14 that the option of undergrounding these lines, which I  
15 think is almost a consensus certainly among the people  
16 who have spoken tonight, you hear this over and over and  
17 over again, has been dismissed by TEP, is not on the  
18 agenda now as a solution for this infrastructure project.

19 As you've been hearing, many of the  
20 neighborhoods that are going to be impacted by these new  
21 transmission lines are historic neighborhoods and the  
22 scale of these transmission towers is way out of scale  
23 with the historic neighborhoods that they're going to run  
24 through.

25 I frankly think it's outrageous that there

1 is a feasible solution that is broadly supported by the  
2 Tucson community, by the residents who are adjacent to  
3 this project that is not seriously being considered by  
4 TEP and I -- I sincerely hope they will -- they will  
5 revisit that question and that this Commission will use  
6 whatever leverage it has in order to insist that they  
7 revisit that option. Thank you.

8 CHMN STAFFORD: Thank you.

9 Ryland Plassman does not wish to speak.

10 Tom Baca does not wish to speak.

11 Donnie Carroll does not wish to speak.

12 Kevin Bitten.

13 MR. BITTEN: Hello, my name is Kevin  
14 Bitten, I'm president of the Pie Allen Neighborhood  
15 Association, and I'm here to encourage the Commission to  
16 not certify this project, and represent Pie Allen in that  
17 respect.

18 I'd like to start with an anecdote. When a  
19 representative of Tucson Electric Power came to our  
20 neighborhood meeting and we discussed this, the obvious  
21 solution seemed to be to underground these lines. And  
22 when I mentioned that to the person who was representing  
23 TEP, what he said was, well, the Corporation Commission  
24 has deemed it unsuitable for us to charge our customers  
25 the costs there would be to underground the lines, so

1 that's not feasible.

2 I'd like to read something for you from an  
3 article entitled "TEP Seeks Rate Hike Despite Company's  
4 Rising Profits," published in the Arizona Capitol Times.

5 In 2020 TEP's profit or revenue above costs  
6 was 191 million. That jumped to 201 million in 2021, 217  
7 million in 2022. These increasing profits came despite  
8 high inflation and other pandemic-related economic  
9 stresses that have burdened many individuals and  
10 businesses.

11 I'd like to point out also to everyone that  
12 for TEP, there really is only one responsibility and  
13 that's their fiduciary responsibility to their  
14 shareholders. The same is true of Fortis. And in our  
15 system of government and economy, it's contingent on  
16 democratic institutions like the Corporation Commission  
17 to be the only counterweight against that sole value for  
18 a corporation.

19 Legally, a corporation's board, their only  
20 responsibility, in fact, they're negligent if they don't  
21 serve this responsibility, is to serve the profitability  
22 of the corporation in order for the shareholders to  
23 increase in value.

24 And they would actually be negligent if  
25 they failed to do that. If they could get 200 million



1 out of us they will, if they can get 400, it's their  
2 responsibility to get 400. If they can get 600, their  
3 responsibility is to get 600. They have no  
4 responsibility to our community or to whether it's  
5 beautiful or livable or anything like that.

6 And I don't begrudge them that. That's  
7 their job. It is the Arizona Corporation Commission's  
8 job to be our representative and put some constraints on  
9 that board, so they can go to their shareholders and say,  
10 well, we would have gotten 600 million but that Arizona  
11 Corporation Commission made it now we can only get 200  
12 million.

13 So I encourage you to think about the  
14 people of Tucson and that we really -- you're our only  
15 representative at this point in this fight. We have  
16 passed a local law. But apparently that can be  
17 overridden on a state level.

18 So you're really, you're our only advocates  
19 at this point. So please keep our perspective in mind.  
20 Thank you.

21 CHMN STAFFORD: Thank you. Henry  
22 Schnecklin does not wish to speak.

23 Stacey Plassmann does not wish to speak.

24 Paula Chronister.

25 MS. CHRONISTER: Hi, my name is Paula

1 Chronister, it's spelled C-h-r-o-n-I-s-t-e-r.

2 I've been involved with this process over  
3 the last year. I've attended every public meeting we've  
4 had. I've also served on the advisory group as a  
5 representative from the Palo Verde Neighborhood  
6 Association, of which I serve on the board there.

7 The Palo Verde Neighborhood Association is  
8 not directly benefitting from this, but it actually sits  
9 on the -- it's actually east of Country Club, so it's  
10 right on the edge of the service area for here and as a  
11 result of that TEP reached out to us to get involved.

12 One of the things that you've heard and  
13 I've heard literally everywhere I've been has been this  
14 idea of undergrounding. This is not a new idea.  
15 Every -- literally every time there has been an open  
16 forum on this, probably 99 percent of the people spoke to  
17 undergrounding.

18 Gayle Hartmann came up here and spoke and I  
19 agree with her, which is the idea you can actually put  
20 certain kinds of thing overhead in industrial areas and  
21 go underground in town. And I think that's a good  
22 solution. I liked what the last speaker had to say which  
23 is you guys are our representative now.

24 We've given all the input, we've actually  
25 had the opportunity to provide through this period of

1 time and we're now asking you to really think about the  
2 quality of life in Tucson and, you know, what the Tucson  
3 citizens actually want with this.

4 And this, again, has been just a consistent  
5 request not only through this TEP process but through the  
6 TEP process that I think happened, what, three years ago,  
7 six years ago, five years. Five years of the same  
8 request going on.

9 So please take this into consideration and  
10 recognize what the residents want. And that there is a  
11 solution that we can come together on, but TEP actually  
12 has to, you know, come forward with some additional funds  
13 or initial innovations in how we do things.

14 TEP also with the advisory group did talk  
15 about mitigations, that in the event that they got  
16 approval to be able to move forward that they would  
17 actually work with neighborhoods to actually look at  
18 mitigating certain kinds of things.

19 Those things could look like painted poles.  
20 You go out on Sunrise in this town and you'll see poles  
21 painted, and they sort of start to disappear. It looked  
22 like working with people around vegetation actually  
23 trying to make things much more visually palatable  
24 regarding things. And I would encourage in the event you  
25 actually do move forward with this that you actually ask

1 TEP to work very diligently with the communities affected  
2 in terms of actually implementing those mitigations.

3 Thank you.

4 CHMN STAFFORD: Thank you. Up next we have  
5 Matt Somers.

6 MR. SOMERS: Sorry, Chairman Stafford, I  
7 decided to go and make some comments. My name is Matt  
8 Somers, S-o-m-e-r-s.

9 I have a few points to make. First of all,  
10 let's have a reality check on a couple things.

11 I would love to go ahead and have it  
12 undergrounded easily. Problem is we've already gone  
13 through the Broadway widening. It took one year to go  
14 one mile. According to the past history on this, there  
15 has been noted that it's five miles, it will take  
16 approximately five years to underground.

17 In order to get the underground, it's got  
18 to be a culvert 20 feet wide and 10 feet deep, because of  
19 the size of the line. Which means if you're trying to go  
20 on any street you're going to take out traffic for  
21 literally years. It's going to be awful. Having worked  
22 at the water department, you're going to find utility  
23 lines underground that you didn't even know about. So I  
24 love to have undergrounding but there is a problem with  
25 it.

1 I do understand that the preferred line is  
2 B4. I believe it's called B4. I would suggest C5. C5  
3 goes down Stone from Grant, east on Speedway, comes back  
4 on Speedway, goes back down Stone and goes towards the  
5 downtown area. I believe this would be the best way to  
6 mitigate any problems with the neighborhoods that are  
7 represented today and have been represented in the past.

8 Okay. Especially for the reason that B4  
9 won't work real well is because you have 40,000 students  
10 going to the U of A with 15,000 approximate support  
11 staff.

12 So therefore, you're going to have huge  
13 amount of people walking, driving, using their electric  
14 bikes and everything else all over the place. With these  
15 lines that are approximately 10 feet wide at the base,  
16 you are going to have visual problems on traffic. That  
17 would be awful on Euclid. I hate to go and say to use  
18 Stone but Stone is not used anywhere near as much. Okay.

19 And then, let's see here. The substation  
20 that is supposed to be on Vine is going to use one of the  
21 most deadly chemicals out there in order to exist.

22 Since they can't put five acres together to  
23 make it an outdoor substation and only two acres at the  
24 best, they're going to use a chemical that's going to  
25 have 200,000 times as bad in carbon emissions if you have

1 one cubic foot, if that is released, one cubic foot of  
2 that chemical it's going to wipe out over 200,000 cubic  
3 feet of air. That's how dangerous that is.

4 Europe has some substation chemicals for  
5 the same thing that is nowhere near as damaging to the  
6 environment and nowhere near as dangerous. I believe  
7 that needs to be also considered in this.

8 Okay. Again, I would love to go and have  
9 it underground in some wonderful way that could be done  
10 by magic. But it will not, and as I say it will be five  
11 years of problems with the -- with the traffic in the  
12 area.

13 Okay. Please do not use Euclid, though.  
14 That is one that would be awful.

15 Okay.

16 CHMN STAFFORD: You're over three minutes,  
17 sir.

18 MR. SOMERS: Oh, well, thank you and good  
19 luck.

20 CHMN STAFFORD: Thank you very much.

21 Up next we have Kim Franklin, who is a  
22 maybe. All right. None from Ms. Franklin. Joe  
23 Plassmann is a no to speak.

24 Jennifer Becker does not wish to speak.

25 Is it Mindy Bassie does not wish to speak.

1 Stephen Yozwiak.

2 MR. YOZWIAK: Hello, everyone.

3 Mr. Chairman. So I don't live --

4 CHMN STAFFORD: Can you state your name and  
5 spell your last name for the record, please.

6 MR. YOZWIAK: Yes.

7 CHMN STAFFORD: Thank you.

8 MR. YOZWIAK: Stephen Yozwiak, it's  
9 Y-o-z-w-I-a-k, and I don't live anywhere near this  
10 proposed project. I live up in northwest Tucson. But I  
11 come down to visit friends and family all the time along  
12 the proposed routes of this project.

13 And I'm back in the Tucson two years ago  
14 from Phoenix, in part because I finally remembered as a  
15 student at U of A the beauty of the mountains surrounding  
16 the Old Pueblo, and it hurts me to consider how the  
17 viewscape of the Catalina mountains will be permanently  
18 compromised by this proposal.

19 I've been to the informational open houses,  
20 read the maps and the literature, talked to many experts  
21 about this proposal, and I object. I conclude that it's  
22 exceedingly possible to put these lines underground.  
23 Now, sure it will maybe cost a bit more. But don't think  
24 of it as a cost. Think of it as an investment. An  
25 investment in the future.

1           These tall poles and lines you're  
2 proposing, they would degrade not the nearby property  
3 values, but also in turn erode the value of adjacent  
4 properties leading to a cascading effect of dwindling  
5 desirability of the entire central city. This is simply  
6 unconscionable and extremely shortsighted.

7           If you approve this, what will you tell  
8 your children and grandchildren when they learn that you  
9 could have made a difference, that you could have made  
10 their world better? Let me say with the firmest  
11 resolution I can muster, I object to the Corporation  
12 Commission approving the proposed overhead lines  
13 recommended by TEP.

14           The preference of the multitude of  
15 residents who oppose this project must be heard and  
16 followed. We have an election coming up in November and  
17 if this is approved by the Corporation Commission, it  
18 will give the residents of this state, the voters one  
19 more reason to vote out the current regime and elect  
20 three Democrats to run the show now. Thank you very  
21 much.

22           CHMN STAFFORD: Thank you. I don't have  
23 any more sign-in sheets with public requesting to speak.  
24 Do we have anybody on the Zoom or on the phone?

25           A/V TEAM: Mr. Chairman, I have five online



1 participants who have indicated they wish to speak.

2 CHMN STAFFORD: Let's take the first one.  
3 I can't see any names to call.

4 A/V TEAM: Mr. Chairman, first will be  
5 Molly McKasson.

6 CHMN STAFFORD: Hello, Molly, can you hear  
7 us?

8 MS. MCKASSON: Yes.

9 CHMN STAFFORD: Can you please state your  
10 name and spell your last name for the record.

11 MS. MCKASSON: Yes. Thank you,  
12 Mr. Chairman. Thank you, Committee members. My name is  
13 Molly McKasson, M-c-K-a-s-s-o-n. I'm a long-time  
14 resident of Midtown Tucson.

15 State law specifically identifies a list of  
16 factors that the Line Siting Committee should consider  
17 when deciding upon a proposed project. Most of the  
18 factors suggest that the project can be permitted to cost  
19 more if the expense avoids inflicting a negative effect  
20 on a factor that the law includes in the list.

21 Overheading the Midtown Reliability Project has a serious  
22 negative impact regarding three of the factors on the  
23 list.

24 For one, the project would violate the very  
25 first factor regarding the presence of official city

1 plans for future development. Tucson has enacted plans  
2 for gateway and scenic routes and for the Tucson  
3 University Area Plan that specifically call for the  
4 undergrounding of new ultimate lines within those areas,  
5 plans which overheading the project clearly violates.

6           The fifth factor suggests -- asks that the  
7 Line Siting Committee give consideration to scenic areas  
8 which is the very purpose of the gateway and scenic  
9 routes. The factor also directs the Committee to give  
10 consideration to the historic sites. The proposed  
11 project runs along or straight through a number of Tucson  
12 neighborhoods dating from the 1800s, they're additional  
13 designated historic neighborhood zones and that not  
14 coincidentally are also covered by the University Area  
15 Plan policy that no new utilities be constructed  
16 overhead.

17           The sixth factor calls for giving special  
18 consideration to the area's total environment. The  
19 health of the economy is a key element of everyone's  
20 total environment. Tourism is central to Tucson's  
21 economy. So is the ability to attract new businesses and  
22 jobs to Tucson. Both of these are jeopardized by having  
23 a string of 100-foot structures and transmission lines  
24 going straight through the heart of the city.

25           The factors the Committee is required to

1 consider give it the power to reject the power that does  
2 not adequately address these factors when there's a  
3 feasible alternative. We believe there is a feasible  
4 alternative when you've heard us tonight.

5 In terms of both technological ability and  
6 cost, the alternative is undergrounding where the City  
7 requires which is what TEP committed to do when it signed  
8 its last franchise contract with the City.

9 Thank you for recognizing that this project  
10 goes against state law. Thank you so much.

11 CHMN STAFFORD: Thank you.

12 A/V TEAM: Mr. Chairman, next I have Betsy  
13 Larson.

14 CHMN STAFFORD: Betsy Larson.

15 MS. LARSON: Hello, Chairman Stafford. My  
16 name is Betsy Larson, L-a-r-s-o-n.

17 I am president of the West University  
18 Neighborhood Association. First and foremost, we fully  
19 understand the need for updated infrastructure. The  
20 U of A, Banner and student towers have stressed our  
21 historic areas' infrastructure.

22 However, Tucson should not be forced to  
23 accept overhead lines through and above our core economic  
24 centers, historic zones, schools and homes. All routes  
25 presented will have a negative impact to our Old Pueblo.

1 For example, look at the preferred route.  
2 It will place the pole in lines across Speedway. It is  
3 the major route for students and parents and others  
4 coming to give our tax dollars who expect a beneficial  
5 town or a beautiful town and campus. Instead their first  
6 impression will be industrial poles and wires.

7 Coming from the south, the poles will graze  
8 elementary and high schools, leading across an iconic  
9 area known was the University Boulevard Bay Gate Square.  
10 This corridor is the main hub for all things U of A.  
11 It's ridiculous to think that TEP finds it reasonable to  
12 place the lines above such a busy and dense economic hub.

13 Because of our area's challenges, multiple  
14 zoning protections have been created. All neighborhoods,  
15 corporations and even the U of A must comply with the  
16 zoning protections afforded by the historic preservation  
17 zones, University Area Plan and Main Gate overlay. Why  
18 should TEP be exempt from these rules?

19 TEP customers deserve to have an Old Pueblo  
20 that they can be proud of. I beseech you, Chairman  
21 Stafford and fellow Commissioners, to hold TEP, UniSource  
22 and Fortis accountable. Tucson deserves better. Thank  
23 you.

24 CHMN STAFFORD: Thank you.

25 A/V TEAM: Mr. Chairman, next is Tim

1 Hagyard speaking on behalf of the Pima County Historic  
2 Commission.

3 MR. HAGYARD: Hi, my name is Tim Hagyard,  
4 H-a-g-y-a-r-d. And I'm a Commissioner on the City of  
5 Tucson-Pima County Historic Commission. And just our  
6 stance on the over -- overhead routing. We don't feel  
7 that -- we feel the routes under consideration have a  
8 negative impact on the existing historic neighborhoods  
9 and the community of Tucson and our historic and cultural  
10 resources.

11 We don't -- we don't feel that there is any  
12 of the routes that are available are not going to have a  
13 negative impact on the historic neighborhoods and our  
14 cultural resources.

15 And so there's been a lot of talk about the  
16 economic -- you know, the reliability of the electricity  
17 system, and I think nobody's against reliability of the  
18 electrical system.

19 But what we are against as a community is  
20 the impact, the negative impact of the economic, the  
21 historic, and cultural resources that it will negatively  
22 impact. If the conversation was are we going to put  
23 these lines through the Saguaro National Monument, it's a  
24 clear -- it's a clear idea that this is going -- would  
25 have a negative impact on the Saguaro National Monument.

1 You know, that it diminish it, it would -- and that's  
2 what -- that I feel and the historic mission feels it's  
3 going to diminish our neighborhoods.

4 So we don't feel that there is a route  
5 that's going to make -- that's -- that's going to have a  
6 positive impact on Tucson, and we think that the best  
7 alternative is to look to other resources or  
8 undergrounding of the system. Thanks.

9 CHMN STAFFORD: Thank you.

10 A/V TEAM: Mr. Chairman, next is Meredith  
11 Aronson.

12 MS. ARONSON: Hello, good evening, and  
13 thank you for making time for a public session today. My  
14 name is Meredith Aronson, A-r-o-n-s-o-n.

15 I had the pleasure of serving with the TEP  
16 Neighborhood Working Group. I am no longer part of my  
17 neighborhood association and not representing that  
18 organization in my comments tonight.

19 I would like to echo very strongly Molly  
20 McKasson's earlier comments with regard to the  
21 responsibilities of the Committee. I think we often put  
22 into contrast business needs relative to neighborhood or  
23 community needs.

24 And in this context, I believe it's  
25 important to remember quality of place, which has been

1 talked about a lot tonight, is as important to economic  
2 development as all of the other factors that folks like  
3 our chamber of commerce focus on.

4 The quality of place attracts businesses  
5 because it is a beautiful place for families to come and  
6 live. So it's not simply an aesthetic, it is part of a  
7 foundational aspect of our economy locally.

8 The fact that we have ordinance to protect  
9 our gateway and scenic corridors is essential in this  
10 decision in not undergrounding the full system, but along  
11 our scenic and gateway corridors the ability to make a  
12 clean decision to underground in respect for local law.

13 These are challenging times. We certainly  
14 recently saw the state go through a process of local  
15 decision versus state law with regards to housing. These  
16 are important conversations for us to be able to have.

17 But I do hope that the Committee and  
18 recommendations of the Committee in this context can take  
19 into account the strong response you've had tonight with  
20 regards to protecting the quality of place in the name of  
21 our economy in Tucson long term. Thank you for your  
22 time. I appreciate the ability to comment.

23 CHMN STAFFORD: Thank you.

24 A/V TEAM: Mr. Chairman, next and the last  
25 person who's indicated to us that they wish to speak is

1 Henry Knaack.

2 MR. KNAACK: Hi there. My name is Henry  
3 Knaack, that's spelled K-n-a-a-c-k.

4 And I'm a homeowner in Jefferson Park, and  
5 I'll try to make this quick.

6 I am with a group of us who want to  
7 underground lines. Many folks today have already stated  
8 better than I what the significance of undergrounding is,  
9 and what the stakes are if we don't.

10 The biggest issue to underground or not  
11 underground, though, seems to be that it keeps coming  
12 back to the cost, as stated not to be as much as 10 times  
13 what the cost would be to aboveground the lines.

14 It's my understanding that the organization  
15 Underground Arizona has done their own analysis of the  
16 cost for undergrounding and they may have found TEP's  
17 estimate to be highly inflated.

18 This is my main concern for comment today.  
19 Before any decision is made by this body I urge you to  
20 make any information you have or maybe still need to  
21 obtain transparent so that the public can understand why  
22 there is a disparity between the estimate from TEP and  
23 those underground experts, as that is the main rebuttal  
24 for undergrounding consideration. Thank you.

25 CHMN STAFFORD: Are there any other public



1 commenters on the phone?

2 MS. YONKERS: I'm interested in speaking.

3 CHMN STAFFORD: Please state your name.

4 MS. YONKERS: My name is Marie Yonkers,  
5 Y-o-n-k-e-r-s.

6 I'm a long-term resident of Sam Hughes and  
7 I do live in between Tucson Boulevard and Campbell. So  
8 the issue of aboveground electricity has certainly been  
9 significant in our lives.

10 I'd like to address something a little  
11 different. TEP speaks of the urgency of this project,  
12 claiming a decision must be made now. But the delay has  
13 been solely because of TEP.

14 TEP has been unwilling to follow not only  
15 our local regulations of the City, but also obligations  
16 it freely agreed to in its franchise contract with the  
17 City. It is why the project has stalled.

18 TEP could start the project immediately,  
19 tomorrow even, were it willing to follow city rules and  
20 its contractual commitments to the City.

21 The basis for public opposition is that TEP  
22 has not done this. Otherwise, there is broad backing for  
23 the project in Tucson and this includes both the  
24 Neighborhood Undergrounding Coalition of Tucson and  
25 Underground Arizona.

1 It is flat false for TEP to say that  
2 organizations such as these oppose the entire project.  
3 They do not oppose. To the contrary, they firmly support  
4 the project except that they and most Tucsonans simply  
5 expect TEP and the project to comply with our local laws  
6 and keep faith with TEP's contractual obligations to the  
7 City. Thank you very much.

8 CHMN STAFFORD: Thank you. Are there any  
9 other public commenters? We have all the sheets from the  
10 front? Beg your pardon? Is there anyone else who wishes  
11 to speak?

12 MR. YOZWIAK: Mr. Chairman, yes, just an  
13 informational point.

14 CHMN STAFFORD: You need to come to the  
15 microphone so we can get you on the record.

16 MR. YOZWIAK: Thank you again. Stephen  
17 Yozwiak, Y-o-z-w-I-a-k. First name is S-t-e-p-h-en, it's  
18 a common spelling.

19 Anyway, I was just wondering how long is it  
20 going to take? Is there a date certain when this panel  
21 will make a recommendation to the Corporation Commission?  
22 And then in turn, is there some potential date when the  
23 Corporation Commission might act on your recommendation?

24 CHMN STAFFORD: That's all set pursuant to  
25 statute. Under the statute, the Committee has 180 days

1 from the time notice goes out to render its decision.

2           Once that decision is transmitted to the  
3 Corporation Commission, they must rule on it no earlier  
4 than 30 days and no later than 60 days after it's  
5 submitted to them from the Committee.

6           Ms. Grabel, I think that's a correct  
7 interpretation of the statute?

8           MS. GRABEL: That was perfect,  
9 Mr. Chairman.

10           CHMN STAFFORD: That is the time frame  
11 we're working with under the statute.

12           MR. YOZWIAK: Thank you very much.

13           MS. GRABEL: And Mr. Chairman, we have TEP  
14 customer service representatives here to speak with  
15 anyone that has additional questions they want to ask.

16           CHMN STAFFORD: All right. TEP says they  
17 have customer service representatives here in the room  
18 that are available. Could they stand and raise their  
19 hand? So the people can see who they are and they can  
20 consult with them for answers to specific questions.  
21 There they are.

22           MS. GRABEL: And it's regarding their  
23 service, not regarding anything --

24           CHMN STAFFORD: Right. Regarding the  
25 project, yes. They probably can't answer questions about

1 your bill.

2 MS. GRABEL: They can do that, actually.

3 CHMN STAFFORD: Is your mic not on?

4 MS. GRABEL: No.

5 CHMN STAFFORD: Can we get Meghan's mic on?

6 Ms. Grabel's mic on? Excuse me.

7 MS. GRABEL: It's okay. Yes. So they are

8 here actually to answer questions about any individual

9 service.

10 CHMN STAFFORD: Okay.

11 MS. GRABEL: Including their bills.

12 CHMN STAFFORD: Their knowledge is over all

13 things TEP not just this project.

14 MS. GRABEL: Correct.

15 CHMN STAFFORD: Excellent. Are there any

16 other public commenters?

17 A/V TEAM: Mr. Chairman, Meredith Aronson

18 is asking if she might speak one more time to ask a

19 question.

20 CHMN STAFFORD: Well, we don't really

21 answer questions. Is it question about the project or is

22 it --

23 MS. ARONSON: It's a question. I just

24 learned that the lawsuit between TEP and the City of

25 Tucson with regards to undergrounding was -- has been

1 handed down in favor of the City. And I was curious how  
2 that decision which is quite recent, obviously, how that  
3 might impact this Committee's decision-making.

4 CHMN STAFFORD: Well, that will have to be  
5 addressed through the process. I mean, I'm sure it will  
6 be introduced as an exhibit by one of the parties and the  
7 Committee will weigh it when they make their decision.  
8 All right.

9 MS. ARONSON: Thank you.

10 CHMN STAFFORD: With that, we conclude the  
11 public comment session. We stand in recess until  
12 nine a.m. tomorrow morning when we resume the hearing.

13 We are in recess. Have a good night.

14 (Proceedings recessed at 7:09 p.m.)

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1 STATE OF ARIZONA )  
 )  
2 COUNTY OF MARICOPA )

3 BE IT KNOWN that the foregoing proceedings were  
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5 true, and accurate record of the proceedings, all done to  
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15 Dated at Phoenix, Arizona, July 14, 2024.

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