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TL 6975 San Marcos – Escondido Project



City of San Marcos

April 2019

TL 6975 San Marcos – Escondido Project



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Background



- SDG&E has proposed a new 69 kilovolt (kV) power line between the existing San Marcos and Escondido substations to increase electric system reliability by decreasing congestion on the existing power lines
- The need for this project was reviewed and approved by the California Independent System Operator (CAISO)
- Given the load growth of the San Marcos and Escondido areas and surrounding communities, the load pocket in this area has created an increased demand that continues to strain the existing infrastructure
- The project has been proposed in order to alleviate existing North American Electric Reliability (NERC) violations, service projected load growths, and improve reliability in the San Marcos/Escondido area

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- Electrical load planning studies show that the system has vulnerabilities under contingency conditions that do not meet the required standards set forth by the North American Reliability Corporation (NERC)
- The proposed new 69 kV power line between the existing San Marcos and Escondido substations will eliminate these vulnerabilities, and replace aging infrastructure with state of the art equipment and fire resistant steel poles
- The project calls for the re-build of an existing line along San Marcos Blvd in Segment 1, the installation of new facilities adjacent to an existing 138 kV line in Segment 2, and the replacement of conductor on existing structures and re-energization of existing conductors on existing structures in Segment 3
- Approximately 5.5 miles of Project components are located within the City of San Marcos within Segments 1 and 2

San Diego's Energy Landscape | Yesterday



San Onofre Nuclear
Generation Station

Electric Transmission Path

Encina Power
Station



Conventional Sources



Legacy Natural Gas



Legacy Natural Gas
Peaker



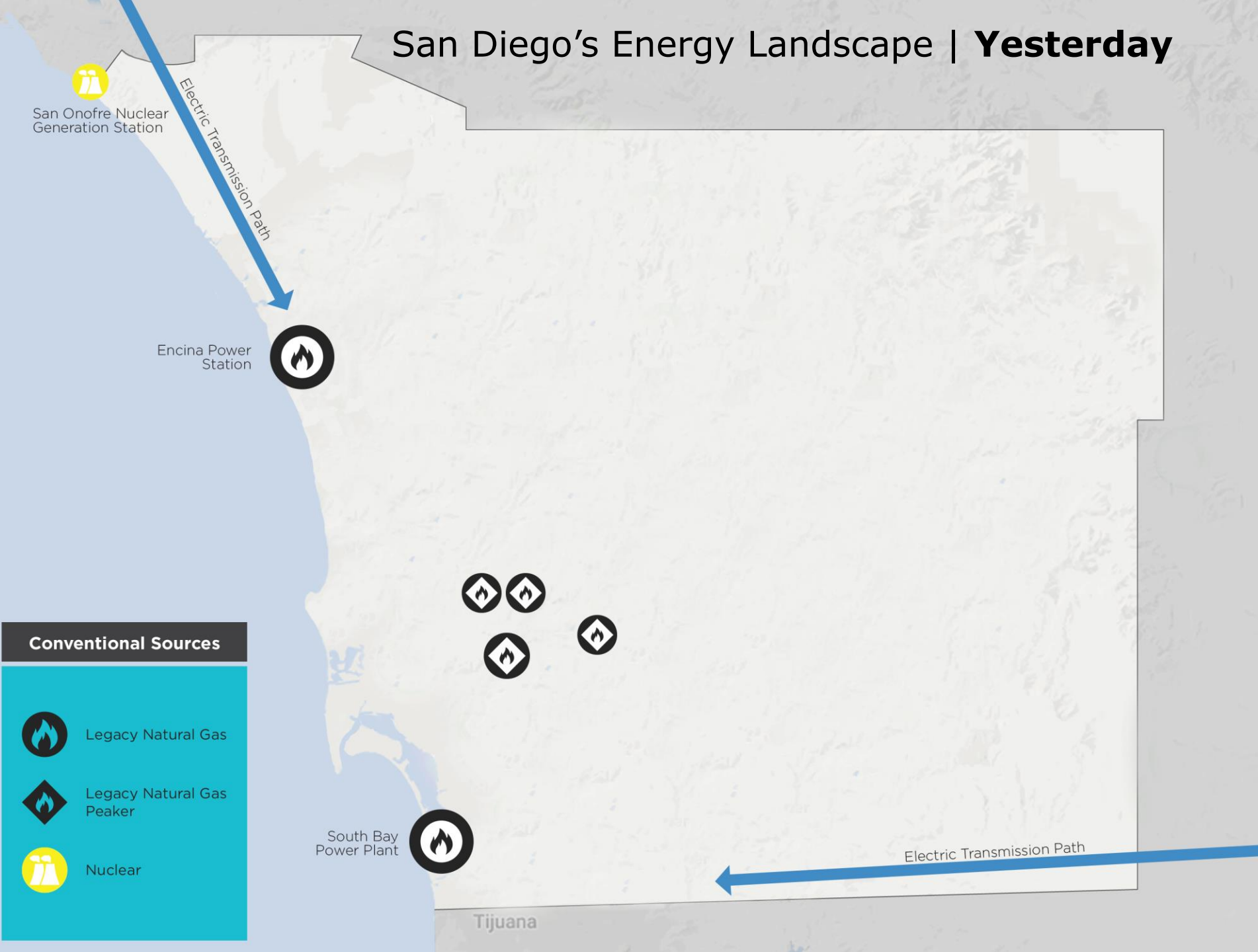
Nuclear

South Bay
Power Plant



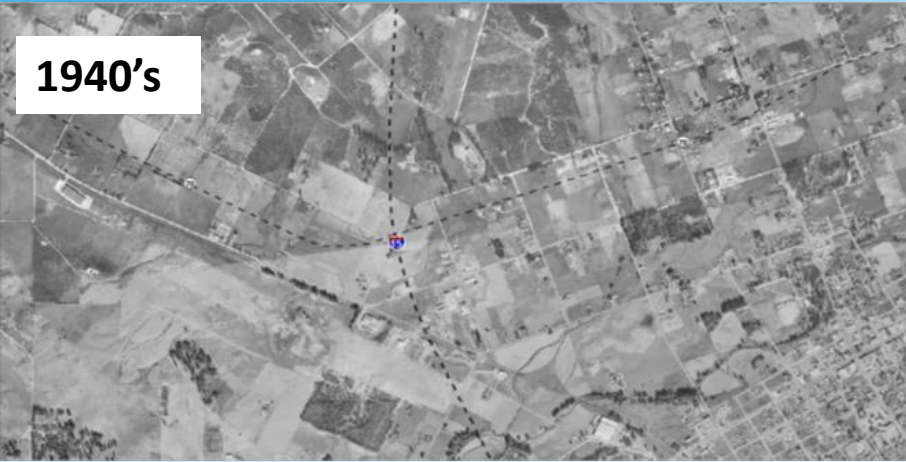
Tijuana

Electric Transmission Path



Escondido: I-15 and SR-78

1940's



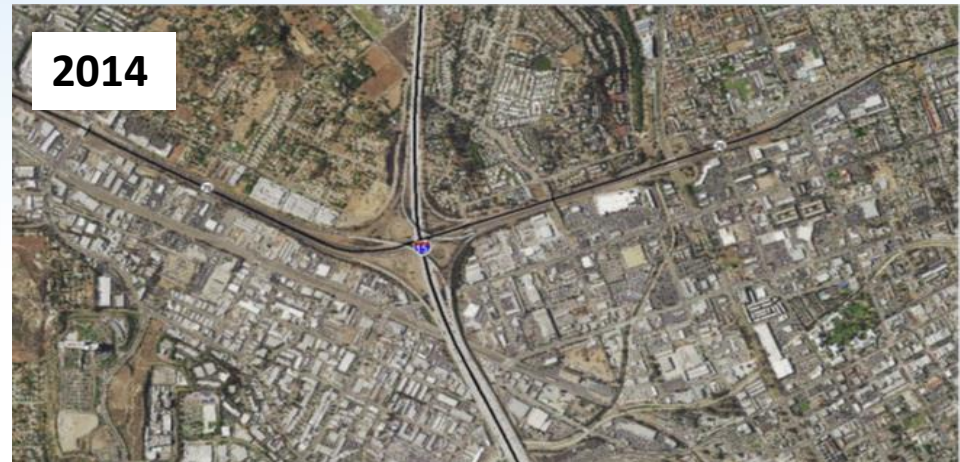
1960's



1990's



2014



Reliable: San Diego is Growing and Our Energy Needs Are Evolving

POPULATION SIZE

289,348



1,033,011



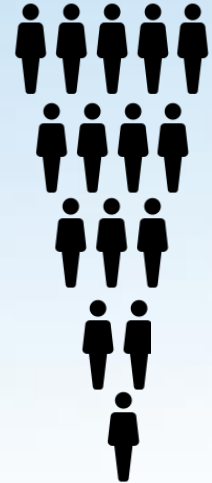
2,489,016



3,317,749



4,384,867



1940s

1960s

1990s

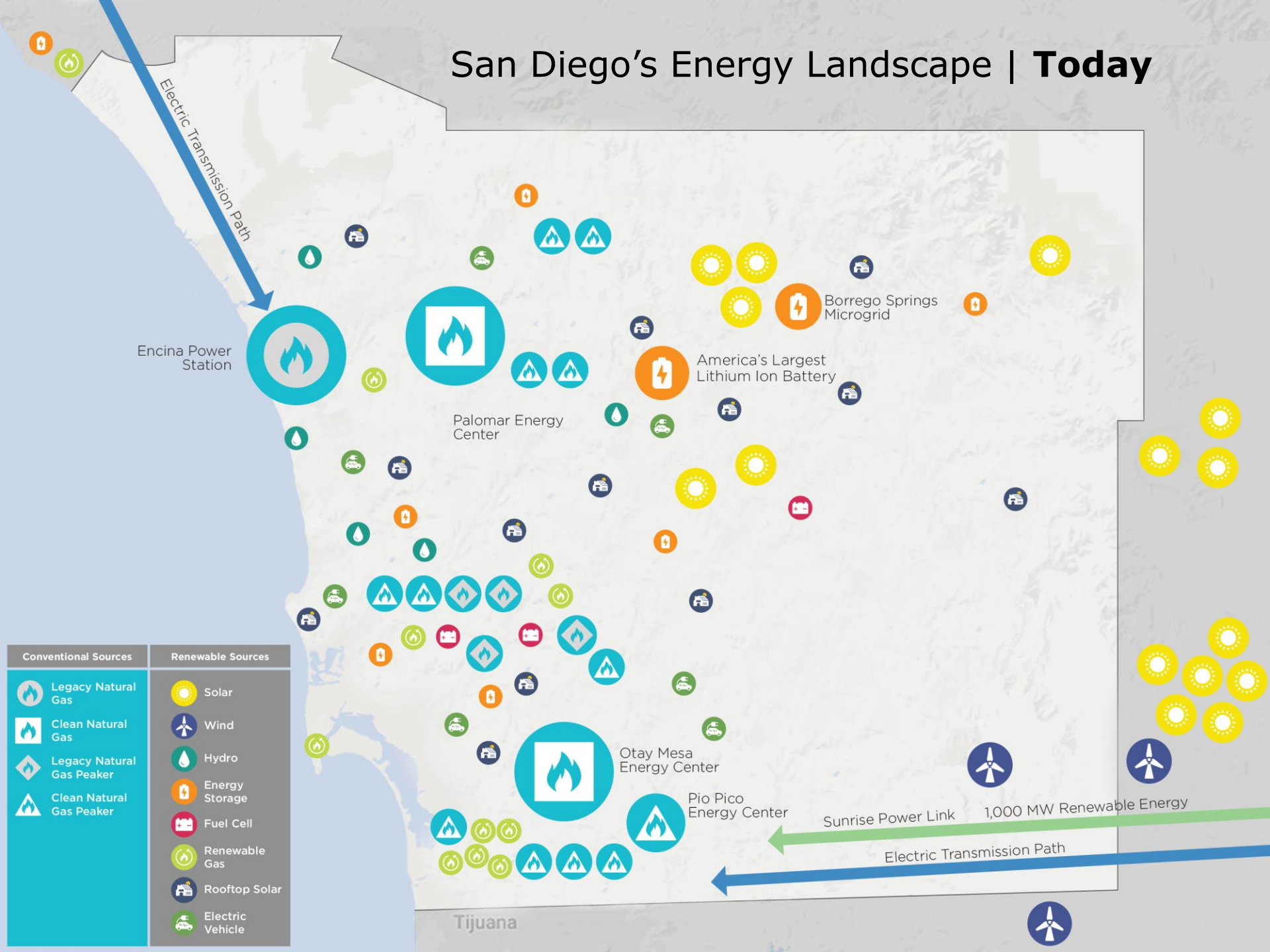
2016

2050

ENERGY USAGE



San Diego's Energy Landscape | **Today**



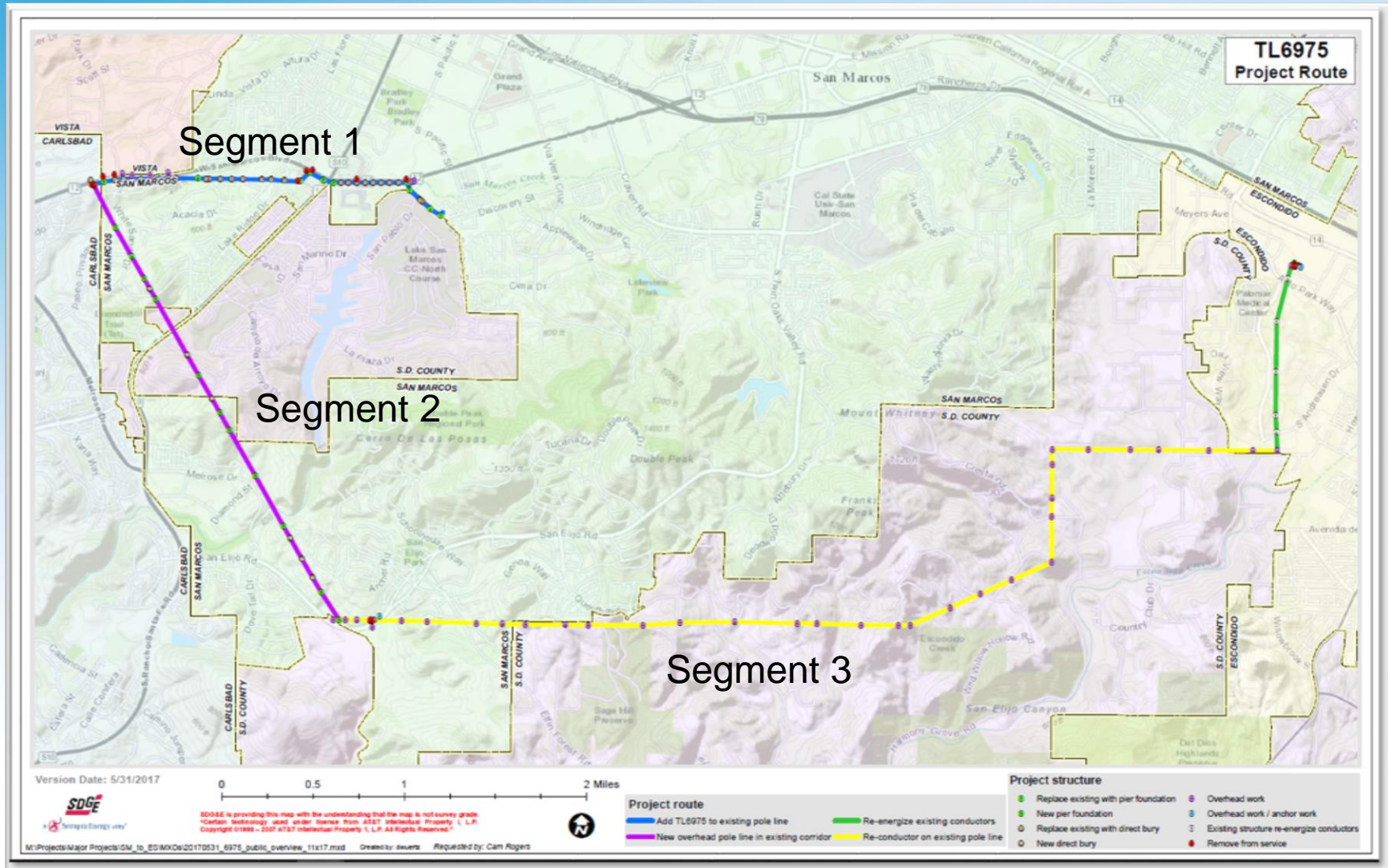
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- Segment 1 includes the following proposed work:
 - Rebuild of 1.8 miles of the existing transmission line, including the replacement of the existing, single-circuit wood transmission poles with new steel, double-circuit transmission poles as close to the existing poles as possible
 - Existing poles in Segment 1 are between 20-84 feet tall. New poles will be between 43 and 101.5 feet tall, or approximately 17.5-23 feet taller than existing poles in order to accommodate current construction and design standards, and to accommodate the second transmission circuit
 - Segment 1 includes 9 pier foundation poles; 24 direct-bury poles; 6 overhead only work poles; and, 7 remove from service poles
- Segment 2 includes the following proposed work:
 - Construction of 2.8 miles of new transmission line in the existing 150-foot wide powerline easement. This easement currently contains two existing 138 kV powerlines, in a double circuit alignment (two circuits on one pole line)
 - TL 6975 cannot be co-located on the existing 138 kV powerline as that line is already built to capacity with two existing 138 kV lines
 - TL 6975 poles will be 'soldiered' with the existing 138 kV poles, which means the new 69 kV poles will be located in the same location as the existing 138 kV poles, although 30 feet to the east of the existing poles
 - Segment 2 includes 11 new pier foundation poles; 6 new direct-bury poles; 7 overhead work only poles; and, 4 remove from service poles

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Routing and Siting Considerations:

- Encourage the use of existing rights-of-way for electric system upgrades and expansion projects
- Utilize existing facilities such as structures, access roads and work areas where feasible
- Minimize environmental impacts
- No new land acquisitions
- Reliably and economically meet forecasted load growth within SDG&E's service territory
- Ensure that SDG&E's electric system continues to meet NERC, Western Electricity Coordinating Council (WECC) and CAISO reliability criteria, while promoting California's renewable energy integration policy goals

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Anticipated Project Schedule:

- Project Permit to Construct (PTC) application filed with the California Public Utilities Commission (CPUC) in November, 2017
 - On April 1st 2019, the CPUC issued a draft environmental (CEQA) document (Initial Study/Mitigated Negative Declaration or IS/MND) for the project, which is currently in circulation for public review and comment.
 - Typically, CPUC includes a 30-day public comment for an IS/MND, however they have extended the public comment period to 60-days for the TL 6975 project. The period extends from April 1st through May 30th 2019
 - SDG&E anticipates, based on the current project schedule, that the CPUC will issue a Notice to Proceed (NTP) for the project in the first or second quarter of 2020
 - One year construction schedule anticipated from Q1 or Q2 of 2020 through Q1 or Q2 of 2021
 - Helicopters will likely be utilized for construction and support activities, mainly in Segment 2
 - It is important to note that construction activities often occur intermittently throughout the project area and are often not completed concurrently

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Opportunity for Public input:

- The CPUC extended the public comment period from 30 days to 60 days.
- During the 60-day public comment period on the Draft CEQA document, which extends from April 1st through May 30th, the CPUC will accept public comments regarding the project
- The CPUC will host a local public open house and public presentation on the project during the comment period:
 - Tuesday April 30th, 1-3 p.m. at the San Elijo Recreation Center
 - Tuesday April 30th, 6-8 p.m. at the San Marcos Community Center
- CPUC Project website:
<http://www.cpuc.ca.gov/environment/info/esa/TL6975/index.html>

Questions?

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