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HVDC Conversion of Southwest Powerlink

RETI 2.0
Sept. 1, 2016

John Jontry
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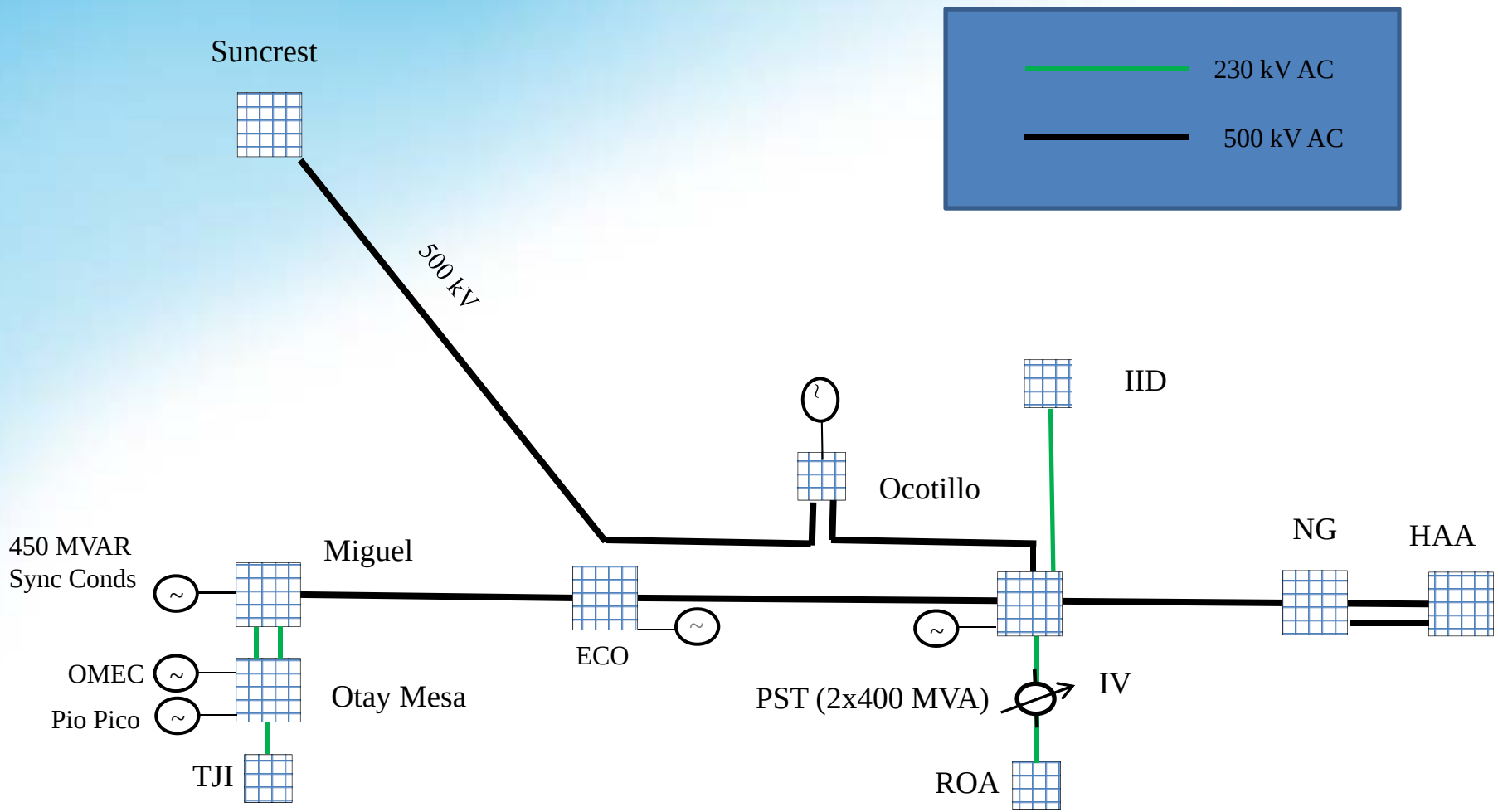
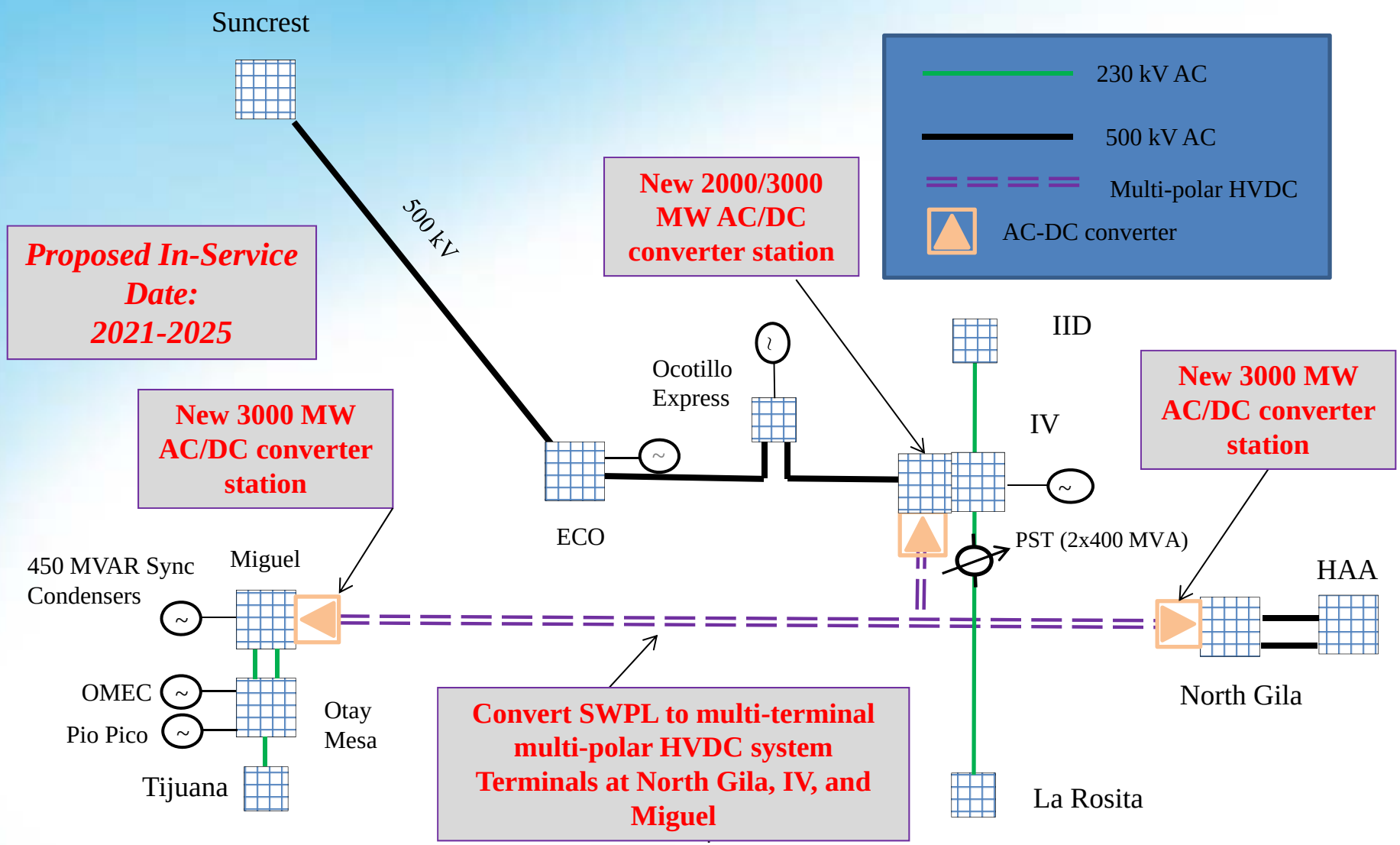
Southern California Electric System

SDG&E's Existing System



Proposed HVDC Conversion



Key Benefits

- **ACHIEVE RENEWABLE GOAL**: This change would give California the ability to import more renewable energy to serve customers' needs and meet the state's goal of 50% renewables by 2030.
- **REDUCE COSTS**: The project will reduce by up to 1,000 MW the amount of costly generation capacity SDG&E and other power providers in the Imperial Valley and San Diego areas would have to buy or build to maintain reliable service under extreme weather and contingency conditions.
- **IMPROVE RELIABILITY**: The project would improve reliability by essentially providing a "back-up" path to deliver up to 1,000 MW into San Diego and the greater Southern California area that wouldn't have to be generated locally.

Other Benefits

- **INTERREGIONAL BENEFITS**: Solves loop flow issues for multiple parties (SDG&E, IID, CFE, APS, WAPA)
- **REDUCE GHG EMISSIONS**: The project will reduce GHG emissions & provides improved access to both **in-state** and **out-of-state** renewables to meet 50% RPS goal. Promotes the development of more renewables in the Desert Southwest (Arizona and New Mexico) by increasing West of River (WOR) and East of River (EOR) path ratings and reducing congestion at North Gila
- **IMPROVE IMPORT CAPABILITY**: Increases San Diego import capability by 500-1000 MW or more by mitigating worst N-1-1 contingency (Sunrise & SWPL) and reduces Greater IV/San Diego local LCR requirements

Questions?

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