



A  Sempra Energy utility®

# *HVDC Conversion of Southwest Powerlink*

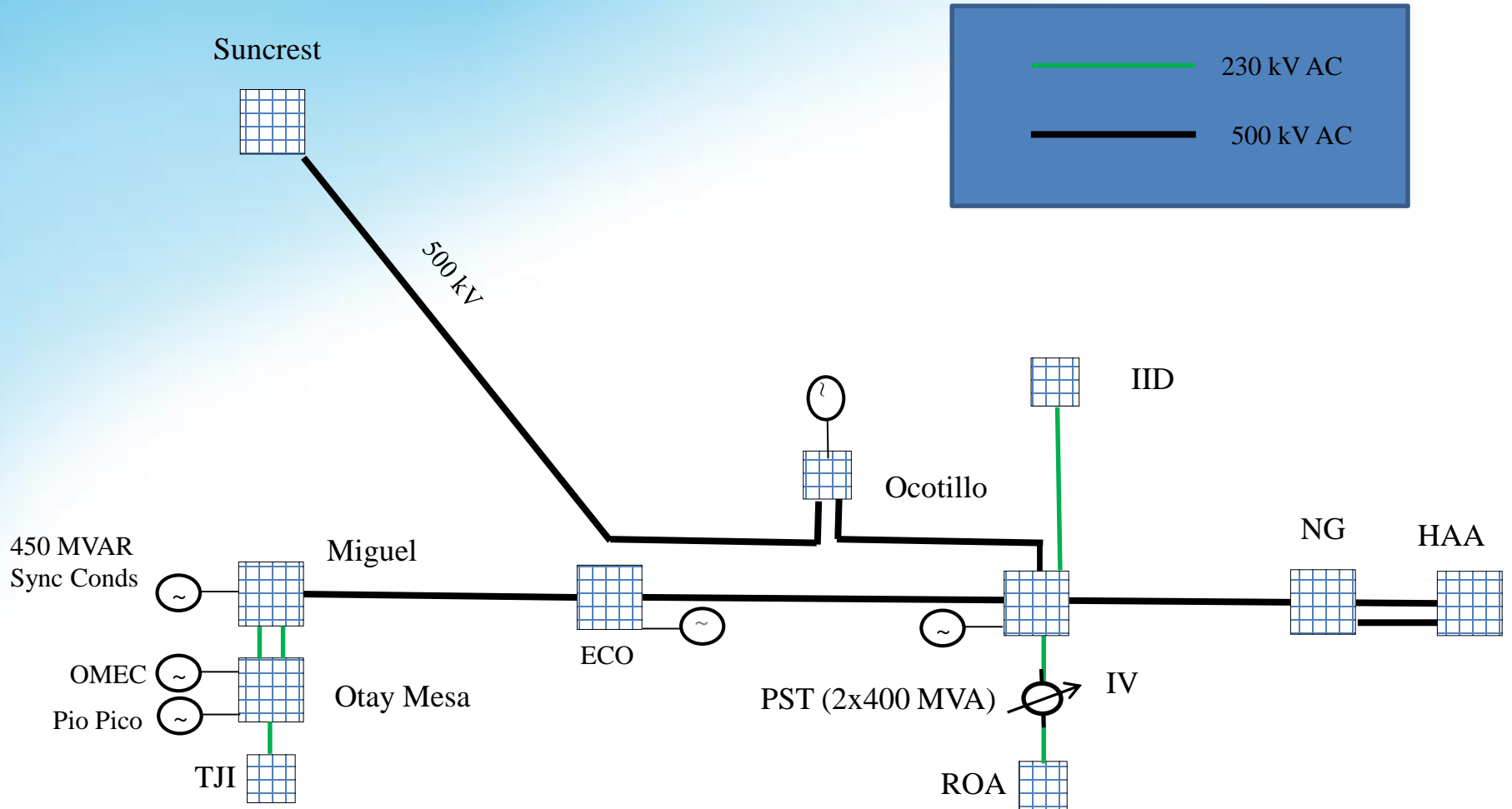
May 4, 2016



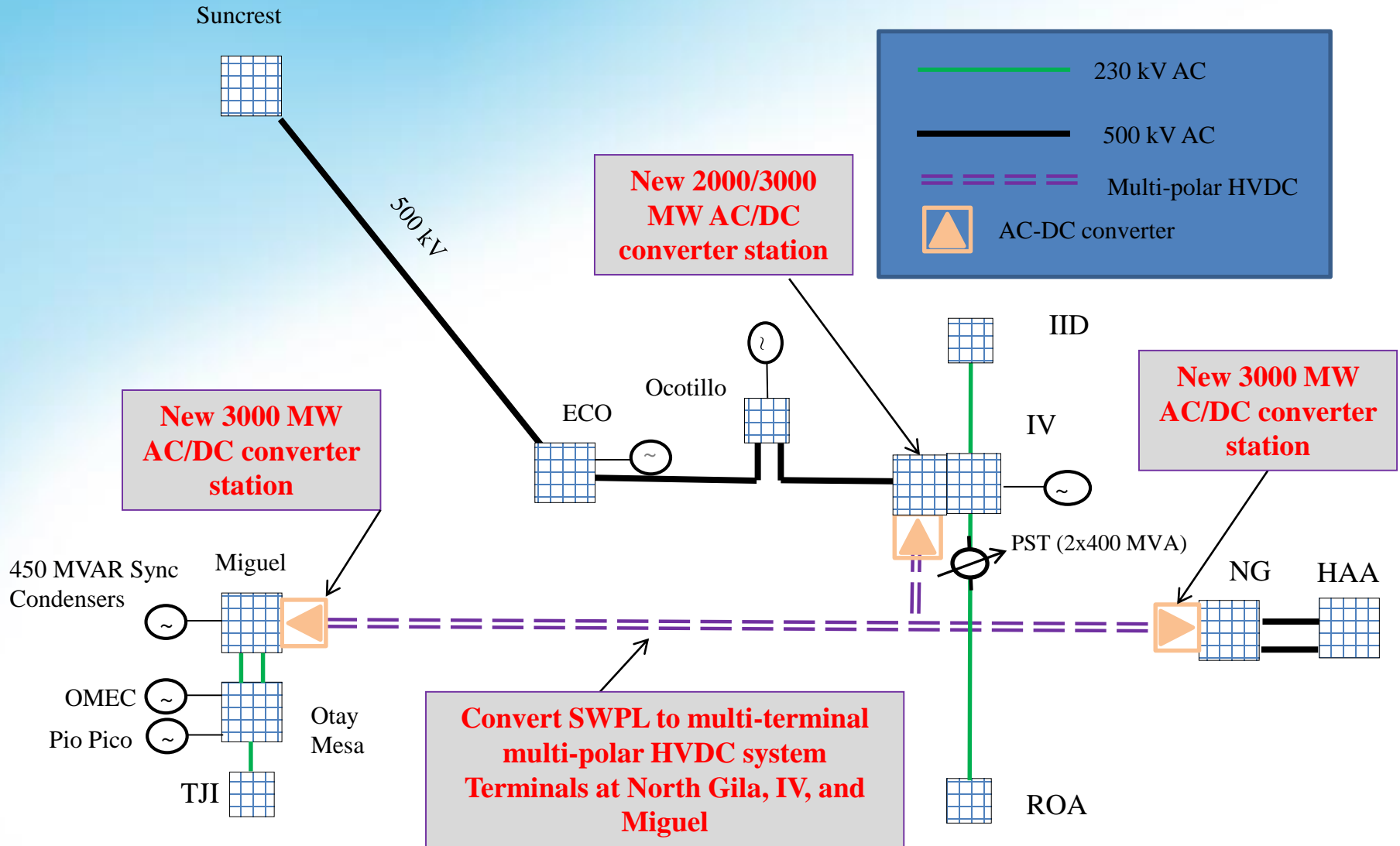
# Southern California Electric System



# SDG&E's Existing System



# Proposed HVDC Conversion



## *What does it do?*

- Significant interregional benefits by solving the loop flow issue for multiple parties (APS, SDG&E, IID, and CENACE)
- Reduces GHG emissions & provides improved access to both in-state and out-of-state renewables to meet 50% RPS goal.
- Allows the development of more renewables in El Centro, California by controlling intertie between CAISO and IID
- Increases West of River (WOR) and East of River (EOR) path ratings
- Reduces Greater IV/San Diego and Western LA Basin local LCR requirements
- Increases San Diego import capability by 500-1000 MW or more by mitigating worst N-1-1 contingency (Sunrise & SWPL)