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Docket Number:	15-RETI-02
Project Title:	Renewable Energy Transmission Initiative 2.0
TN #:	208286
Document Title:	Los Angeles Department of Water and Power Presentation
Description:	N/A
Filer:	clare Laufenberg
Organization:	Los Angeles Department of Water and Power
Submitter Role:	Public Agency
Submission Date:	1/21/2016 12:14:01 PM
Docketed Date:	1/21/2016



Transmission System Improvement for Renewable Portfolio Standard

For
Renewable Energy Transmission Initiative
by
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January 22, 2016



Transmission System Improvement to Comply with Renewable Portfolio Standard (RPS)

- Implement Barren Ridge Renewable Transmission Project to transmit renewables from Mohave Desert and Owens Valley areas for meeting RPS from 2016 through 2020
 - Required EIR
 - Construct a 230kV double-circuit transmission line
 - Build a new 230kV circuit on existing transmission towers
 - Construct a new 230kV switching station
 - Reconductor existing 230kV circuits
 - Loop existing 230kV circuits into the new 230kV switching station
 - In-service date: June 2016

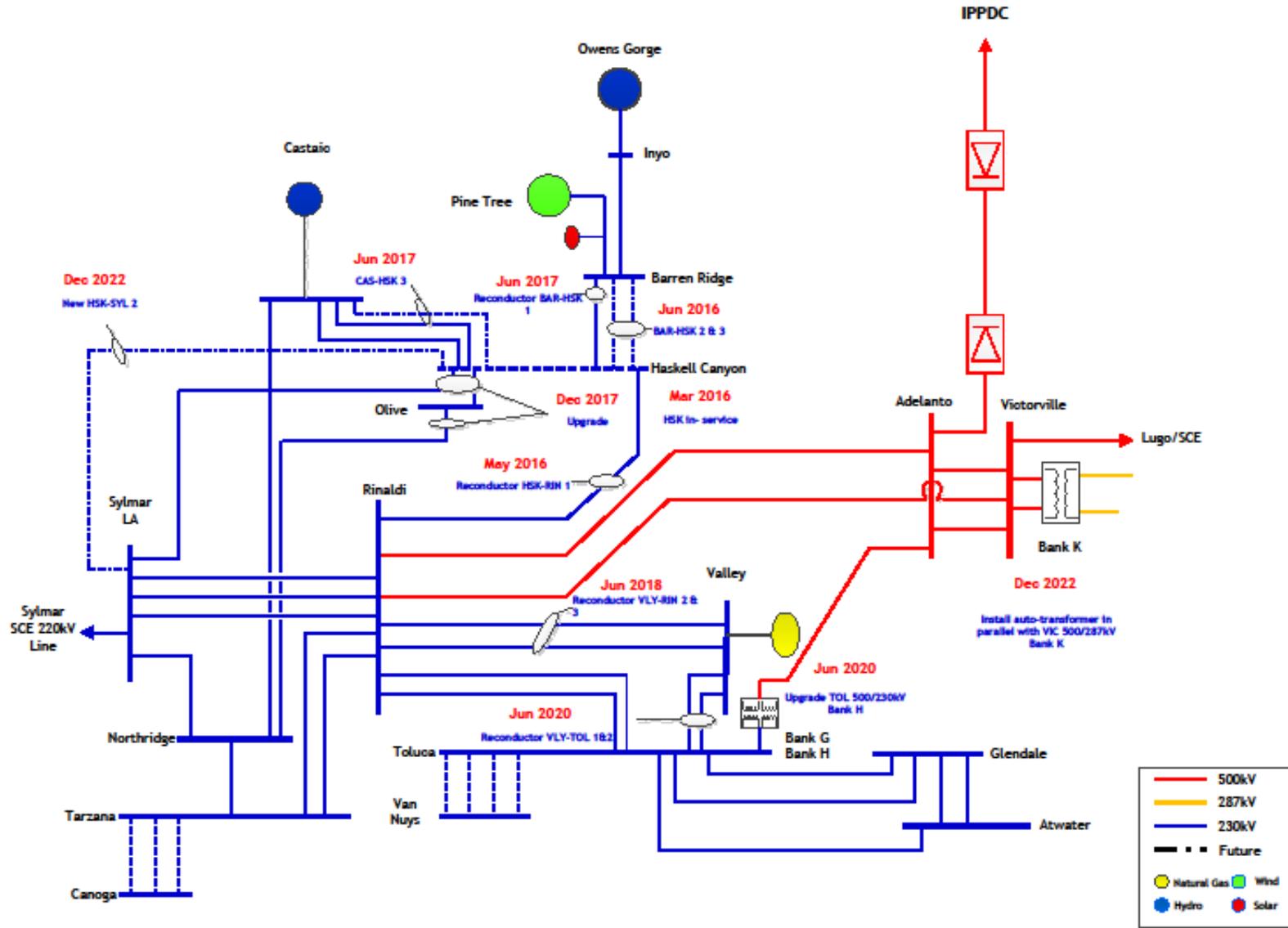
Transmission System Improvement to Comply with Renewable Portfolio Standard (Cont'd)

- Upgrade South of Haskell Canyon Transmission System to further improve transfer capability of Barren Ridge Renewable Transmission Project for meeting RPS from 2024 through 2030
 - Upgrade transmission line rating of three 230kV circuits by raising and modifying some transmission towers to mitigate ground clearance issues
 - Convert two 115kV circuits to one 230kV circuits (may require EIR)
 - Target In-service Date: December 2022

Transmission System Improvement to Comply with Renewable Portfolio Standard (Cont'd)

- Upgrade Transfer Capability of Victorville to LA Basin transmission system enable to transmit renewables from Eldorado Valley, Arizona, and Southern Nevada areas for meeting RPS from 2024 through 2030
 - Install one new 500kV/287kV and Replace one 500kV/230kV Transformers
 - Reconductor four 230kV circuits
 - Install capacitor banks at strategic substations
 - Upgrade station equipment including circuit breakers, disconnect switches, capacitor voltage transducers, etc
 - Target In-service date: December 2022

2015-2025 LADWP Power System Diagram



- 500kV
- 287kV
- 230kV
- Future
- Natural Gas
- Wind
- Hydro
- Solar