



Los Angeles
Department of
Water & Power



The Statewide Once-Through-Cooling (OTC) Policy

Statewide Advisory Committee on Cooling
Water Intake Structures (SACCWIS)

Annual Meeting
March 8, 2019

**LADWP Update
Grid Reliability Study 2018**



- Los Angeles Basin Generation
 - *Every* in-basin unit contributes to the minimum Reliability Must-Run requirement.
 - Basin generation is critical in order to meet customer demand particularly in the summer.
 - Scattergood Units 1&2 are next units in our schedule.
 - Some basin units are dual fuel capable in the event of an emergency.

- Transmission Reinforcements
 - Install 230kV Scattergood-Olympic Cable A.
 - Add reactive support in-basin and external to basin.
 - Upgrade equipment: wires, transformers, circuit breakers, etc.

- Resources
 - Reserve margin requirement is increasing due to more Variable Energy Resources (VERs)
 - RPS targets of 33% by 2020 and 50% by 2025, 55% by 2030, and 65% by 2036.

- Every WECC audit since 2008 has determined that the LADWP Power System is reliable.

- 2018 Long term Transmission Assessment
 - conforms to TPL-001-4. Findings show LADWP’s Power System will perform reliably over the next ten years.

- 2018 Near Term Seasonal Assessment
 - Identified minimum Reliability Must Run (RMR) generators is unchanged,

- 2018 Long-Term Transmission Assessment
 - Key segments of LADWP’s transmission system must be reinforced, to the extent possible, in order to ensure continued reliable operations.

 - Transmission upgrades are in addition to maintaining current RMR generation requirements.

➤ 2018 Events and Outages

- Lines were out for portions of the winter when system conditions allowed for the work to proceed
- It should also be noted that gas curtailments and unit outages prohibited work at times
- Valley-Rinaldi 230kV Lines 1 and 2 were simultaneously switched out to replace circuit conductors to increase circuit ratings
- In-Basin capacity upgrade is one of the first steps LADWP has taken to reliably increase the penetration of renewable resources into daily operations and to begin the process of becoming 100% carbon free by 2045.

- Findings in 2018 Grid Reliability Report mirror those reported in previous reports and continue to underscore that LADWP's OTC compliance schedule, is the most aggressive that is also feasible.
- Demolition of existing Scattergood Generating Station Unit 3 has been completed.
- Demolition project for Haynes Units 3, 4, 5, and 6 in progress.

Thank You!