



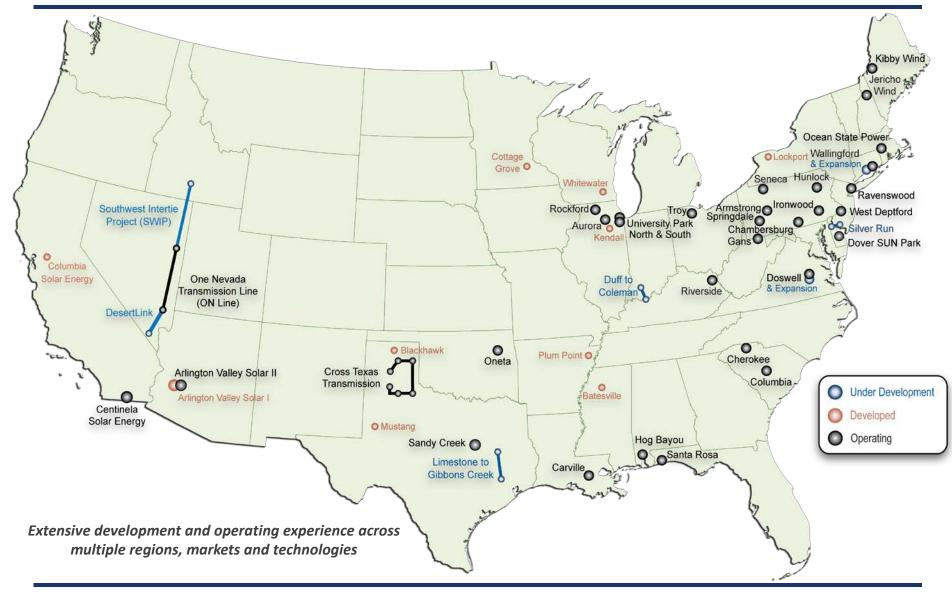
California ISO June 18, 2018

LS Power

Power generation and transmission company formed in 1990



Project Portfolio



LS Power Transmission



FRACMOO2: Eligibility Criteria, Counting Rules

- "Start-up" time as a qualification criteria for FMM & RT flexible capacity:
 - CAISO's previous iteration of FRACMOO proposal had a start up time of "60 min".
 Recent proposal removed this. Key issues to consider:
 - Presumption is that new Imbalance Reserve product will address the need for RT flexibility:
 - Can Imbalance Reserve ensure required Capacity is "available"?
 - Flexible RA capacity → Planning Capacity
 - Imbalance Reserves → Operational Capacity
 - Market signals for flexible products?
 - One of the key objectives of this initiative is to address Real Time Flexibility
 - Current Flexible RA framework shows sufficient Flex RA capacity available yet
 CAISO sees Operational challenges
 - Can procured Flex capacity be "accessed" in Real Time?
 - A long start resource can address real-time flexibility but is that the most optimal solution?
 - Does this cause oversupply issues? Renewable curtailment? GHG goals?
 - Impact on reliability CPS violations?
 - Economic impacts Out of Market dispatch? Reliance on Reserves?

FRACMOO2: Eligibility Criteria, Counting Rules contd.

- Counting rules
 - For Real-Time Flexible Capacity counting, storage is proposed to be limited to resource's instantaneous output:
 - This will artificially block half of the capability of these resources
 - As currently proposed no difference between a generator and a storage
 - Inconsistent with counting rules for storage in Day Ahead
 - Should market optimize state of charge to unlock full capacity of storage resource from charge to dis charge?
- EFC separation from NQC
 - Vital to unlock flexibility from some resources that can't otherwise qualify for NQC