

Received:

Apr 13, 2021

12:05 AM



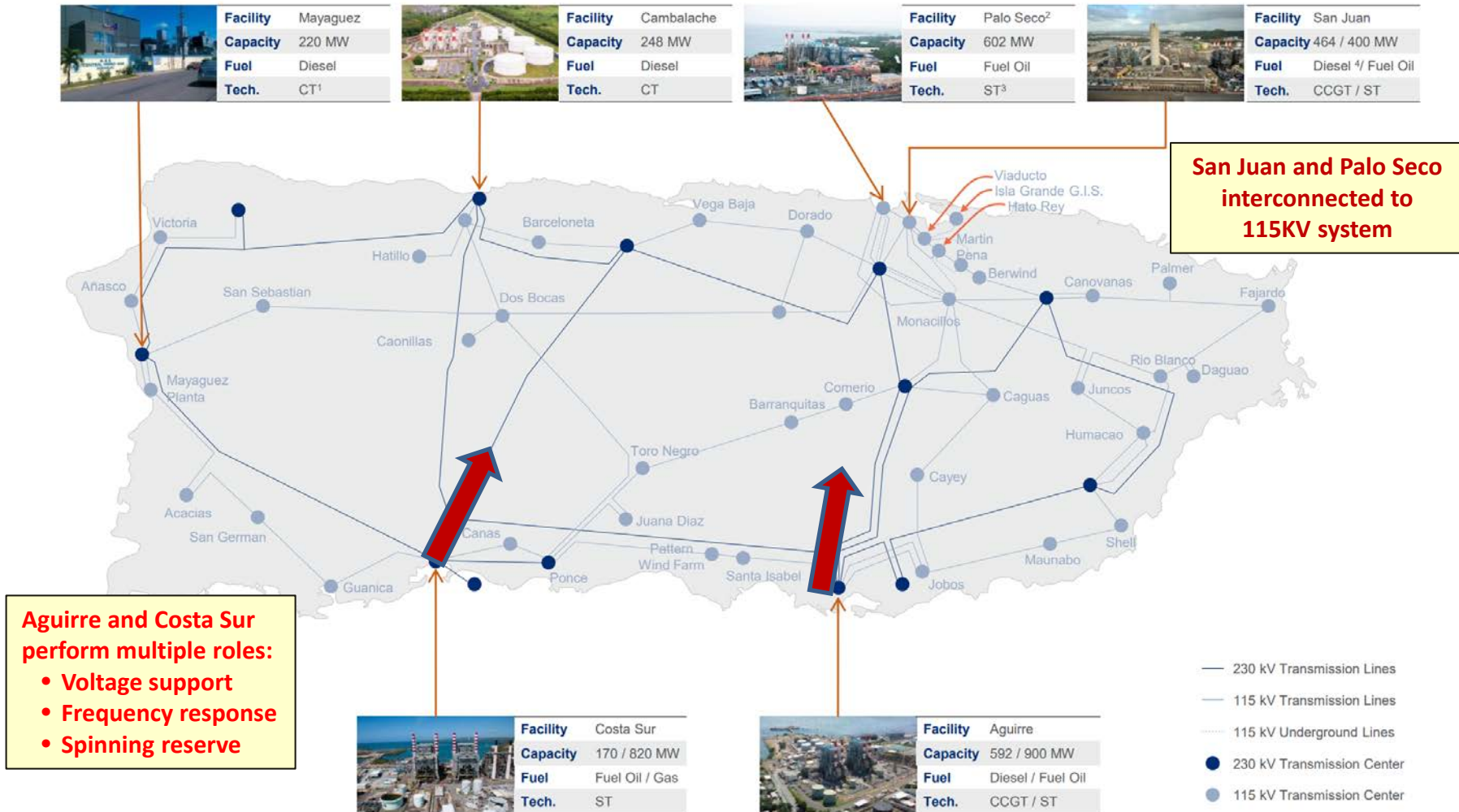
Generation Team Operations Dispatch Assessment November, 2020



I. Background on Bulk Power System Operational Constraints

- 3

Legacy PREPA owned generation overview

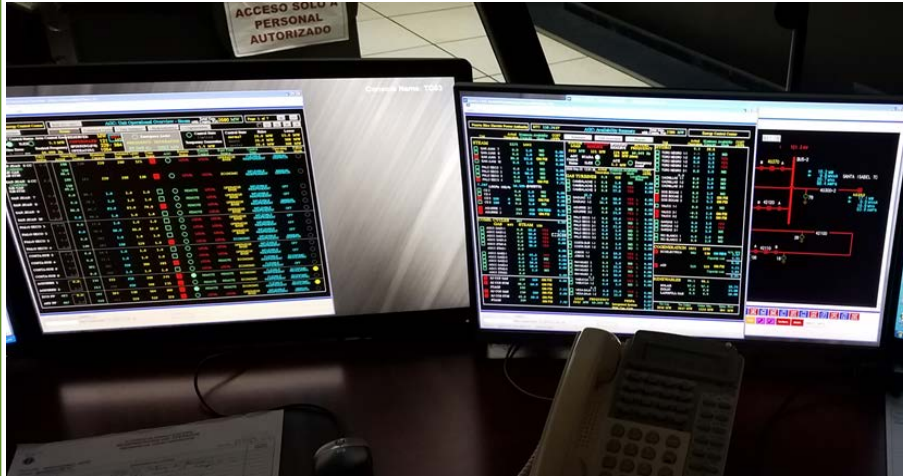


Note: Does not show hydro facilities, peakers, or third party-owned assets (EcoElectrica, AES, and renewables).

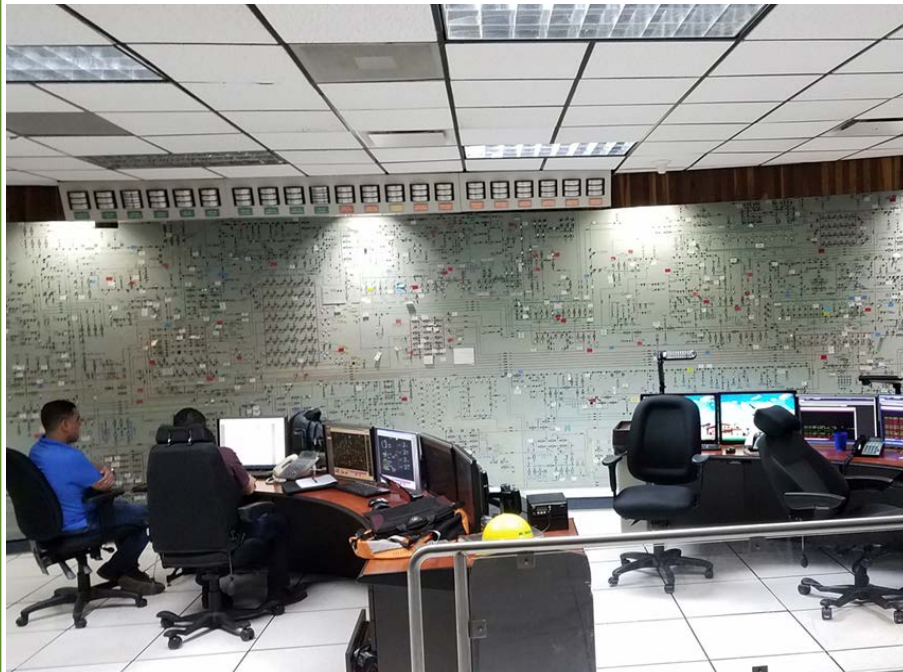
1. Combustion turbine ("CT").

- The Puerto Rico Public-Private Partnerships Authority issued an RFQ on July 12, 2019 for a ~300 MW combined cycle generator to interconnect to the Palo Seco substation.
- Steam turbine ("ST").
- Diesel-burning units expected to be converted to burn natural gas in near term.

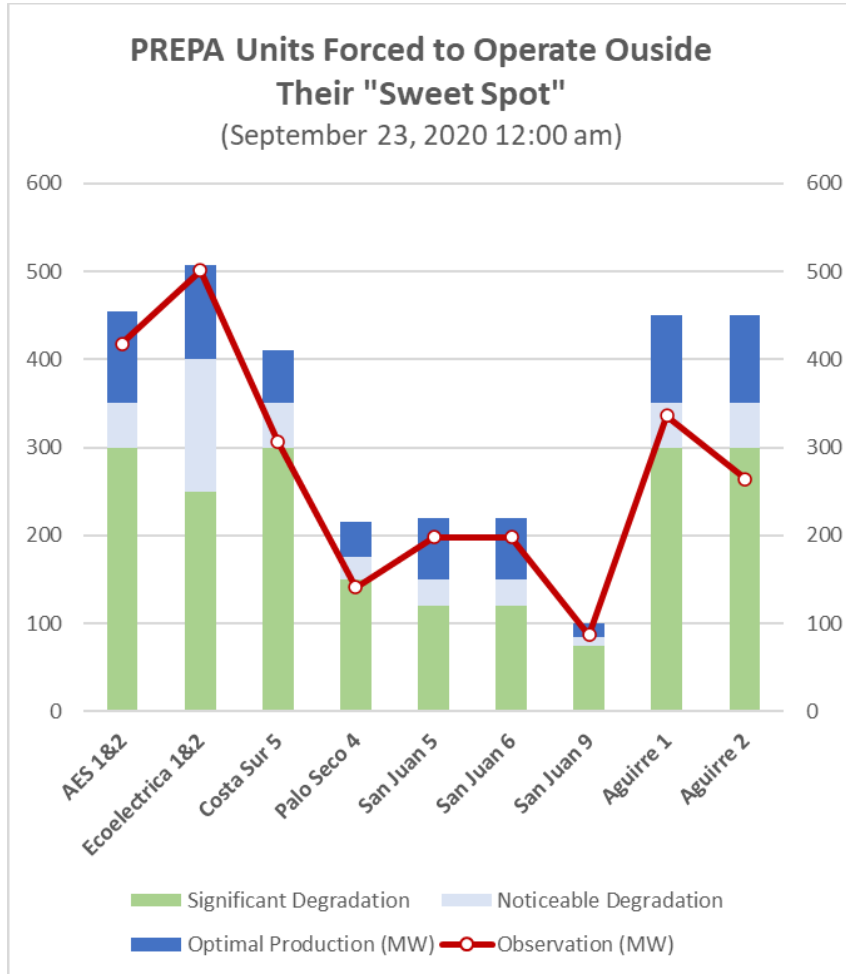
System Perspective – Typical Day (September 23, 2020 11:30 am)



- Lower in north, higher in south



System Perspective – Typical Day (September 23, 2020 12:00)



Consequence of forcing System Operations to be sub-optimal

All estimates are preliminary; still awaiting actual data

- could offset ~300 MW of carbon emission limitations on existing thermal
- would increase effective reserve margins from 3.3% up to 13% (100 MW to 400 MW) during summer peak season

Cycle of low effective availability and impacts on system conditions

