

Presentation of PREPA Performance Metrics Docket NEPR MI-2019-0007





January 19, 2021



Agenda

- ➤ Background
 - > Procedural Order and goals of Technical Conference
 - ➤ Metrics: Performance report requirements
 - > Overview of filed metric categories
 - General observations of filed data
- ➤ 18-Month Review of PREPA Filed Metrics
 - ➤ Metrics with comparable industry standards
 - > Presentation of selected metrics filed by PREPA
- Questions and Comments from public and stakeholders



Background



Procedural Order and Goals of Technical Conference

- Share information provided by PREPA and collected by the Energy Bureau
- ➤ The Energy Bureau's Resolution and Order from May 14, 2019 (Docket NEPR MI-2019-0007)
 - Commencement of data gathering process to help develop "appropriate measures, metrics and targets"
 - ➤ Metrics for reporting purposes (Docket NEPR MI-2019-0007)
 - ➤ Metrics that will be the subject of Targets (Docket NEPR MI-2019-0007)
 - ➤ Metrics that will be subject to Financial incentives (Docket NEPR AP-2020-0025 will establish the specific Targets and Performance Incentives Mechanisms)
 - ➤ The data would help establish " a baseline and a uniform understanding of the current level of PREPA's performance"



Metrics: Performance Reporting Requirements

- ➤ The Energy Bureau ordered PREPA to report 117 metrics across 11 categories on a quarterly basis
- The Energy Bureau identified 15 additional anticipated metrics (energy efficiency, electric vehicles, and usage portal accessibility)
- ➤ Approximately 130 metrics are being reported by PREPA (municipalities included for several metrics, increasing the number of data rows)
- ➤ Data extends period of June 2019 through November 2020 (ongoing)



Subcategories of filed data

- ➤ Overall System (117 data rows)
- ➤ Generation (97 data rows)
- > Transmission and Distribution (58 data rows)
- Customer Service (72 data rows)
- Finance (2 data rows)
- ➤ Planning and Environmental (5 data rows)
- ➤ Operations (26 data rows)
- ➤ Information Technology (IT) (4 data rows)
- > Human Resources (2 data rows)
- ➤ Legal (6 data rows)
- ➤ Renewable Energy and Demand Side Management (206 data rows)



General Observations

- Approximately 600 rows of monthly data for the 18month period
- > Impacts of major events
 - > January earthquakes
 - > COVID-19
- Data Issues
 - ➤ Gaps/missing months
 - Some metrics had no data where PREPA does not collect the information (i.e., MAIFI)
 - Costa Sur data ends with shutdown following earthquakes
 - ➤ Emissions and energy efficiency data filed on annual basis rather than monthly basis
 - > Units reported
 - Generally, changed the units to match the reported data



PREPA Filed Metrics: 18-Month Review

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PREPA 18-Month Review

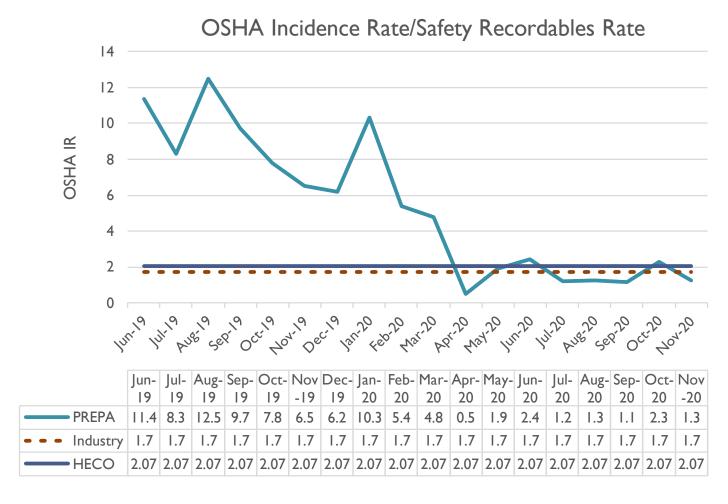
- > Approximately 120 graphs across all sub-categories in the 55-page attachment provided by the Bureau.
- > Where possible, we also included data for:
 - > Industry Standard
 - Hawaiian Electric Company (HECO) Historical Performance
- Comparisons to PREPA are only for informative purposes
 - ➤ The establishment and determination of specific performance incentive metrics will be discussed in a separate docket
- The Attachments include 18-month average, minimum, and maximum values for each data row



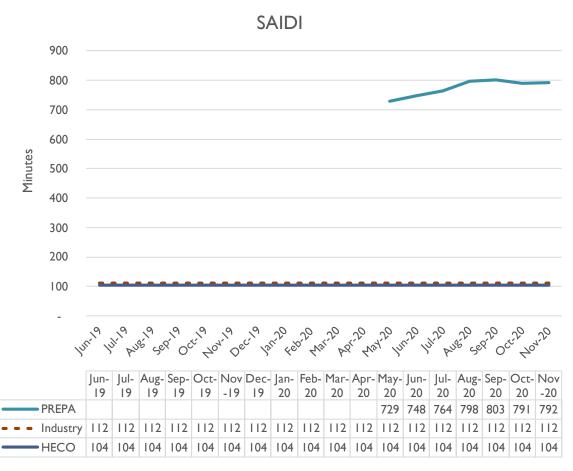
Metrics With Comparable Industry Standard



Overall System

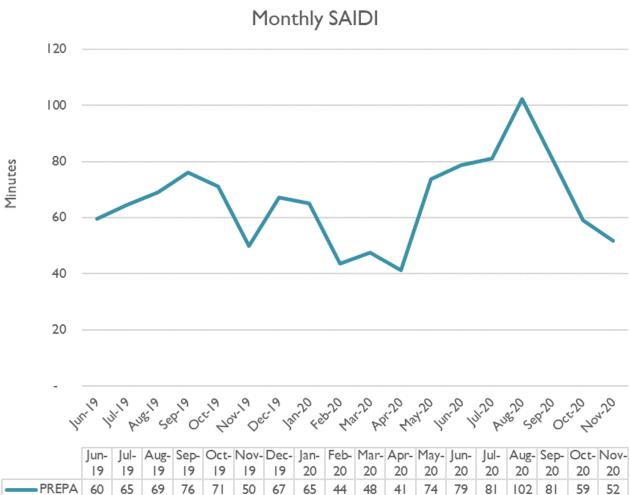




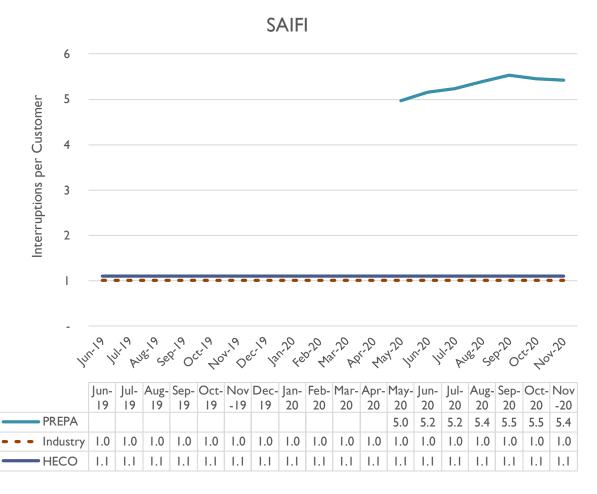


Note: Industry standards for SAIDI are annual values from IEEE. PREPA's SAIDI values were reported monthly and converted to annual values on a 12-month rolling basis as soon as a year's worth of data was available.



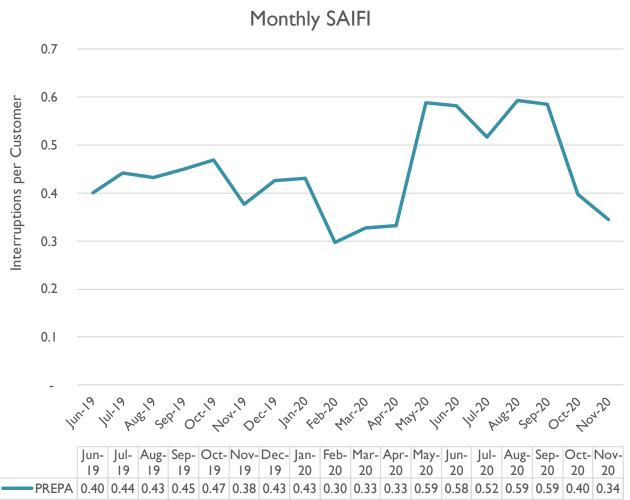






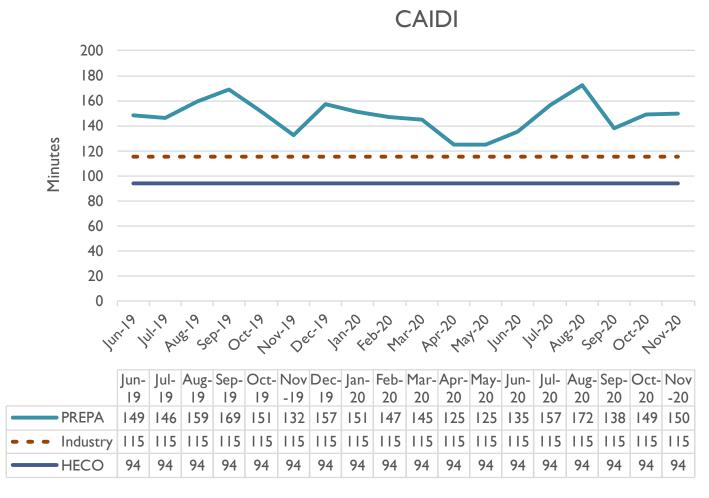
Note: Industry standards for SAIDI and SAIFI are annual values from IEEE. PREPA's SAIFI values were reported monthly and converted to annual values on a 12-month rolling basis as soon as a year's worth of data was available.







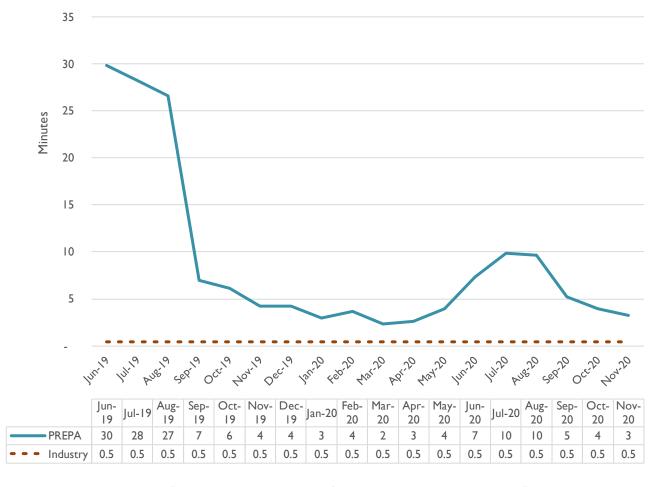
Overall System



Industry Standard Source: EIA 2018 Annual Electric Power Industry Report (EIA-861) IEEE Standard 1366 for IOUs and state utilities



Average Speed to Answer



Industry Standard Source: IFC, "Measuring Call Center Performance, Global Best Practices."



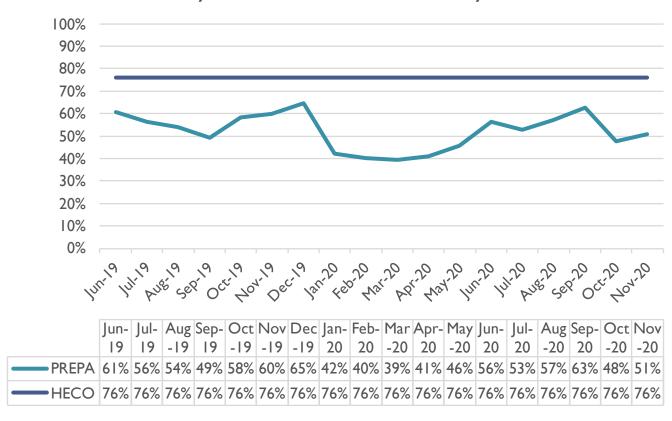
Number of Formal Customer Complaints per 10,000 Customers





Generation

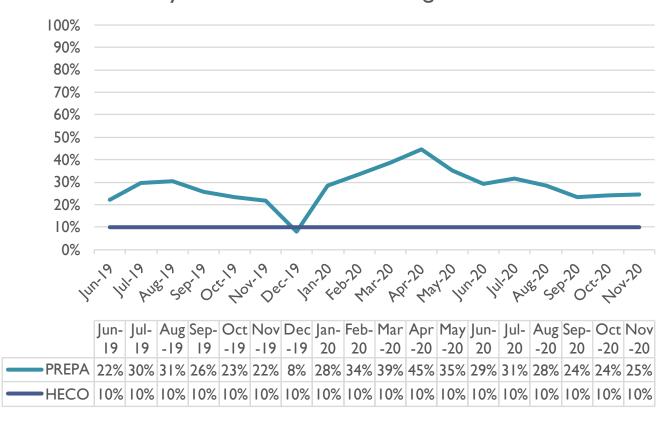
System-Level Plant Availability





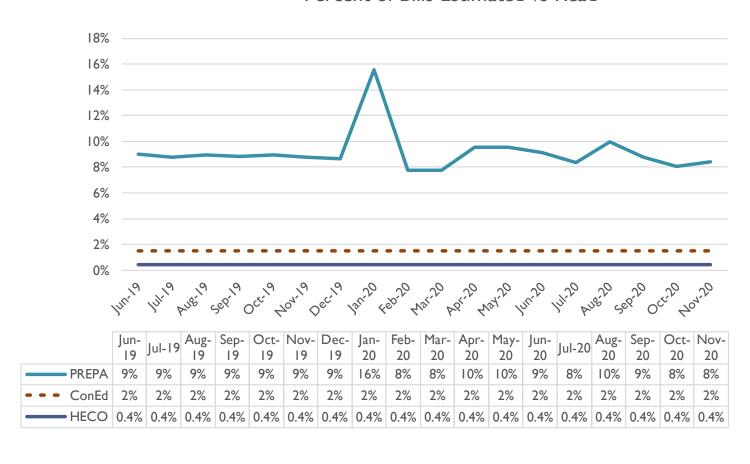
Generation

System-Level Forced Outage Rate





Percent of Bills Estimated vs Read

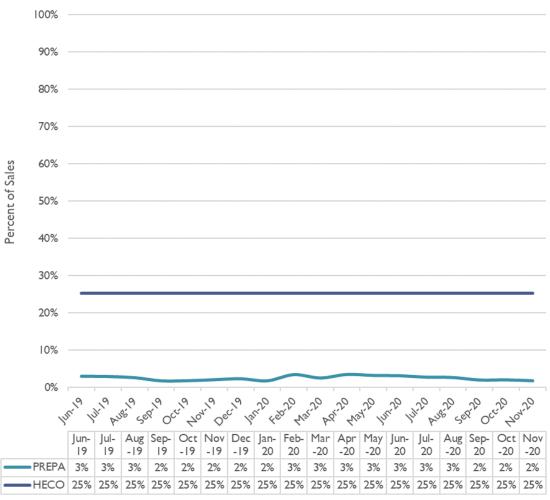


Note: We recognize that ConEd may not be the most comparable utility for PREPA in terms of this metric, and is used for illustrative purposes only



Renewables

Generation from RPS-Eligible PPOA's





Additional Selected Metrics



Overall System

Operational Expenses vs. Budget

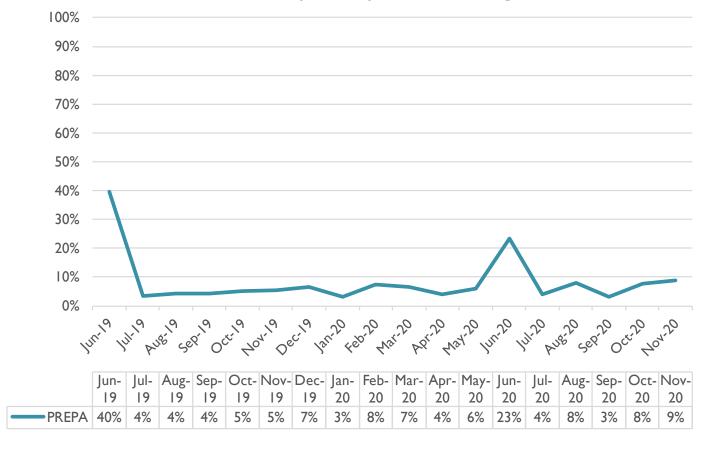


Note: PREPA is reporting monthly expenses versus the monthly budget



Overall System

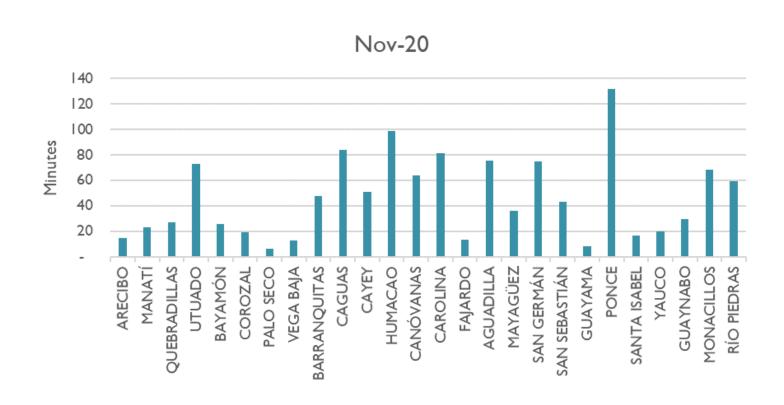
Capital Expenses vs. Budget



Note: PREPA is reporting monthly expenses versus the fiscal year budget

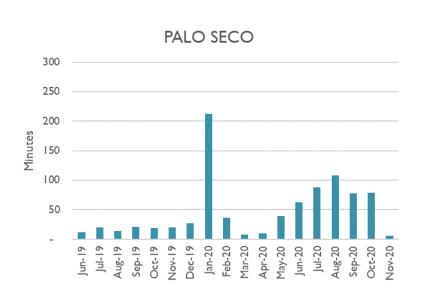


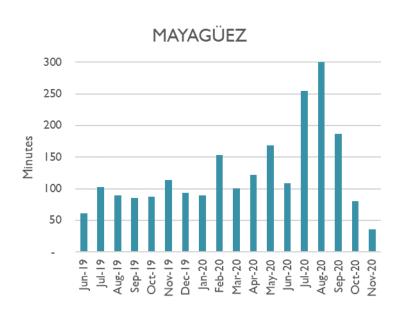
SAIDI by month and municipality





SAIDI by month and municipality

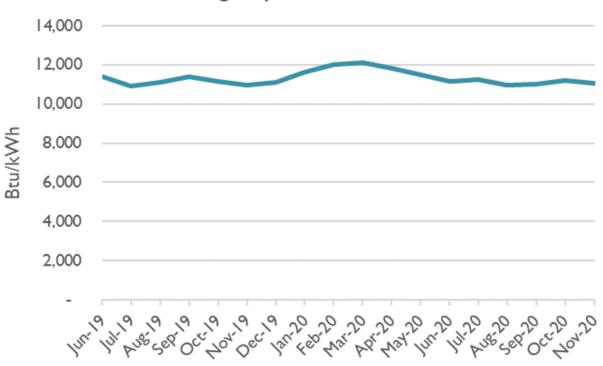






Generation

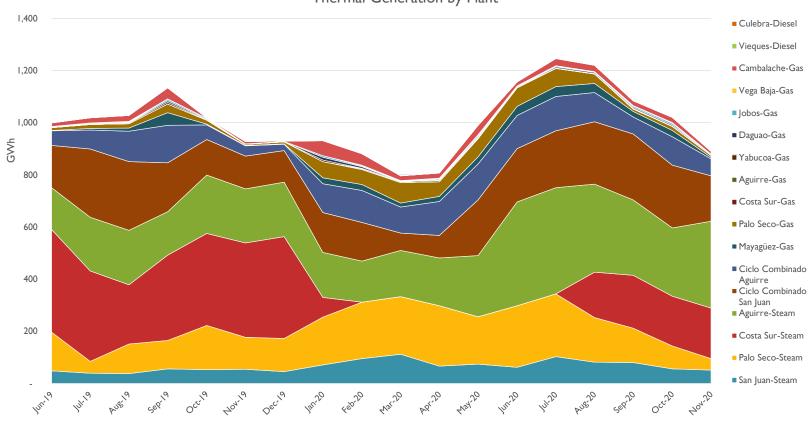
Average System Heat Rate





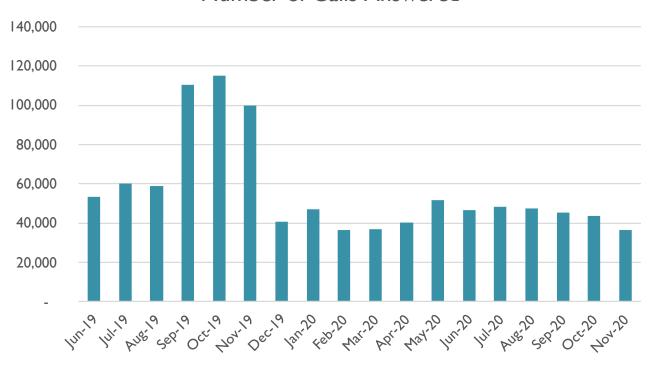
Monthly Generation by Unit

Thermal Generation by Plant





Number of Calls Answered





25,000

20,000

15,000

10,000

5,000

Customer Service

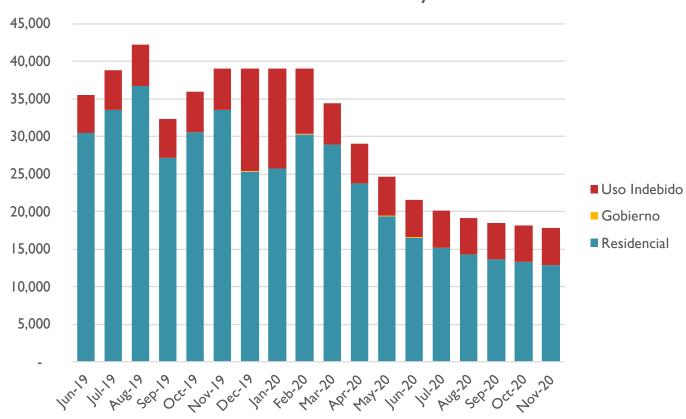


Bayamón

■ Arecibo



Customers on Extended Payment Plans

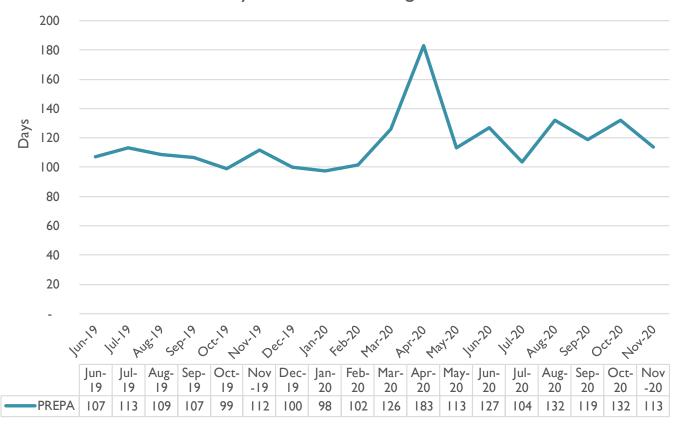








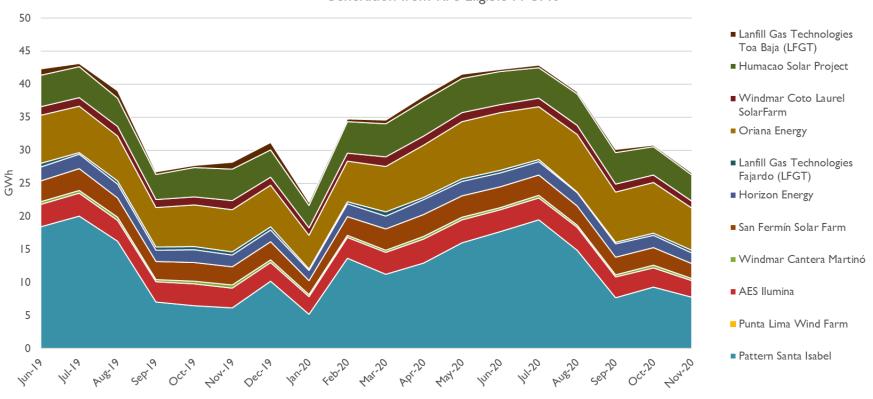
Days Sales Outstanding





Renewables and DSM Monthly Generation

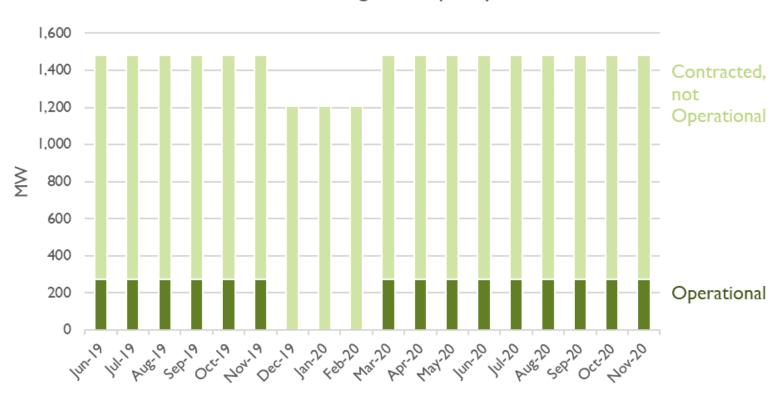
Generation from RPS Eligible PPOA's





Renewables and DSM

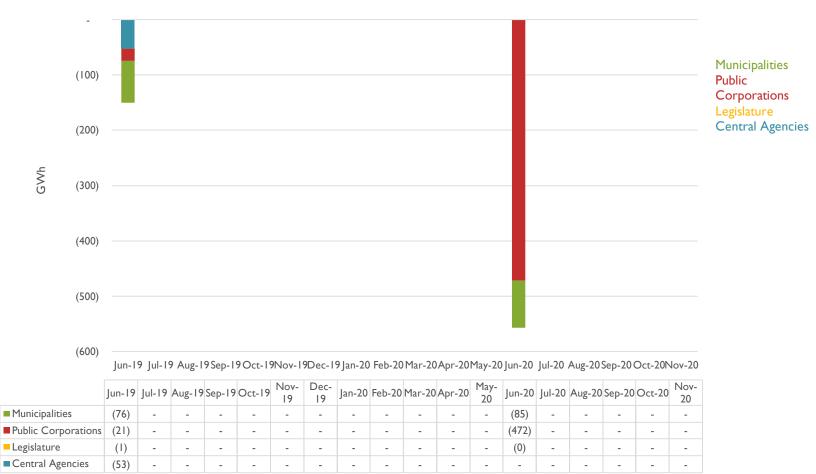
RPS-Eligible Capacity





Renewables and DSM

Annual Energy Efficiency Savings



Note: PREPA currently reports EE savings annually based on annual consumption relative to a 2013 baseline. There is an ongoing rulemaking for EE that will lay out specific EE PIMs and targets



Questions