

Citizens' Advisory Board  
Meeting  
June 18, 2020

***Charles Underhill, Director of Integrated Resources  
Reporting for April 2020.***

# Green Communities Program

- **The DOER Green Communities Division (GCD) provides grants, technical assistance, and local support from Regional Coordinators to help municipalities reduce energy use and costs by implementing clean energy projects in municipal buildings, facilities, and schools.** <https://www.mass.gov/doc/map-of-271-gcs-and-grant-summaries/download>
- Towns interested make application to the DOER GC.
- It appears that one such qualification for application for a town served by an MLP is one IOU metered customer (residential or commercial) within the town making application. However, *to be verified by the DOER during the June 23<sup>rd</sup> Town of Reading call*, is that all 4 towns within the MLP must join and all 4 towns must have an IOU meter, or all four towns must pay into the trust.
- MLPs may be requested to help facilitate the location of such a meter for a town.
- The RMLD has been requested by the Town of Reading to help locate a meter, which involves a labor-intensive effort: verification of accessors maps, town line demarcations, property addresses of any resident or commercial property on a town line around the 51 square mile perimeter of the RMLD service territory. The RMLD falls under the home rule of deregulation as a franchise and any such IOU service of MLP customers should have been brought to the attention of the MLP by the customer or the IOU.
- In an attempt to support a quick verification, the RMLD legislative liaison requested a billing inquiry to both Eversource, who abuts Reading and Wilmington, and National Grid, who abuts Lynnfield, N. Reading and Wilmington.
- Eversource relayed back to the liaison that they did not find any of the 4 RMLD towns listed in their billing system. National Grid has not responded.
- The town of Reading is having a call with the DOER on June 23<sup>rd</sup>; the GM and the BOC Chair, will be on a call June 23<sup>rd</sup> to gain additional knowledge of criteria and member benefits of the Green Communities Program.

# Green Communities Program

- According to the current list of GC and the recent grants awarded, it appears that the GC covers extensive building envelop, HVAC, lighting, fuel conversions, etc.

## GREEN COMMUNITY DESIGNATIONS REACH 271

| MA Green Communities | Designation Date / Award Date | Designation Grant Award | Grant Project Summary  | 100% Done  | Census 2015 Population |
|----------------------|-------------------------------|-------------------------|--|--|------------------------|
| 271                  | Multiple                      | \$49,467,997            |  | 194  | 5,732,016              |
|                      | July-12                       | \$2,419,773             |  | 18   |                        |
|                      | July-13                       | \$3,621,952             |  | 20   |                        |
|                      | July-14                       | \$7,625,169             |  | 41   |                        |
|                      | July-15                       | \$8,643,951             |  | 51   |                        |
|                      | July-16                       | \$9,132,763             |  | 46   |                        |
|                      | July-17                       | \$13,602,312            |  | 72   |                        |
|                      | July-18                       | \$14,150,545            |  | 74   |                        |
|                      | August-19                     | \$14,900,597            |  | 37   |                        |
|                      | Abington                      | 12/28/17                | \$164,900  | to fund energy conservation measures, energy management systems, variable frequency drives, and administrative support, in Town Hall and Library |                        |
| Acton                | 5/25/10                       | \$150,794               | to fund energy conservation measures and lighting upgrades at the Memorial Library, an HVAC analysis of Town Hall and installation of a tankless hot water heater and vending misers; lighting retrofits with LED technology at the Public Safety Facility building and Davis Memorial; and an energy education outreach program in the Acton-Boxborough Regional School District  | X  | 23,549                 |
|                      | July-12                       | \$140,738               | To fund the following energy efficiency measures in municipal school buildings: in the RJ Grey School, installation of demand control ventilation, resetting the unit ventilator controls, air sealing with caulking, and re-commissioning of boiler and rooftop unit; and air sealing with caulking at Conant, Douglas, Gates Elementary schools and the Administration building.   | X  |                        |
|                      | July-14                       | \$229,819               | to fund energy conservation measures in the Memorial Library and five schools  | X  |                        |
|                      | July-15                       | \$245,000               | to fund the following energy conservation measures: a town wide LED streetlight conversion; interior LED lighting upgrades in Parker Damon Building, RJ Grey Junior High School and Acton-Boxborough Regional High School; HVAC efficiency upgrades in Parker Damon; efficiency improvements of the cooling system at Acton-Boxborough RHS; and installation of Wi-Fi programmable thermostats in Douglas Elementary, Conant Elementary, and RJ Grey JHS | X  |                        |
|                      | July-17                       | \$244,924               | to fund energy conservation measures in municipal facilities including Parker Damon Building, Acton-Boxborough Regional High School, and RJ Grey Junior High School. The energy conservation measures funded by this grant are interior LED lighting retrofits   | X  |                        |
|                      | July-18                       | \$249,984               | to fund energy conservation measures, LED lighting retrofits and insulation jackets, in municipal facilities including DPW Building, Town Hall, Fire Stations 1, 2, and 3, Acton-Boxborough Regional High School, Parker Damon Building, and Administration Building   | X  |                        |
|                      | August-19                     | \$139,219               | to fund energy conservation measures, LED lighting and controls, in municipal facilities including Public Safety and Recreation (50 Audubon) Buildings and Acton-Boxborough Regional High School   | X  |                        |

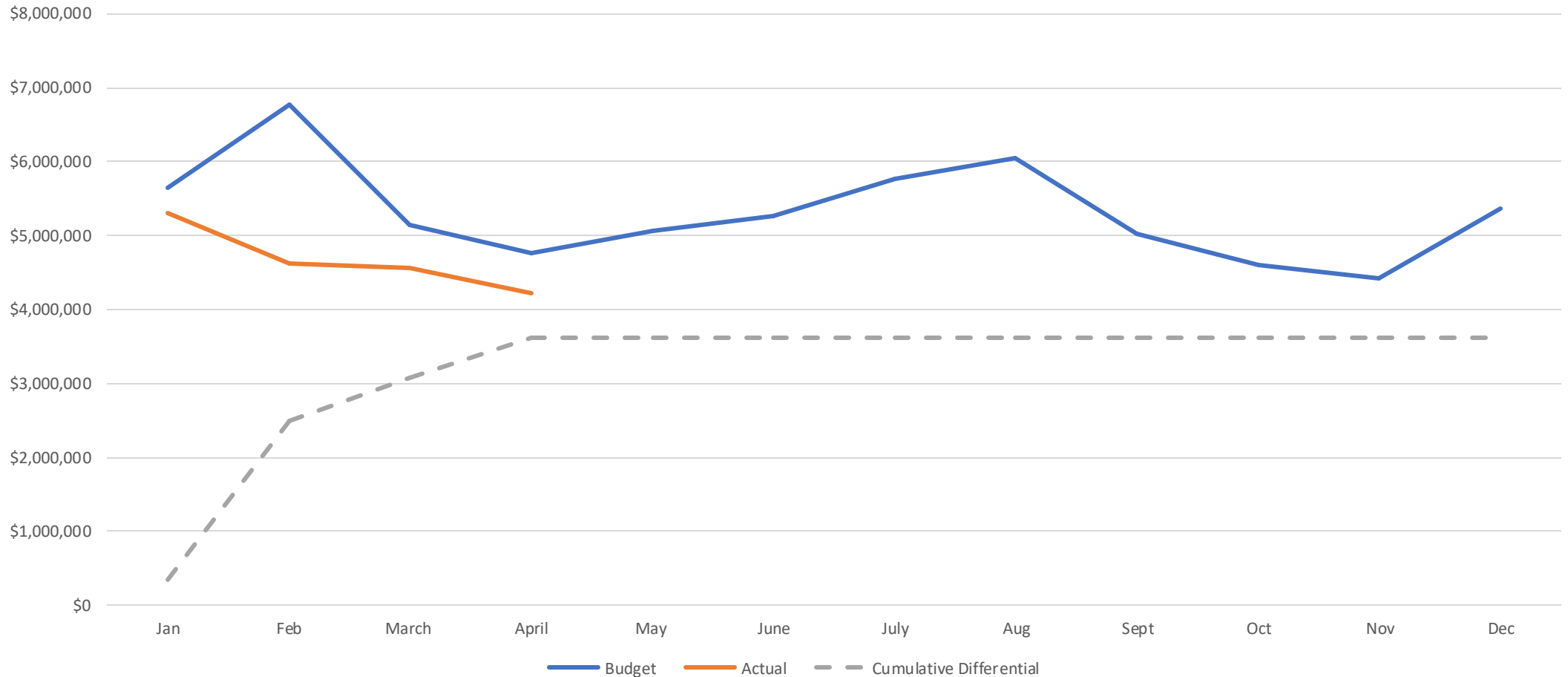
# Green Communities Program

- The RMLD offers municipal building energy audits with a wide variety of rebates for implemented recommendations. The GC offers grants that address efficiencies beyond areas that are encompassed by the RMLD including fuel conversions such as oil to natural gas, etc.
- The RMLD received a Mass \$250,000 grant for LED lights; \$125,000 for municipal use and \$125,000 for non-municipal. The RMLD completed a 3-year LED street light conversion project of all 4 towns and provided LED rebate incentives to both residential and commercial customers under said grant.
- The RMLD works to review technology adoptions to improve energy conservation and a cleaner environment. The RMLD reviews all standard technology efficiency measures for rebates offered by other MLPs and IOUs, including some impressive in-house proposals and outside proposals such that come from customers, CAC, etc. The RMLD determines through proper analysis a proposal value to the RMLD system and its customers and if adopted, is offered to all within the rate class(es).

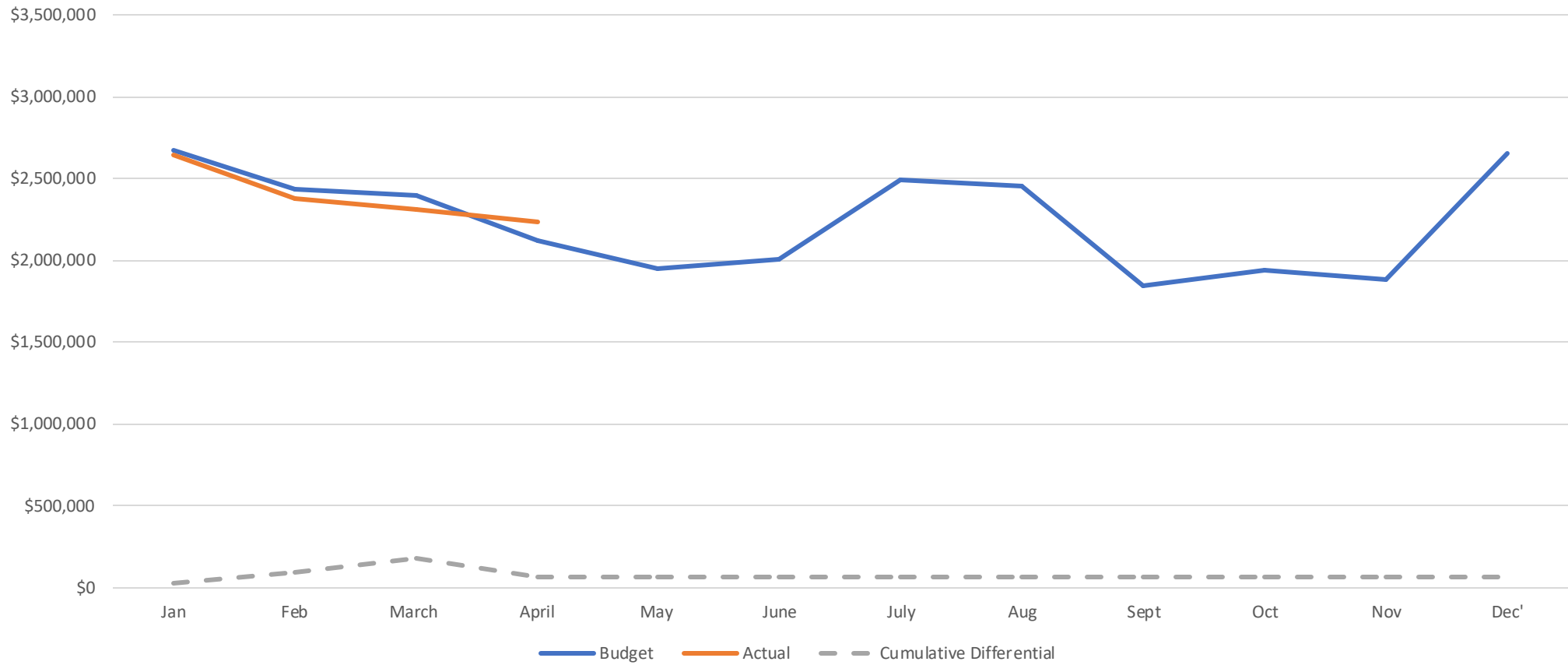
# RMLD New Programs Update

| 2020 RMLD Program Performance             |            |        |              |     |          |         |        |           |           |          |           |           |        |
|---|------------|--------|--------------|-----|----------|---------|--------|-----------|-----------|----------|-----------|-----------|--------|
| 6/10/2020                                 |            |        |              |     |          |         |        |           |           |          |           |           |        |
|   |            |        | Participants |     |          |         |        | Rebates   |           |          |           |           |        |
|   | Start Date | Budget | April (1,4)  | May | June (2) | YTD (3) | % Diff | Budget    | April (1) | May      | June (2)  | YTD (3)   | % Diff |
| Residential Programs                      |            |        |              |     |          |         |        |           |           |          |           |           |        |
| Cordless Electric Yard Equipment          | 4/1/2020   | 50     | 7            | 34  | 44       | 85      | 170%   | \$ 10,000 | \$ 610    | \$ 2,973 | \$ 3,735  | \$ 7,318  | 73%    |
| Electrical Panel Upgrade                  | 4/1/2020   | 20     | 1            | 1   | -        | 2       | 10%    | \$ 10,000 | \$ 500    | \$ 500   | \$ -      | \$ 1,000  | 10%    |
| Air-Source Heat Pump                      | 4/27/2020  | 32     | 2            | 2   | 1        | 5       | 16%    | \$ 64,000 | \$ 10,500 | \$ 9,000 | \$ 17,000 | \$ 36,500 | 57%    |
| <b>Notes:</b>                             |            |        |              |     |          |         |        |           |           |          |           |           |        |
| (1) April numbers reflect January - April |            |        |              |     |          |         |        |           |           |          |           |           |        |
| (2) Pending as of 6/10/2020               |            |        |              |     |          |         |        |           |           |          |           |           |        |
| (3) Paid and pending payment              |            |        |              |     |          |         |        |           |           |          |           |           |        |

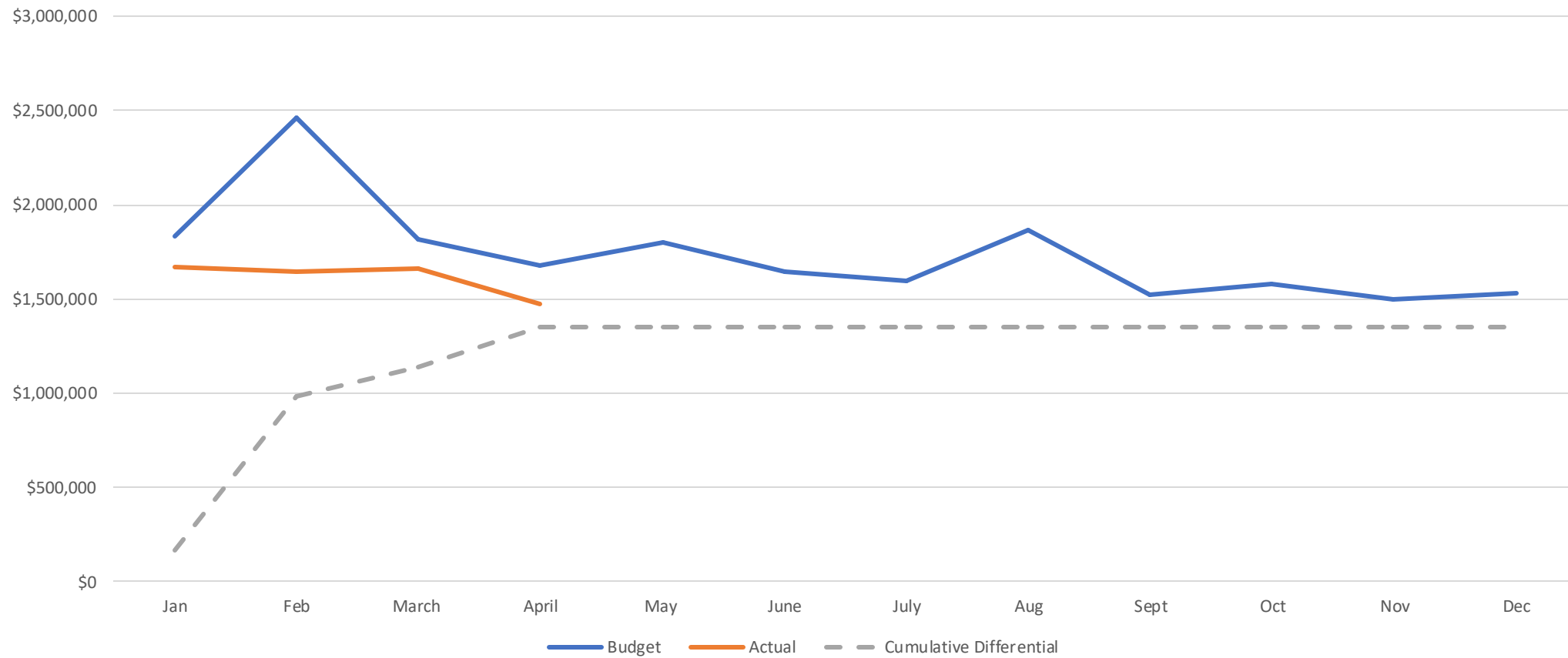
# Purchase Power Expense Budget vs. Actual Actual through April 2020



# Energy Costs Actual vs. Budget Actuals through April 2020

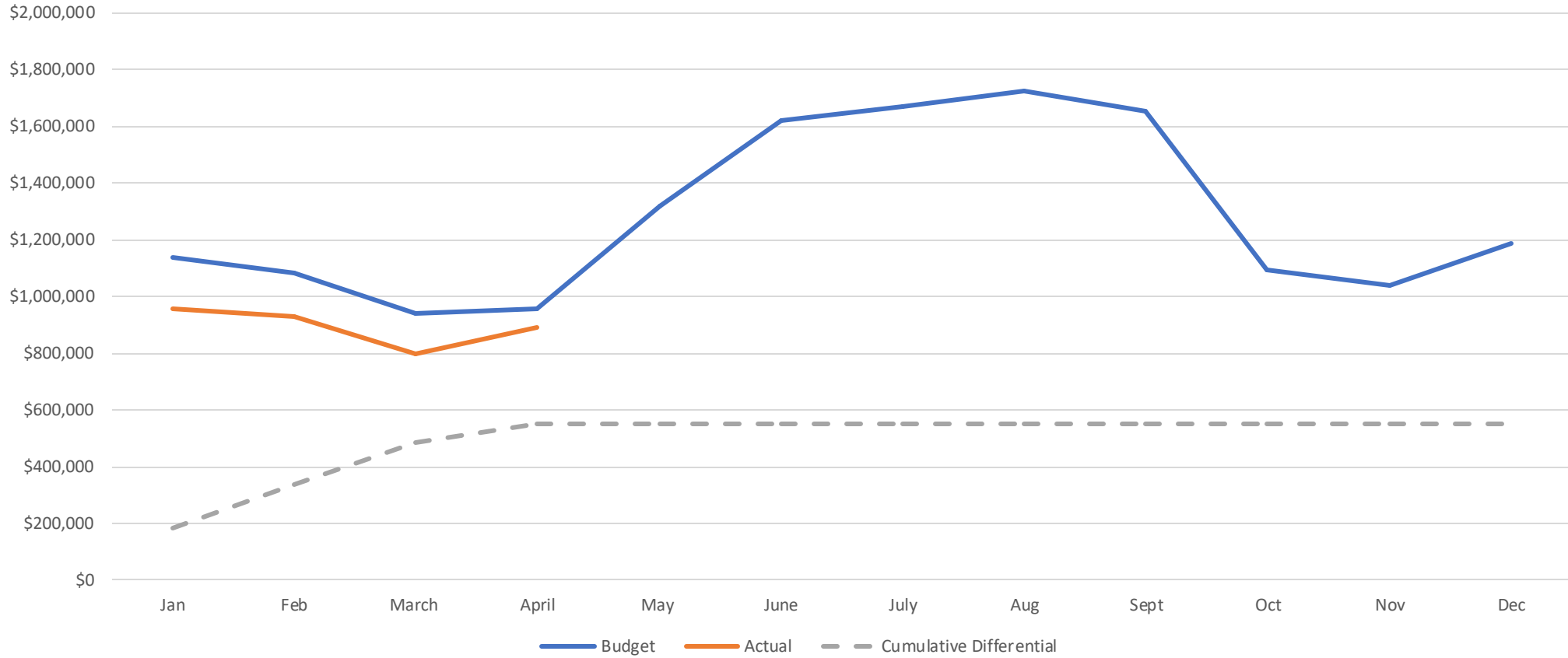


# Capacity Costs Budget Vs. Actual Actual through April 2020

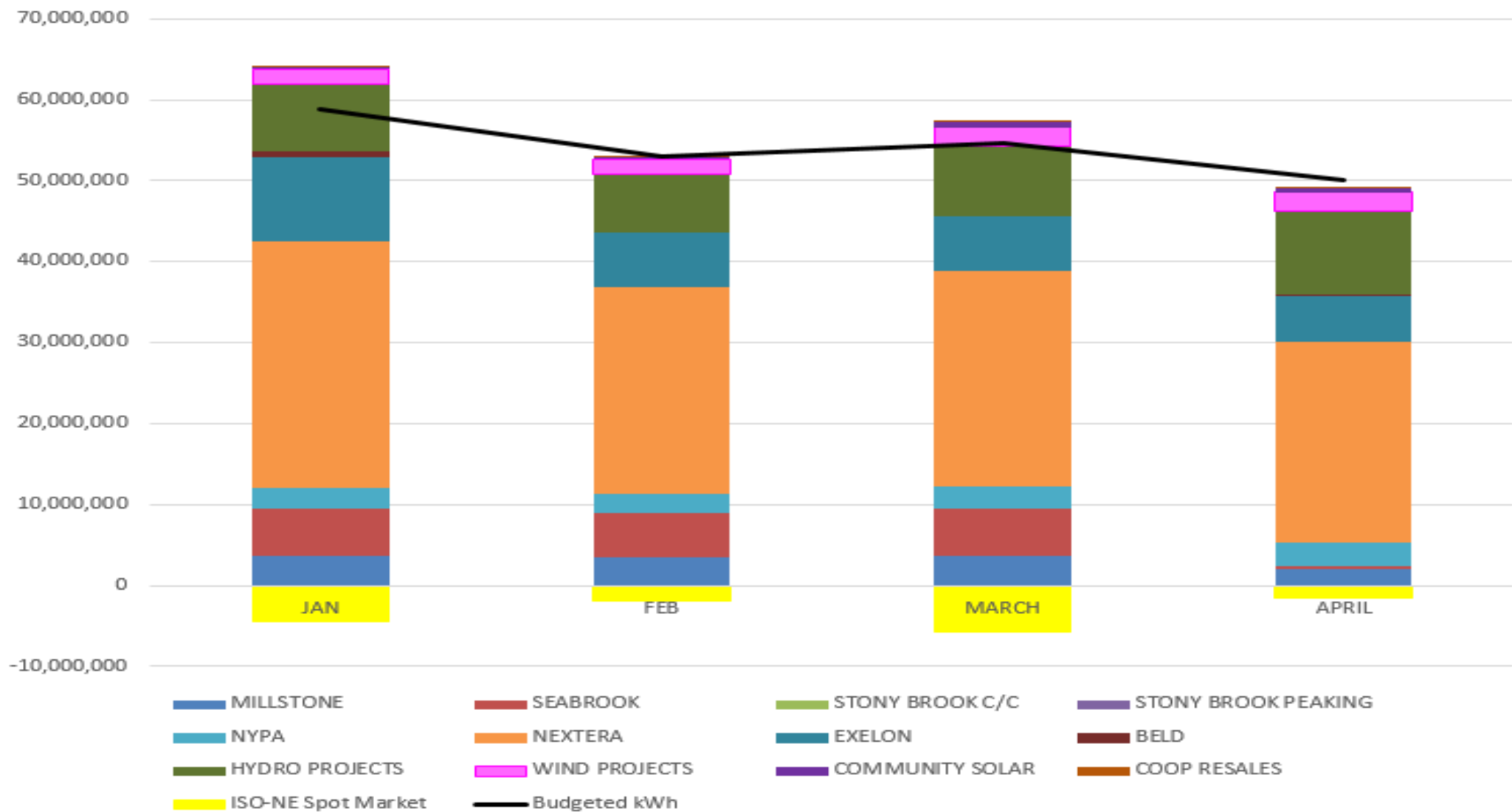




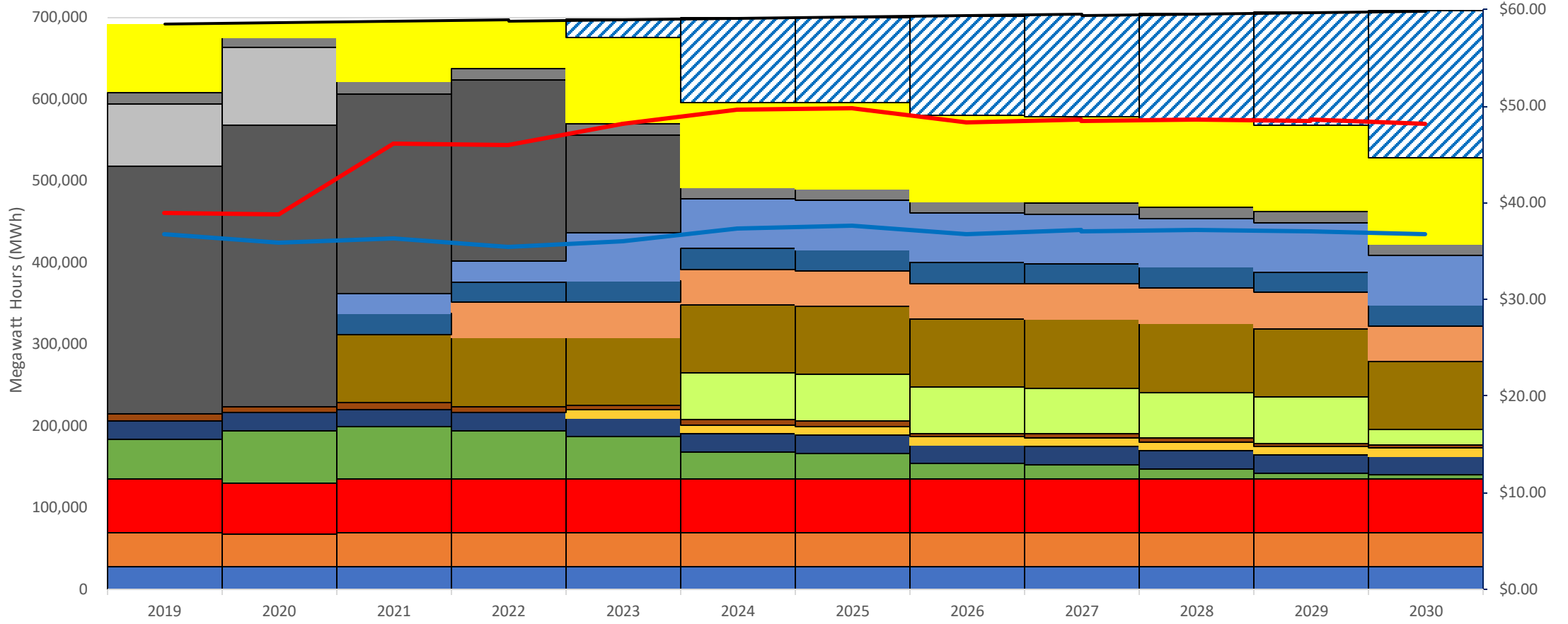
# Transmission Cost Budget vs. Actual Actual through April 2020



### Actual Kwh Purchases by Resources 2020

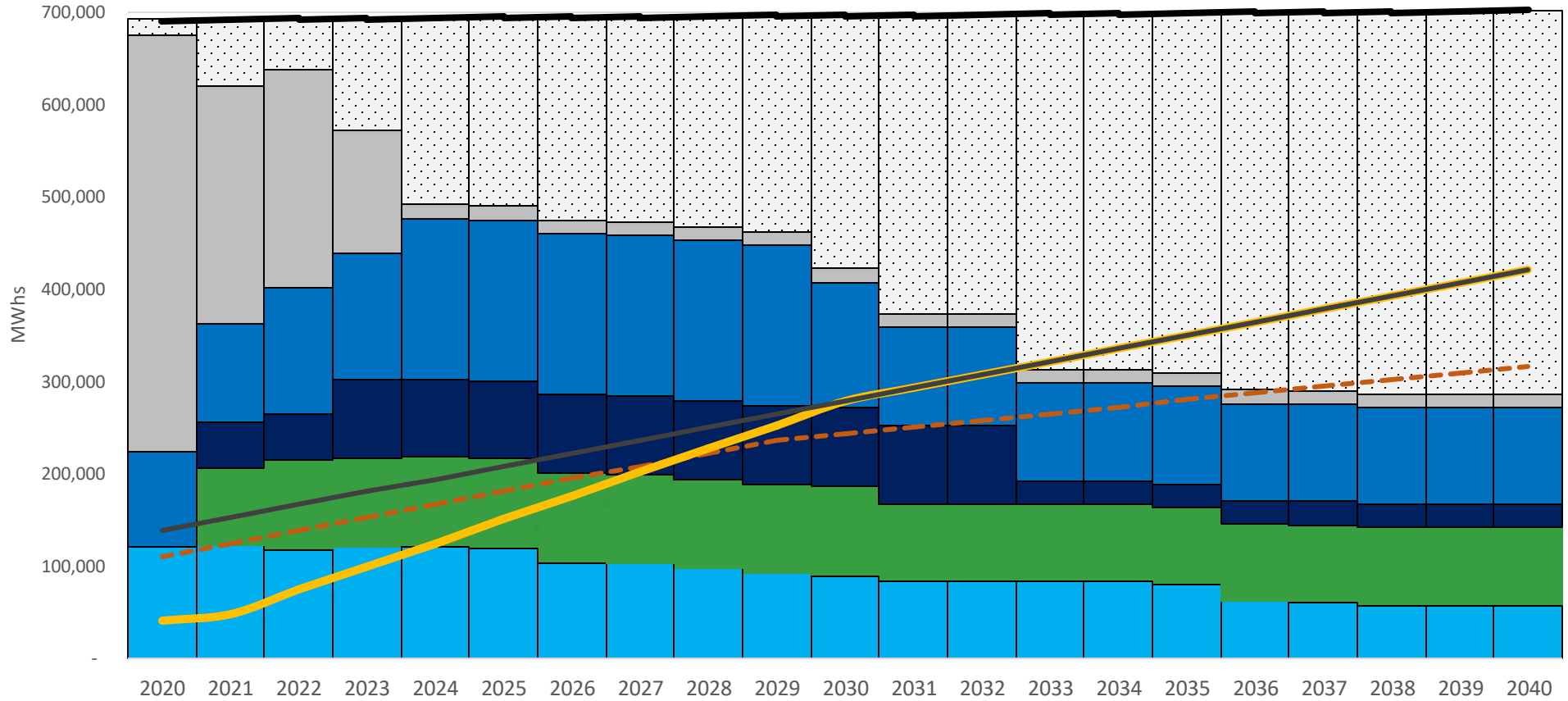


# RMLD Power Supply: Outlook Through 2030



- NYPA, Hydro
- Millstone, Nuclear
- Seabrook, Nuclear
- Hydro Projects
- Wind Projects
- DESRI
- Solar Choice
- Chariot, Solar/Nuclear
- Palmer, Biomass
- Exelon, Mixed
- Gravity
- NextEra (TFA), Mixed
- Market
- Open Position
- RMLD Load
- Portfolio Energy Costs (\$/MWh)
- Portfolio Energy Costs - REC Sales (\$/MWh)

# RMLD Power Supply: Outlook Through 2040



- Solar, Wind, Hydro
- Non-Carbon Resource
- Pending Contracts (Renewable Resources)
- Biomass
- Mixed
- Supply to be Aquired
- RMLD Load
- CES (Clean Energy Standard) - Muni Exempt
- - - RPS (Renewable Portfolio Standard) - Muni Exempt
- Golden Bill (GGES): Policy 30

# Covid-19 2020 Retail Revenue Expectations

- 2019 Base Retail Revenues: \$ 26,766,465
- 2020 Projected Retail Revenues: \$ 25,975,909
- Difference: \$ 790,556
  
- Net Impact: -3.0%