

Q4 Quarterly Business Review Technical Workshop

Nov 16, 2022

1:00 p.m. – 3:00 p.m.

WebEx:

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Meeting password: xpUdH4RWR95

#1

STRENGTHEN
FINANCIAL HEALTH

Agenda

| Time | Min | Agenda Topic | Presenter |
|------|-----|--|--|
| 1:00 | 5 | Introduction | Veronica Wittig |
| 1:05 | 5 | Agenda | Will Rector |
| 1:10 | 25 | FY22 Q4 Results: Including Income Statement, Capital, and Transmission Capital Metrics | Mario Molina, Ben Agre, Manny Holowatz, Kyle Hardy, Mike Miller, Jeff Cook |
| 1:35 | 30 | Reserves and RDC | Damen Bleiler, Miranda McGraw, Emily Traetow |
| 2:05 | 15 | Grid Modernization Update | John Nguyen/Allison Mace |
| 2:20 | 15 | Question & Answer | Will Rector |
| 2:35 | 5 | Closing | Will Rector |

FY22 Q4 Results: Including Income Statement, Capital and Reserves

Presenters: Mario Molina, Ben Agre, Manny Holowatz, Gwen Resendes, Heather Seibert, Damen Bleiler

| | | |
|------------------------------------|--|--|
| Report ID: 0121FY22 | QBR Forecast Analysis: Power Services | Data Source: PFMS |
| Requesting BL: POWER BUSINESS UNIT | Program Plan View | Run Date/Time: October 24,2022 / 07:45 |
| Unit of measure: \$ Thousands | Through the Month Ended September 30, 2022 | % of Year Elapsed = 100% |
| | Preliminary / Unaudited | |

| | | A | B | C |
|---|---|-------------------|-------------------|----------------------------|
| | | FY 2022 | | FY 2022 |
| | | Rate Case | Actuals: FYTD | EOY Actuals - Rate Case |
| Operating Revenues | | | | |
| 1 | Gross Sales (excluding bookout adjustment) | \$ 2,557,504 | \$ 3,494,647 | \$ 937,143 |
| 2 | Bookout Adjustment to Sales | - | (62,570) | (62,570) |
| 3 | Other Revenues | 32,173 | 54,568 | 22,395 |
| 4 | Inter-Business Unit | 104,113 | 97,575 | (6,538) |
| 5 | U.S. Treasury Credits | 98,771 | 116,919 | 18,148 |
| 6 | Total Operating Revenues | 2,792,561 | 3,701,138 | 908,578 |
| Operating Expenses | | | | |
| Integrated Program Review Programs | | | | |
| 7 | Asset Management | 979,404 | 946,059 | (33,345) |
| 8 | Operations | 140,380 | 124,272 | (16,108) |
| 9 | Commercial Activities | 94,842 | 76,090 | (18,752) |
| 10 | Enterprise Services G&A | 83,602 | 94,132 | 10,530 |
| 11 | Undistributed Reduction | (2,971) | - | 2,971 |
| 12 | Other Income, Expenses & Adjustments (IPR O&M) | - | - | - |
| 13 | Sub-Total Integrated Program Review Operating Expenses | 1,295,257 | 1,240,553 | (54,704) |
| Operating Expenses | | | | |
| Non-Integrated Program Review Programs | | | | |
| 14 | Asset Management | 45,359 | 43,819 | (1,540) |
| 15 | Operations | 355,684 | 350,030 | (5,654) |
| 16 | Commercial Activities | 222,251 | 488,428 | 266,177 |
| 17 | Other Income, Expenses & Adjustments (Non-IPR O&M) | - | (1,014) | (1,014) |
| 18 | Non-Federal Debt Service <Note 2 | - | - | - |
| 19 | Depreciation, Amortization & Accretion | 498,603 | 502,247 | 3,644 |
| 20 | Sub-Total Non-Integrated Program Review Operating Expenses | 1,121,897 | 1,383,510 | 261,612 |
| 21 | Total Operating Expenses | 2,417,154 | 2,624,063 | 206,909 |
| 22 | Net Operating Revenues (Expenses) | 375,407 | 1,077,076 | 701,669 |
| Interest expense and other income, net | | | | |
| 23 | Interest Expense | 266,152 | 255,641 | (10,510) |
| 24 | AFUDC | (11,005) | (10,166) | 839 |
| 25 | Interest Income | (1,514) | (6,875) | (5,361) |
| 26 | Other income, net | (13,256) | (20,318) | (7,062) |
| 27 | Total interest expense and other income, net | 240,377 | 218,283 | (22,094) |
| 28 | Total Expenses | 2,657,531 | 2,842,346 | 184,815 |
| 28 | Net Revenues (Expenses) | \$ 135,030 | \$ 858,793 | \$ 723,763 |

Power Services QBR Analysis: FY22 Results

(Note: Variance explanations are for +/- \$2M or greater)

Operating Revenues:

Row 1 – Gross Sales came in \$937M higher than rate case, mainly driven by the following:

- FY22 Priority Firm revenues came in \$25M higher than rate case due to higher Composite revenues mainly due to higher loads. Demand Revenues came in \$16M higher than rate case and Load Shaping revenues came in \$30M higher than rate case due to variability in weather.
- Trading Floor Sales came in \$901M higher than rate case driven by higher than expected market prices and favorable water conditions.
- The Reserves Distribution Clause, which was applied out in December through the remainder of FY22 as a credit to customer bills of roughly \$14M.
- The Slice True-up resulted in a credit to customers of \$8.6M, which slightly offsets higher gross sales.

Row 3 – Other Revenues: came in at \$22M higher due to the Financial Swap revenues which are not forecast in the rate case. This increase is partially offset by decreasing EE revenues of \$7.7M because the federal EE reimbursable program is ending.

Row 4 – Inter-Business Unit Revenues: Generation Inputs are \$6.5M lower than rate case. \$3M of this decrease is due to forecasting differences in Balancing Reserves Regulation and Non-Regulation, which are updated monthly with more accurate data from Transmission. Additionally all penalties (imbalance, oversupply, and financials for inaccuracy) are not forecasted in the rate case but reflected in actuals and this year these penalties amount to a credit to Transmission. Additionally, the Financial for Inaccuracy penalty and Oversupply were not forecasted in the rate case but are reflected in actuals.

Row 5 – U.S. Treasury Credits: Treasury Credits are \$18.1M higher than rate case due to higher prices and higher replacement power purchases.

Power Services QBR Analysis: FY22 Results

(Note: Variance explanations are for +/- \$2M or greater)

Integrated Program Review Operating Expenses:

Row 7: Asset Management: came in at \$33.3M below rate case due to the following: Corps of Engineers, Columbia Generating Station, Bureau of Reclamations, and F&W all coming in under budget due to project delays and supply chain issues. Lastly, the Nuclear Electric Insurance Limited (NEIL) rebate Energy Northwest received at the end of March further reduced costs.

Row 8 – Operations: came in at \$16M below rate case mainly due to a ~\$4M reduction in the Conservation Infrastructure program to better align with the firm fixed pricing that the Energy Efficiency program has negotiated. In addition, Renewable Power Purchases came in under budget due to wind generation. Also contributing to this were reductions in personnel cost and service contracts.

Row 9 - Commercial Activities: came in at \$18.7M below rate case due to lower Conservation Purchases from BPA's Energy Efficiency Program. The rate at which utilities submitted claims for Energy Efficiency Incentive reimbursement has been lower than the seasonal average for year 1 of the past 4 rate periods. BPA also had a soft launch for BEETS, a new invoicing software, so some of the utilities involved in the pilot held their claims until they could enter into BEETS. Also, contributing to this is lower Enterprise Services direct charging into Power.

Row 10 – Enterprise Services: came in at \$10.5M above rate case the main drivers include: Enterprise Services costs are rising from the new Chief Workforce and Strategy Office, which was not anticipated in the rate case. Also, there are expected increases in IT costs such as conference room retrofitting for hybrid meetings, and less direct charging than assumed in rate case.

Power Services QBR Analysis: FY22 Results

(Note: Variance explanations are for +/- \$2M or greater)

Non-Integrated Program Review Operating Expenses:

Row 16 – Commercial Activities: came in at \$266M higher than rate case due to Power Purchases (short term) coming in \$375.5M higher than rate case. The increase in power purchase was mainly driven by the colder than expected conditions which, increased load and decreased hydro generation from snowmelt during the spring months. The increased power purchase expense during the spring were caused by increased prices reflecting the relative scarcity of generation in the markets prompted by the delayed generation. Partially offsetting this expense increase was no Tier 2 power purchases and lower spending from the Energy Efficiency Development program.

Row 19 – Depreciation, Amortization & Accretion: Amortization is \$3.6M above rate case due to placing more regulatory assets in service compared to rate case assumptions.

Row 23 - Interest Expense: interest expense is \$10.5M lower due to the following:

- Overall lower Non-Federal interest expense is \$15.0M lower primarily due to the premium amortization of \$18.0M from the FY21 and FY22 bond transactions that was not anticipated in the rate case. This is partially offset by a \$3.0M increase in interest expense based Energy Northwest's budget true-up for their FY22, which ended on June 30.
- Offset by higher Federal Interest which is \$4.5M higher due to a higher appropriation balance outstanding compared to rate case expectations resulting in a \$2.6M variance, as well as new federal bonds issued at higher rates than anticipated contributing \$2.0M to the variance.

Row 25 – Interest Income: increased interest income of \$5.4M is due to much larger cash balances invested at higher interest rates than anticipated in the rate case.

Row 26 – Other Income, net: \$7.1M higher than rate case due to a \$2.0M non-cash gain on the extinguishment of Energy Northwest debt combined with higher than expected recognized gains (\$5.1M) on the Columbia Generating Station Decommissioning trust fund driven primarily by dividends.

Row 28 – Total Net Revenues: came in at \$859 million, which is \$724 million greater than rate case. This increase is caused by higher than expected operating revenues.

| | | |
|---|---|---|
| Report ID: 0123FY22 | QBR Forecast Analysis: Transmission Services | Data Source: PFMS |
| Requesting BL: Transmission Business Unit | Program Plan View | Run Date/Time: October 15, 2022 / 09:57 |
| Unit of Measure: \$ Thousands | Through the Month Ended September 30, 2022 | % of Year Elapsed = 100% |
| | Preliminary / Unaudited | |

| | A | B | C |
|--|------------------|-------------------|----------------------------|
| | FY 2022 | | FY 2022 |
| | Rate Case | Actuals: FYTD | EOY Actuals - Rate Case |
| Operating Revenues | | | |
| 1 Sales | \$ 991,201 | \$ 1,070,446 | \$ 79,245 |
| 2 Other Revenues | 44,956 | 47,540 | 2,584 |
| 3 Inter-Business Unit Revenues | 126,731 | 131,972 | 5,241 |
| 4 Total Operating Revenues | 1,162,889 | 1,249,958 | 87,069 |
| Operating Expenses | | | |
| Integrated Program Review Programs | | | |
| 5 Asset Management | 286,951 | 294,401 | 7,451 |
| 6 Operations | 64,284 | 67,336 | 3,052 |
| 7 Commercial Activities | 56,470 | 54,337 | (2,132) |
| 8 Enterprise Services G&A | 103,195 | 121,778 | 18,583 |
| 9 Undistributed Reduction | - | - | - |
| 10 Other Income, Expenses and Adjustments (IPR O&M) | - | - | - |
| 11 Sub-Total Integrated Program Review Operating Expenses | 510,899 | 537,853 | 26,953 |
| Non-Integrated Program Review Programs | | | |
| 12 Commercial Activities | 112,521 | 125,628 | 13,106 |
| 13 Other Income, Expenses and Adjustments (Non-IPR O&M) | - | (1,252) | (1,252) |
| 14 Depreciation & Amortization | 352,384 | 338,768 | (13,616) |
| 15 Sub-Total Non-Integrated Program Review Operating Expenses | 464,905 | 463,143 | (1,762) |
| 16 Total Operating Expenses | 975,805 | 1,000,996 | 25,191 |
| 17 Net Operating Revenues (Expenses) | 187,084 | 248,961 | 61,878 |
| Interest expense and other income, net | | | |
| 18 Interest Expense | 161,283 | 159,113 | (2,170) |
| 19 AFUDC | (15,937) | (14,773) | 1,164 |
| 20 Interest Income | (3,135) | (3,714) | (579) |
| 21 Other income, net | - | - | - |
| 22 Total interest expense and other income, net | 142,210 | 140,625 | (1,585) |
| 23 Total Expenses | 1,118,015 | 1,141,621 | 23,606 |
| 24 Net Revenues (Expenses) | \$ 44,873 | \$ 108,336 | \$ 63,463 |

Transmission Services QBR Analysis: FY22 Results

(Note: Variance explanations are for +/- \$2M or greater)

Operating Revenues:

Row 1 – Sales: \$79 million above rate case primarily driven by increased Conditional Firm Long-term Point-to-Point, Point-to-Point Short-term, Southern Intertie Short-term, Scheduling, System Control & Dispatch, and Network Integrated Transmission Service sales.

Row 2 – Other Revenues: \$3 million above rate case primarily due to penalty and misc. revenues.

Row 3 – Inter-Business Unit Revenues: \$5 million above rate case primarily due to an increase in short-term sales.

Integrated Program Review Operating Expenses:

Row 5 – Asset Management: \$8 million above rate case primarily driven by a reprioritization in Transmission departmental program spending, cost shifts from capital to expense, increased wildfire mitigation costs, increased costs related to compliance workload, and increased personnel costs driven by compensation higher than forecast in the rate case.

Row 6 – Operations: \$3 million above rate case primarily due to increased personnel costs driven by compensation higher than forecast in the rate case

Row 7 – Commercial Activities: \$2 million below rate case resulting from Transmission departmental spending shifting to the Asset Management program and Corporate departmental spending shifting to Enterprise Services G&A and other Programs.

Row 8 – Enterprise Services G&A: \$19 million above rate case primarily driven by less direct charging than assumed in rate case, a termination of the direct support allocations, an increase in the Additional Post-Retirement Payment, increased funding for security and COVID testing, and an increase to fund the new Chief Workforce & Strategy Organization.

Transmission Services QBR Analysis: FY22 Results

(Note: Variance explanations are for +/- \$2M or greater)

Non-Integrated Program Review Operating Expenses:

Row 12 – Commercial Activities: \$13 million above rate case due primarily to EIM Entity Scheduling Coordinator (EESC) expenses which were not forecast in the rate case, these expenses are offset by increased revenues related to customer sub-allocations of these EESC expenses which results in a net impact of a \$2m reduction to Transmission Net Revenue.

Row 14 – Depreciation and Amortization: \$14 million lower than rate case based on lower Transmission Capital and Plant-in-Service than forecast in the rate case, which is partially offset by increased Amortization expense resulting from the lease accounting transition in FY20.

Row 18 – Interest Expense: \$2 million lower than rate case primarily driven by the FY21 \$300M Lease Purchase bond transaction closing at approximately 1% lower than assumed.

Agency Capital Expenditures: FY22 EOY Results

| Thousands \$ | | Rate Case | Actuals | Actuals - Rate Case | Actuals/ Rate Case |
|-----------------------------------|---|----------------|----------------|---------------------|--------------------|
| Transmission Business Unit | | | | | |
| 1 | EXPAND/SUSTAIN | 312,000 | 289,550 | (22,450) | 93% |
| 2 | PFIA | 45,000 | 26,152 | (18,848) | 58% |
| 3 | SECURITY | 8,000 | 330 | (7,670) | 4% |
| 4 | FLEET | 10,000 | 7,625 | (2,375) | 76% |
| 5 | IT | 8,000 | 2,958 | (5,042) | 37% |
| 6 | FACILITIES | 53,200 | 38,947 | (14,253) | 73% |
| 7 | ENVIRONMENT | 5,580 | 6,298 | 718 | 113% |
| 8 | LOADINGS | 115,369 | 125,240 | 9,871 | 109% |
| 9 | TOTAL Transmission Business Unit | 557,149 | 497,100 | (60,049) | 89% |
| Power Business Unit | | | | | |
| 10 | FED HYDRO | 264,120 | 180,374 | (83,746) | 68% |
| 11 | F&W | 43,000 | 16,119 | (26,881) | 37% |
| 12 | IT | 4,300 | 762 | (3,538) | 18% |
| 13 | FACILITIES | - | 1,002 | 1,002 | - |
| 14 | AFUDC | 10,823 | 9,966 | (857) | 92% |
| 15 | TOTAL Power Business Unit | 322,243 | 208,224 | (114,019) | 65% |
| Corporate Business Unit | | | | | |
| 16 | IT | 7,628 | 15,367 | 7,739 | 201% |
| 17 | AFUDC | 182 | 663 | 481 | 364% |
| 18 | TOTAL Corporate Business Unit | 7,810 | 16,030 | 8,220 | 205% |
| 19 | Total BPA Capital Expenditures | 887,202 | 721,354 | (165,848) | 81% |

Agency Capital Expenditures: FY22 EOY Results

(Note: Variance explanations are for +/- \$2M or greater; all numbers are loaded)

Transmission Business Unit

Row 1 – Expand/Sustain: \$22 million below rate case primarily due to concerns around supply chain and resourcing issues. However, \$290 million in actuals is an increase from the Q3 forecast due to strong performance in the Control Center projects, Grid Mod, and Line Ratings programs.

Row 2 – PFIA: \$19 million below rate case due to contracting delays, customer requests to delay/cancel projects, supply chain, and resourcing issues.

Row 3 – Security: \$8 million below rate case due to contracting delays for Sno-King and Tacoma substation security fence projects.

Row 4 – Fleet: \$2 million below rate case due to supply chain disruptions and market instability that pushed manufacture and delivery of equipment to FY23.

Row 5 – IT: \$5 million below rate case due to focus on Corporate IT projects for Grid Mod, EIM, and Enterprise budgeting and forecasting.

Rows 6 – Facilities: \$14 million below rate case to account for supply chain disruptions on the TSB, Fuel Island and Ross HazMat building projects which are limiting materials and delaying delivery of equipment. The VCC building project also saw a decrease as Phase 1 was extended by one quarter to incorporate technology requirements that pushed spending out of FY22 and into future years.

Row 8 – Loadings: \$10 million above rate case due to higher transmission and corporate indirects.

Power Business Unit

Row 10 – Fed Hydro: \$84 million total below rate case due to COVID supply chain issues, labor constraints, and contracting setbacks for both the Bureau and Army Corps.

-Bureau of Reclamation: \$24 million below rate case

-Army Corps of Engineers: \$60 million below rate case

Row 11 – Fish and Wildlife: \$27 million below rate case due to delays in hatchery projects and land purchases as well as coming in under budget by approximately \$4 million on the Steigerwald reconnection project.

Row 12 – Power IT: \$4 million below rate case due to focus on Corporate IT projects for Grid Mod, EIM, and Enterprise budgeting and forecasting.

Corporate Business Unit

Row 16 – Corporate IT projects: \$8 million above rate case due to focus on Corporate IT projects including Grid Mod, EIM and Enterprise budgeting and forecasting projects. Across business units the agency IT budget ended less than \$1 million below rate case.

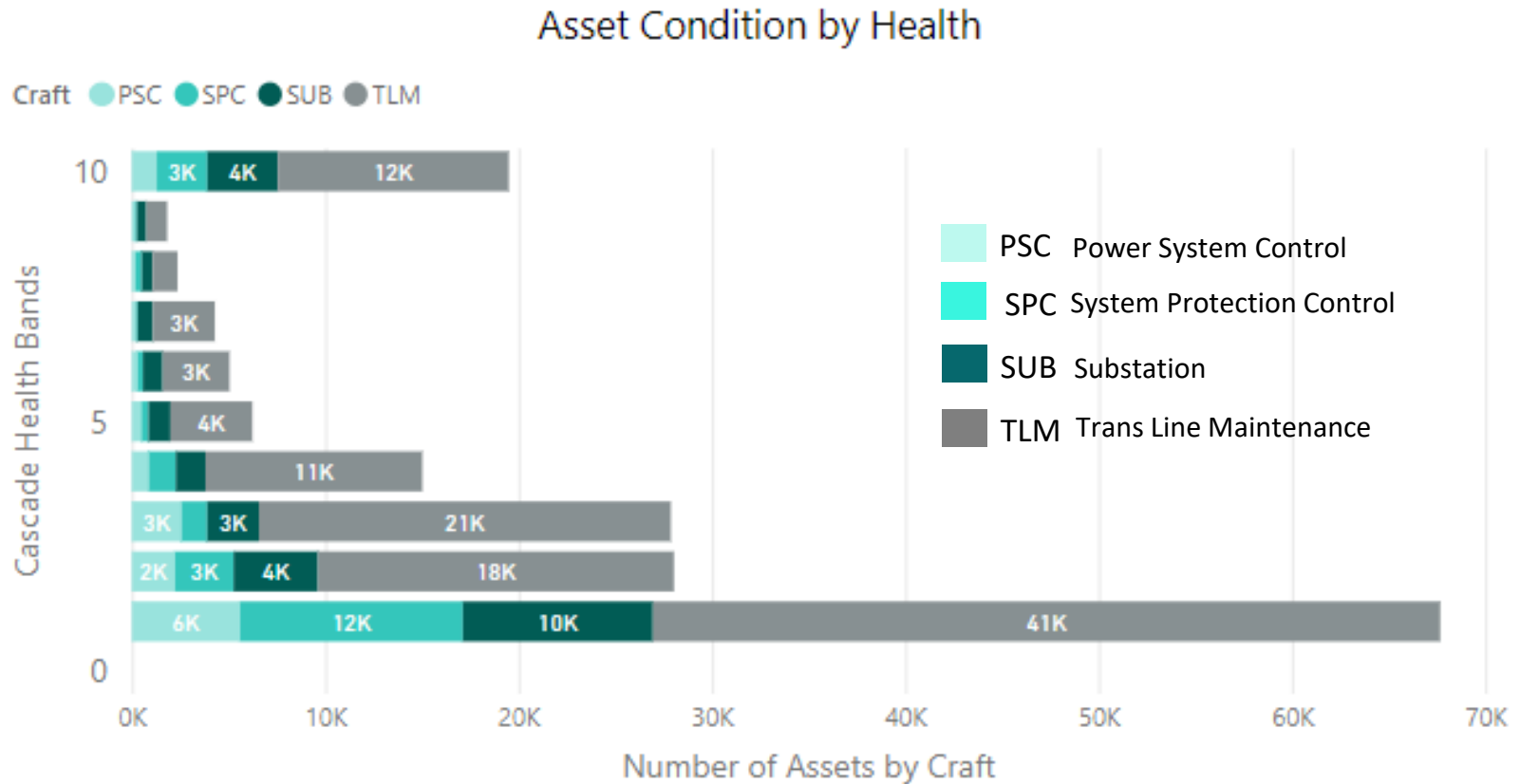
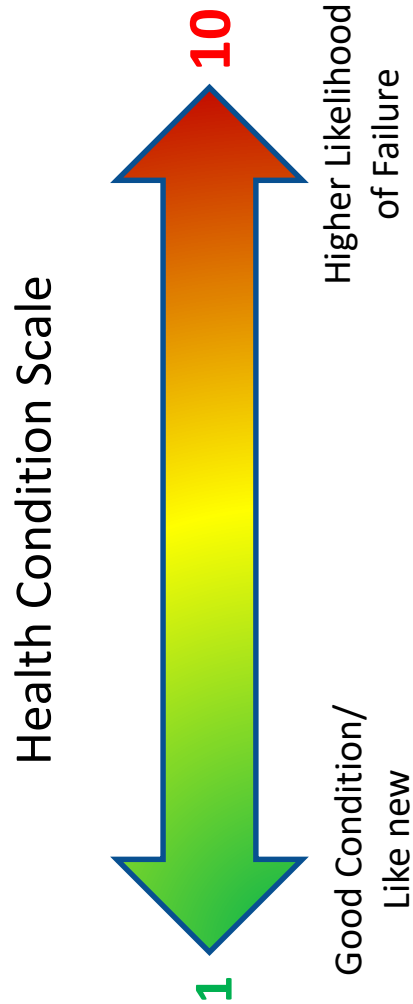
Transmission Capital Metrics

Jeff Cook and Mike Miller

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Asset Management Health Metric

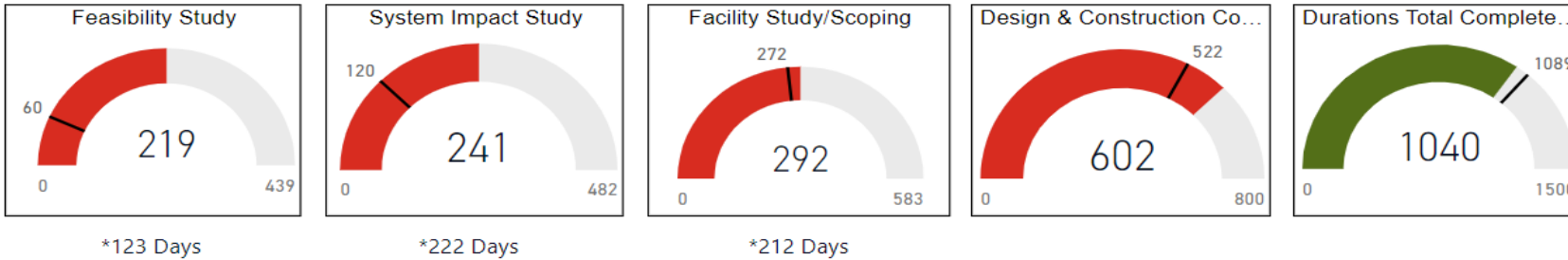


***Transmission is defining its population of critical assets as assets represented in Transmission’s sustain program. The definition of critical assets will continue to evolve as we get further into the Asset Hierarchy effort.

Transmission’s health scoring methodology is most mature for substations and some lines assets, or about 40% of the assets included in Transmission’s sustain program.

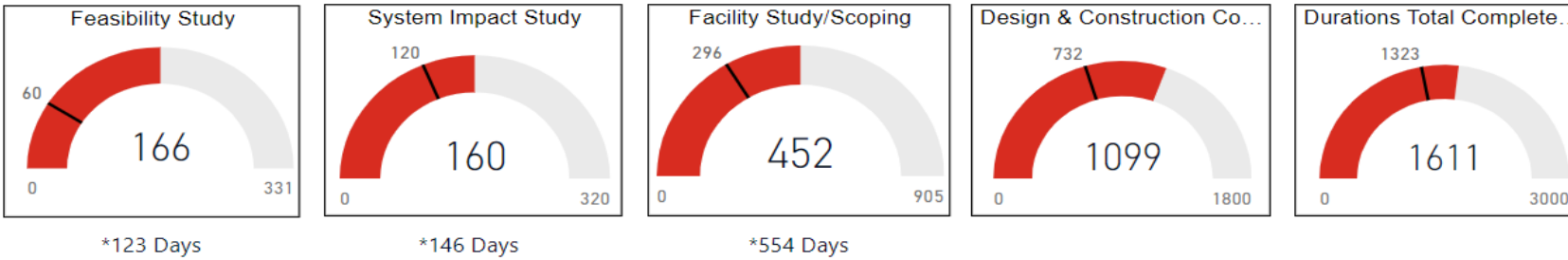
Customer Duration Metric

Small Projects: Line tap, ratings upgrade, minor equipment or communications gear



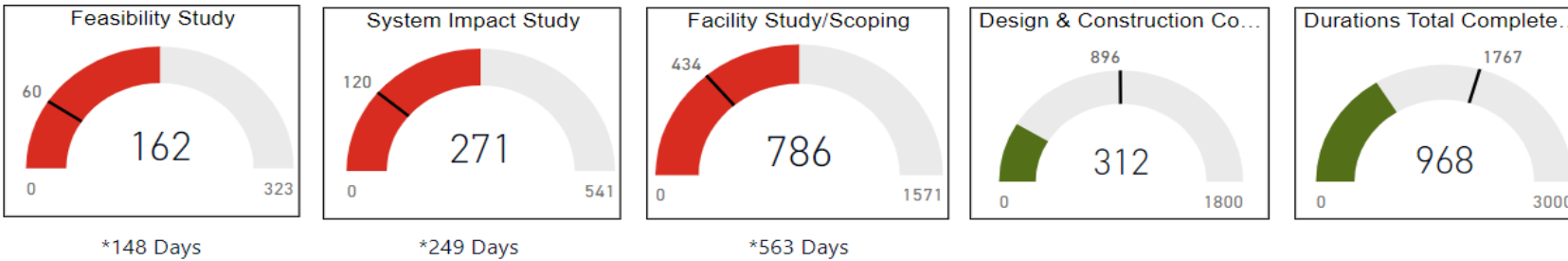
Includes LGI, LLI, SGI projects with a Queue date on or after 1/1/2016

Medium Projects: bay addition, breaker addition, line loop, transformer, disconnect - major equipment



Optimal performance is below the lines which denote the target ceiling levels.

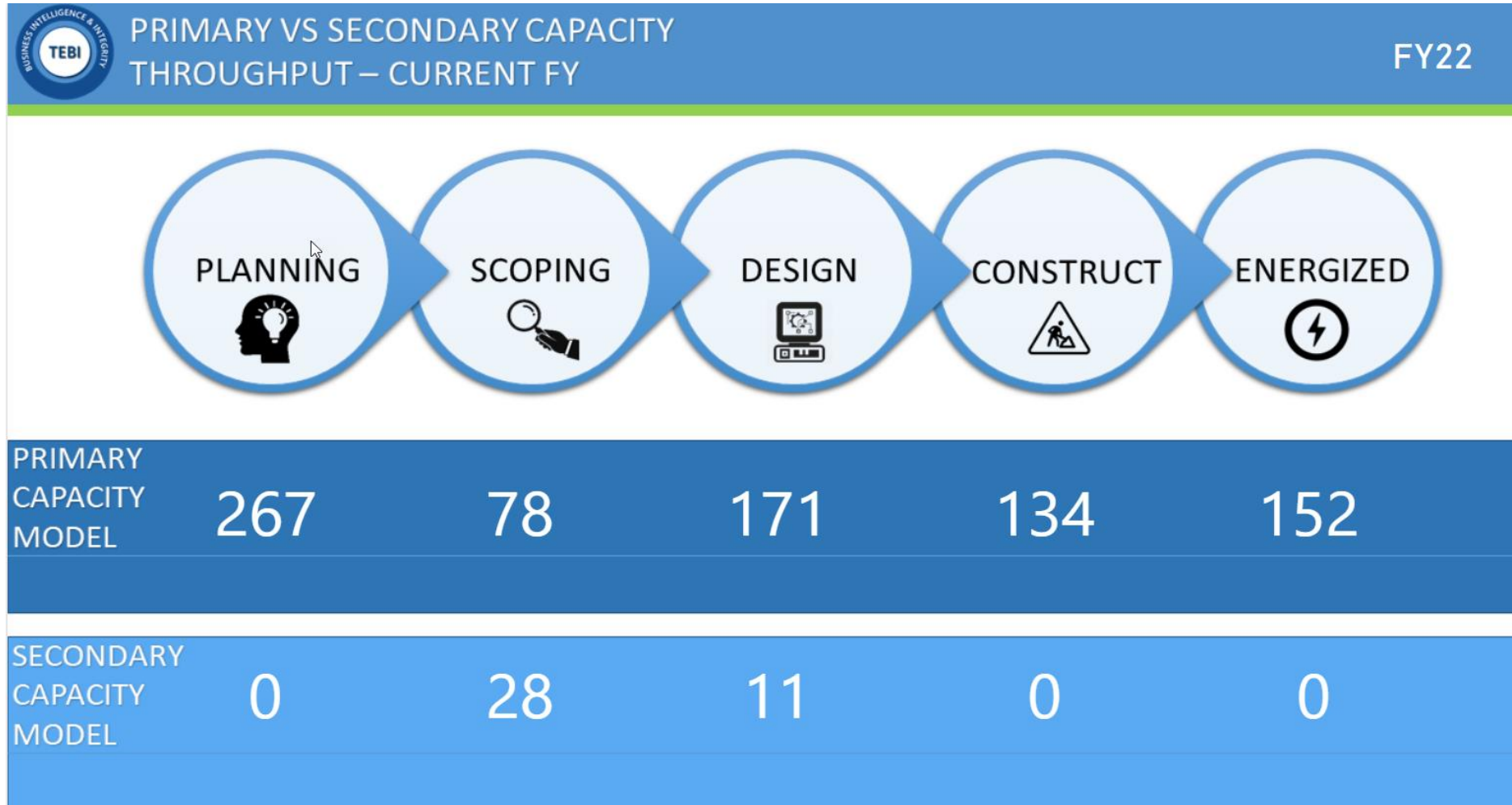
Large Projects: New substation, new line (BPA build), new line plus generation interconnection.



Includes LGI, LLI, SGI projects with a Queue date on or after 1/1/2016

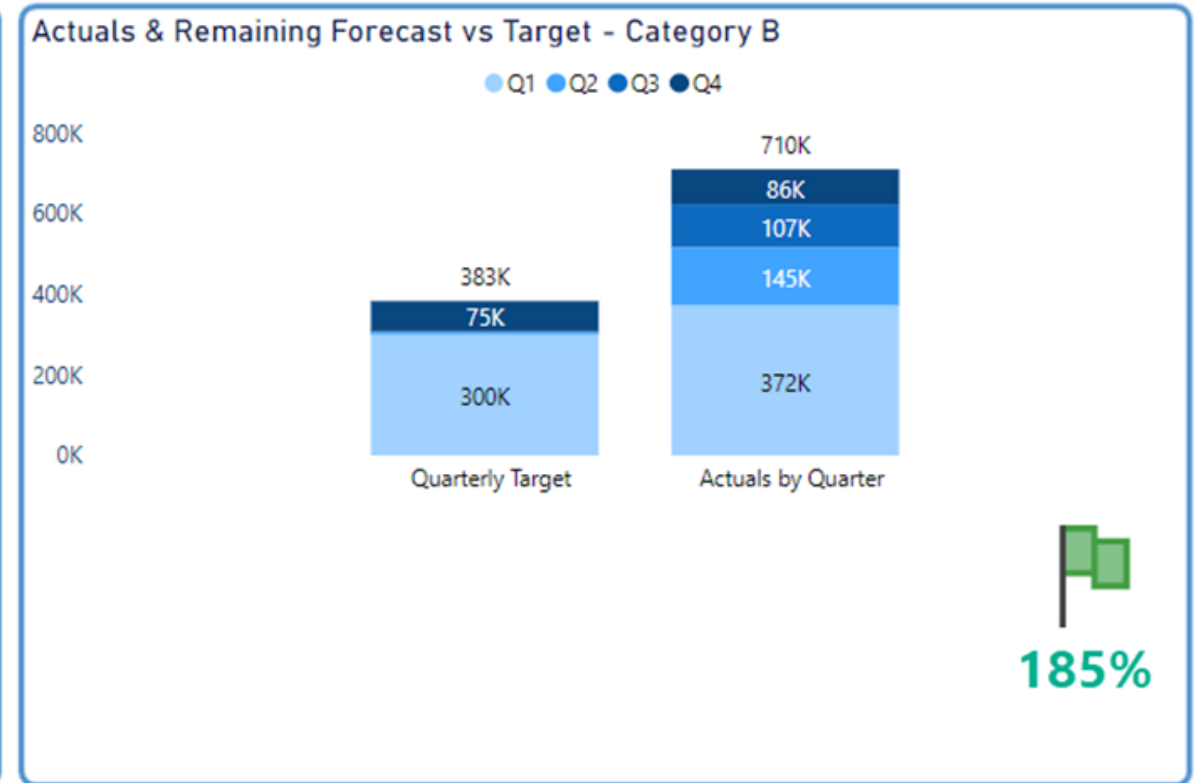
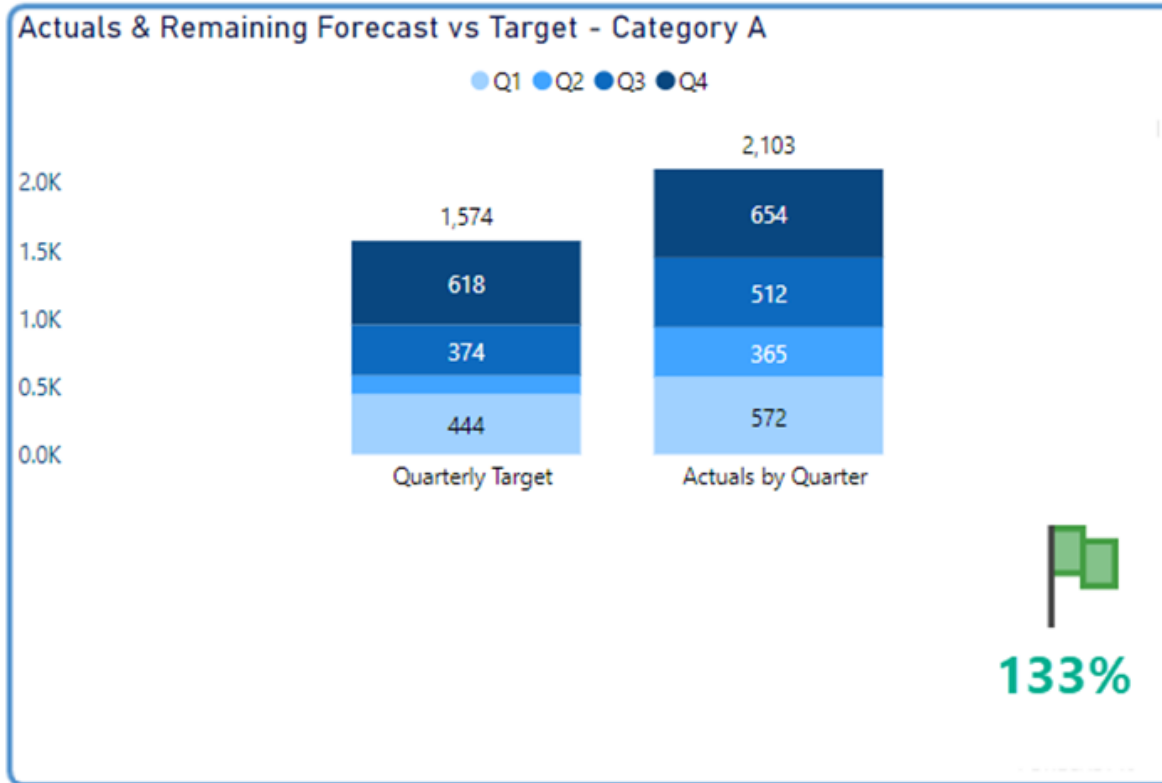
Primary vs Secondary Capacity Throughput

Transmission as of FY22 Q4:



Capital Assets Planned vs Completed

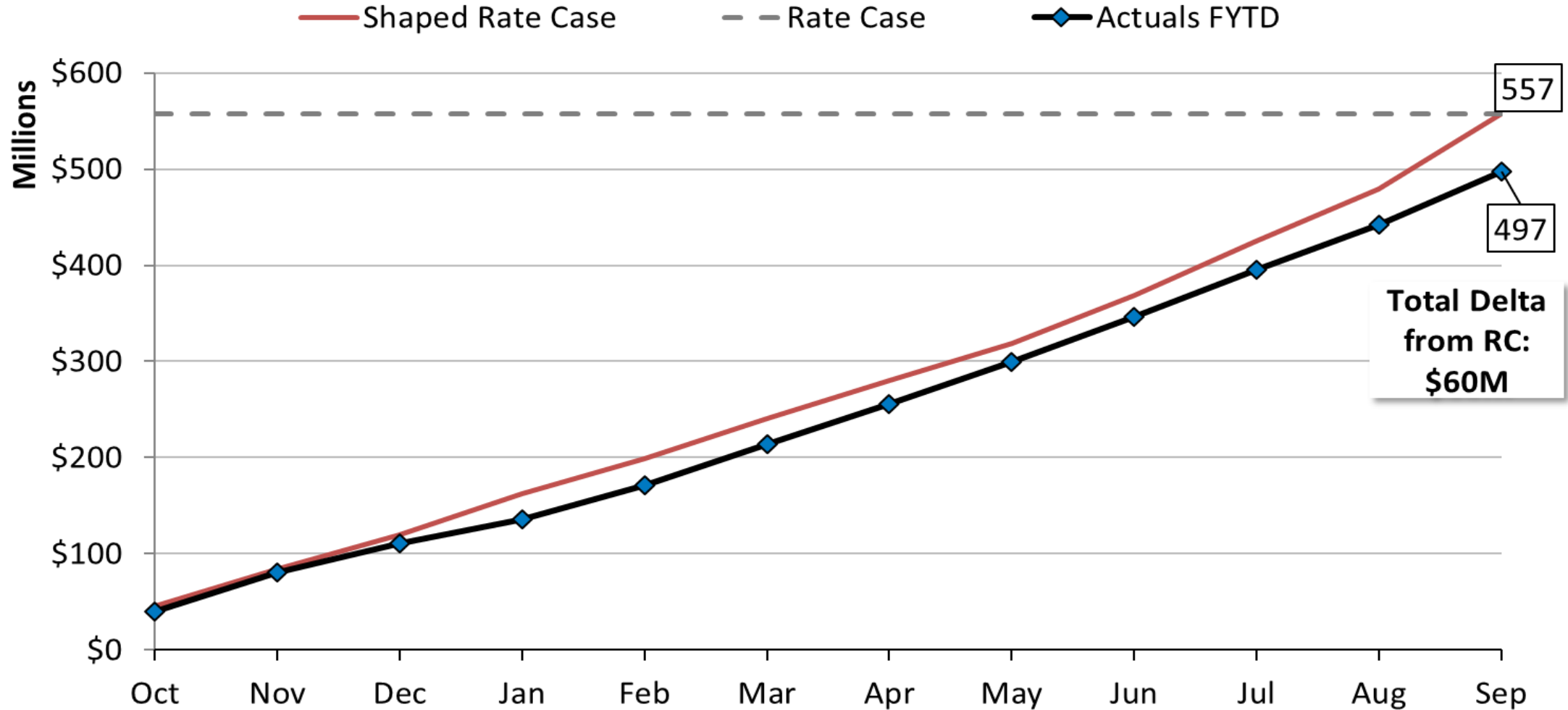
Transmission as of FY22 Q4:



Ended the year at 133% of Category A assets complete and 185% of Category B assets complete.

Capital Spend

FY22 Capital Spend: FYTD Actuals Variance from Rate Case



Reserves & Reserves Distribution Clause Agenda

- Refresh on the Reserves Distribution Clause (RDC) process
- Share FY22 EOY Reserves for Risk (RFR) results by business unit
- Review Power and Transmission RDC calculations
- Share preliminary proposals for the Power and Transmission RDC amounts
- Share the Dividend Distribution application and effect
- Next steps:
 - BPA welcomes comments through December 1, 2022. Please submit your comments at [Public Comments \(bpa.gov\)](https://www.bpa.gov/public-comments).
 - BPA will announce its determination for applying the RDC amounts no later than December 15, 2022, with Tech Forum notice.

Reserves Distribution Clause Process

- The RDC is a component of the Financial Reserves Policy. When reserves decline below certain thresholds, rates increase through the FRP Surcharge and CRAC. The RDC determines when financial reserves are sufficiently high for the administrator to consider repurposing them for other high-value business unit-specific purposes.
- The Power and Transmission General Rate Schedule Provisions (GRSPs) outline the RDC process and requirements. The language is the same for both business units and states:

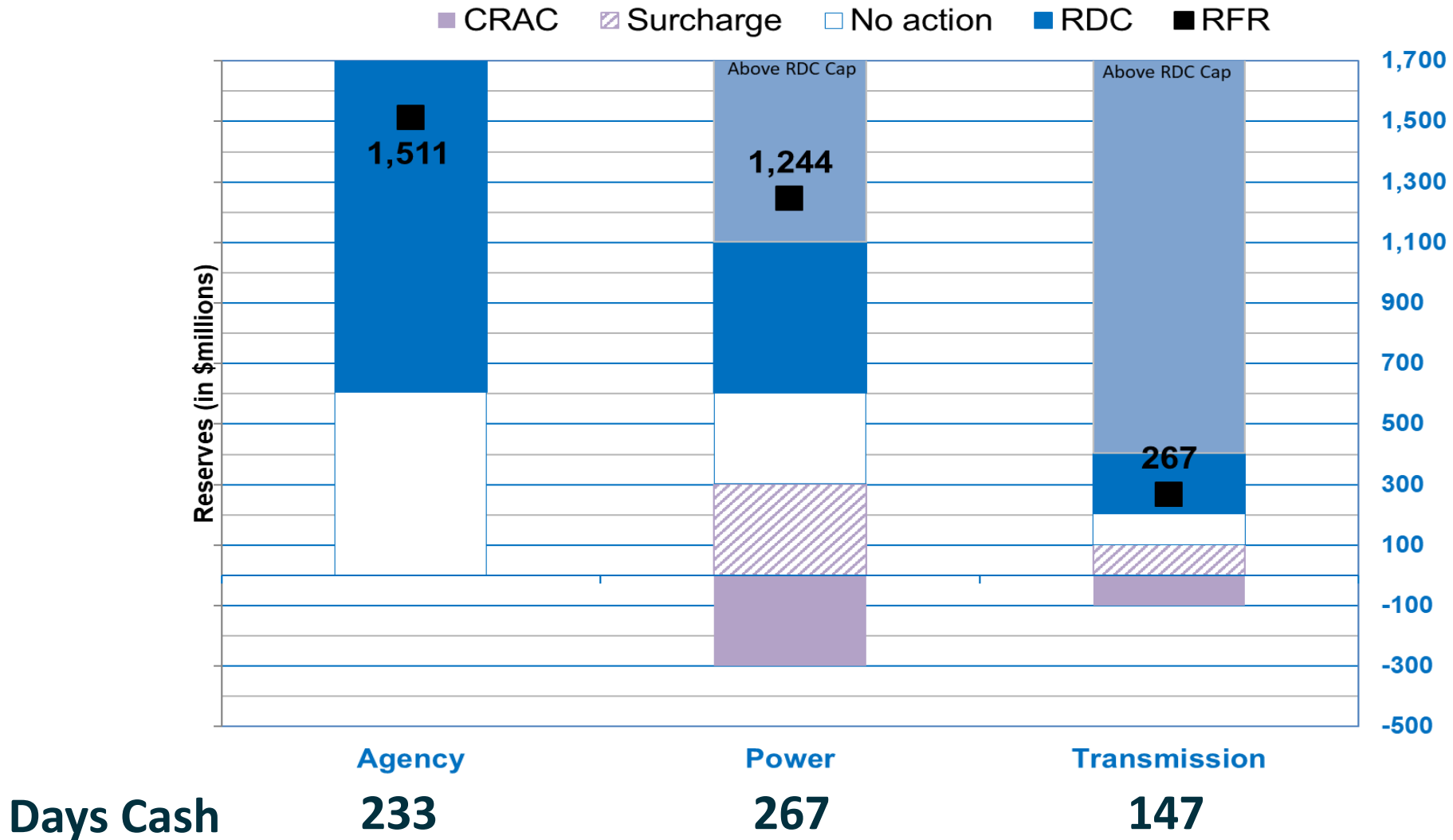
By November 30, 2022, BPA shall complete the calculation of Power/Transmission RFR and BPA RFR as of the end of FY 2022, for use in calculating the Power/Transmission RDC applicable to rates for December through September of FY 2023.

If the Power/Transmission RDC triggers, BPA will notify customers of the preliminary Power/Transmission RDC Amount and whether the amount will be used to reduce debt, incrementally fund capital projects or other high-value Power/Transmission purposes, or reduce rates, as soon as practicable, but in no case later than November 30 of each applicable year. BPA will make available to customers the preliminary data relied upon to calculate the Power/Transmission RDC Amount.

BPA will hold at least one public meeting to discuss the calculations of Power/Transmission RFR, the Power/Transmission RDC Amount, and if applicable, the Power/Transmission DD Credit rate and Annual Power/Transmission DD Credit rate. BPA will provide customers an opportunity for comment on the preliminary data. BPA will issue the final Power/Transmission RDC Amount as soon as practicable, but in no case later than December 15 of each applicable year.

- At today's meeting, we will cover: RFR amounts; the RDC calculation and resulting RDC amounts; the preliminary proposal on RDC use and DD credit information; and details on the comment period.

FY 2022 Reserves Policy Thresholds and Reserves for Risk



Power and Transmission FY 2022 RDC

- The FY 2022 EOY RFR levels for Power and Transmission result in the Reserve Distribution Clause triggering for each business unit (BU). The RDC triggers for ***the lesser of:***
 - The amount Agency RFR is over the Agency Threshold, set at \$605.0M, equivalent of 90 Days Cash on Hand (DCOH).
 - The amount BU RFR is over its Threshold, set at the equivalent of 120 DCOH, which is: \$603.0M for Power and \$204.0M for Transmission.
 - Further, the RDC is capped for each BU: Power cap = \$500.0M; Transmission cap = \$200.0M.
- This calculation results in RDCs for each BU as shown below.

| (in millions) | Power RDC | | Transmission RDC | |
|------------------------------|----------------------------|-----------|----------------------------------|--------------|
| | Agency | Power | Agency | Transmission |
| Actual RFR | \$1,511.5 | \$1,244.3 | \$1,511.5 | \$267.1 |
| RDC RFR Threshold | \$605.0 | \$603.0 | \$605.0 | \$204.0 |
| Amount above Threshold | \$906.5 | \$641.3 | \$906.5 | \$63.1 |
| RDC with Cap (if applicable) | Power RDC = \$500.0 | | Transmission RDC = \$63.1 | |

Reserve Distribution Clause Application

- The RDC application options are outlined in the Financial Reserves Policy, which is Appendix A of the BP-22 Final Proposal Power and Transmission Risk Study. The policy notes:
 - *3.4.1 Financial Reserves Distributions:* If business line financial reserves and agency financial reserves are above their respective upper thresholds, the Administrator shall consider the above-threshold financial reserves for investment in other high-value business line-specific purposes including, but not limited to, debt retirement, incremental capital investment, or rate reduction.
- The Power and Transmission GRSPs also outline the RDC application: If the Power/Transmission RDC quantitative criteria are met, the Administrator will calculate the Power/Transmission RDC Amount, and determine what part, if any, will be applied to debt reduction, incremental capital investment, rate reduction through a Power/Transmission Dividend Distribution (DD), distribution to customers, or any other Power- or Transmission-specific purposes determined by the Administrator.

Power RDC Application: Preliminary Proposal

- The Power RDC amount = \$500.0M
- The preliminary proposal for applying the Power RDC is consistent with a tentative settlement agreement for BP-24.
- The preliminary proposal is to apply:
 - 70% toward rate reduction, equivalent to a \$350.0M dividend distribution for FY 2023
 - 20% toward debt reduction or revenue financing, equivalent to an additional \$100.0M in FY 2023, with any amount not used to reduce debt or revenue finance left as financial reserves to support Bonneville's liquidity and/or increase the probability of a 2023 Power RDC Amount;
 - 10% toward addressing, on an accelerated, one-time basis, certain non-recurring maintenance needs of existing fish and wildlife mitigation assets that (i) Bonneville anticipates would otherwise need to be addressed during future rate periods and (ii) will result in avoidance of those costs in future rate periods, equivalent to \$50.0M for various project spending

Power Dividend Distribution Credit Rate

| | A | B | C | D | E | F |
|---|----------------------------------|---|---|---|---|---------------|
| 1 | <i>(a) Power DD Credit Rate:</i> | | | | | FY2023 |
| 2 | | Power RDC Amount being used for a Power DD: | | | | \$350,000,000 |
| 3 | | Sum of Dec - Sept Billing Determinants (MWh): | | | | 36,461,402 |
| 4 | | Power DD Credit rate (\$/MWh): | | | | \$9.60 |
| 5 | | | | | | |

- Under the preliminary proposal, the preliminary FY 2023 Power Dividend Distribution (Power DD) credit rate is 9.60 mills per kilowatt-hour and is equal to the preliminary Power RDC Amount being proposed for a Power DD divided by the sum of forecast billing determinants for December 2022 – September 2023.
- The Power DD Credit rate is calculated in accordance with the 2022 Power Rate Schedules and General Rate Schedule Provisions (GRSP section II.P.2) and would be used to bill PF and IP customers. The rate would also be used to adjust the December 2022 – September 2023 PF Tier 1 equivalent energy rates.
- For PF customers, the Power DD Credit rate would be applied to the sum of each customer’s HLH and LLH System Shaped Load, multiplied by -1, for December 2022 – September 2023. A customer’s System Shaped Load is equal to its non-Slice TOCA multiplied by the RHWM Tier 1 System Capability (RT1SC).
- For IP customers, the Power DD Credit rate would be subtracted from the December 2022 – September 2023 IP rates and will be applied to an IP (DSI) customer’s actual load.

Annual Power DD Credit Rate

| | A | B | C | D | E | F |
|----|---|---|---|---|---|---------------|
| 1 | <i>(c) Annual Power DD Credit Rate and Other Adjustments:</i> | | | | | FY2023 |
| 2 | | Power RDC Amount being used for a Power DD: | | | | \$350,000,000 |
| 22 | | Sum of Annual Billing Determinants (MWh): | | | | 44,187,877 |
| 23 | | Annual Power DD Credit Rate (\$/MWh): | | | | \$7.92 |
| 24 | | | | | | |
| 25 | | Adjusted Load Shaping Charge True-Up rate: | | | | \$1.81 |
| 26 | | Adjusted PF Melded Equivalent Energy Scalar rate: | | | | \$2.14 |

- Under the preliminary proposal, the preliminary FY 2023 Annual Power DD credit rate is 7.92 mills per kilowatt-hour and is equal to the preliminary Power RDC Amount being used for a Power DD divided by the sum of forecast billing determinants for FY 2023.
- The annual rate is used to adjust the Load Shaping Charge True-Up rate and the PF Melded Equivalent Energy Scalar rate (which is used in the actual DSI revenue credit calculation in the Slice True-Up.)
- The annual rate is not used to bill monthly Power DD Credit amounts.
- The full rate adjustment calculation with customer bill estimates can be found on bpa.gov, here: [Rate Adjustments - Bonneville Power Administration \(bpa.gov\)](#)

Transmission RDC Application: Preliminary Proposal

- The Transmission RCD amount = \$63.1M.
- The preliminary proposal for the Transmission RDC amount is to apply about 50% for rate reduction and to hold about 50% to cover FY 2023 forecast increased costs due to inflationary pressure.
- The preliminary proposed is consistent with a tentative settlement to hold BP-24 Transmission rates flat. The current estimate of the amount needed to hold BP-24 rates flat for the 2-year rate period = \$16.6M.
- The preliminary proposal is to apply:
 - Rate reduction = \$29.3M
 - ~\$16.6M to hold BP-24 rates flat
 - ~\$12.7M for Transmission Dividend Distribution, applied in FY 2023
 - Hold to cover Transmission's forecast cost increase in FY 2023 = \$33.8M

Transmission Forecast Cost Pressure

- BPA conducted an extensive budget process to ensure budgets were only increased for costs which BPA was unable to absorb or control.
- BPA increased the Transmission Business Unit's FY 2023 budget by \$33.8M to address targeted areas which have increased significantly above the Integrated Program Review Operating Expense forecast used in the BP-22 Rate Case:
 - The predominant cost pressure - Federal personnel costs (salaried employees, hourly craft and trade employees) have increased significantly as a result of inflation related to Cost of Living Increases (COLAs) and benefits.
 - Other areas of cost pressure - insurance premiums and security costs.
 - Cost management discipline has been and will continue to be at the forefront for BPA. Strict cost management must be balanced with the reality of the funding needed to continue with critical work.
- Applying some of the RDC to fund these areas would provide certainty for the source of funding; and helps ensure BPA does not slow down completing critical work or that our current level of service is not degraded. Should Transmission revenues come in higher than anticipated in the Rate Case, this may position the Transmission business unit for an RDC based on FY 2023 results as well.

Transmission Dividend Distribution Credit

| | | |
|---|---|----------------|
| 1 | (a) Transmission DD Credit Percentage: | FY2023 |
| 2 | Transmission DD Amount (\$000): | 12,700 |
| 3 | Sum of Dec - Sept Revenue Forecast (\$000): | <u>884,285</u> |
| 4 | Transmission DD Credit Percentage: | 1.44% |
| 5 | Subtracted from 1: | 98.56% |

- Under the preliminary proposal, the preliminary FY 2022 Transmission Dividend Distribution (Transmission DD) credit percentage is 1.44%. This is calculated in accordance with the 2022 Transmission, Ancillary, and Control Area Service Rate Schedules and General Rate Schedule Provisions (GRSP section II.H.1.b) by dividing the Transmission DD Amount by the sum of the Dec to Sept Revenue forecast for FY23.
- Revised rates are calculated by subtracting the Transmission DD Credit Percentage from 1.0, and then multiplying by the applicable rates. These revised rates will be used to bill NT-22, PTP-22, FPT-22.1, IS-22, Scheduling Control and Dispatch (ASC-22), Utility Delivery rate (GRSPs Section II.A.1.b) and IM-22. The revised rates will apply to December 2022 – September 2023.
- The full rate adjustment calculation can be found on bpa.gov, here: [Rate Adjustments - Bonneville Power Administration \(bpa.gov\)](https://www.bpa.gov/rate-adjustments).

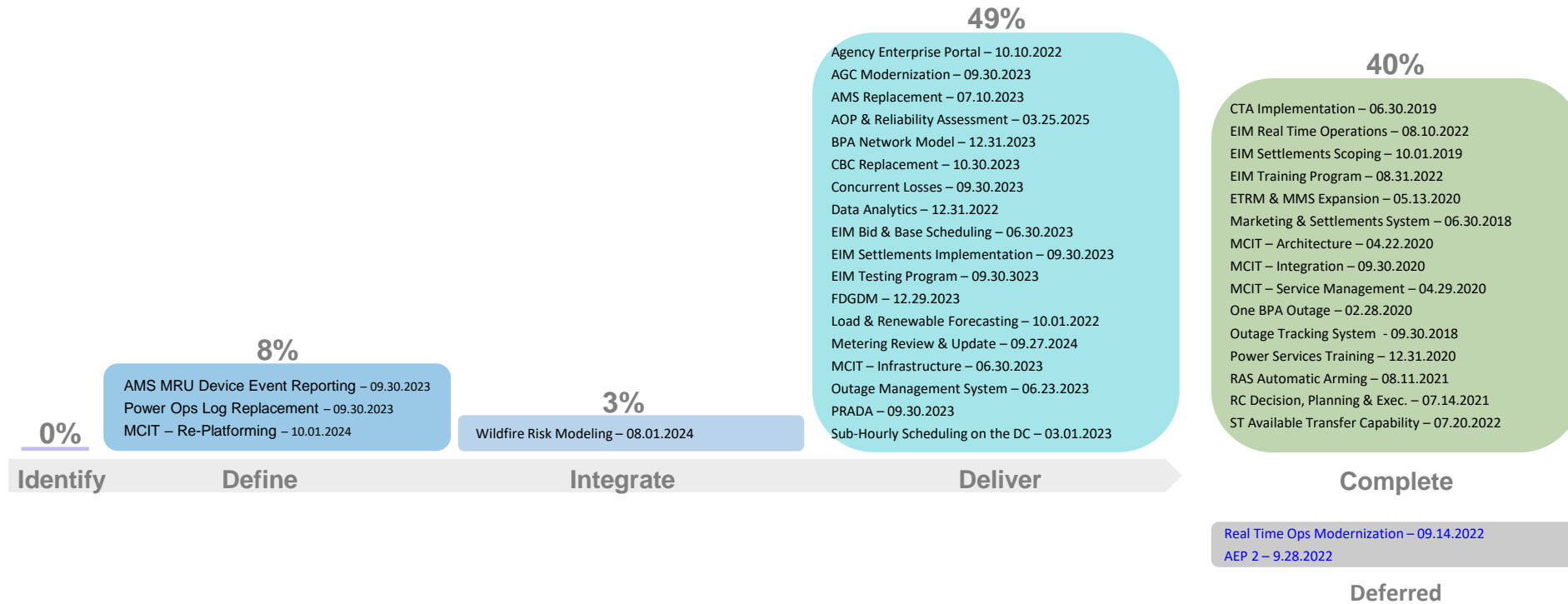
Next Steps

- BPA welcomes comments through December 1, 2022. Please submit your comments at [Public Comments \(bpa.gov\)](https://www.bpa.gov/public-comments).
- If you have questions, please contact us at Communications@bpa.gov and cc your AE with the Subject: *RDC comments*.
- BPA will announce its determination for applying the RDC amounts no later than December 15, 2022, with Tech Forum notice.

Grid Modernization Update

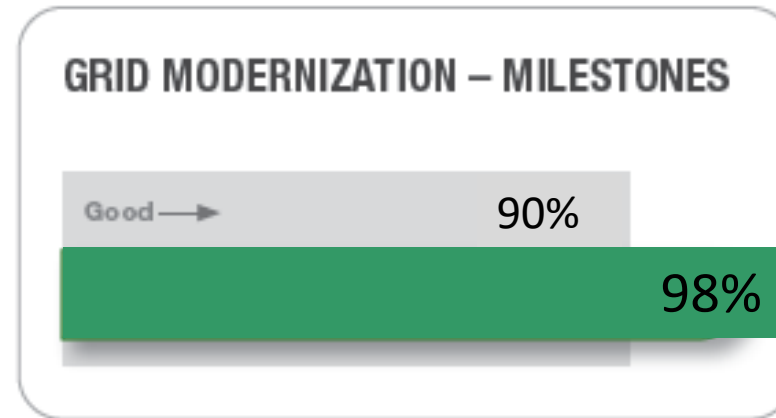
Grid Modernization Mobilization

Updated: 11.08.2022
Date = Completion Date



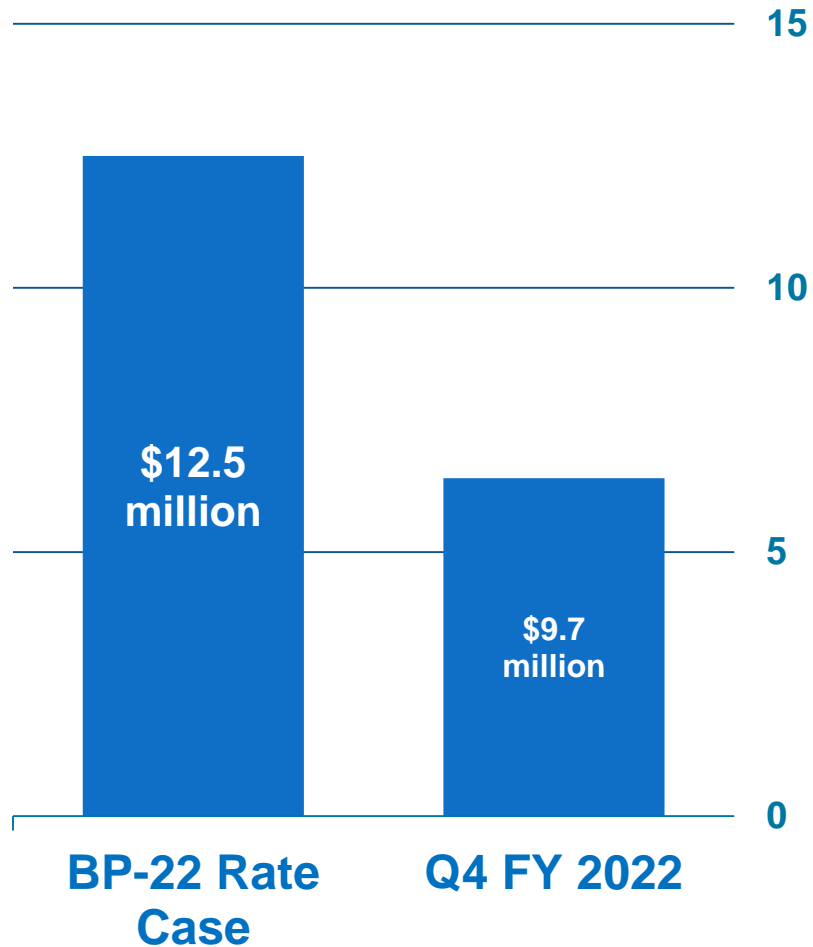
Grid Modernization Progress Metric

Key Strategic Initiative:



- 98% of milestones for projects in deliver are complete or on track
- The minimum to meet “green” for Q4 FY22 is 90%
- **Status: Green**

Grid Mod FY22 Spending



- In Q4 FY22, BPA spent a total of \$9.7 million out of a total \$12.5 million BP-22 Rate Case budget

EIM Metrics

External Reporting Background

- In the Final EIM Close out letter, BPA committed to work with customers to develop metrics.
- This collaboration took place at stakeholder workshops in FY21 and FY22.
- At the January 27, 2022 workshop, BPA committed to two phases of metrics.

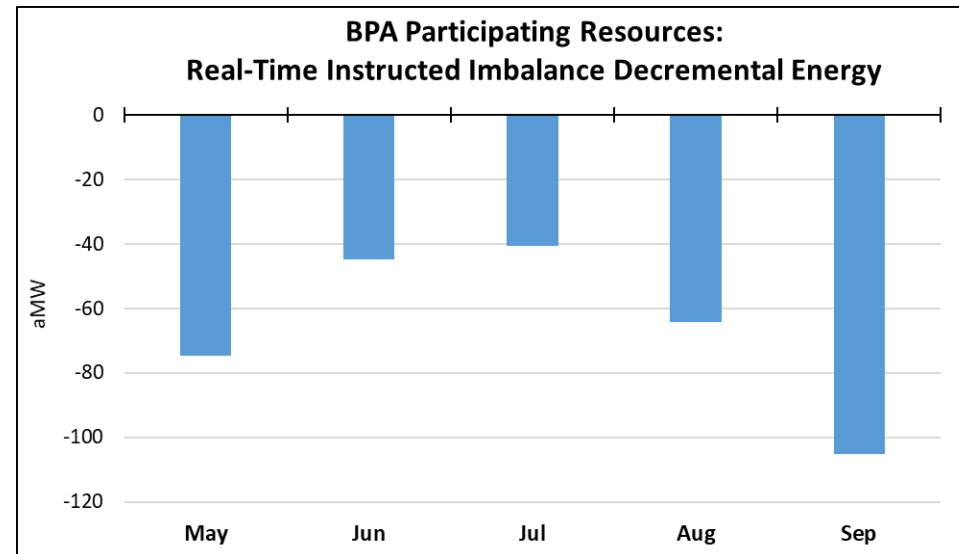
Phase 1 Metrics

1. Provide the quantity of unspecified purchases made through the EIM. BPA will also consider a metric on the amount delivered to California and the associated premium/costs.
 2. Provide how frequently BPA passes the Resource Sufficiency (RS) balancing test, RS capacity test and RS flexibility test.
 3. Provide data on EIM transfer limits and use.
 4. Provide summary data on BA scheduling error and the frequency with which CAISO BA forecast was targeted on a quarterly basis. The scheduling error will be measured against either the CAISO BA forecast and/or actual load. BPA will collect and share data on how the BA did as a whole with every entity scheduling to their own best forecast. **Note that the scheduling error relative to the CAISO forecast is included in the Balancing Test results.**
- BPA committed to reporting on Phase 1 metrics within six months of EIM go-live (November 2022 QBR Technical Workshop).

Phase 2 Metrics

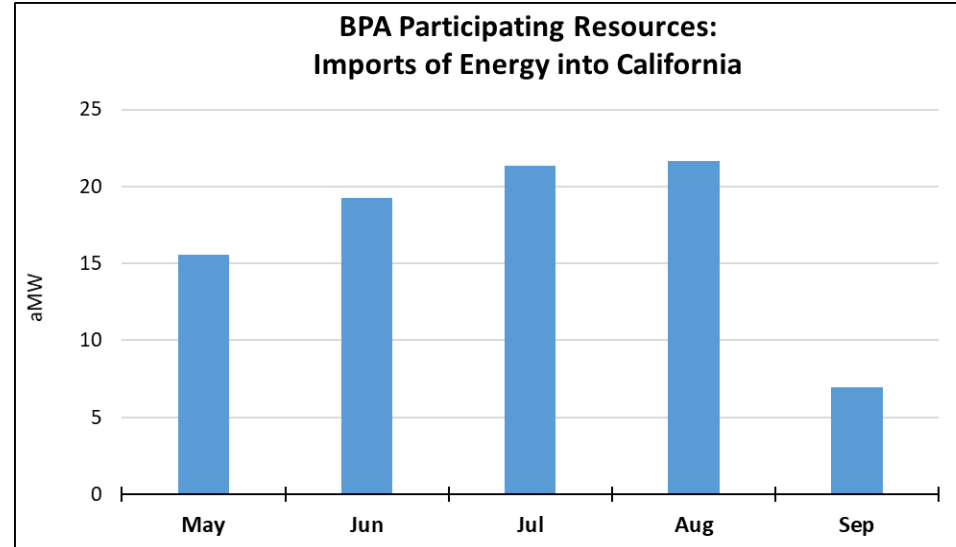
1. Provide data on charge code allocations.
 2. Provide data on transmission donations and how often they are used.
 3. Provide information on EIM impacts to BPA system carbon emission rate.
- Reporting on EIM impacts to BPA System carbon emission rate may transition to a different forum in the future as BPA engages on broader regional carbon issues and regulation.
 - The goal is to have these metrics in place by BP-26.

Metric 1a: Unspecified purchases



- **Volume:** ~240,000 MWh (65 aMW) for the period of May-Sep

Metric 1b: Amount Delivered to California



- **Volume:** ~60,000 MWh (15 aMW) for the period of May-Sep
- **Premium:** ~\$15.50/MWh (CC 491 GHG emission cost revenue)
- **Cost:** ~\$0.50/MWh

Metric 2: Resource Sufficiency tests

Pass rate

Background on RS Tests

- **Balancing Test**
 - The Balancing Test evaluates whether the BAA scheduled within +/-1% of the CAISO area load forecast
 - To incur an O/U scheduling penalty, the BAA must have scheduled 1). outside of +/-1% of the CAISO area load forecast and 2). outside of +/- 5% of the actual area load
- **Bid Capacity Test**
 - The Bid Capacity Test Over/Under evaluates whether the BAA had sufficient upward and downward bid range to meet the upward/downward 15-min load imbalance
 - During a failure, CAISO caps EIM Transfers in the direction of the failure, which may limit market participation during the failed 15-min interval
- **Flex Ramp Test**
 - The Flex Ramp Test evaluates whether the BAA had sufficient ramp up and down capability to meet the flex ramp up/down requirement from the current hour to the next hour
 - During a failure, CAISO caps EIM Transfers in the direction of the failure, which may limit market participation during the failed 15-min interval

RS Pass Rate Goals

RS Goals prior to joining the EIM:

- BPA will not set an RS pass target
- Why not set an RS pass target? Setting a specific pass target:
 - Flex Test
 - Could significantly increase the complexity of EIM implementation
 - Could expose BPA to uncertain RS requirements in the future
 - Does not align with EIM industry standards/pro forma
 - Could reduce BPA's operational and marketing flexibility
 - Could result in significant changes to the Balancing Reserve Capacity Business Practice and Rates
 - Does not seem necessary given BPA's high expected pass rate (98.7%)
 - Balancing Test
 - Could cause undue burden on BPA and the FCRPS
 - Allows for greater flexibility to manage the balancing test by not placing an obligation on BPA
 - Allows for EIM price signals to incentivize appropriate scheduling behavior by all members in the BAA

Balancing Test Results (May – Sep 2022)

- The Balancing Test evaluates whether the BAA scheduled within +/-1% of the CAISO area load forecast
- A failure means the BAA scheduled outside of +/-1% of the CAISO’s area load forecast
- A failure does not mean the BAA necessarily incurred an Over/Under scheduling penalty

Percent of hours passed/failed

| Balancing Test Over | May | Jun | Jul | Aug | Sep | Mean |
|-----------------------------|------------|------------|------------|------------|------------|-------------|
| Fail | 1.75% | 2.08% | 0.54% | 0.54% | 0.83% | 1.15% |
| Pass | 98.25% | 97.92% | 99.46% | 99.46% | 99.17% | 98.85% |
| | | | | | | |
| | | | | | | |
| Balancing Test Under | May | Jun | Jul | Aug | Sep | Mean |
| Fail | 2.28% | 2.36% | 0.81% | 0.40% | 1.53% | 1.48% |
| Pass | 97.72% | 97.64% | 99.19% | 99.60% | 98.47% | 98.52% |

Bid Capacity Test Over Results (May – Sep 2022)

- The Capacity Test Over evaluates whether the BAA had sufficient upward bid range to meet the upward 15-min load imbalance
- The over requirement is calculated as the upward imbalance between the BAA’s hourly load base schedule and the 15-min CAISO area load forecast

Percent of hours passed/failed

| Capacity Test Over | May | Jun | Jul | Aug | Sep | Mean |
|--------------------|---------|--------|---------|--------|--------|--------|
| Fail | 0.00% | 0.14% | 0.00% | 0.13% | 0.56% | 0.17% |
| Pass | 100.00% | 99.86% | 100.00% | 99.87% | 99.44% | 99.83% |

Bid Capacity Test Under Results (May – Sep 2022)

- The Capacity Test Under evaluates whether the BAA had sufficient downward bid range to meet the downward 15-min load imbalance
- The under requirement is calculated as the downward imbalance between BAA's hourly load base schedule and the 15-min CAISO area load forecast

Percent of hours passed/failed

| Capacity Test Under | May | Jun | Jul | Aug | Sep | Mean |
|---------------------|--------|--------|---------|---------|--------|--------|
| Fail | 0.13% | 0.28% | 0.00% | 0.00% | 0.28% | 0.14% |
| Pass | 99.87% | 99.72% | 100.00% | 100.00% | 99.72% | 99.86% |

Flex Test Up Results (May – Sep 2022)

- The Flex Ramp Test Up evaluates whether the BAA had sufficient ramp up capability to meet the flex ramp up requirement
- The BAA’s ramp up capability depends on participating resources, non-participating resources, and net interchange

Percent of 15 minute intervals passed/failed

| Flex Test Up | May | Jun | Jul | Aug | Sep | Mean |
|---------------------|------------|------------|------------|------------|------------|-------------|
| Fail | 0.81% | 3.12% | 3.23% | 1.01% | 1.01% | 1.84% |
| Pass | 99.19% | 96.88% | 96.77% | 98.99% | 98.99% | 98.16% |

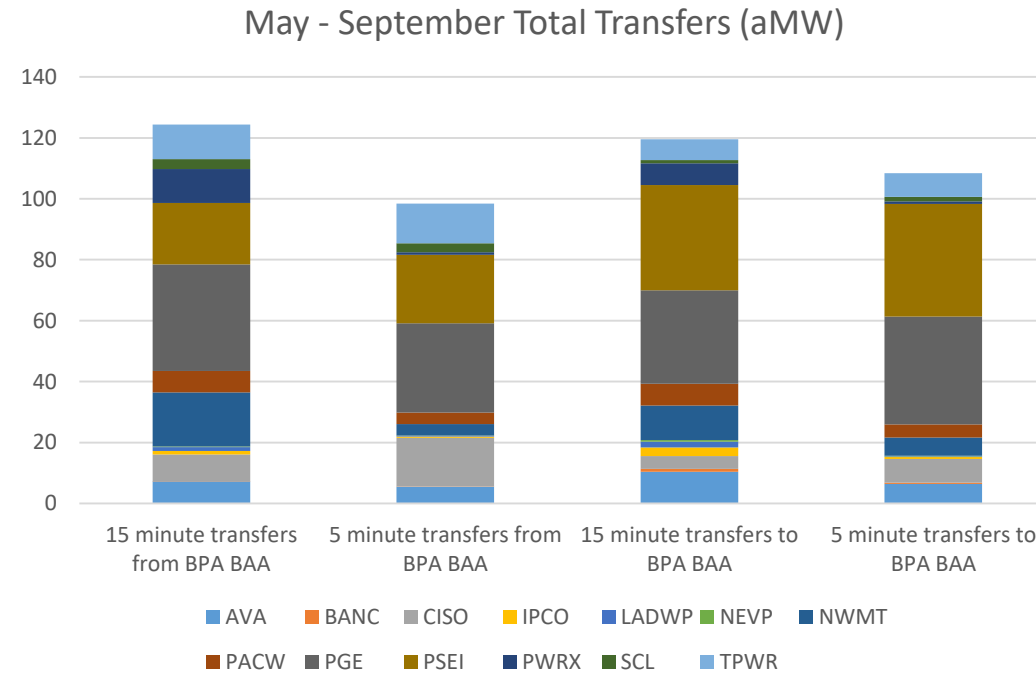
Flex Test Down Results (May – Sep 2022)

- The Flex Ramp Test Down evaluates whether the BAA had sufficient ramp down capability to meet the flex ramp down requirement
- The BAA's ramp down capability depends on participating resources, non-participating resources, and net interchange

Percent of 15 minute intervals passed/failed

| Flex Test Down | May | Jun | Jul | Aug | Sep | Mean |
|-----------------------|------------|------------|------------|------------|------------|-------------|
| Fail | 0.13% | 0.24% | 0.00% | 0.03% | 0.35% | 0.15% |
| Pass | 99.87% | 99.76% | 100.00% | 99.97% | 99.65% | 99.85% |

Metric 3: Gross EIM Transfers

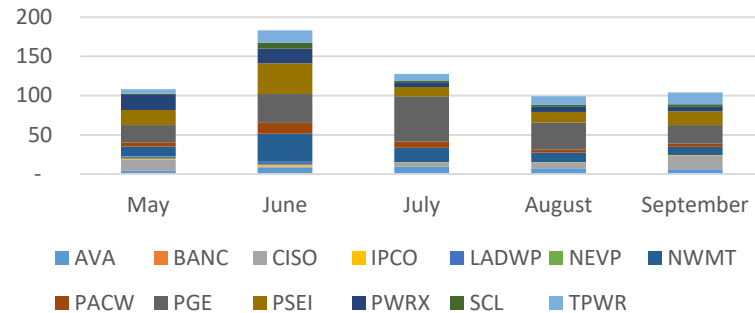


Source: CAISO Quarterly Benefits Reports: [iso-western-energy-imbalance-market-benefits-report-q2-2022.pdf](https://www.westerneim.com/iso-western-energy-imbalance-market-benefits-report-q2-2022.pdf) ([westerneim.com](https://www.westerneim.com))

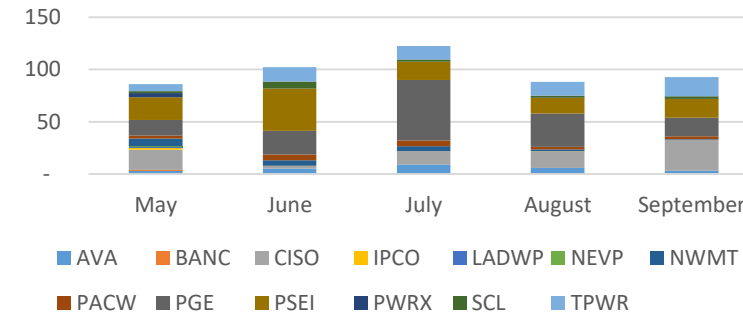
[iso-western-energy-imbalance-market-benefits-report-q3-2022.pdf](https://www.westerneim.com/iso-western-energy-imbalance-market-benefits-report-q3-2022.pdf) ([westerneim.com](https://www.westerneim.com))

Metric 3: Gross EIM Transfers: From BPA BAA

15 minute WEIM Transfers from BPA BAA (aMW)

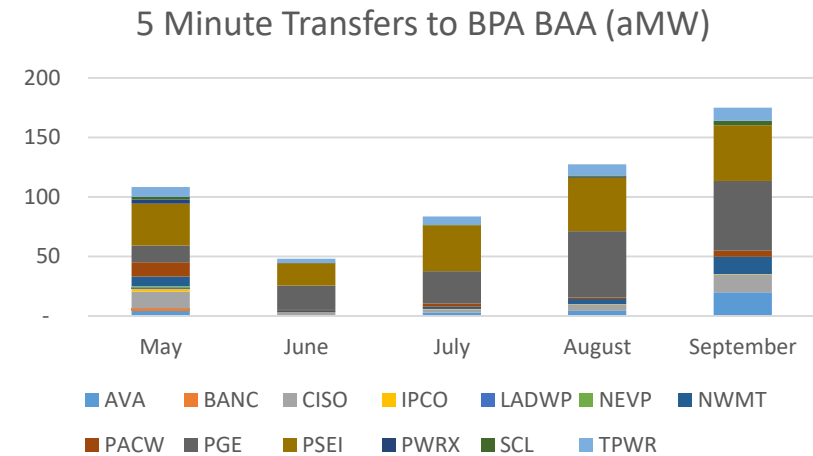
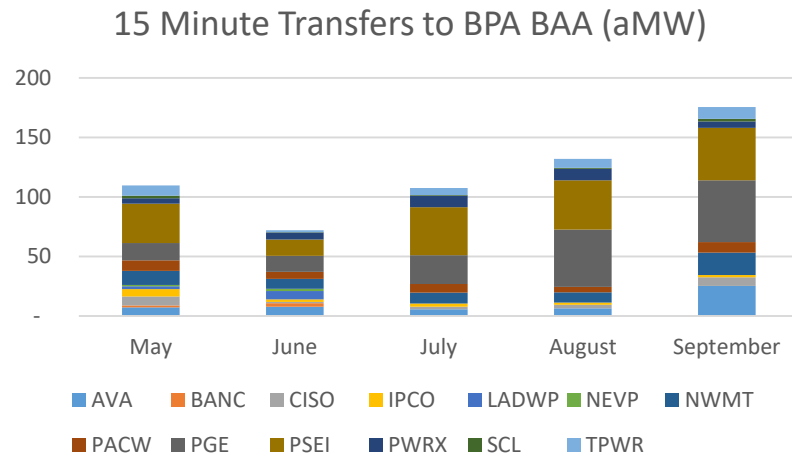


5 minute WEIM Transfers from BPA BAA (aMW)



Source: CAISO Quarterly Benefits Reports: [iso-western-energy-imbalance-market-benefits-report-q2-2022.pdf](https://www.westerneim.com/iso-western-energy-imbalance-market-benefits-report-q2-2022.pdf) (westerneim.com)
[iso-western-energy-imbalance-market-benefits-report-q3-2022.pdf](https://www.westerneim.com/iso-western-energy-imbalance-market-benefits-report-q3-2022.pdf) (westerneim.com)

Metric 3: Gross EIM Transfers: To BPA BAA



Source: CAISO Quarterly Benefits Reports: [iso-western-energy-imbalance-market-benefits-report-q2-2022.pdf \(westerneim.com\)](https://www.westerneim.com/iso-western-energy-imbalance-market-benefits-report-q2-2022.pdf)
[iso-western-energy-imbalance-market-benefits-report-q3-2022.pdf \(westerneim.com\)](https://www.westerneim.com/iso-western-energy-imbalance-market-benefits-report-q3-2022.pdf)

Metric 4: BA scheduling error

- The scheduling error relative to the CAISO forecast is part of the balancing test.
- At this time we are not providing scheduling error relative to the actual load, but may provide it in the future.

Questions

On grid modernization:

www.bpa.gov/goto/gridmodernization

On EIM:

www.bpa.gov/goto/eim



QUESTION AND ANSWER

Will Rector

THANK YOU

Didn't get your question answered?

Email Communications@bpa.gov. Answers will be posted to www.bpa.gov/about/finance/quarterly-business-review

Appendix

Reserves for Risk

EOY Crosswalk – Beginning Balance to EOY Actuals

| | <u>Power</u> | <u>Transmission</u> |
|---------------------------------------|---------------------------|-------------------------|
| <i>(\$ in 000)</i> | | |
| 1 RFR Beg Bal & Net Rev | | |
| 2 RFR Beginning Balance | \$616,655 | \$208,727 |
| 3 FY22 Net Revenues | <u>858,793</u> | <u>108,336</u> |
| 4 Subtotal Beg Bal & Net Rev | <u>1,475,448</u> | <u>317,063</u> |
| 5 Adjustments | | |
| 6 Depreciation, Amortization, Accret. | 502,247 | 338,768 |
| 7 Capitalization Adjustment | (45,937) | (18,968) |
| 8 Other Adjustments* | (157,487) | 41,397 |
| 9 CGS Decom TF - Gains/Loss/Dividend | (20,318) | - |
| 10 EN Cash Payments vs Accruals* | <u>65,988</u> | <u>-</u> |
| 11 Subtotal Adjustments | <u>344,493</u> | <u>361,196</u> |
| 12 Cash Flow | | |
| 13 Debt Payment | (496,364) | (313,196) |
| 14 Revenue Financing | (40,000) | (40,000) |
| 15 CSG Decom TF Contribution | (4,663) | - |
| 16 Change in RNFR | <u>(34,591)</u> | <u>(57,929)</u> |
| 17 Subtotal Cash Flow | <u>(575,617)</u> | <u>(411,125)</u> |
| 18 FY22 EOY RFR | <u>\$1,244,323</u> | <u>\$267,135</u> |

* See bullets for further details

- Crosswalk highlights key non-cash adjustments and balance sheet-related uses of cash.
- Other Adjustments (line 8): Covers changes in AP, AR, accrued revenue/expense; non-cash revenue/expense; and other miscellaneous items
 - Power: driver is large jump in non-cash accrued revenue, particularly from Sept sales.
 - Transmission: key items are non-cash revenues/credits from LGIA, AC Intertie and Fiber agreements, and related non-cash interest expense; changes in AP/AR and accrued revenues/expenses
- EN Cash Payments vs Accruals (line 10): reflects difference between accrued expenses (interest expense and O&M) and cash payments to EN. Drivers: FY timing differences and non-cash interest expense from amortization of premiums.
- Power and Transmission both had increases in RNFR due to customer deposits. Transmission had increases in LT Service Deposits, LGIA’s and Funds Held in Escrow.

Appendix

**Slice Reporting
Composite Cost Pool Review
Final Annual Slice True-Up
Adjustment**

Final True-Up of FY 2022 Slice True-Up Adjustment

| | FY 2022 Forecast \$ in thousands |
|---|-------------------------------------|
| February 15, 2022 First Quarter Technical Workshop | \$7,145* |
| May 17, 2022 Second Quarter Technical Workshop | \$2,082 |
| August 16, 2022 Third Quarter Technical Workshop | \$(12,186) |
| November 16, 2022 Final Slice True-Up Technical Workshop | \$(8,556) |

*Negative = Credit; Positive = Charge

Summary of Differences From Final to FY22 (BP-22)

| # | | A | B |
|---|--|--|--|
| | | Composite Cost Pool True-Up Table Reference | Final – Rate Case \$ in thousands |
| 1 | Total Expenses | Row 98 | \$(34,780) |
| 2 | Total Revenue Credits | Rows 117 + 126 | \$14,464 |
| 3 | Minimum Required Net Revenue | Row 151 | \$12,587 |
| 4 | TOTAL Composite Cost Pool (1 - 2 + 3) \$(34,780) - \$14,464 + \$12,587 = \$(36,656) | Row 156 | \$(36,656) |
| 5 | TOTAL in line 4 divided by <u>0.9580515</u> sum of TOCAs \$(36,656)/ <u>0.9580515</u> = \$(38,261) | Row 158 | \$(38,261) |
| 6 | QTR Forecast of FY22 True-up Adjustment 22.36267 percent of Total in line 5 0.2236267 * \$(38,261) = \$(8,556) | Row 159 | \$(8,556) |

FY22 Impacts of Debt Management Actions

| # | Description | A | B | C | D |
|---|--|-----------------------|-----------------------|------------|--|
| | | <u>FY22 Final QBR</u> | <u>FY22 Rate Case</u> | <u>CCP</u> | <u>Delta from the FY22 rate case</u> |
| 1 | <u>MRNR Section of Composite Cost Pool Table</u> | | | | \$ - |
| 2 | Principal Payment of Federal Debt | | | | \$ - |
| 3 | 2022 Regional Cooperation Debt (RCD) | \$ 319,193,190 | \$ 333,946,000 | | \$ 14,752,810 |
| 4 | 2022 Debt Service Reassignment (DSR) | \$ 15,245,000 | \$ 15,245,000 | | \$ - |
| 5 | Energy Northwest's Line Of Credit (LOC) | \$ - | \$ - | | \$ - |
| 6 | Rate Case Scheduled Base Power Principal* | \$ 144,861,810 | \$ 145,809,000 | | \$ 947,190 |
| 7 | Total Principal Payment of Fed Debt | \$ 479,300,000 | \$ 495,000,000 | row 129 | \$ 15,700,000 |
| 8 | Prepay | \$ 22,746,026 | \$ 22,746,026 | | \$ - |
| 9 | Nonfederal Bond Principal Payment | \$ 42,185,000 | \$ 16,005,150 | row 131 | \$ (26,179,850) |

Composite Cost Pool Interest Credit

| Allocation of Interest Earned on the Bonneville Fund | | <u>Final 2022</u> |
|---|--|--------------------------|
| (\$ in thousands) | | |
| 1 | Fiscal Year Reserves Balance | 570,255 |
| 2 | Adjustments for pre-2002 Items | <u>16,341</u> |
| 3 | Reserves for Composite Cost Pool (Line 1 + Line 2) | 586,596 |
| 4 | Composite Interest Rate | 0.70% |
| 5 | Composite Interest Credit | (4,105) |
| 6 | Prepay Offset Credit | 0 |
| 7 | Total Interest Credit for Power Services | (6,875) |
| 8 | Non-Slice Interest Credit (Line 7 – (Line 5 + Line 6)) | (2,770) |

Net Interest Expense in Slice True-Up Final

| | FY22 Rate Case | Final |
|-------------------------------------|--------------------------|--------------------------|
| | <u>(\$ in thousands)</u> | <u>(\$ in thousands)</u> |
| • Federal Appropriation | 38,410 | 40,968 |
| • Capitalization Adjustment | (45,937) | (45,937) |
| • Borrowings from US Treasury | 44,753 | 46,713 |
| • Prepay Interest Expense | 7,854 | 7,854 |
| • Interest Expense | 45,080 | 49,598 |
| • AFUDC | (11,005) | (10,166) |
| • Interest Income (composite) | (1,384) | (4,105) |
| • Prepay Offset Credit | (0) | (0) |
| • Total Net Interest Expense | 32,691 | 35,327 |

Schedule for Slice True-Up Adjustment for Composite Cost Pool True-Up Table and Cost Verification Process

| Dates | Agenda |
|-------------------|--|
| February 15, 2022 | First Quarter Technical Workshop |
| May 17, 2022 | Second Quarter Technical Workshop |
| August 16, 2022 | Third Quarter Technical Workshop |
| October 2022 | BPA External CPA firm conducting audit for fiscal year end |
| Mid-October 2022 | Recording the Fiscal Year End Slice True-Up Adjustment Accrual |
| End of October | Final audited actual financial data is expected to be available |
| November 15, 2022 | Mail notification to Slice Customers of the Slice True-Up Adjustment for the Composite Cost Pool |
| November 16, 2022 | Fourth Quarter Business Review and Technical Workshop Meeting Provide Slice True-Up Adjustment for the Composite Cost Pool (this is the number posted in the financial system; the final actual number may be different) |
| November 18, 2022 | BPA to post Composite Cost Pool True-Up Table containing actual values and the Slice True-Up Adjustment |
| December 12, 2022 | Deadline for customers to submit questions about actual line items in the Composite Cost Pool True-Up Table with the Slice True-Up Adjustment for inclusion in the Agreed Upon Procedures (AUPs) Performed by BPA external CPA firm (customers have 15 business days following the BPA posting of Composite Cost Pool Table containing actual values and the Slice True-Up Adjustment) |
| December 27, 2022 | BPA posts a response to customer questions (Attachment A does not specify an exact date) |
| January 11, 2023 | Customer comments are due on the list of tasks (The deadline can not exceed 10 days from BPA posting) |
| February 2, 2023 | BPA finalizes list of questions about actual lines items in the Composite Cost Pool True-Up Table for the AUPs |

| COMPOSITE COST POOL TRUE-UP TABLE | | | | |
|-----------------------------------|--|------------------|--|---------------------------------|
| | | Final (\$000) | Rate Case forecast for FY 2022 (\$000) | Final - Rate Case Difference |
| 1 | Operating Expenses | | | |
| 2 | Power System Generation Resources | | | |
| 3 | Operating Generation | | | |
| 4 | COLUMBIA GENERATING STATION (WNP-2) | \$ 275,176 | \$ 278,643 | \$ (3,466) |
| 5 | BUREAU OF RECLAMATION | \$ 147,238 | \$ 152,269 | \$ (5,031) |
| 6 | CORPS OF ENGINEERS | \$ 243,880 | \$ 252,557 | \$ (8,677) |
| 7 | CRFM STUDIES | \$ 7,129 | \$ 7,266 | \$ (137) |
| 8 | LONG-TERM CONTRACT GENERATING PROJECTS | \$ 17,220 | \$ 16,036 | \$ 1,184 |
| 9 | Sub-Total | \$ 690,644 | \$ 706,771 | \$ (16,127) |
| 10 | Operating Generation Settlement Payment and Other Payments | | | |
| 11 | COLVILLE GENERATION SETTLEMENT | \$ 19,783 | \$ 22,000 | \$ (2,217) |
| 12 | SPOKANE LEGISLATION PAYMENT | \$ 4,946 | \$ 5,749 | \$ (803) |
| 13 | Sub-Total | \$ 24,729 | \$ 27,749 | \$ (3,020) |
| 14 | Non-Operating Generation | | | |
| 15 | TROJAN DECOMMISSIONING | \$ 1,571 | \$ 1,200 | \$ 371 |
| 16 | WNP-1&3 DECOMMISSIONING | \$ 1,070 | \$ 1,141 | \$ (71) |
| 17 | Sub-Total | \$ 2,641 | \$ 2,341 | \$ 300 |
| 18 | Gross Contracted Power Purchases | | | |
| 19 | PNCA HEADWATER BENEFITS | \$ 2,764 | \$ 3,100 | \$ (336) |
| 20 | OTHER POWER PURCHASES (omit, except Designated Obligations or Purchases) | \$ 47,338 | \$ - | \$ 47,338 |
| 21 | Sub-Total | \$ 50,102 | \$ 3,100 | \$ 47,002 |
| 22 | Bookout Adjustment to Power Purchases (omit) | | | |
| 23 | Augmentation Power Purchases (omit - calculated below) | | | |
| 24 | AUGMENTATION POWER PURCHASES | \$ - | \$ - | \$ - |
| 25 | Sub-Total | \$ - | \$ - | \$ - |
| 26 | Exchanges and Settlements | | | |
| 27 | RESIDENTIAL EXCHANGE PROGRAM (REP) | \$ 267,115 | \$ 266,663 | \$ 452 |
| 28 | OTHER SETTLEMENTS | \$ - | \$ - | \$ - |
| 29 | Sub-Total | \$ 267,115 | \$ 266,663 | \$ 452 |
| 30 | Renewable Generation | | | |
| 31 | RENEWABLES (excludes Kill) | \$ 18,583 | \$ 26,255 | \$ (7,671) |
| 32 | Sub-Total | \$ 18,583 | \$ 26,255 | \$ (7,671) |
| 33 | Generation Conservation | | | |
| 34 | CONSERVATION ACQUISITION | \$ 53,417 | \$ 67,357 | \$ (13,940) |
| 35 | CONSERVATION INFRASTRUCTURE | \$ 23,020 | \$ 27,300 | \$ (4,280) |
| 36 | LOW INCOME WEATHERIZATION & TRIBAL | \$ 6,205 | \$ 6,005 | \$ 200 |
| 37 | ENERGY EFFICIENCY DEVELOPMENT | \$ 52 | \$ 8,000 | \$ (7,948) |
| 38 | DISTRIBUTED ENERGY RESOURCES | \$ 189 | \$ 215 | \$ (26) |
| 39 | LEGACY | \$ 617 | \$ 590 | \$ 27 |
| 40 | MARKET TRANSFORMATION | \$ 11,773 | \$ 11,800 | \$ (27) |
| 41 | Sub-Total | \$ 95,274 | \$ 121,267 | \$ (25,993) |
| 42 | Power System Generation Sub-Total | \$ 1,149,088 | \$ 1,154,145 | \$ (5,057) |
| 43 | | | | |

COMPOSITE COST POOL TRUE-UP TABLE

| | | Final (\$000) | Rate Case forecast for FY 2022 (\$000) | Final - Rate Case Difference |
|----|---|-------------------|--|---------------------------------|
| 44 | Power Non-Generation Operations | | | |
| 45 | Power Services System Operations | | | |
| 46 | EFFICIENCIES PROGRAM | \$ - | \$ - | \$ - |
| 47 | INFORMATION TECHNOLOGY | \$ - | \$ 3,804 | \$ (3,804) |
| 48 | GENERATION PROJECT COORDINATION | \$ 3,169 | \$ 3,947 | \$ (778) |
| 49 | ASSET MGMT ENTERPRISE SVCS | \$ 1,090 | \$ - | \$ 1,090 |
| 50 | SLICE IMPLEMENTATION | \$ 627 | \$ 971 | \$ (344) |
| 51 | Sub-Total | \$ 4,886 | \$ 8,721 | \$ (3,835) |
| 52 | Power Services Scheduling | | | |
| 53 | OPERATIONS SCHEDULING | \$ 10,241 | \$ 9,600 | \$ 640 |
| 54 | OPERATIONS PLANNING | \$ 7,906 | \$ 8,708 | \$ (802) |
| 55 | Sub-Total | \$ 18,147 | \$ 18,308 | \$ (162) |
| 56 | Power Services Marketing and Business Support | | | |
| 57 | GRID MOD | \$ 1,678 | \$ 2,223 | \$ (544) |
| 58 | EIM INTERNAL SUPPORT | \$ - | \$ - | \$ - |
| 59 | POWER INTERNAL SUPPORT | \$ 15,877 | \$ 13,976 | \$ 1,900 |
| 60 | COMMERCIAL ENTERPRISE SVCS | \$ 4,820 | \$ - | \$ 4,820 |
| 61 | OPERATIONS ENTERPRISE SVCS | \$ 4,960 | \$ - | \$ 4,960 |
| 62 | POWER R&D | \$ 1,952 | \$ 2,527 | \$ (575) |
| 63 | SALES & SUPPORT | \$ 11,393 | \$ 15,172 | \$ (3,780) |
| 64 | STRATEGY, FINANCE & RISK MGMT (REP support costs included here) | \$ - | \$ 4,031 | \$ (4,031) |
| 65 | EXECUTIVE AND ADMINISTRATIVE SERVICES (REP support costs included here) | \$ - | \$ 6,672 | \$ (6,672) |
| 66 | CONSERVATION SUPPORT | \$ 8,387 | \$ 7,876 | \$ 511 |
| 67 | Sub-Total | \$ 49,066 | \$ 52,477 | \$ (3,411) |
| 68 | Power Non-Generation Operations Sub-Total | \$ 72,099 | \$ 79,507 | \$ (7,407) |
| 69 | Power Services Transmission Acquisition and Ancillary Services | | | |
| 70 | TRANSMISSION and ANCILLARY Services - System Obligations | \$ 31,919 | \$ 31,919 | \$ 0 |
| 71 | 3RD PARTY GTA WHEELING | \$ 77,190 | \$ 81,854 | \$ (4,664) |
| 72 | POWER 3RD PARTY TRANS & ANCILLARY SVCS (Composite Cost) | \$ 2,190 | \$ 3,300 | \$ (1,110) |
| 73 | TRANS ACQ GENERATION INTEGRATION | \$ 14,726 | \$ 14,723 | \$ 3 |
| 74 | EESC CHARGES (Composite) | \$ (316) | \$ - | \$ (316) |
| 75 | TELEMETERING/EQUIP REPLACEM | \$ - | \$ - | \$ - |
| 76 | Power Services Trans Acquisition and Ancillary Serv Sub-Total | \$ 125,709 | \$ 131,795 | \$ (6,087) |
| 77 | Fish and Wildlife/USF&W/Planning Council/Environmental Req | | | |
| 78 | Fish & Wildlife | \$ 234,971 | \$ 247,508 | \$ (12,537) |
| 79 | USF&W Lower Snake Hatcheries | \$ 32,993 | \$ 33,000 | \$ (7) |
| 80 | Planning Council | \$ 11,942 | \$ 11,942 | \$ (0) |
| 81 | Fish and Wildlife/USF&W/Planning Council Sub-Total | \$ 279,906 | \$ 292,450 | \$ (12,544) |
| 82 | BPA Internal Support | | | |
| 83 | Additional Post-Retirement Contribution | \$ 18,181 | \$ 18,666 | \$ (485) |
| 84 | Agency Services G&A (excludes direct project support) | \$ 75,951 | \$ 66,805 | \$ 9,146 |
| 85 | BPA Internal Support Sub-Total | \$ 94,132 | \$ 85,471 | \$ 8,661 |

COMPOSITE COST POOL TRUE-UP TABLE

| | | Final (\$000) | Rate Case forecast for FY 2022 (\$000) | Final - Rate Case Difference |
|-----|---|------------------|--|---------------------------------|
| 86 | Bad Debt Expense | \$ - | \$ - | \$ - |
| 87 | Other Income, Expenses, Adjustments | \$ (973) | \$ - | \$ (973) |
| 88 | Depreciation | \$ 140,495 | \$ 140,949 | \$ (454) |
| 89 | Amortization | \$ 325,739 | \$ 320,900 | \$ 4,839 |
| 90 | Accretion (CGS) | \$ 36,013 | \$ 36,754 | \$ (741) |
| 91 | Total Operating Expenses | \$ 2,222,208 | \$ 2,241,971 | \$ (19,762) |
| 92 | | | | |
| 93 | Other Expenses and (Income) | | | |
| 94 | Net Interest Expense | \$ 225,154 | \$ 240,508 | \$ (15,354) |
| 95 | LDD | \$ 39,805 | \$ 39,482 | \$ 323 |
| 96 | Irrigation Rate Discount Costs | \$ 20,523 | \$ 20,509 | \$ 14 |
| 97 | Sub-Total | \$ 285,482 | \$ 300,499 | \$ (15,017) |
| 98 | Total Expenses | \$ 2,507,690 | \$ 2,542,470 | \$ (34,780) |
| 99 | | | | |
| 100 | Revenue Credits | | | |
| 101 | Generation Inputs for Ancillary, Control Area, and Other Services Revenues | \$ 97,575 | \$ 104,245 | \$ (6,670) |
| 102 | Downstream Benefits and Pumping Power revenues | \$ 20,109 | \$ 20,661 | \$ (552) |
| 103 | 4(h)(10)(c) credit | \$ 112,319 | \$ 94,171 | \$ 18,148 |
| 104 | PRSC Net Credit (Composite) | \$ 6,824 | \$ - | \$ 6,824 |
| 105 | Colville and Spokane Settlements | \$ 4,600 | \$ 4,600 | \$ - |
| 106 | Energy Efficiency Revenues | \$ 3,710 | \$ 8,000 | \$ (4,290) |
| 107 | PF Load Forecast Deviation Liquidated Damages | \$ - | \$ 1,070 | \$ (1,070) |
| 108 | Miscellaneous revenues | \$ 10,545 | \$ 11,621 | \$ (1,076) |
| 109 | Renewable Energy Certificates | \$ - | \$ - | \$ - |
| 110 | Net Revenues from other Designated BPA System Obligations (Upper Baker) | \$ 598 | \$ 411 | \$ 187 |
| 111 | RSS Revenues | \$ 3,040 | \$ 3,040 | \$ - |
| 112 | Firm Surplus and Secondary Adjustment (from Unused RHWM) | \$ 89,393 | \$ 86,168 | \$ 3,225 |
| 113 | Balancing Augmentation Adjustment | \$ (4,070) | \$ (4,070) | \$ - |
| 114 | Transmission Loss Adjustment | \$ 30,187 | \$ 30,187 | \$ - |
| 115 | Tier 2 Rate Adjustment | \$ 1,537 | \$ 1,537 | \$ 0 |
| 116 | NR Revenues | \$ 1 | \$ 1 | \$ - |
| 117 | Total Revenue Credits | \$ 376,366 | \$ 361,642 | \$ 14,724 |
| 118 | | | | |
| 119 | Augmentation Costs (not subject to True-Up) | | | |
| 120 | Tier 1 Augmentation Resources (includes Augmentation RSS and Augmentation RSC adders) | \$ 10,249 | \$ 10,249 | \$ (0) |
| 121 | Augmentation Purchases | \$ - | \$ - | \$ - |
| 122 | Total Augmentation Costs | \$ 10,249 | \$ 10,249 | \$ (0) |
| 123 | | | | |
| 124 | DSI Revenue Credit | | | |
| 125 | Revenues 12 aMW @ IP rate | \$ 4,017 | \$ 4,277 | \$ (260) |
| 126 | Total DSI revenues | \$ 4,017 | \$ 4,277 | \$ (260) |
| 127 | | | | |

| COMPOSITE COST POOL TRUE-UP TABLE | | | | |
|-----------------------------------|--|-------------------|--|---------------------------------|
| | | Final (\$000) | Rate Case forecast for FY 2022 (\$000) | Final - Rate Case Difference |
| 128 | Minimum Required Net Revenue Calculation | | | |
| 129 | Principal Payment of Fed Debt for Power | \$ 479,300 | \$ 495,001 | \$ (15,701) |
| 130 | Repayment of Non-Federal Obligations (EN Line of Credit) | \$ - | \$ - | \$ - |
| 131 | Repayment of Non-Federal Obligations (CGS, WNP1, WNP3, N. Wasco, Cowlitz Falls) | \$ 42,185 | \$ 16,005 | \$ 26,180 |
| 132 | Irrigation assistance | \$ 17,064 | \$ 16,060 | \$ 1,004 |
| 133 | Sub-Total | \$ 538,549 | \$ 527,066 | \$ 11,483 |
| 134 | Depreciation | \$ 140,495 | \$ 140,949 | \$ (454) |
| 135 | Amortization | \$ 325,739 | \$ 320,900 | \$ 4,839 |
| 136 | Accretion | \$ 36,013 | \$ 36,754 | \$ (741) |
| 137 | Capitalization Adjustment | \$ (45,937) | \$ (45,937) | \$ 0 |
| 138 | Amortization of Refinancing Premiums/Discounts (MRNR - Reverse Sign) | \$ (25,804) | \$ (7,562) | \$ (18,242) |
| 139 | Amortization of Cost of Issuance (MRNR-reverse sign) | \$ 420 | \$ 169 | \$ 251 |
| 140 | Cash freed up by DSR refinancing | \$ 15,245 | \$ 16,510 | \$ (1,265) |
| 141 | Gains/Losses on Extinguishment | \$ - | \$ - | \$ - |
| 142 | Non-Cash Expenses | \$ 97,496 | \$ 77,926 | \$ 19,570 |
| 143 | Prepay Revenue Credits | \$ (30,600) | \$ (30,600) | \$ - |
| 144 | Non-Federal Interest (Prepay) | \$ 7,854 | \$ 7,854 | \$ 0 |
| 145 | Contribution to decommissioning trust fund | \$ (4,663) | \$ (4,472) | \$ (191) |
| 146 | Gains/losses on decommissioning trust fund | \$ (18,128) | \$ (9,857) | \$ (8,270) |
| 147 | Interest earned on decommissioning trust fund | \$ (0) | \$ (3,399) | \$ 3,399 |
| 148 | Revenue Financing Requirement | \$ (40,000) | \$ (40,000) | \$ - |
| 149 | Sub-Total | \$ 458,130 | \$ 459,235 | \$ (1,104) |
| 150 | Principal Payment of Fed Debt plus Irrigation assistance exceeds non cash expenses | \$ 80,418 | \$ 67,832 | \$ 12,587 |
| 151 | Minimum Required Net Revenues | \$ 80,418 | \$ 67,832 | \$ 12,587 |
| 152 | | | | |
| 153 | Annual Composite Cost Pool (Amounts for each FY) | \$ 2,217,975 | \$ 2,254,632 | \$ (36,656) |
| 154 | | | | |
| 155 | SLICE TRUE-UP ADJUSTMENT CALCULATION FOR COMPOSITE COST POOL | | | |
| 156 | TRUE-UP AMOUNT (Diff. between Rate Case and Forecast) | (36,656) | | |
| 157 | Sum of TOCAs | 0.9580515 | | |
| 158 | Adjustment of True-Up Amount when actual TOCAs < 100 percent | (38,261) | | |
| 159 | TRUE-UP ADJUSTMENT CHARGE BILLED (22.36267 percent) | (8,556) | | |

Financial Disclosures

This information has been made publicly available by BPA on November 15, 2022 and contains information not sourced directly from BPA financial statements.