



# QUARTERLY BUSINESS REVIEW

MAY 1, 2018



# **INTRODUCTION**

Scott Simms, DIRECTOR OF COMMUNICATIONS

# **AGENDA**

Time	Presentation	Speaker
9:00 – 9:02	Introductions	Scott Simms  Director of Communications
9:02 – 9:20	<ul><li>State of the business:</li><li>Grid modernization</li><li>Environment, Fish and Wildlife updates</li></ul>	Elliot Mainzer  Administrator
9:20 – 9:30	Finance update	Mary Hawken  Acting chief financial officer
9:30 – 9:40	Power Services update	Joel Cook Senior VP of Power Services
9:40 – 9:50	Transmission Services update	Richard Shaheen Senior VP of Transmission Services
9:50 - 9:51	Upcoming involvement opportunities	Scott Simms
9:51 – 10:00	Question and answer session	



# STATE OF THE BUSINESS

Elliot Mainzer, ADMINISTRATOR AND CHIEF EXECUTIVE OFFICER

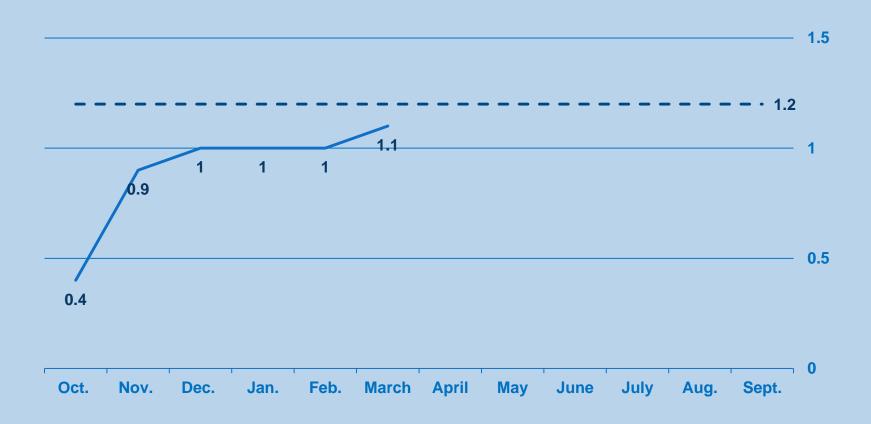
## **SAFETY**

#### **Incident frequency rate**









## **GRID MODERNIZATION**

- Modernizing BPA's assets and operations is a critical element of our 2018-23 Strategic Plan and will help increase competitiveness and customer responsiveness.
  - Increase power and transmission revenues.
  - Reduce long-term transmission costs by potentially decreasing or delaying the need for system expansion.
- We will enhance system operations in three major ways: automation, accuracy and visibility.
- Sustained investment of \$25 million per rate period through 2021.

#### **ENERGY IMBALANCE MARKET**

- One outcome of grid modernization the potential to join the Western EIM.
- BPA is exploring how and under what conditions it could participate in the EIM operated by the CAISO.
- Initial cost-benefit analysis:
  - Assumed start-up cost of \$35 million.
  - Annual benefit to Power Services of \$14 million.
- BPA is committed to transparency and customer engagement in working towards a decision on whether to join the market.

### OTHER GRID MOD ENGAGEMENTS

- BPA is engaging in related efforts to protect NW interests and support developments that could improve secondary revenues.
  - Day-ahead capacity product: CAISO's proposal for day-ahead market enhancements includes an imbalance reserve product.
  - Intertie optimization: CAISO and others are studying ways to increase dynamic transfer capability and capacity of the AC and DC interties.

## SPILL SURCHARGE

- On April 2, the 9<sup>th</sup> U.S. Circuit Court of Appeals upheld the 2018 spill injunction. BPA will be implementing a spill surcharge in FY 2018.
- The spill surcharge will adjust power rates to recover the non-Slice portion of the cost associated with increased spill and lost generation relative to the spill assumptions used when setting rates.

## SPILL SURCHARGE

- Next week BPA will share:
  - Preliminary data and assumptions used to calculate the surcharge.
  - Information will include proposed program spending reductions to help offset the spill surcharge.
- Rates staff will review these materials at a workshop on May 16 at 1 p.m.

## **FISH ACCORDS**

- Columbia Basin Fish Accords signed in 2008.
  - Signed by action agencies, states and tribes.
  - To date, partners have restored more than 8,000 acres of estuary floodplain and reopened nearly 4,000 miles of spawning grounds.
- Fish Accords are set to expire in September 2018.
- BPA actively exploring post-2018 path forward on Fish Accords.

## **FISH ACCORDS**

- Consideration for Fish Accords extension is the 2018-2023 Strategic Plan commitment:
  - BPA intends to manage its fish and wildlife program costs at or below the rate of inflation, inclusive of any new obligations that may emerge from litigation or subsequent commitments in current or future biological opinions.
- As BPA further explores potential Fish Accords extension, additional outreach will occur with customers and regional stakeholders.



# **FINANCE**

Mary Hawken, ACTING CHIEF FINANCIAL OFFICER

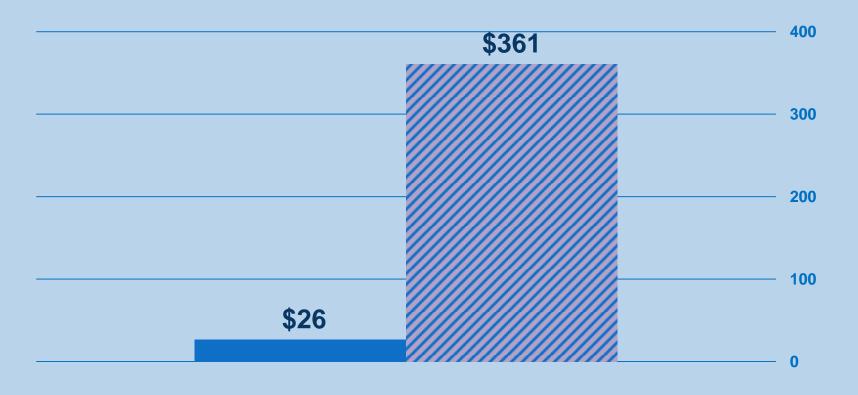
## **AGENCY NET REVENUES**

#### **FCRPS** net revenues

In millions of dollars

■ BP-18 Rate Case ■ Q2 Forecast





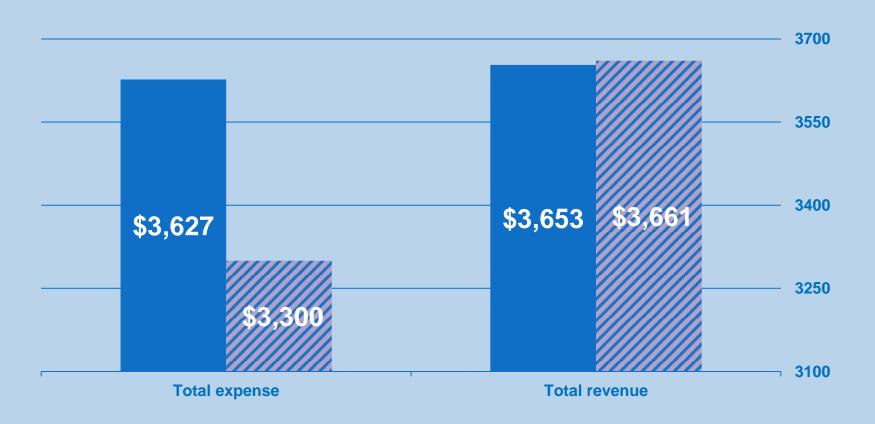
## **AGENCY FINANCIAL HEALTH**

#### Federal Columbia River Power System

Total revenue and expense in millions of dollars

■BP-18 Rate Case ■ Q2 Forecast



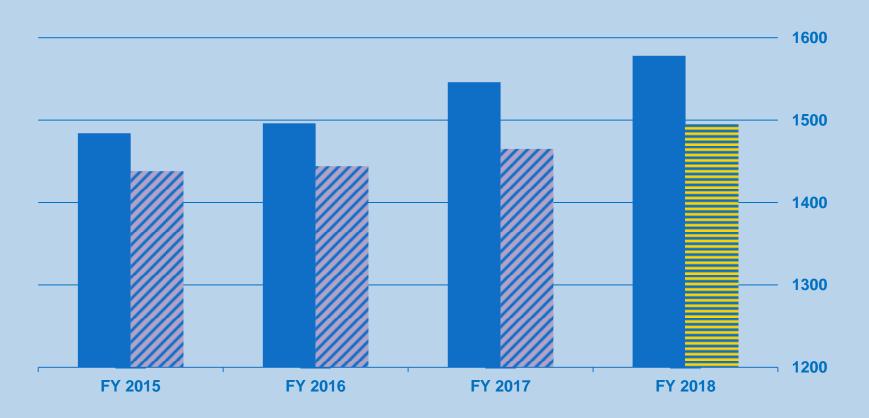


## **Q2 BUDGET TRUE UP**

#### Historical agency underspend

Total program expense in millions of dollars

■ Start-of-year budget ■ Actuals ■ FY 2018 budget true up



## **BUDGET ESCALATION**

#### **Cost-management objective escalation alternative**

Total program expense in millions of dollars

- FY Target (BP-20 path) - Rate period target 1650 1600 1550 1500 1450 **FY 2017** FY 2018 FY 2019 FY 2020 FY 2021 FY 2022 **FY 2023** 

actuals

#### **DEPRECIATION STUDY**

- Conducted depreciation study update using data through FY 2016.
- The largest change is due to increased costs associated with removing assets.
- New depreciation rates went into effect March 2018.

## DAYS CASH ON HAND



	BP-18 Rate Case			FY 2018 EOY forecast		
	Power	Trans.	Agency	Power	Trans.	Agency
EOY Reserves	170	468	638	214	566	780
Reserves not for risk	149	63	212	168	102	270
Reserves available for risk	21	405	426	46	464	510
Days cash on hand	4	237	64	9	275	76

<sup>\*</sup>Reserves in millions of dollars



# **POWER SERVICES**

Joel Cook, SENIOR VICE PRESIDENT OF POWER SERVICES

## **POWER SERVICES EXPENSE**

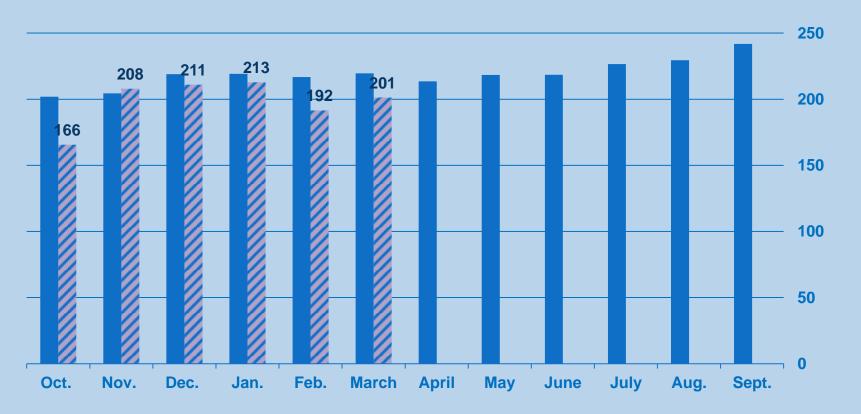
#### Power total expense

Total expenses in millions of dollars

■ BP-18 Rate Case

Actuals

Total expense (in millions of dollars)				
BP-18 Rate Case	Q2 EOY forecast	BP-18 year-to-date	Expenses year-to-date	
2,629	2,488	1,281	1,190	



## **POWER SERVICES REVENUES**

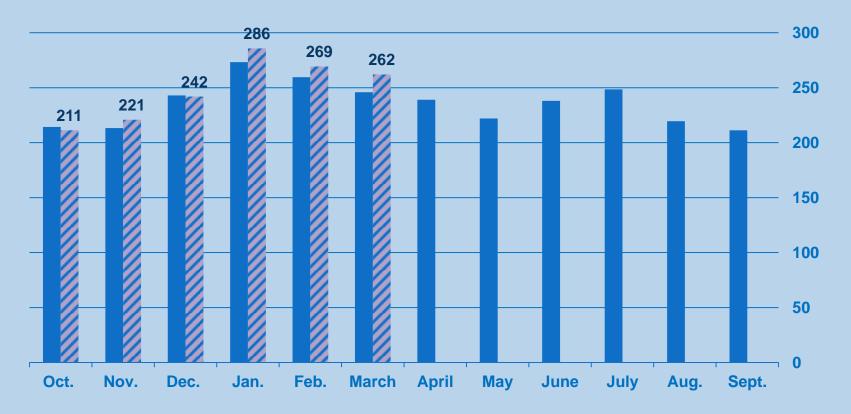
#### **Power total revenues**

Total revenues in millions of dollars

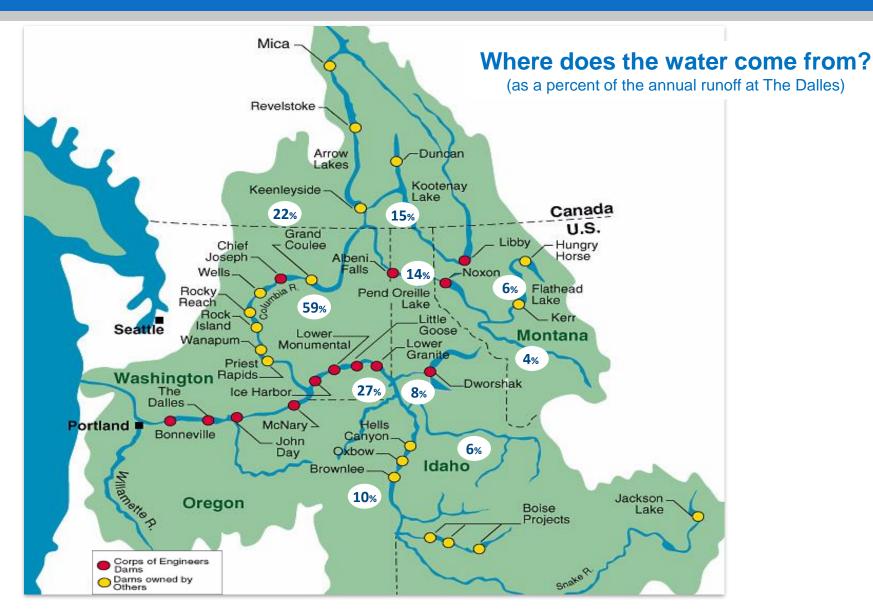
■BP-18 Rate Case

Actuals

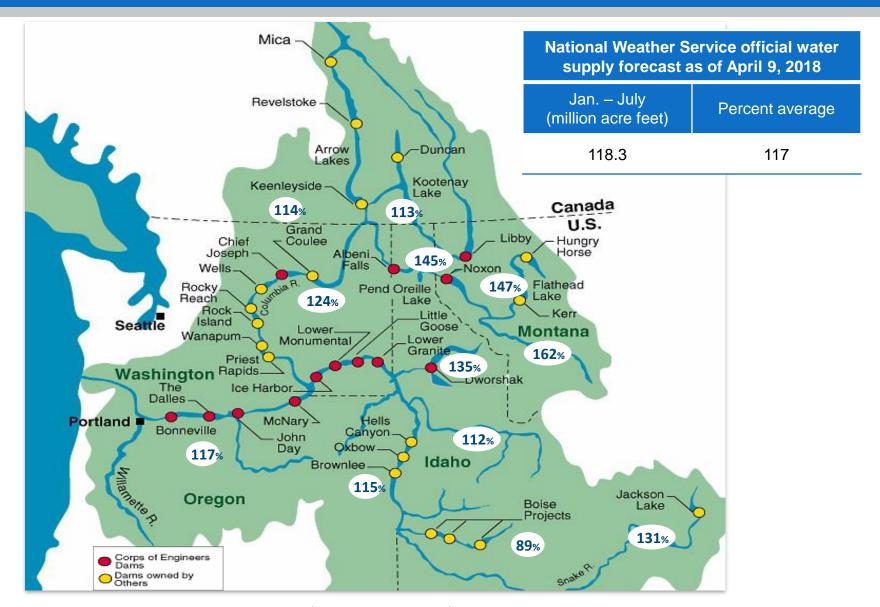
Total revenues (in millions of dollars)				
BP-18 Rate Case	Q2 EOY forecast	BP-18 year-to-date	Revenues year-to-date	
2,827	2,841	1,449	1,491	



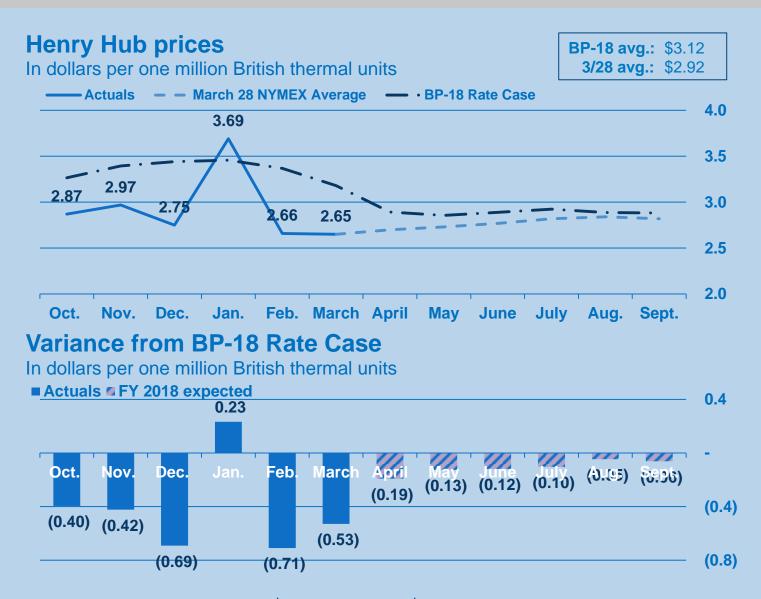
## PERCENTAGE OF ANNUAL RUNOFF



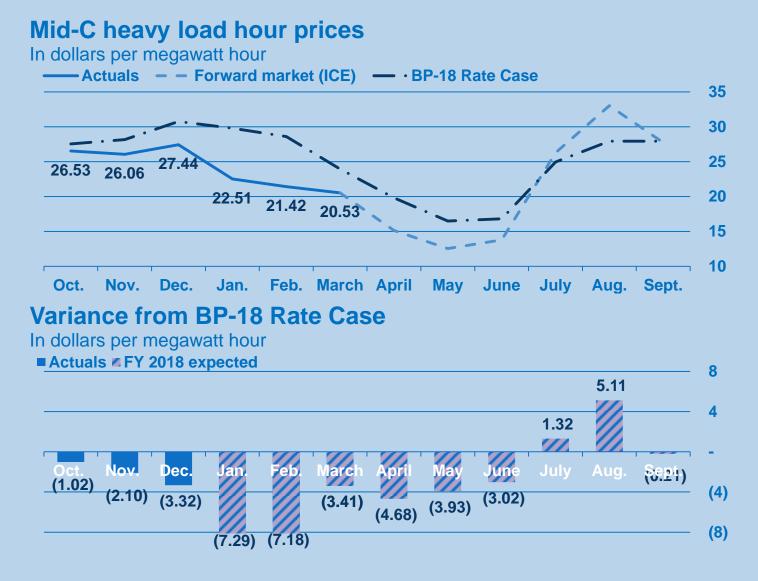
#### **SNOWPACK CONDITIONS**



#### HENRY HUB PRICES



## **MID-C PRICES**



## **POWER SERVICES CAPITAL**

#### **Capital spend and TBD metric**

Tracks capital expenditure and work completed to date





Note: capital expenditure KPI includes only direct-funded federal hydropower capital.

#### FEDERAL HYDROPOWER RELIABILITY

#### Federal hydropower forced outage factor

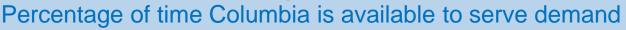
KPI

Percentage of hours fed hydro projects are offline due to unplanned outages

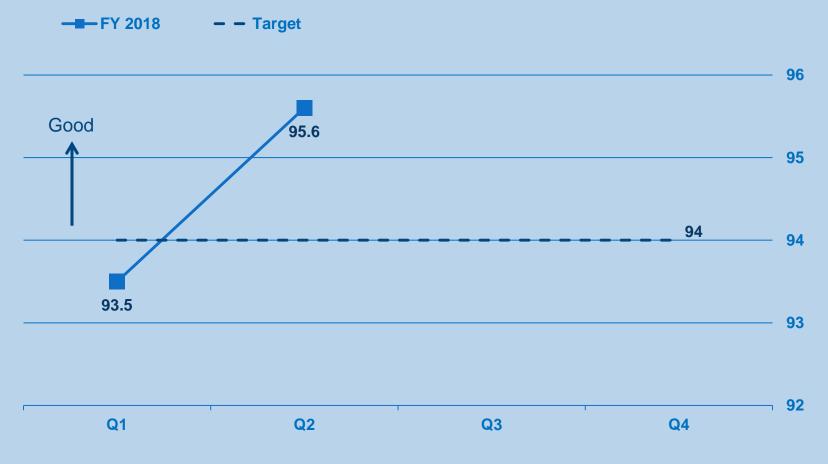


#### **COLUMBIA GENERATING STATION RELIABILITY**

#### **Columbia Generating Station availability factor**









# TRANSMISSION SERVICES

Richard Shaheen, SENIOR VICE PRESIDENT OF TRANSMISSION SERVICES

## TRANSMISSION SERVICES EXPENSE

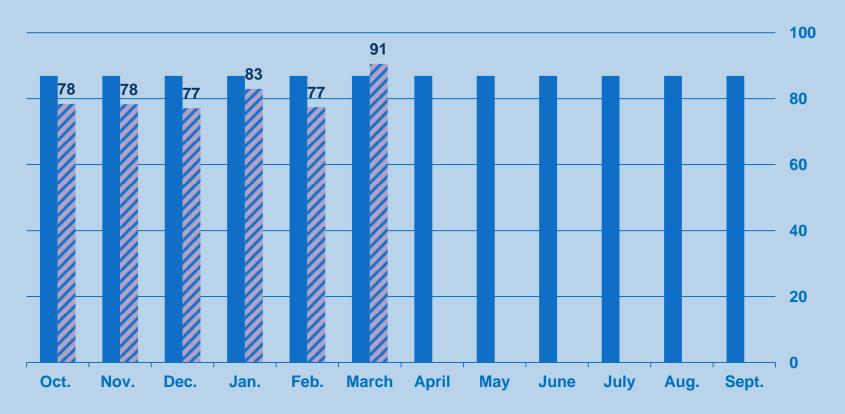
#### **Transmission total expense**

Total expense in millions of dollars

■ BP-18 Rate Case

Actuals

Total expense (in millions of dollars)				
BP-18 Rate Case	Q2 EOY forecast	BP-18 year-to-date	Expenses year-to-date	
1,043	1,050	521	485	



#### TRANSMISSION SERVICES REVENUES

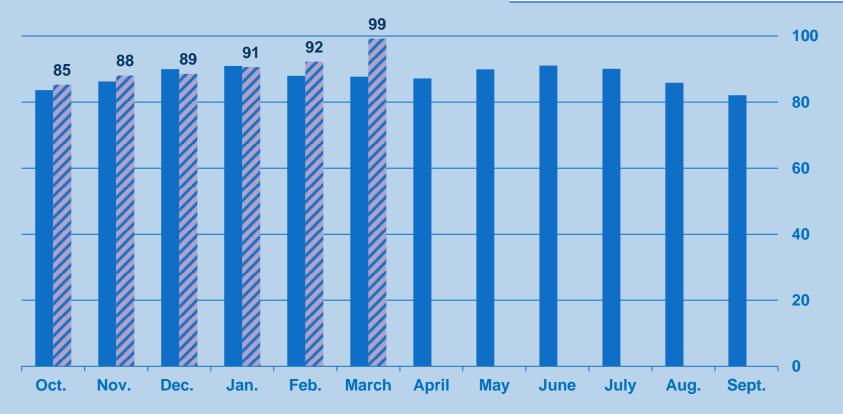
#### **Transmission total revenues**

Total revenues in millions of dollars

■ BP-18 Rate Case

Actuals

Total revenues (in millions of dollars)				
BP-18 Rate Case	Q2 EOY forecast	BP-18 year-to-date	Revenues year-to-date	
1,052	1,066	526	544	

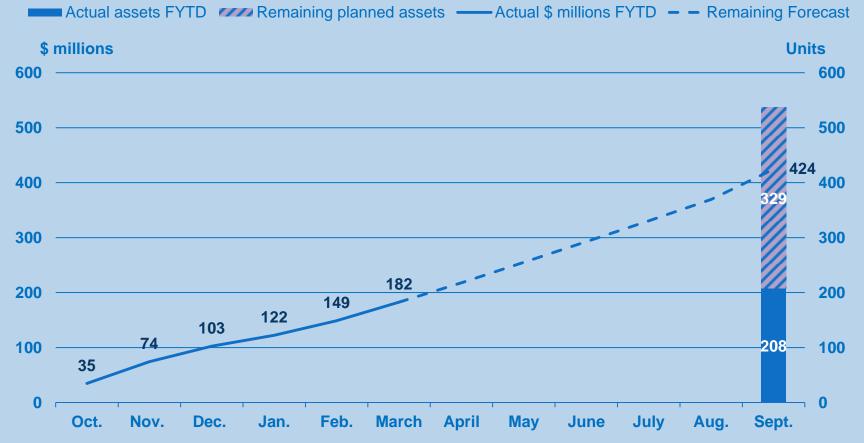


## TRANSMISSION SERVICES CAPITAL

#### Capital spend and units installed

Tracks capital expenditure and work completed to date



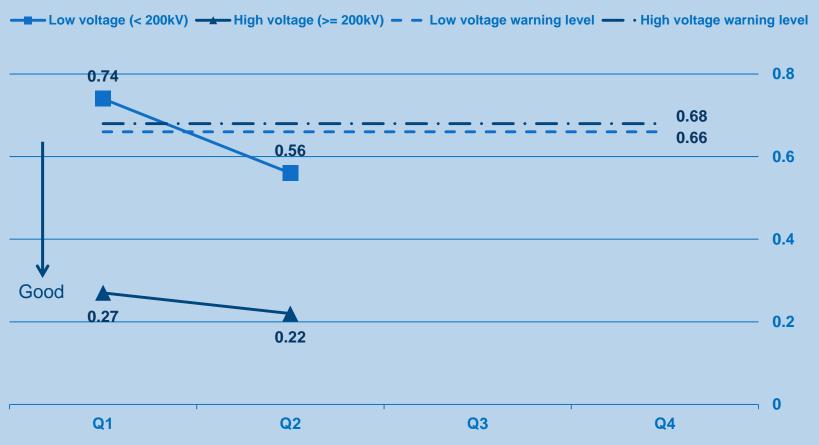


## **TRANSMISSION RELIABILITY - SAIFI**

#### System average interruption frequency index



Tracks frequency of unplanned outages

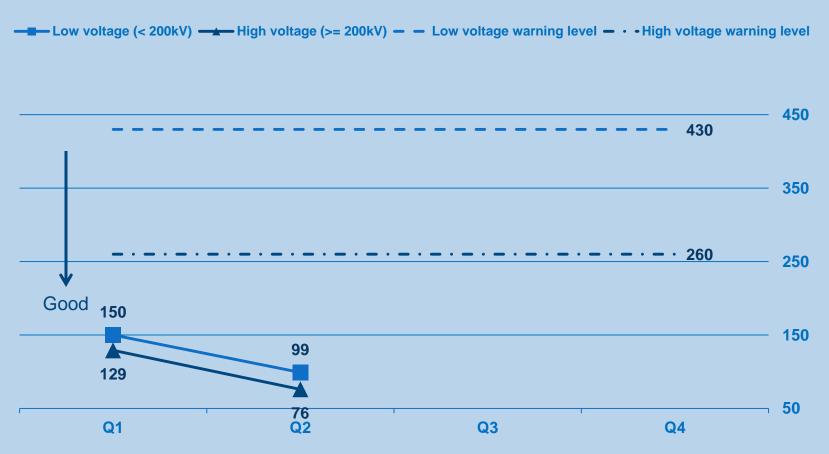


## **TRANSMISSION RELIABILITY - SAIDI**

#### System average interruption duration index



Tracks duration of unplanned outages



## **ENGAGE WITH TRANSMISSION**

- Reliability coordination.
- Asset management.
- TC-20 (formerly Transmission tariff engagement and Pro Forma Gap Assessment).
- Evolving transmission demand.



# **PUBLIC PROCESSES**

Scott Simms, DIRECTOR OF COMMUNICATIONS

### **PUBLIC PROCESSES**

- May 9 FY2020-21 Rate Period High Water Mark process workshop.
- May 10 Resource Program workshop.
- May 15-16 Efficiency Exchange Northwest 2018.
- May 16 Spill surcharge workshop.
- May 22 Strengthening financial health: capital financing workshop.
- May 30 Columbia River System Operation EIS public update webinar.
- May 31 TC-20 Tariff customer workshops.
  - Additional meetings: June 26, July 23, Aug. 21.
- June 13 South of Allston Bilateral Redispatch Pilot workshop.
- **June 18–22** Integrated Program Review.

## **COMMENT PERIODS**

- May 11 Financial Reserves Policy and Leverage Policy.
- May 24 Bonneville Environmental Foundation agreement extension.



# **QUESTION AND ANSWER**

#### **THANK YOU**

The next QBR is scheduled for July 31, 2018.

Strategic plan is available at www.bpa.gov/StrategicPlan.

Didn't get your question answered?
Email Communications@bpa.gov. Answers will be posted to www.bpa.gov/goto/QBR.

## FINANCIAL DISCLOSURE

This information was publicly available on April 30, 2018, and contains information not sourced directly from BPA financial statements.