

Hourly Firm Evaluation Webinar

April 24, 2019

Proposed Hourly Firm Evaluation Webinar

April 24, 2019

TIME	TOPIC	PRESENTERS
10:00 - 10:05 AM	Welcome/Proposed Agenda and Objectives	Katie Sheckells
10:05 - 10:50 AM	Deep Dive	Kevin Johnson/Group
10:50 - 11:15 PM	Continuation of Discussion	Group
11:15 - 11:30 PM	Proposed Calendar and Next Steps	Katie Sheckells

Today's Objective

- Based on the feedback from last workshop, deep dive on an event to make sure that we have all the information that we need to evaluate the Hourly Firm product.
- This will be an active, collaborative session with BPA and the customers that is focused on the first objective.
- We will leave with a shared understanding of any additional information that may need to be developed and reviewed at future meetings.

DEEP DIVE

FEBRUARY 22, 2019
NORTH OF ECHO LAKE
HE10+

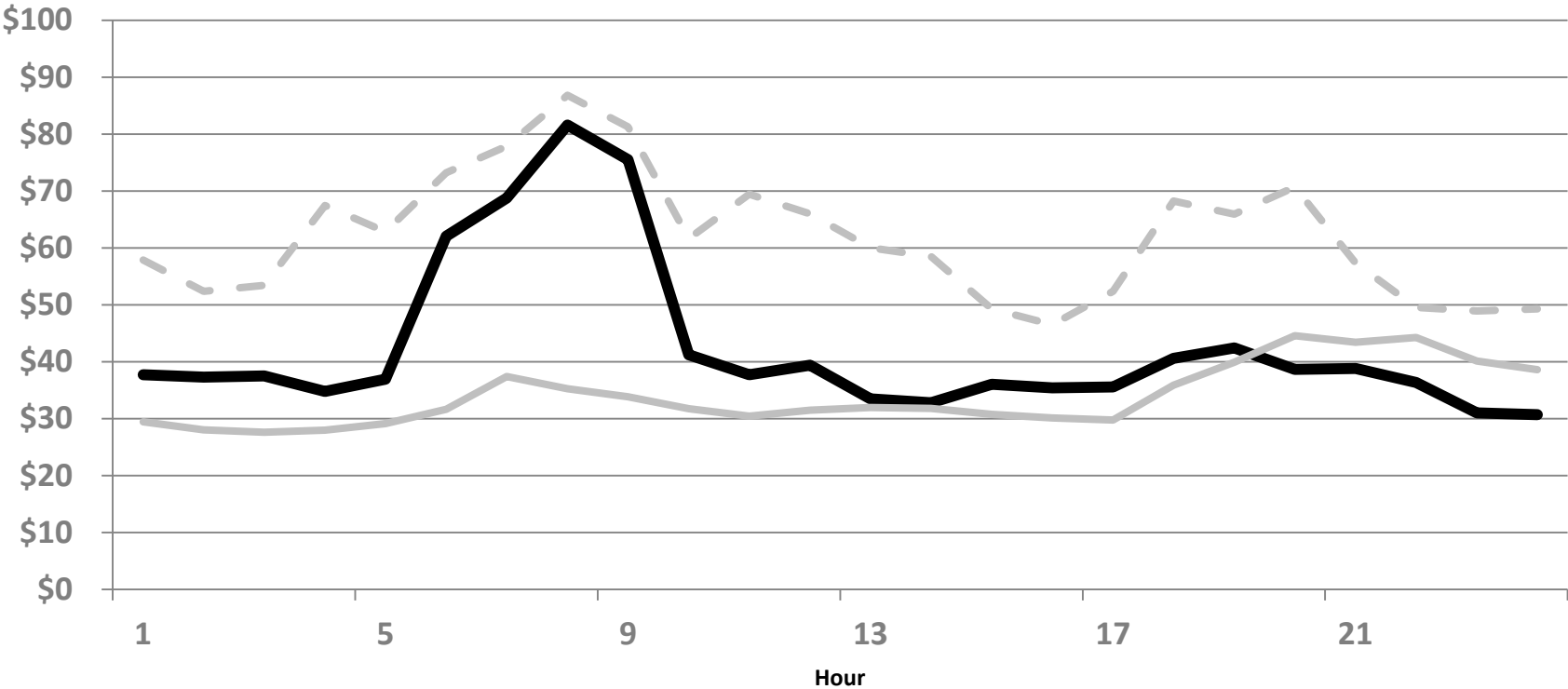
Conditions

- Significant Load & Generation
 - Cold (40F or less at Snohomish all day)
 - Load persistently high through the day
 - Puget generation below forecast (SCL gen particularly low)
 - High Northern Intertie S>N transfers
- Significant Outages
 - Raver-Echo Lake 1 500kV line including Raver PCB 4792, 4789 and Echo Lake PCB 5114, 5117
 - Custer PCB 4482

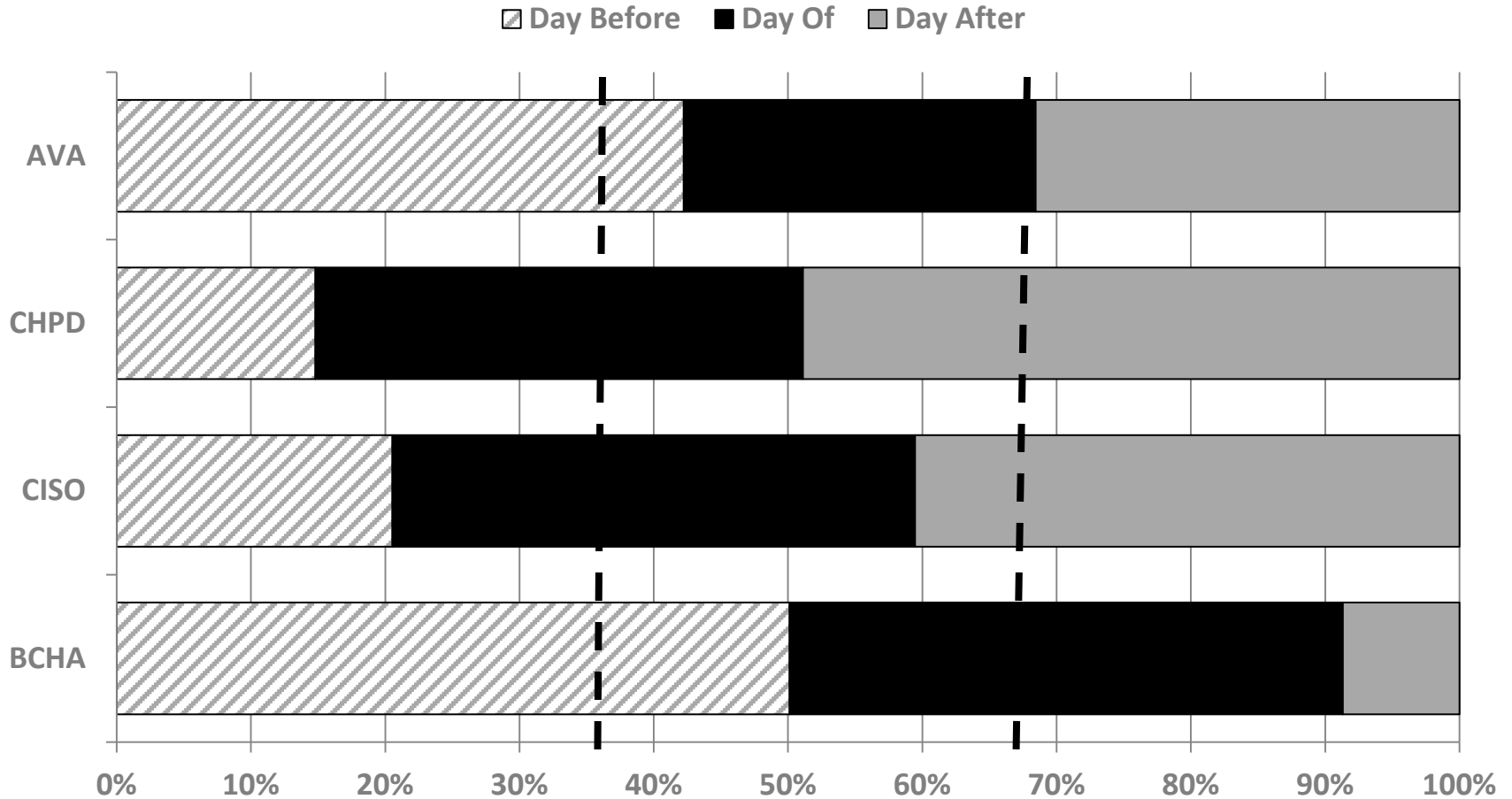
Market

Mid-C Hourly Prices, February 22, 2019

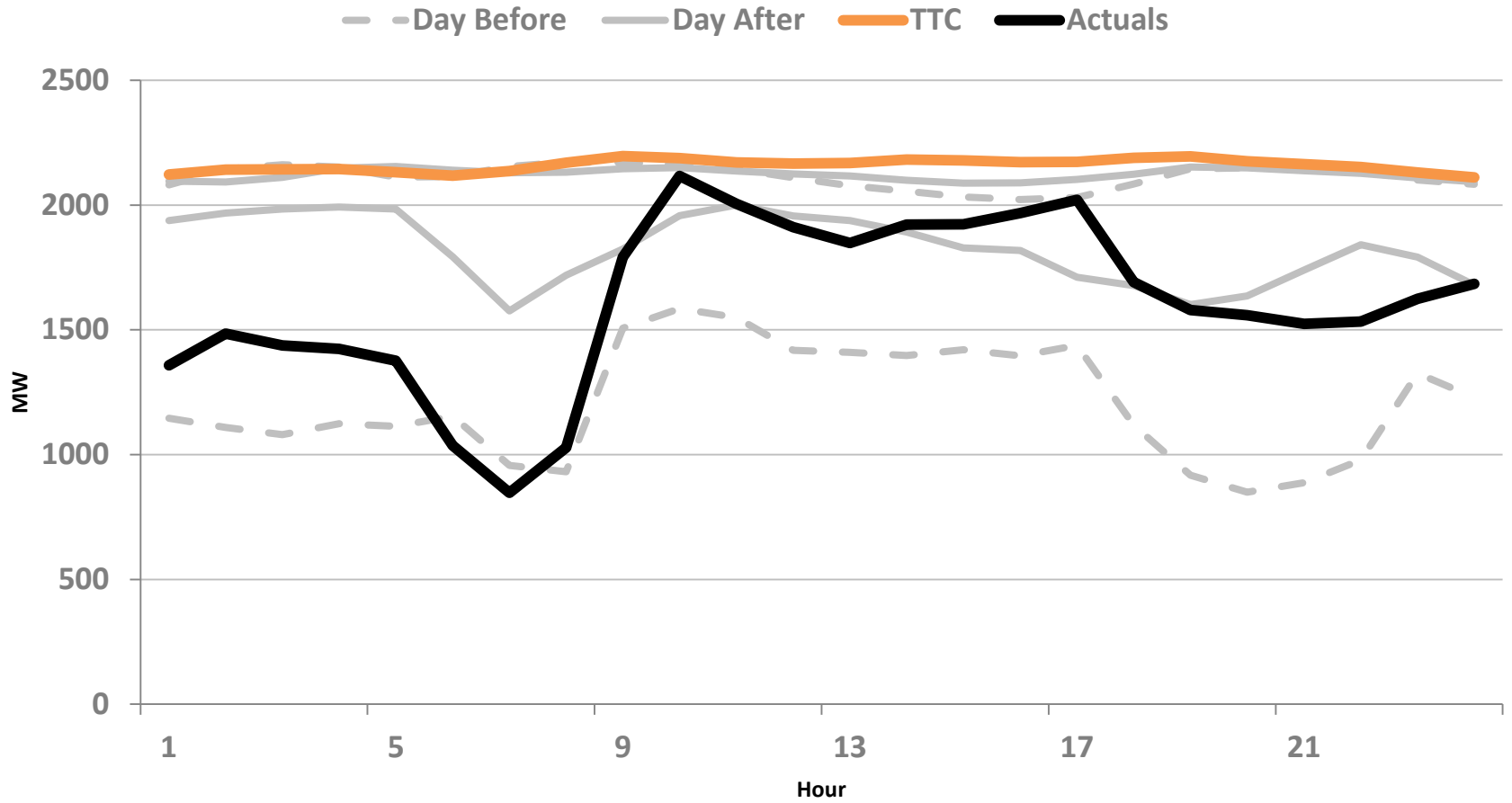
- - Day Before **—** Day Of — Day After



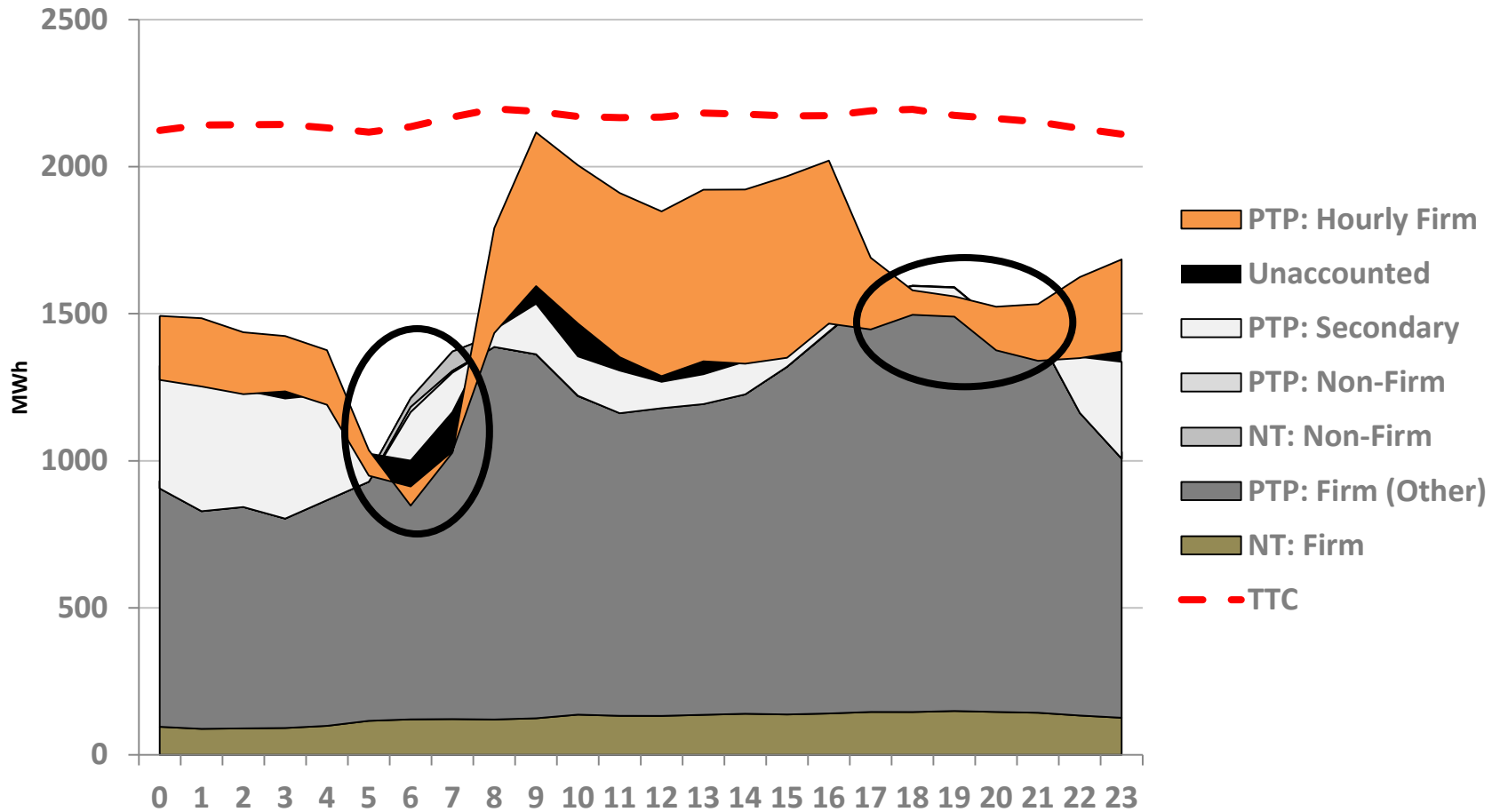
Significant Generation Variances



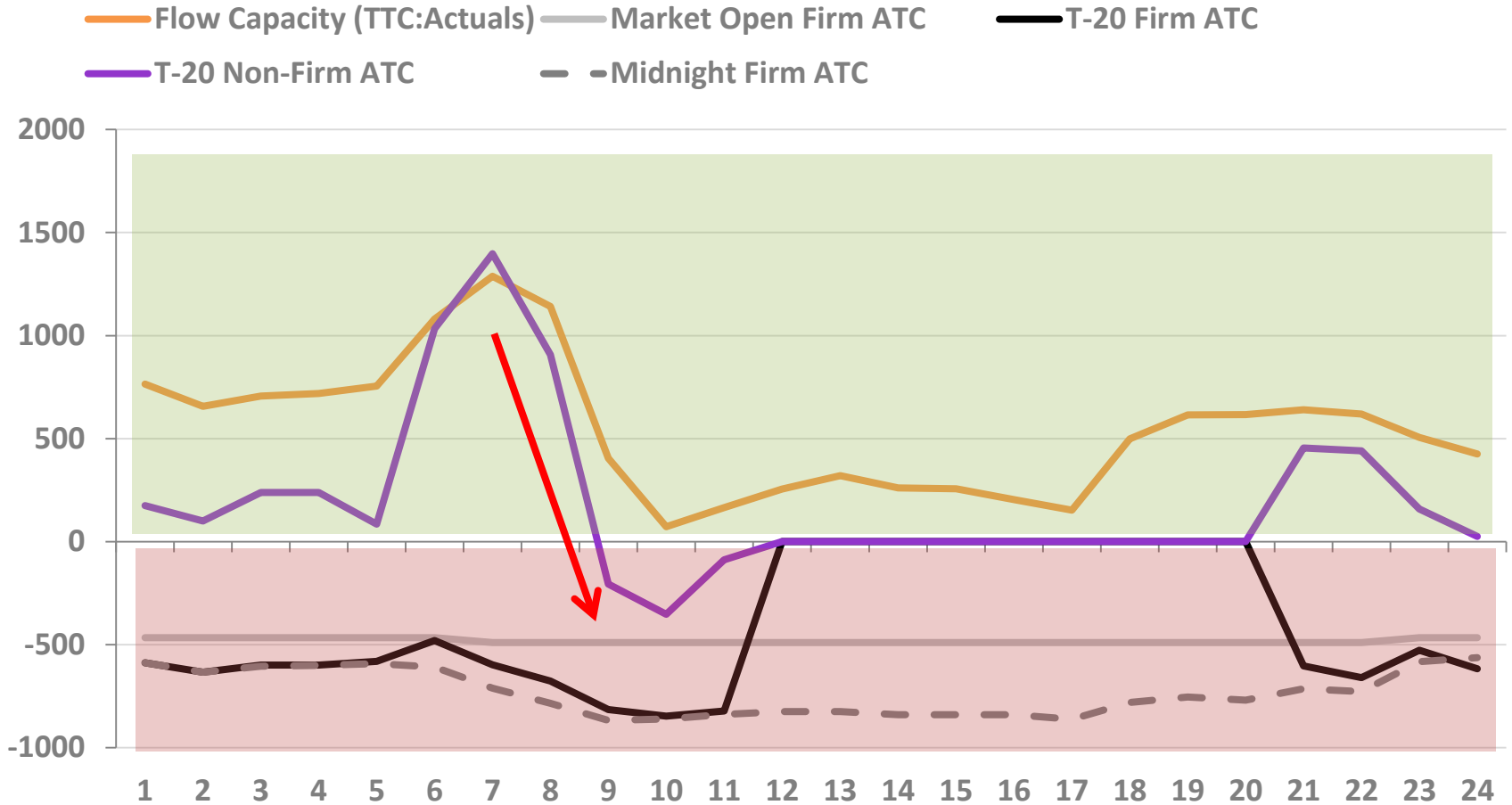
System Flows and Operating Limit



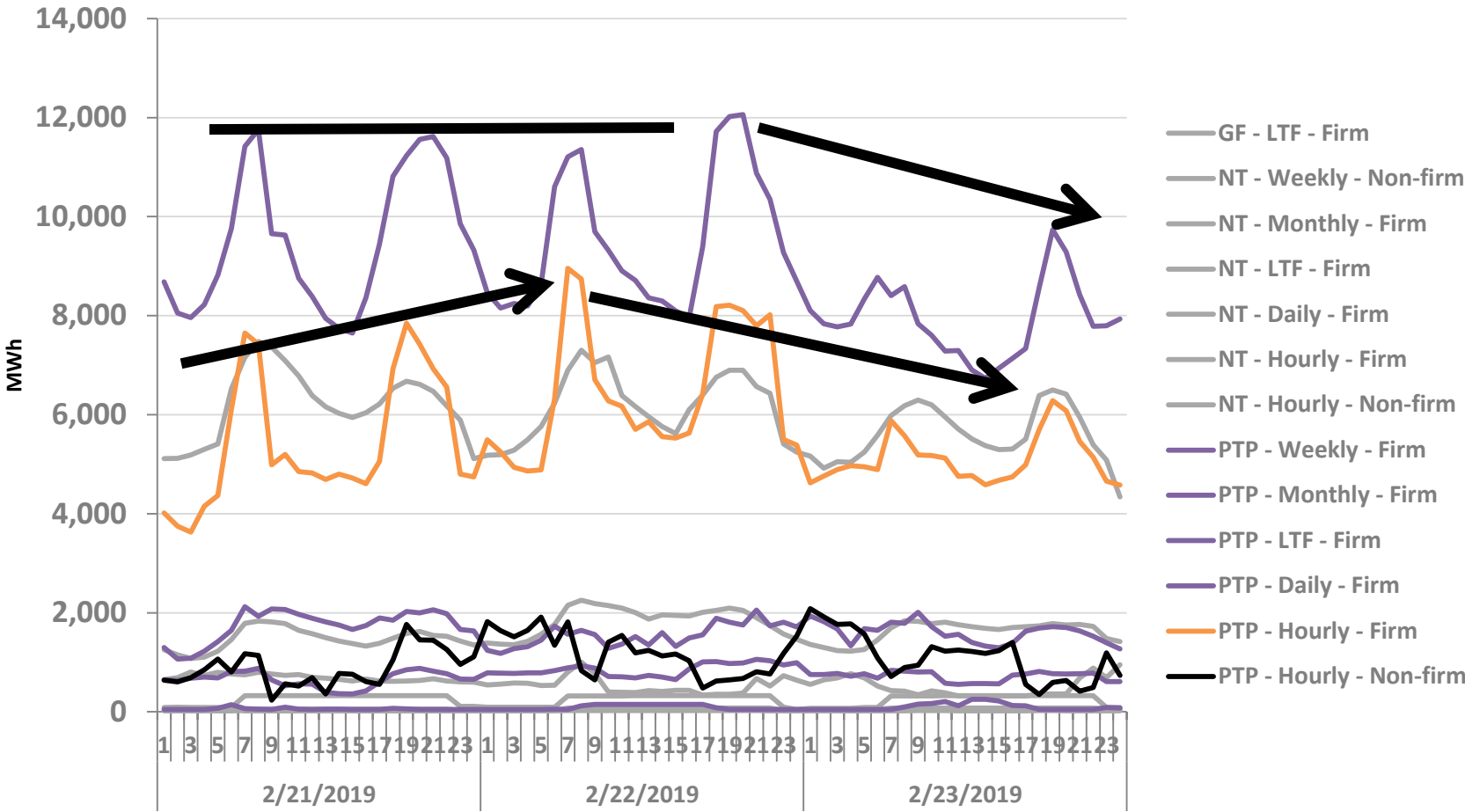
Product Flow



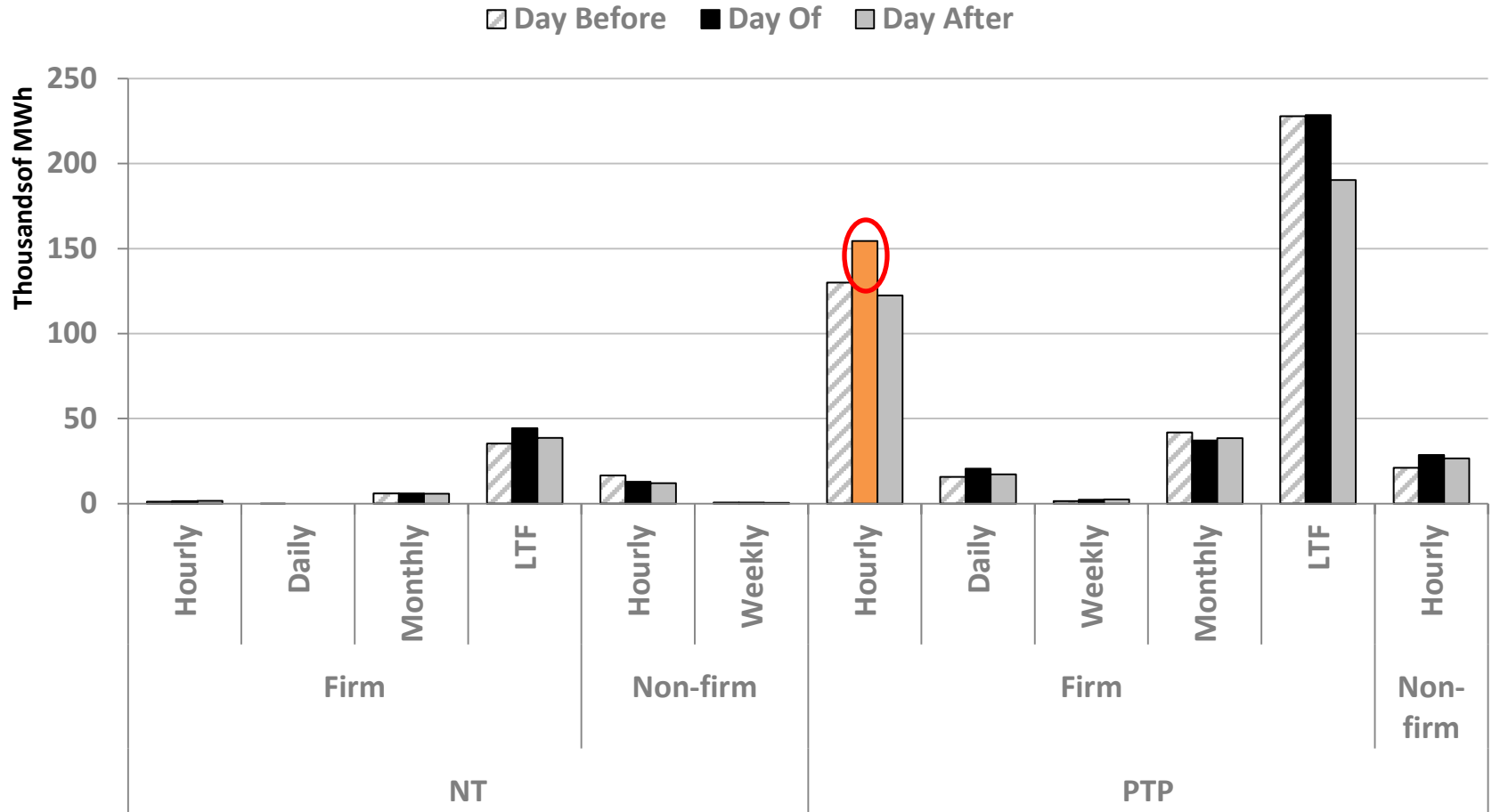
Available Capacity



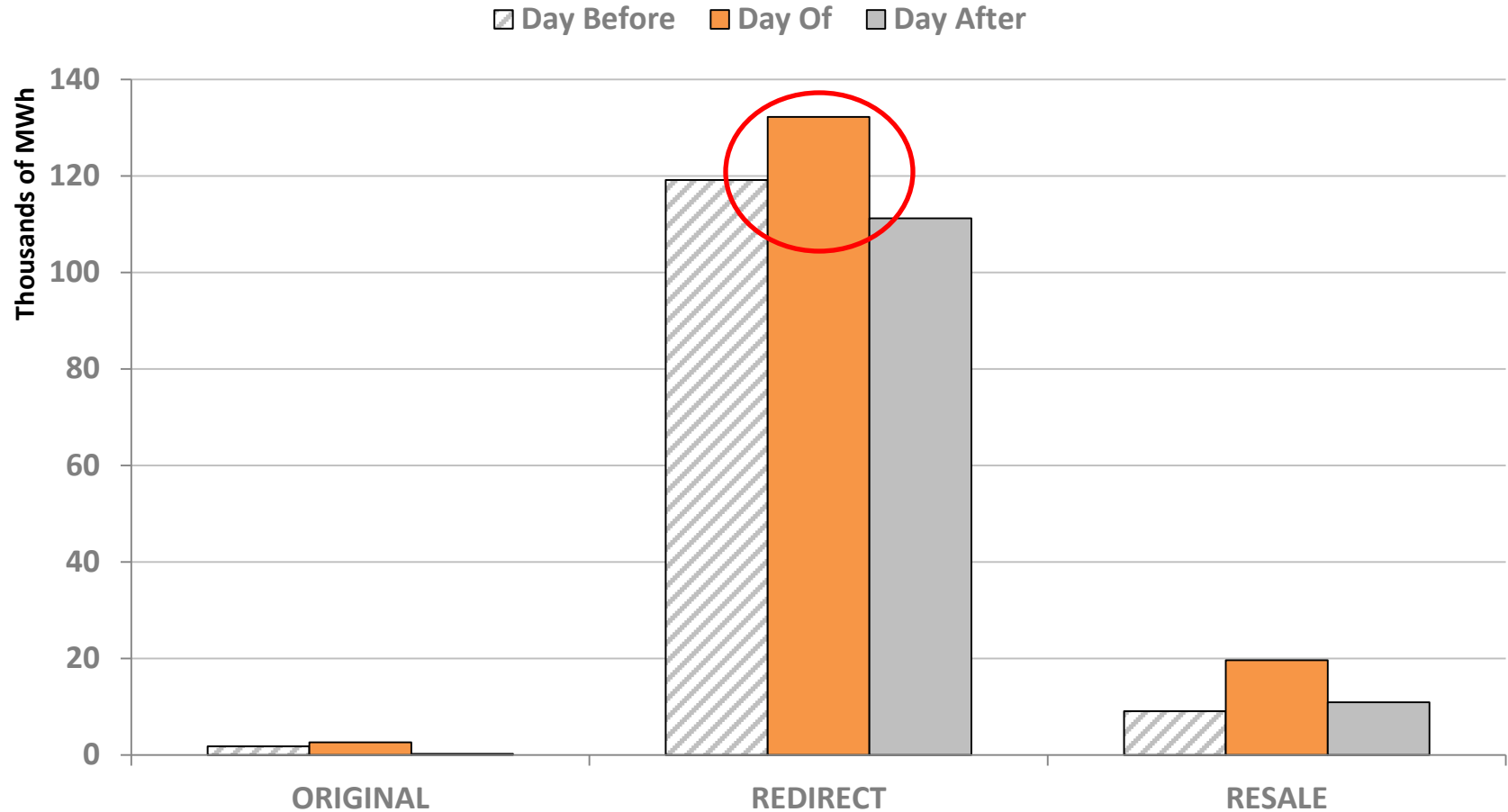
Scheduled Segments from Feb 21-23, 2019



Product Schedules



Hourly Firm PTP Schedule



Dispatcher Actions

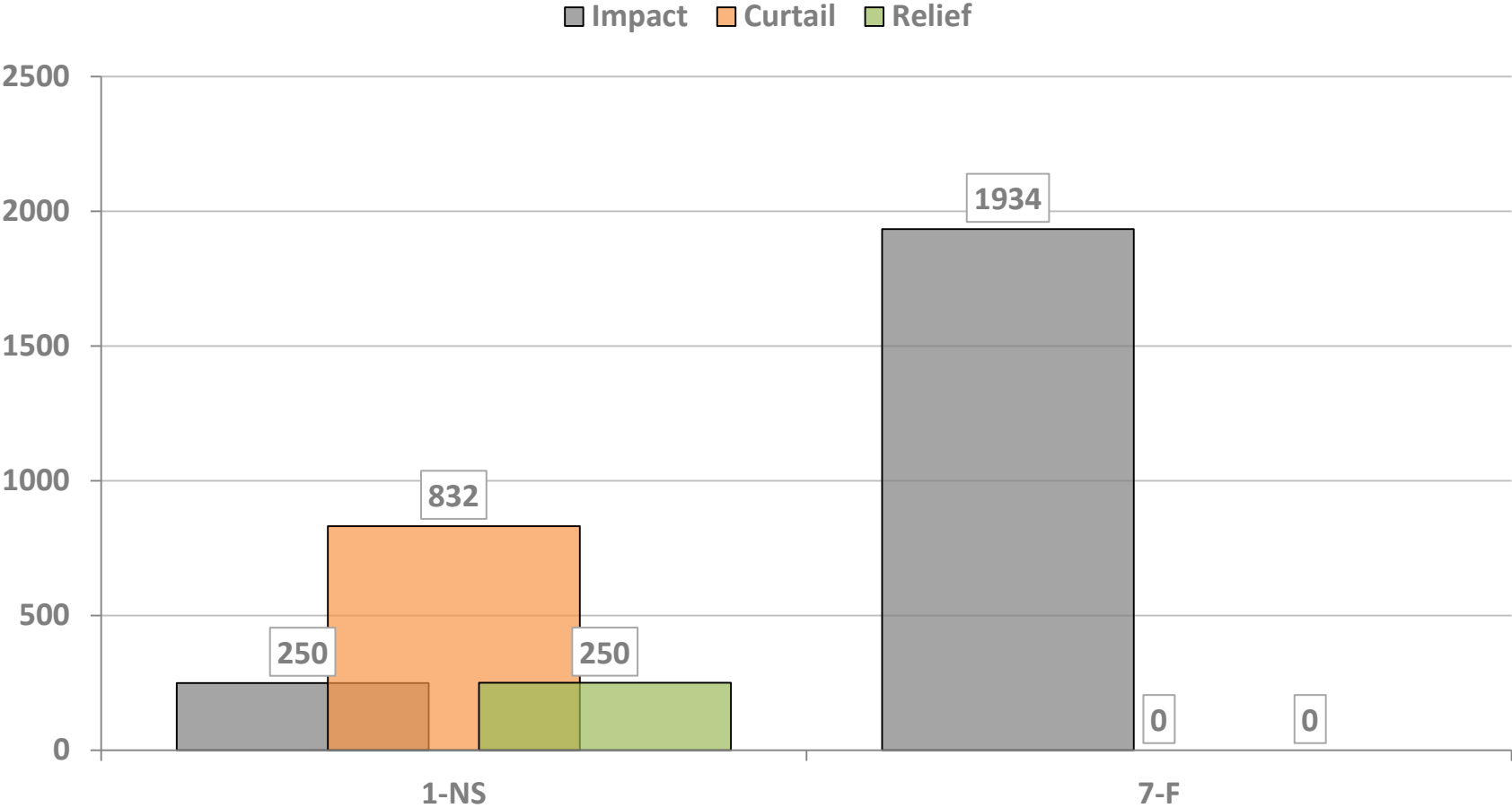
- Bypassed the Schultz-Raver 1 500kV line series capacitors for load control at 0959.
 - The series capacitors remained bypassed until February 25th at 0618.
- Stop Transmission Sales (TLR Avoidance)
 - Firm and NF HE11-22
 - Firm and NF HE11-20 on 2/23/19
- No Redispatch

Curtailments

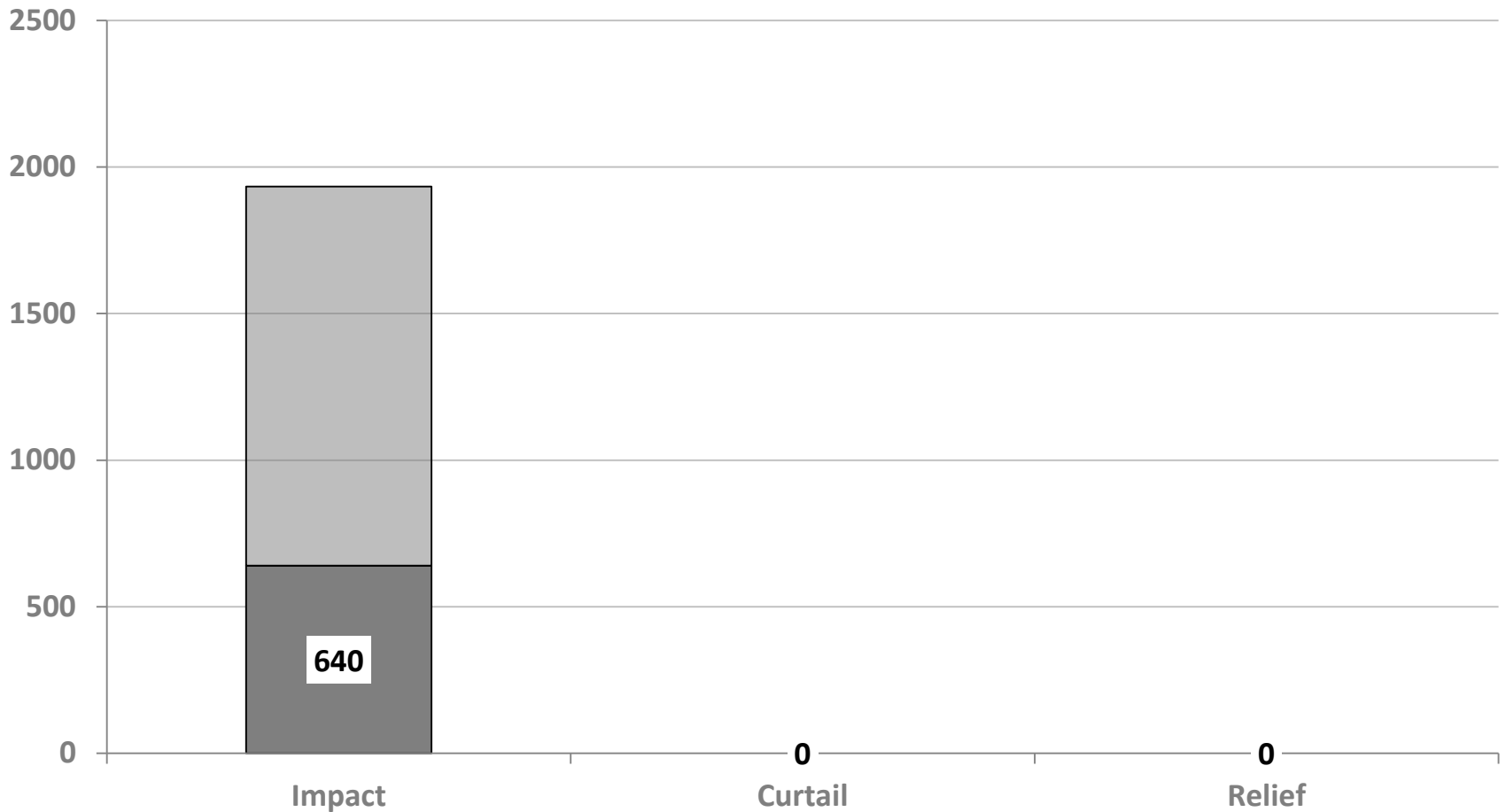
- 1 curtailment across 1 15-minute intervals
- Focus on iCRS38173

Event ID	Curtailment Implementation Date	Curtailment Start	Curtailment Stop
[iCRS38173]	02/22/2019 09:43:30.869PST	02/22/2019 09:45:00	2/22/19 10:00

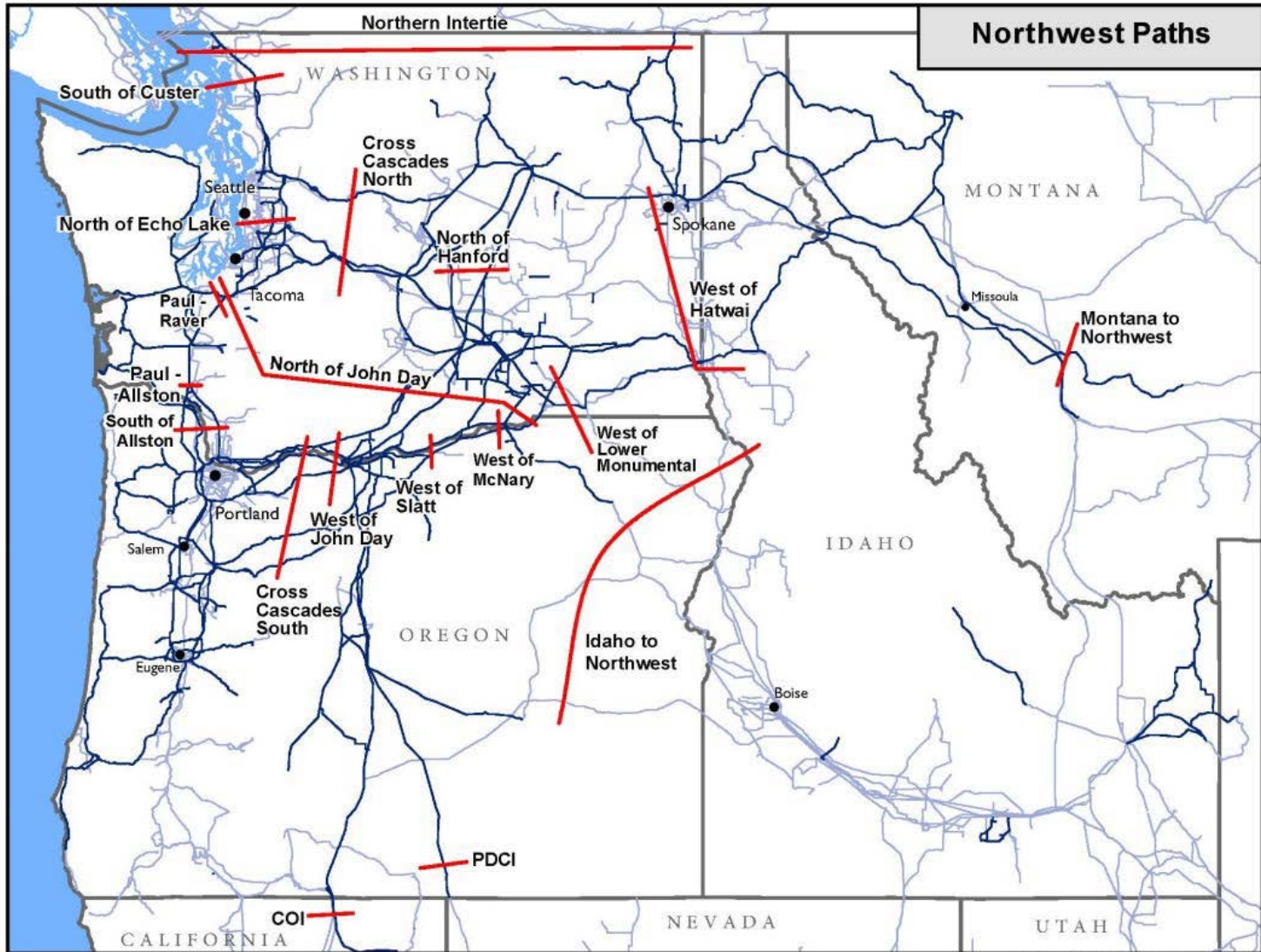
Curtailment Tag Evaluation by Product



Hourly Firm PTP Curtailment Evaluation



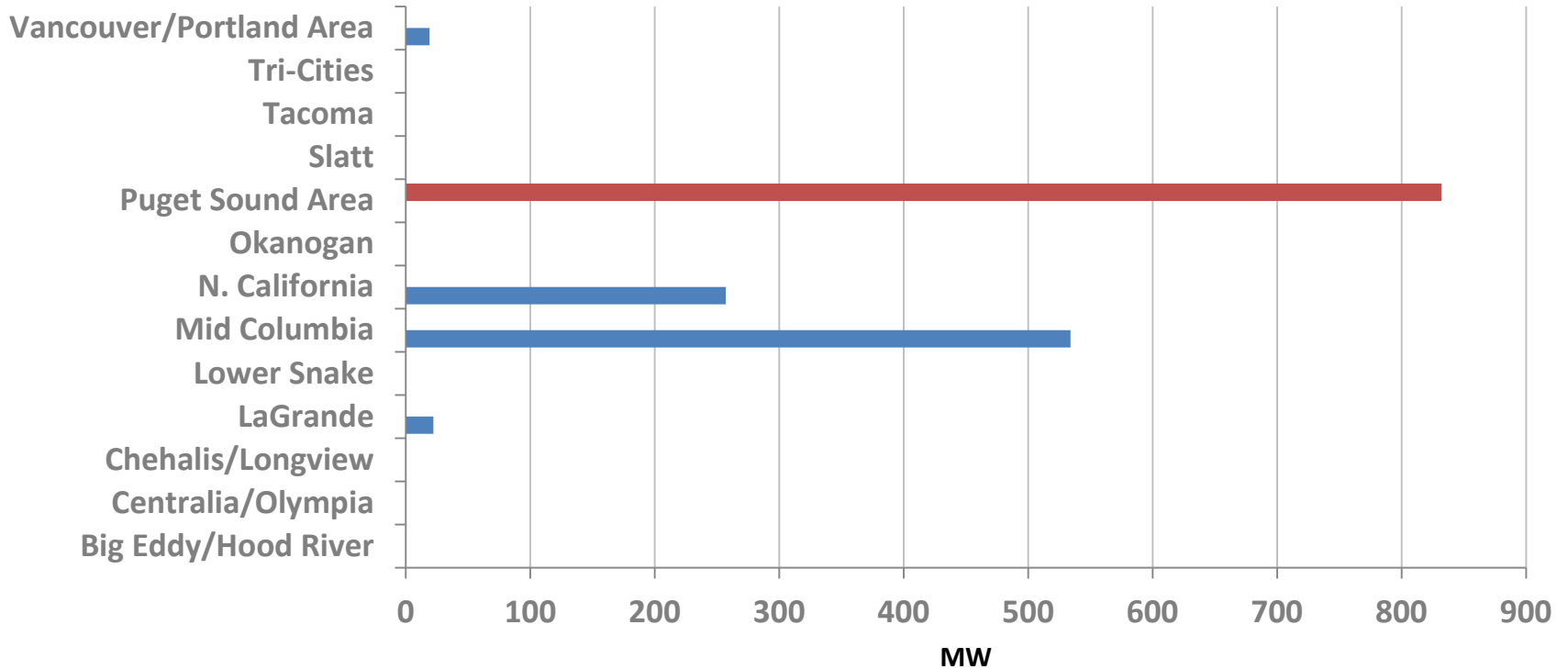
Flowgates



Region Curtailment (No Hourly Firm)

PTP Secondary Cut

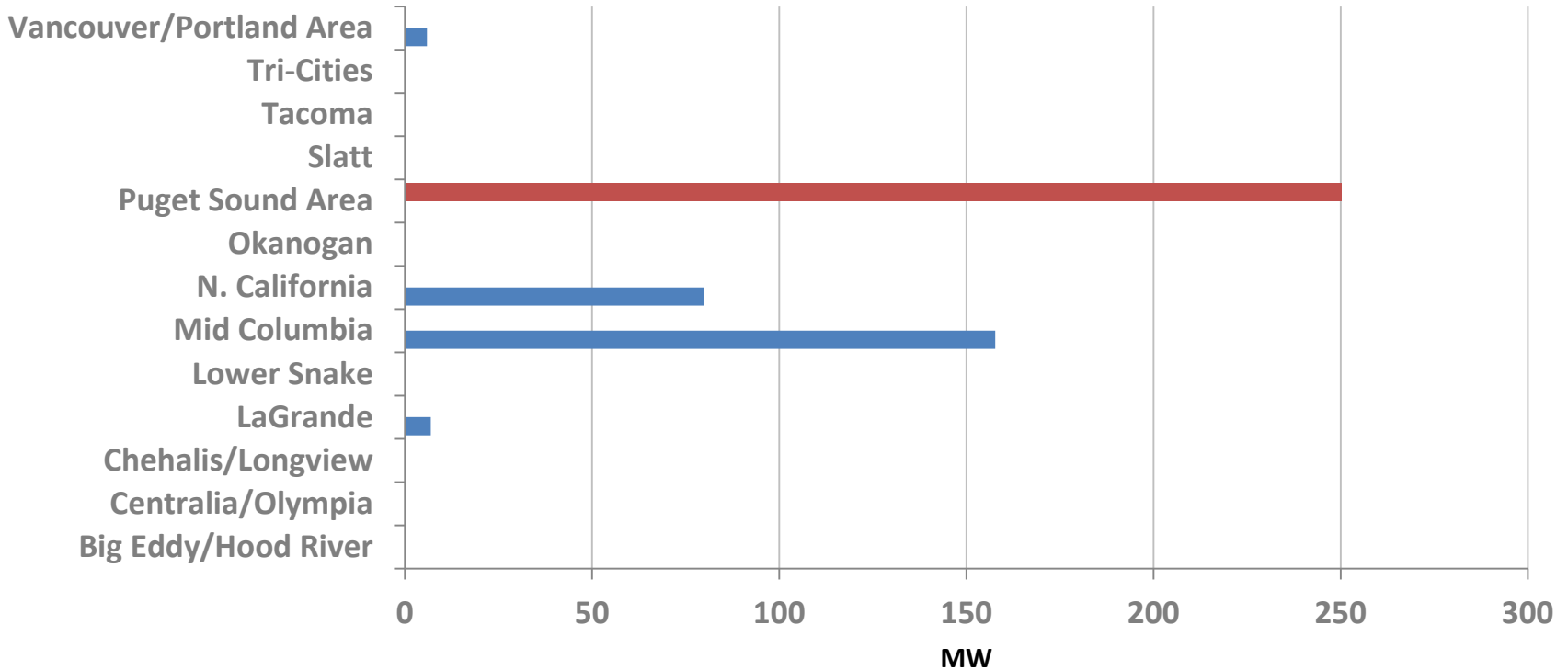
POD POR



Region Relief (No Hourly Firm)

PTP Secondary Relief

POD POR



Monitoring Data

Establish on a series of reports and raw data that would be generated to meet the TC-20 Settlement.

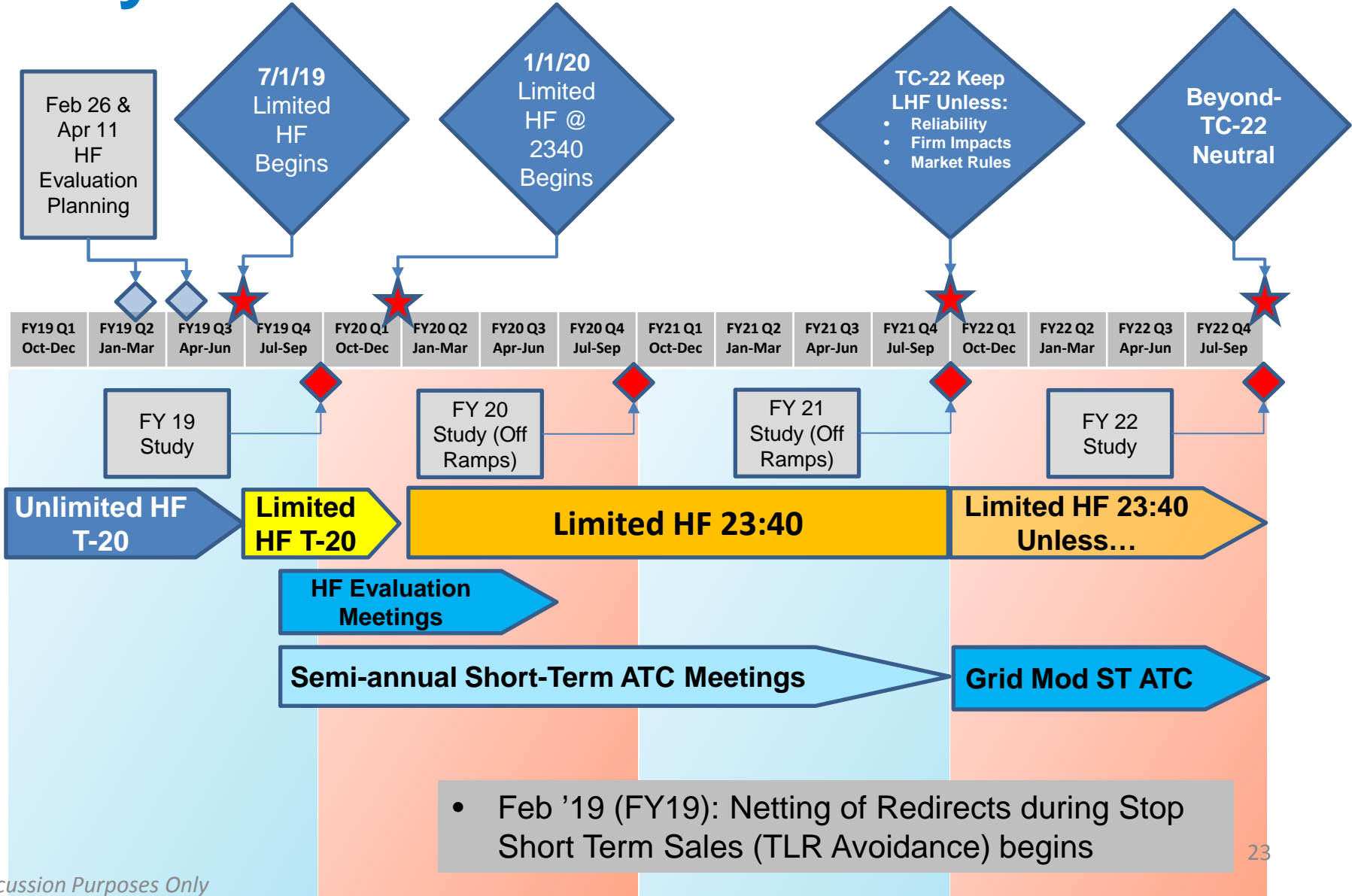
Generate monthly reports and append them to the running reports.

Post the updated and generated reports on a monthly basis on BPA's external website:

<https://www.bpa.gov/transmission/CustomerInvolvement/TC20Implementation/Pages/Meetings.aspx>

NEXT STEPS

Hourly Firm & Short-Term ATC Timeline



Draft Evaluation Schedule

HOURLY FIRM PROPOSED CUSTOMER ENGAGEMENT SCHEDULE		
DATE	ENGAGEMENT TYPE	PURPOSE
4/11	Customer Workshop (RHR) - 3 hours	Tell the data story behind the Events - validate the data and depictions with Customers
4/16	Customer Webinar - 2 hours	Customers provide feedback from 4/11
4/24	Customer Webinar - 2 hours	BPA presents updated material based on 4/16 feedback
5/6	Customer Workshop (RHR) - 3 hours	BPA presents 1st draft of Monitoring & Evaluation Plan
5/17	Customer Webinar - 2 hours	Customers provide feedback on the Plan
6/13	TC-20 Customer Workshop (RHR)	BPA presents updated Monitoring & Evaluation Plan
6/13 - 7/11	Customer Comment Period	All customer comments due
7/17	Tech Forum Posting	Final Monitoring & Evaluation Plan shared

Evaluation Results Workshops will be scheduled for September '19, March '20, June '20

Proposed Calendar & Next Steps

- Next meeting:

Workshop: Monday, May 6, 2019

- BPA has posted an aggregate calendar on its web site at:

<https://www.bpa.gov/transmission/CustomerInvolvement/Pages/default.aspx>