

Purpose of the Integrated Resource Plan

The primary purpose of Cascade's long-term resource planning process has been, and continues to be, to inform and guide the Company's resource acquisition processes, consistent with the rule (WAC 480-90-238). Input and feedback from the Company's Technical Advisory Group (TAG) will continue to be an important resource to help ensure Cascade's IRP is developed from a broader perspective than Cascade could have on its own.

Outline of IRP Content:

The following is an outline of the Company's 2020 IRP plan. Organizational structure of the final IRP may be revised based on results of analysis and feedback received through the planning process.

- I. Executive Summary
- II. Company Overview
- III. Demand Forecast
- IV. Supply Side Resources
- V. Environmental Considerations
- VI. Avoided Costs
- VII. Demand Side Management
- VIII. Resource Integration
- IX. Distribution System Planning
- X. Stakeholder Engagement
- XI. Two-year Action Plan
- XII. Glossary and Maps
- XIII. Appendices

2020 IRP Timeline

The following is Cascade's tentative 2020 IRP timeline:

- Develop Demand Forecast: December 2019 through February 2020
- Distribution System Planning Analysis: January through April 2020
- Gas Supply Analysis: February through May 2020
- Integration of Supply and Energy Efficiency Resources: February through July 2020
- Public Process: Technical Advisory Group Meetings
 - TAG 1: Process, Key Points, IRP Team, Timeline, Regional Market Outlook, Plan for dealing with issues raised in the 2018 IRP. (December 2019)
 - TAG 2: Demand and Customer Forecast and Non-Core Outlook, Drilling down into segments of demand forecast. Upstream Pipeline presentation. (February 2020)
 - TAG 3: Distribution System Planning, Planned Scenarios and Sensitivities, Alternative Resources, Price Forecast, Avoided Costs, Current Supply Resources, Transport Issues. (April 2020)
 - TAG 4: Carbon Impacts, Energy Efficiency, Bio-Natural Gas, Preliminary Resource Integration Results. (May 2020)
 - TAG 5: Final Integration Results, finalization of plan components, Proposed new 4-year Action Plan. (July 2020)
- File Draft 2020 IRP: (September 2020)
- Comments due on draft (October 2020)
- TAG 6 (if needed) (November 2020)
- Final 2020 IRP Filed: on or before December 14, 2020

Planning Assumptions

Information needed to perform analysis will be gathered and input assumptions developed throughout the first eight months of 2020. This will include detailed definitions of alternative scenarios and all primary input assumptions for demand forecasting and resource modeling. Additional planning information will be assimilated into the analytical process and planning information that is not incorporated into the modeling process will continue to be assessed.

2020 IRP improvements

In the 2018 IRP acknowledgment letter, the WUTC Commission noted six observations where they would like to see improvements in the 2020 IRP.

- Validation of methods
- Greenhouse gas emissions
- Modeling of significant emergency events
- Clarify distribution system planning priorities
- Continue to monitor renewable natural gas opportunities
- Public Participation

The Company looks forward to working through these improvements with Commission Staff throughout the 2020 IRP.

Date (Subject to change)	State	Process Element	Responsible Party	Location (Subject to change)	Notes
Tuesday, December 31, 2019	WA	TAG 1 slides distributed to stakeholders	RPT		
Tuesday, January 7, 2020	WA	TAG 1: Process, Key Points, IRP Team, Timeline, Regional Market Outlook, Plan for dealing with issues raised in the 2018 IRP	RPT	SeaTac Airport - 9 am to 12 pm	
Wednesday, January 29, 2020	WA	TAG 2 slides distributed to stakeholders	RPT		
Wednesday, February 5, 2020	WA	TAG 2: Demand and Customer Forecast and Non-Core Outlook, Drilling down into segments of demand forecast. Upstream Pipeline presentation.	RPT, GTN/NWP	SeaTac Airport - 9 am to 12 pm	
Wednesday, March 25, 2020	WA	TAG 3 slides distributed to stakeholders	RPT		
Wednesday, April 15, 2020	WA	TAG 3: Distribution System Planning, Planned Scenarios and Sensitivities, Alternative Resources, Price Forecast, Avoided Costs, Current Supply Resources, Transport Issues.	RPT/Linda/Eric W	SeaTac Airport - 9 am to 12 pm	
Wednesday, May 20, 2020	WA	TAG 4 slides distributed to stakeholders	RPT		
Wednesday, May 27, 2020	WA	TAG 4 Carbon Impacts, Energy Efficiency, Bio-Natural Gas, Preliminary Resource Integration Results.	RPT/Energy Efficiency Team/Chris R/Abbie	Community Service Room in Bellingham, WA - 9 am to 3 pm	
Wednesday, July 8, 2020	WA	TAG 5 slides distributed to stakeholders	RPT		
Wednesday, July 15, 2020	WA	TAG 5: Final Integration Results, finalization of plan components, Proposed new 4-year Action Plan.	RPT	SeaTac Airport - 9 am to 12 pm	
Thursday, September 10, 2020	WA	Draft of 2020 WA IRP distributed	RPT		
Friday, October 16, 2020	WA	Comments due on draft from all stakeholders	RPT		
Wednesday, November 18, 2020	WA	TAG 6, if needed	RPT/Other Parties	WebEx Only	
Monday, December 14, 2020	WA	IRP filing in Washington	RPT		