

ITP Evaluation Process Plan

Western Bounty Transmission System

The information that follows is specific to the ITP listed in the ITP Submittal Summary below. An ITP Evaluation Process Plan is developed for each

ITP that has been properly submitted and accepted into the regional process of the Planning Regions to which it was submitted. ITP project sponsors will be provided an opportunity to review this evaluation process plan before it is finalized by the relevant planning regions who developed this evaluation process plan. Once finalized, the Western Planning Regions will post this evaluation process plan on their public websites.

ITP SUBMITTAL SUMMARY

Project Submitted To:	California ISO, NorthernGrid, and WestConnect
Relevant Planning Regions ¹ :	California ISO, NorthernGrid, and WestConnect
Cost Allocation Requested From:	N/A

The Relevant Planning Regions identified above developed and have agreed to the ITP Evaluation Process Plan.

ITP SUMMARY

Gallatin Power submitted the Western Bounty Transmission System for consideration as an Interregional Transmission Project. The Western Bounty Transmission System has substations in NorthernGrid, WestConnect, and the CAISO. The Western Bounty Transmission System is a proposed 3,000 MW HVDC project. Segment 1, as depicted in Figure 2: Western Bounty Transmission System, is comprised of two HVDC circuits which connect a new Aruiga substation, adjacent to the proposed NV Energy Esmerelda substation (NorthernGrid), to a new substation, Orion, along SCE's Lugo-Vincent 500 kV line (CAISO) and to a new substation, Slater, that interconnects to LADWP's Adelanto substation

¹ With respect to an ITP, a Relevant Planning Region is a Planning Region that would directly interconnect electrically with the ITP, unless and until a Relevant Planning Region determines that the ITP will not meet any of its regional transmission needs, at which time it will no longer be considered a Relevant Planning Region.

(WestConnect). Segment 2 is located within the NorthernGrid footprint and connects Aruiga to the existing Grizzly substation through a new substation, Ursa Major. Segment 3 is also entirely located within NorthernGrid and connects Aruiga to the existing Hemingway substation through a new substation, Ursa Minor. The proposed in-service date is 2033. The high-level, non-binding estimate of the project cost for the Western Bounty Project, as provided in their ITP Submittal form, is \$12B.

Figure 1: Proposed schedule for Western Bounty





Figure 2: Western Bounty Transmission System

ITP EVALUATION BY RELEVANT PLANNING REGIONS

NorthernGrid is the Planning Region that will lead the coordination among the Relevant Planning Regions involved in this evaluation process. In this capacity, NorthernGrid will organize and facilitate interregional coordination meetings related to this ITP and document meeting action items and outcomes. For information regarding each Relevant Planning Region's ITP evaluation process, please contact that Planning Region directly.

The following is a summary of each Relevant Planning Region's evaluation process that will be followed to assess the ITP in its regional planning process. Please refer to each Planning Region's current study

plan and/or Business Practice Manual for more details regarding its regional transmission planning process.

NorthernGrid

The NorthernGrid Regional Transmission Plan evaluates whether transmission needs within the NorthernGrid region may be satisfied on a regional and/or interregional basis. While the NorthernGrid Regional Transmission Plan is not a construction plan, it provides valuable regional insight and information for all stakeholders, including developers, to consider and use in their respective decision-making processes.

The first step in developing NorthernGrid's 2024-2025 Regional Transmission Plan is to identify the Baseline Projects of Enrolled Parties. The Baseline projects are those that have been submitted into NorthernGrid for Regional consideration from the Enrolled Parties or Non-Enrolled Developers. NorthernGrid then evaluates combinations of the Baseline Projects to determine the set of projects that best meets the reliability needs of NorthernGrid in a 10-year future in a cost-effective fashion.

Power flow and production cost modeling techniques are used to determine if the modeled transmission system topology meets the system reliability performance requirements and transmission needs. The regional combination that addresses the reliability concerns in the most effective fashion will be selected into NorthernGrid's Regional Transmission Plan. A more detailed discussion of NorthernGrid's study process can be found in NorthernGrid's Biennial Study Plan posted on NorthernGrid's website.

WestConnect

WestConnect's 2024-25 Regional Study Plan was approved by its Planning Management Committee (PMC) in March of 2024. The study plan describes the system assessments WestConnect will use to determine if there are any regional reliability, economic, or public policy-driven transmission needs. The models for these assessments are built and vetted during Q2 and Q3 of 2024. If regional needs are identified during Q4 of 2024, WestConnect will solicit alternatives (transmission or non-transmission alternatives (NTAs)) from WestConnect members and stakeholders to determine if they have the potential to meet the identified regional needs. If an ITP proponent desires to have their project evaluated as a solution to any identified regional need, they must re-submit their project during this solicitation period (Q5) and complete any outstanding submittal requirements. In late-Q5 and Q6 of the 2024-25 planning cycle, WestConnect will evaluate all properly submitted alternatives to determine whether any meet the identified regional needs, and will determine which alternatives provide the more efficient or costeffective solution. The more efficient or cost-effective regional projects will be selected and identified in the WestConnect Regional Transmission Plan. Any regional or interregional alternatives that were submitted for the purposes of cost allocation and selected into the Regional Transmission Plan as the more efficient or cost-effective alternative to an identified regional need will then be evaluated for eligibility for regional cost allocation, and subsequently, for interregional cost allocation.³

WestConnect regional needs assessments are performed using Base Cases as identified in the regional study plan. Base Cases are intended to represent "business as usual," "current trends," or the "expected future". WestConnect may also conduct information-only scenario studies that look at alternate but plausible futures. In the event regional transmission issues are observed in the assessments of the scenario studies, these issues do not constitute a "regional need", will not result in changes to the

² https://doc.westconnect.com/Documents.aspx?NID=21108&dl=1

³ Please see the WestConnect Business Practice Manual for more information on cost allocation eligibility.

WestConnect Regional Transmission Plan and will not result in Order 1000 regional cost allocation. The WestConnect PMC has ultimate authority to determine how to treat regional transmission issues that are identified in the information-only scenario studies. They will determine whether an issue identified in a scenario —whether it be reliability, economic, or public-policy based—constitutes additional investigation by the Planning Subcommittee.

Gallatin Power representatives and other stakeholders are encouraged to participate in the development of the Base Cases to be studied in WestConnect's 2024-25 Planning Cycle. These studies, as outlined in Figure 2, will form the basis for any regional needs that ultimately may lead to ITP project evaluations in 2025. Stakeholders are also encouraged to participate in the development of the scenarios identified in WestConnect's 2024-25 Study Plan.

Table 1: WestConnect 2024-25 Transmission Assessment Summary

10-Year Base Cases (2034)	Scenario Studies	
Heavy Summer Power Flow (reliability) Light Spring Power Flow (reliability) Production Cost Model Base Case (economic)	10-Year Decreased Facility Rating Study (2034, reliability) 10-Year Extreme Cold Weather Study (2034, reliability) 20-Year Increased Renewable Study (2044, reliability, economic)	
May result in the identification of regional needs, requires solicitation for alternatives to satisfy identified needs	Informational studies that will not result in the identification of regional needs. Alternative collection and evaluation is optional and is not subject to regional cost allocation	

California Independent System Operator

The draft study plan for the 2024-2025 Transmission Planning Process was posted on the CAISO website on February 24th, 2024⁴. The final study plan will be posted sometime in Spring 2024. The study plan details the load, resources, interchange levels and other modelling assumptions and methodologies for the required studies to identify any need for reliability, economic, or policy-driven transmission projects. The CAISO has collaboratively worked with the California Public Utilities Commission (CPUC) and the California Energy Commission (CEC) to align the planning assumptions between the CAISO's TPP and the CPUC's Integrated Resource Plan (IRP) process, as well as the demand forecast assumptions embodied in the 2023 IEPR adopted by the CEC on February 14th, 2024. Please refer to the Memorandum of Understanding (MOU) between the state agencies and the CAISO, posted on the CAISO website, which reflects the collaboration, engagement and roles and responsibilities of these entities in California. ⁵

Gallatin Power has submitted the Western Bounty project as an ITP to CAISO for consideration in its transmission planning process (TPP) during the submission window for the 2024-2025 TPP, which closed on March 31, 2024. The CAISO will study this project along with all other ITP submissions to (a)

⁴ Draft-Study-Plan-2024-2025-Transmission-Planning-Process.pdf (caiso.com)

⁵ https://www.caiso.com/Documents/ISO-CEC-and-CPUC-Memorandum-of-Understanding-Dec-2022.pdf

determine alignment with CPUC provided resource portfolios for the TPP process as the CAISO is required to plan transmission solutions that enable the integration of resource portfolios provided by the CPUC and (b) determine if the ITP submission is more efficient or cost-effective solution to meet a CAISO-identified regional need than any identified regional solution and that can be constructed and operational in the same timeframe as the regional solution.

The power flow and production cost model datasets used in CAISO studies are posted on the CAISO's Market Participant Portal. The California ISO will coordinate its studies with NorthernGrid and WestConnect and will exchange modeling information commensurate with existing data confidentiality requirements.

DATA AND STUDY METHODOLOGIES

The coordinated ITP evaluation process strives for consistent planning assumptions and technical data among the Planning Regions evaluating the ITP. Below, the Relevant Planning Regions have summarized the types of studies that will be conducted that are relevant to the Western Bounty Project evaluation in each Planning Region. Methodologies for coordinating planning assumptions across the Relevant Planning Region processes are also described.

Table 2: Evaluation Matrix

Planning Study	NorthernGrid	WestConnect	CAISO
Economic/Productio n Cost Model	PCM will be used to influence the reliability base cases. NorthernGrid will use the 2034 Anchor Data Set with GridView software.	A Regional Economic Needs Assessment will be performed on the WestConnect 2034 Production Cost Model (PCM) Base Case (based on the WestConnect 2032 PCM Base Case and information from the WECC 2034 Anchor Dataset ⁶	Using the California ISO PCM Base Case, based on the WECC 2034 Anchor Data Set (ADS), GridView will be used to perform production cost simulation. All model information will be shared with the planning regions.

⁶ WestConnect ITP Project evaluation is subject to a number of factors, the first and most critical being the identification of regional needs as a part of the 2024-25 Base Case transmission needs assessments.

Reliability/Po wer Flow Assessment	The study scope is being developed. NorthernGrid plans to use approved 2034 WECC base cases.	A Regional Reliability Needs Assessment will be performed on WestConnect 2034 Heavy Summer and Light Spring cases, which are based off the WECC 2034 HS1 and 2034 LSP1S base cases 7	If needed, the GE PSLF will be used to perform steady state and as needed, transient stability analysis. The WECC 2034 ADS and relevant WECC power flow cases will be modified as needed to accurately model the California network and resources that reflects the ISO's finalized 2024-2025 study plan. All model information will be shared with the planning regions.
--	--	--	---

Data Coordination

The Planning Regions will strive to coordinate major planning assumptions through the following procedures.

Economic/Production Cost Model

The Planning Regions intend to use the WECC 2034 Anchor Data Set (ADS) as an input into their regional economic planning studies conducted in 2024 and 2025 (as applicable). Each Planning Region intends to update the 2034 ADS with their most recent and relevant regional planning assumptions to reflects its starting point transmission topology and generation data. The Planning Regions will strive to coordinate major updates made to the 2034 ADS as part of their regional model development efforts in late Q3, 2024.

As an example, the California ISO will update the 2034 ADS to reflect their recently completed 2023-2024 Transmission Plan. NorthernGrid will ensure that its prior Regional Transmission Plan⁹ is reflected, and WestConnect members will represent their local transmission plans for 2034. ¹⁰

Through this coordination of planning data and assumptions, the Relevant Regions will strive to build a consistent platform of planning assumptions for Economic/Production Cost Model evaluations of the ITP.

⁷ Id

⁸ For WestConnect, this update occurs when the WestConnect member Transmission Owners provide their local transmission plans for 2034 to WECC for inclusion in the WECC 2034 Heavy Summer power flow base case, which is used as a starting point for the WECC 2034 ADS.

⁹ NorthernGrid 2022-2023 Regional Transmission Plan

¹⁰ WestConnect 2024-2025 Base Transmission Plan

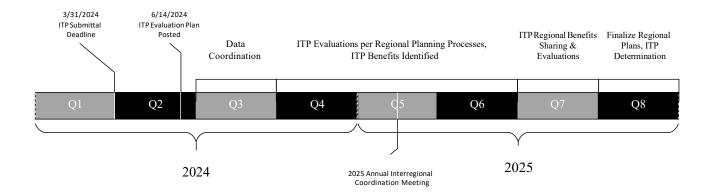
Reliability/Power Flow Assessment

Since each Planning Region reflects characteristics and a planning focus that is unique, different power flow models are generally needed to appropriately reflect each region's system and key assumptions. As such, each Planning Region will develop its models and data that accurately reflect their Planning Region, but will seek to coordinate this information with the other Relevant Planning Regions subject to applicable confidentiality requirements. The identification of the starting WECC power flow cases ("seed cases" for the purpose of this evaluation plan), and significant assumptions or changes a Planning Region may make to a seed base case are examples of information that will be considered by each Planning Region and coordinated with the other Planning Regions. As such, the inclusion or removal of major regional transmission projects will be coordinated through existing data coordination processes, but the season or hour of study and particular system operating conditions may vary by Planning Region based on its individual regional planning scope and study plan.

SCHEDULE AND EVALUATION MILESTONES

The ITP will be evaluated in accordance with each Relevant Planning Region's regional transmission planning process during 2024 and 2025 cycle. The ITP Evaluation Timeline was created to identify and coordinate key milestones within each Relevant Planning Region's process. Note that in some instances, an individual Planning Region may achieve a milestone earlier than other Regions evaluating the ITP.

Figure 3: Evaluation Timeline



Meetings among the Relevant Planning Regions will be coordinated and organized by the lead Planning Region per this schedule at key milestones such as during the initial phases of the ITP evaluations and during the sharing of ITP regional benefits.

CONTACT INFORMATION

For information regarding the ITP evaluation within each Relevant Planning Region's planning process, please contact that Planning Region directly.

Planning Region: NorthernGrid
Name: Chelsea Loomis
Telephone: (503) 445-1082

Email: Chelsea.Loomis@westernpowerpool.org

Planning Region: WestConnect
Name: Heidi Pacini
Telephone: (303) 229-9401

Email: heidi@pacenergies.com

Planning Region: CAISO
Name: Biju Gopi

Telephone: (916) 351-4424 Email: BGopi@caiso.com