



ITCS

Interregional Transfer Capability Study

Strengthening Reliability Through the Energy Transformation April 2025

A strong, flexible transmission system capable of coping with a wide variety of system conditions is key to the reliable supply and delivery of electricity. NERC conducted the [Interregional Transfer Capability Study](#) (ITCS) to analyze the amount of power that can be moved or transferred reliably between areas of the interconnected transmission system. As directed in the [Fiscal Responsibility Act of 2023](#), the ITCS also recommended prudent additions to this transfer capability. The ITCS report was [filed](#) with the Federal Energy Regulatory Commission on November 19, 2024. A [Report Summary](#) and a [video](#) were developed as part of NERC's ongoing efforts to keep industry and federal, state, and provincial partners informed and engaged with the ITCS. Additionally, [interactive visual aids](#) are available on NERC's website to enable stakeholders to explore detailed ITCS results by transfer capability, regional area results, and findings through the lens of extreme weather

2025 First Quarter Update: Canadian Analysis

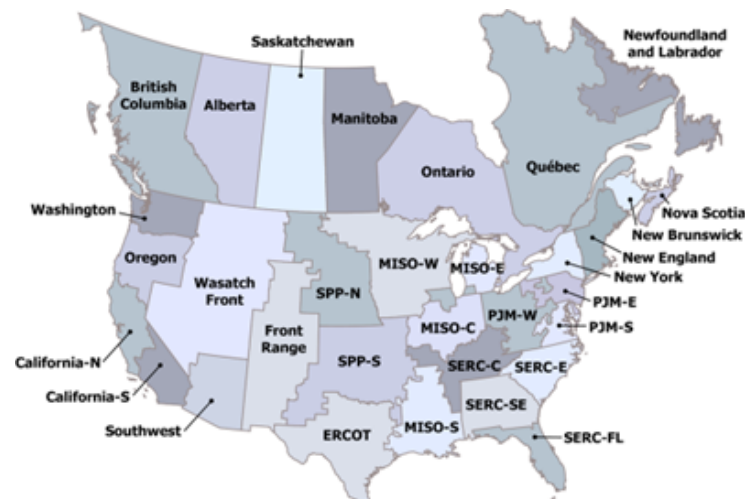
Recognizing that Canadian systems play a crucial role in the interconnected North American bulk power system, NERC conducted an analysis of transfer capability and energy margin to evaluate the reliability benefits of enhancing cross-border and cross-provincial transmission between the United States and Canada. This analysis complements NERC's Interregional Transfer Capability Study (ITCS) published last year.

Previous NERC assessments have identified the need for more transmission, as well as a strategically planned resource mix, to address the ongoing electrification of the economy including the growing transportation sector, industrial loads, and data centers. More frequent extreme weather events further compound the challenge. These factors emphasize the importance of adequate and informed planning at a broad interregional level to support future grid reliability. A common approach, consistent assumptions, and coordinated results, were key elements of the Canadian Analysis.

Key Activities

Because transfer capability is a critical measure of the ability to address energy deficiencies by relying on distant resources and a key component of a reliable and secure bulk power system, the project team completed efforts to identify transfer capabilities from the United States to Canada and between Canadian provinces. The team also recently completed the energy margin analysis and identified transmission limitations that contributed to potential energy inadequacy.

A Canadian Analysis Advisory Group meeting took place in Toronto on April 9 to review and discuss the study findings. These findings, along with a video, report summary, and an interactive visual aid, will be published on April 29.



Resources

More information about the study, including project timelines, updated [FAQs](#), quarterly updates, scoping and framework documents, [project team](#) information, and upcoming meetings, is available on NERC's [ITCS web page](#). Information can also be found on the Regional Entity websites:

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