NEW YORK STATE | NYSERDA
New York State Energy Research and Development Authority

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CGPP BULK NEEDS EVALUATION

EPPAC Initial Discussion

June 2, 2025

Overview

NYSERDA has engaged Quanta to support the bulk needs evaluation for the first cycle of CGPP.

Quanta's scope of work is currently focused on two parallel efforts:

1. Identify a reasonable upper bound on the expandability of the bulk system across major interfaces
2. Develop conceptual bulk solutions for further assessment and potential inclusion in the Stage 5 Least Cost Planning Assessment

Expandability Analysis

Objective: Assess the potential expandability of the existing transmission system to increase bulk interface limits

Scope: Perform transfer limit and steady-state voltage stability analyses to identify maximum theoretical interface limits within existing rights-of-way while employing plausible mitigation measures, including but not limited to:

- Uprating / converting existing transmission facilities to higher voltage levels
- Utilizing advanced transmission technologies
- Adjusting flows using power flow control devices
- Replacing single-circuit lines with multi-circuit towers within the same ROW
- Splitting double-circuits to eliminate shared tower contingencies
- Adding dynamic voltage support at key locations

Development of Conceptual Bulk Solutions

The following sources of information are being considered for the development of conceptual bulk solutions:

- CGPP Stage 1 capacity expansion results
- Feedback submitted by EPPAC representatives
- Submissions to the NYISO's 2024 Solicitation for Transmission Needs Driven by Public Policy Requirements
- Results from recent studies (*e.g.*, 2023-2042 Outlook)
- Recent transmission congestion patterns
- Bulk system expandability analysis

Next Steps

As required by the *Order Approving a Coordinated Grid Planning Process*, **conceptual bulk solutions will be reviewed with EPPAC at future meetings**.

- Solutions may be refined based on EPPAC's feedback
- Production-cost simulations are intended to be utilized to assess conceptual bulk solutions

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