

GrandBridge Energy

DER Hosting Capacity Calculation Methodology

1. Overview

This document outlines how GrandBridge Energy determines available feeder capacity for DER connections, aligning with the OEB CCIM, and ensuring safe, reliable integration and system integrity.

2. Methodology

Step 1: Inventory of Existing Generation

GBE maintains a comprehensive inventory of all generation connected to each feeder, including:

- Nameplate rating
- Generation type
- Feeder connection point

Step 2: Generation Limits

Thermal Feeder Limit

- 50% of feeder thermal capacity

Thermal Station Limit

- 50% of transformer MVA nameplate rating

Small Generation (≤ 12 kW)

No restrictions apply.

Step 3: Existing Utilization

- Total connected generation (feeder)
- Total station-connected generation (station)

Step 4: Remaining Capacity

Available Capacity = Applicable Limit – Existing Connected Generation

The lowest remaining value across feeder and station constraints defines the available hosting capacity.

Step 5: Upstream Constraints

Final available capacity is the lower of:

- GBE-calculated feeder/station capacity
- Upstream system limitations