

GE MAPS Output Report Framework

(for the year 2030)

1. **By EI NEEM region by Capacity Type**
 - a. Capacity in Service (GW)
 - b. Annual Generation (GWh)
 - i. Hourly also provided, including DR units
 - c. Annual Fuel Costs
 - d. Annual Wind Curtailment
 - e. Annual Variable O&M Costs
 - f. Annual Fuel Use
 - g. Annual Emissions
 - i. SO₂
 - ii. NO_x
 - iii. CO₂
 - h. Emissions Costs
 - i. SO₂
 - ii. NO_x
 - iii. CO₂
2. Annual Energy Demand by EI NEEM region
 - a. Hourly demand by load area (input)
3. Annual Energy Flows (GWh) between EI NEEM regions
 - a. Separately by AC and DC ties
 - i. Importing Hours
 1. Annual Hours
 2. Annual Flow
 - ii. Exporting Hours
 1. Annual Hours
 2. Annual Flow
 - iii. Total Net Annual Flow
 - iv. Hourly flows between NEEM regions
4. By Flowgate:
 - a. MW Limit
 - i. Forward direction
 - ii. Reverse direction
 - b. Annual Hours Binding
 - i. Forward direction
 - ii. Reverse direction
 - c. Average Shadow Price when Binding
 - i. Forward direction
 - ii. Reverse direction
 - d. Hourly flow and shadow price

5. For the six new DC lines in Scenario 1 (if possible within GE MAPS reporting limits)
 - a. MW Limit
 - b. Annual Hours Binding
 - c. Average shadow price when binding
 - d. Annual Energy Flow
 - e. Hourly Flow