## For 2017, annual emissions factors used in REED are:

- ISO-NE:
  - o CO2 = 682 lbs/MWh
  - $\circ$  NOx = 0.3 lbs/MWh
  - o SO2 = 0.08 lbs/MWh
- NY-ISO:
  - CO2 = 479 lbs/MWh
  - $\circ$  NOx = 0.195 lbs/MWh
  - SO2 = 0.082 lbs/MWh
- PJM:
  - o CO2 = 948 lbs/MWh
  - $\circ$  NOx = 0.66 lbs/MWh
  - o SO2 = 0.79 lbs/MWh

## For 2016, annual emissions factors used in REED are:

- ISO-NE:
  - o CO2 = 710 lbs/MWh
  - $\circ$  NOx = 0.31 lbs/MWh
  - SO2 = 0.08 lbs/MWh
- NY-ISO:
  - o CO2 = 479 lbs/MWh
  - $\circ$  NOx = 0.195 lbs/MWh
  - o SO2 = 0.082 lbs/MWh
- PJM:
  - o CO2 = 992 lbs/MWh
  - $\circ$  NOx = 0.75 lbs/MWh
  - SO2 = 1.32 lbs/MWh

#### For 2015, annual emissions factors used in REED are:

- ISO-NE:
  - o CO2 = 747 lbs/MWh
  - $\circ$  NOx = 0.35 lbs/MWh
  - o SO2 = 0.17 lbs/MWh
- NY-ISO:
  - o CO2 = 487 lbs/MWh
  - $\circ$  NOx = 0.32 lbs/MWh
  - o SO2 = 0.12 lbs/MWh
- PJM:
  - o CO2 = 1,014 lbs/MWh
  - $\circ$  NOx = 0.78 lbs/MWh
  - SO2 = 1.61 lbs/MWh

#### For 2014, annual emissions factors used in REED are:

- ISO-NE:
  - o CO2 = 726 lbs/MWh
  - $\circ$  NOx = 0.38 lbs/MWh
  - o SO2 = 0.22 lbs/MWh

- NY-ISO:
  - o CO2 = 512.4 lbs/MWh
  - $\circ$  NOx = 0.33 lbs/MWh
  - SO2 = 0.25 lbs/MWh
- PJM:
  - o CO2 = 1,108 lbs/MWh
  - $\circ$  NOx = 0.90 lbs/MWh
  - o SO2 = 2.22 lbs/MWh

# For 2013, annual emissions factors used in REED are:

- ISO-NE:
  - o CO2 = 730 lbs/MWh
  - $\circ$  NOx = 0.36 lbs/MWh
  - o SO2 = 0.32 lbs/MWh
- NY-ISO:
  - o CO2: 495.6 lbs/MWh
  - o NOx: 0.29 lbs./MWh
  - o SO2: 0.25 lbs/MWh
- PJM:
  - o CO2 = 1,060 lbs/MWh
  - $\circ$  NOx = 0.90 lbs/MWh
  - o SO2 = 2.33 lbs/MWh

# For 2012, annual emissions factors used in REED are:

- ISO-NE:
  - o CO2 = 719 lbs/MWh
  - $\circ$  NOx = 0.35 lbs/MWh
  - o SO2 = 0.28 lbs/MWh
- NY-ISO:
  - o CO2: 529.2 lbs/MWh
  - o NOx: 0.3 lbs./MWh
  - o SO2: .246 lbs/MWh
- PJM:
  - o CO2 = 1,092 lbs/MWh
  - $\circ$  NOx = 0.95 lbs/MWh
  - o SO2 = 2.40 lbs/MWh

# For 2011, annual emissions factors used in REED are:

- ISO-NE:
  - o CO2 = 780 lbs/MWh
  - $\circ$  NOx = 0.42 lbs/MWh
  - o SO2 = 0.95 lbs/MWh
- NY-ISO:
  - o CO2: 537.6 lbs/MWh
  - o NOx: 0.36 lbs./MWh
  - o SO2: .574 lbs/MWh
- PJM:
  - o CO2 = 1,146 lbs/MWh
  - $\circ$  NOx = 1.04 lbs/MWh
  - o SO2 = 3.53 lbs/MWh