

# Operations Update

Operating Committee  
May 18, 2023

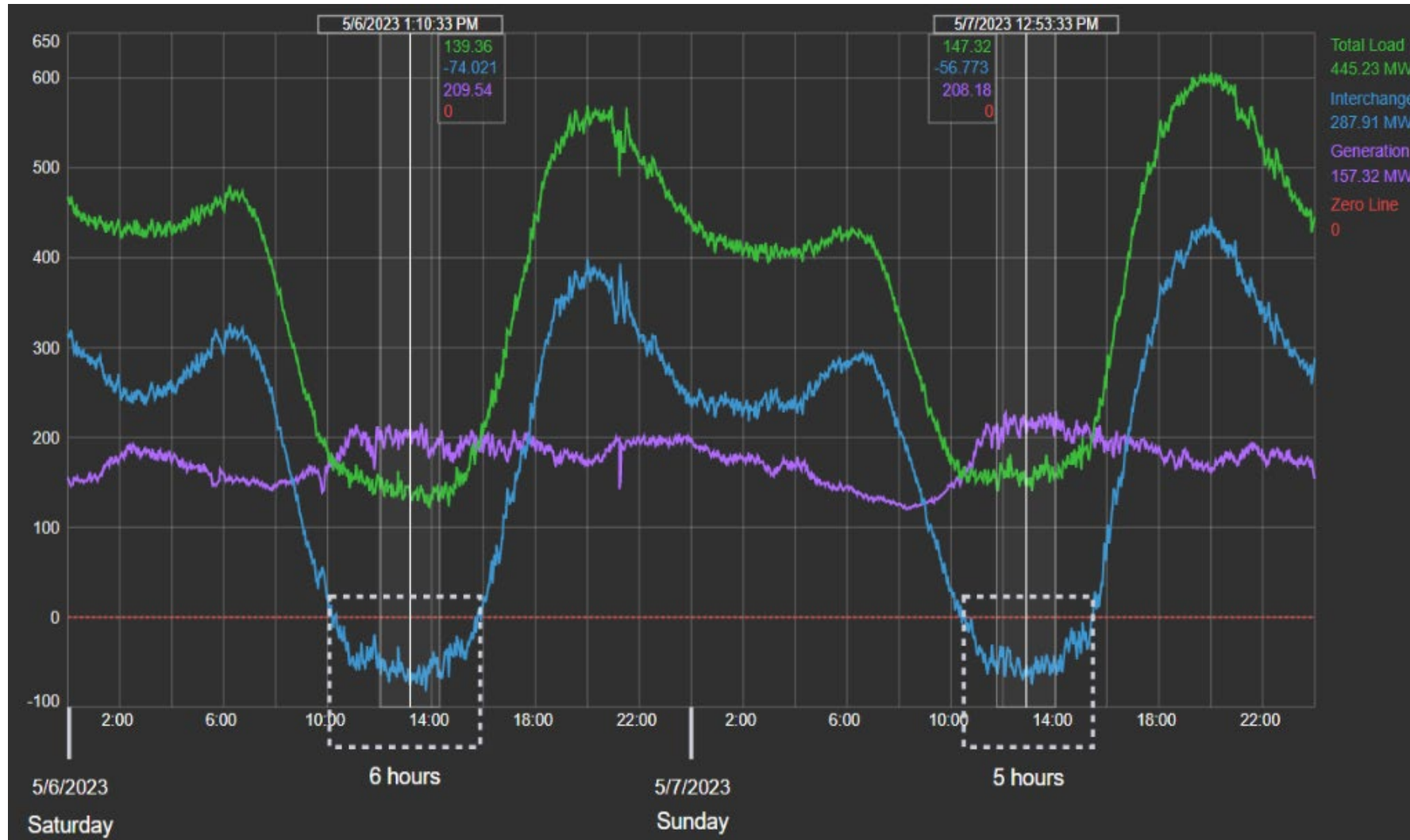


# 2023 Spring Load Trend

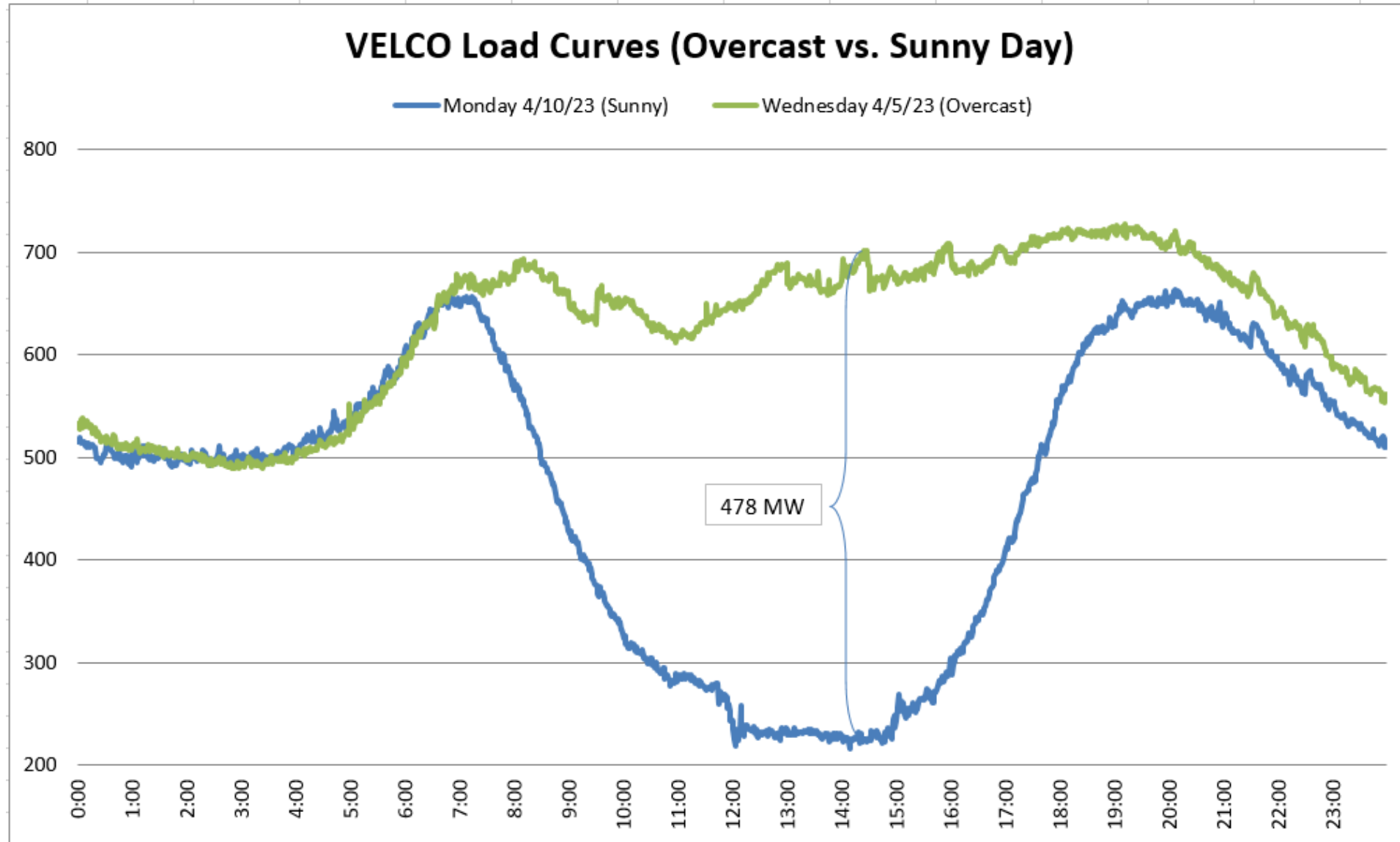
- VT Peak Instantaneous Load Since April 1<sup>st</sup> = 728.2 MW
- VT Minimum Instantaneous Load Since April 1<sup>st</sup> = 123.8 MW
  - Occurred on Sunday May 6<sup>th</sup>
  
- New England set record low demand on April 9<sup>th</sup> = 6,814 MW\*
  - Previous record of 7,580 MW set on May 1<sup>st</sup>, 2022\*
  - In 2021, the ISO-NE OP-17 LPF standard was revised to include an additional 7,000 MW light load point.

\* Source = ISO Newswire

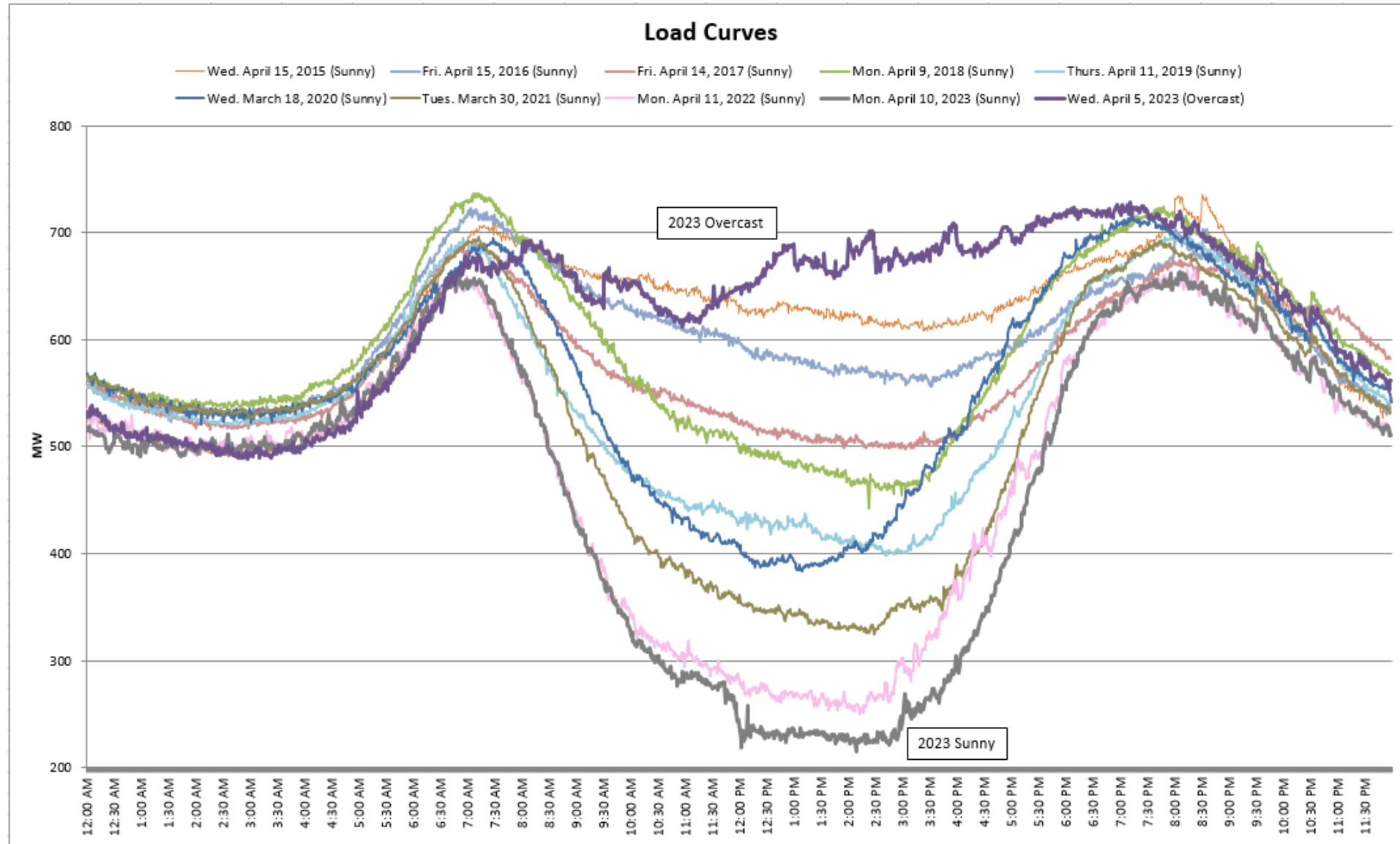
# VT Exports Power 5/6 & 5/7



# April 2023 Overcast vs Sunny Day



# Spring Load Comparison

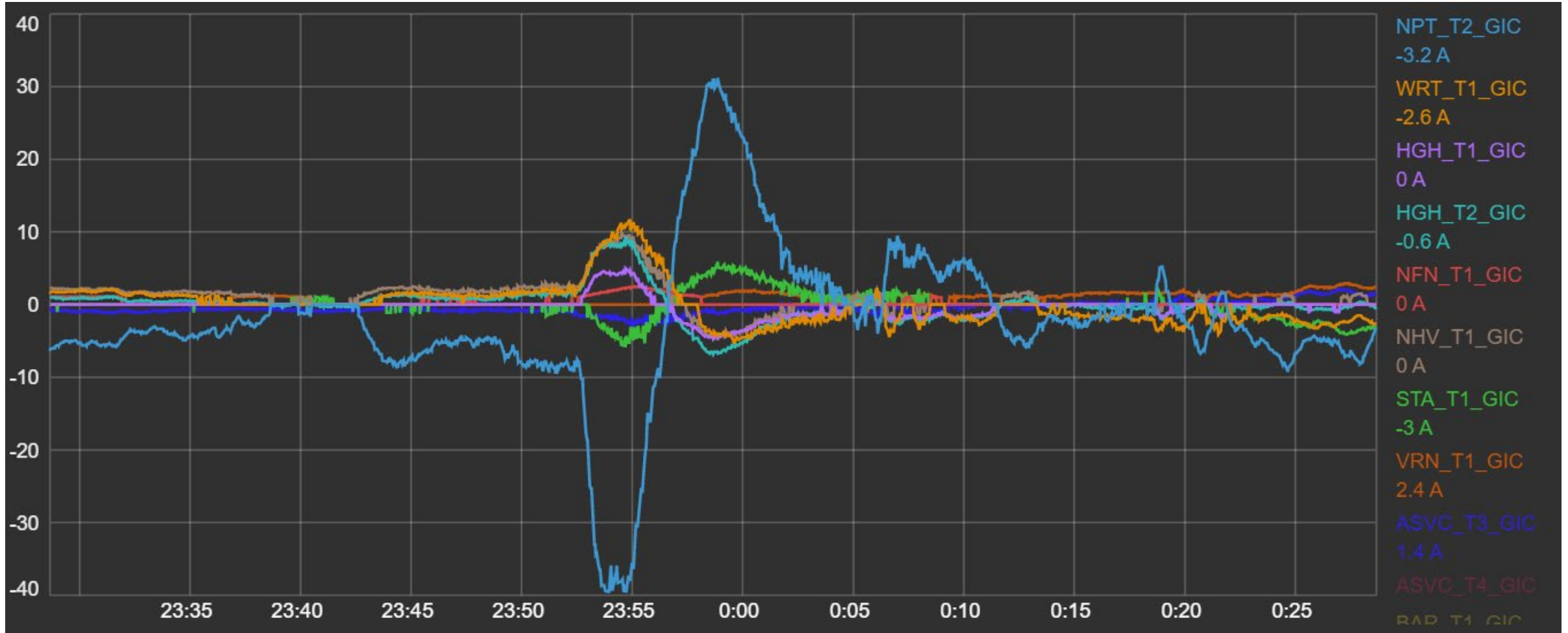


# Geomagnetic Disturbance Event 4/23

- On Sunday April 23<sup>rd</sup>, ISO-NE issued a Kp 9 GMD alert
- VELCO saw Geomagnetically-induced Current (GIC) alarms at Newport and West Rutland
  - Max observed at Newport 38.3 Amps
  - Max observed at West Rutland 10.8 Amps



# 4/23/23 GIC Readings



# Geomagnetic Disturbance Event 4/23

- GICs can cause damage to transformers by disrupting the magnetic characteristics of the transformer core which, in turn, can cause transformer core saturation. Potential consequences:
  - Harmonics on the transmission system
  - Localized heating
  - Higher reactive power demands
  - Possible mis-operation of protective relay systems



# Updates

- Florence substation commissioning May 15<sup>th</sup> – 24<sup>th</sup>
- Cycle 2 training finishing up
  - Joint training with ISO-NE and NE LCCs
  - Training included Geomagnetic Disturbance (GMD) Operations
- Cycle 3 training upcoming
  - Joint training with VDU Control Center Operators (September/October timeframe) (occurs every other year)
  - Includes Emergency Operations and Communications
  - Butch will be reaching out to VDU Operations to plan
    - If other DUs are interested, please let us know