

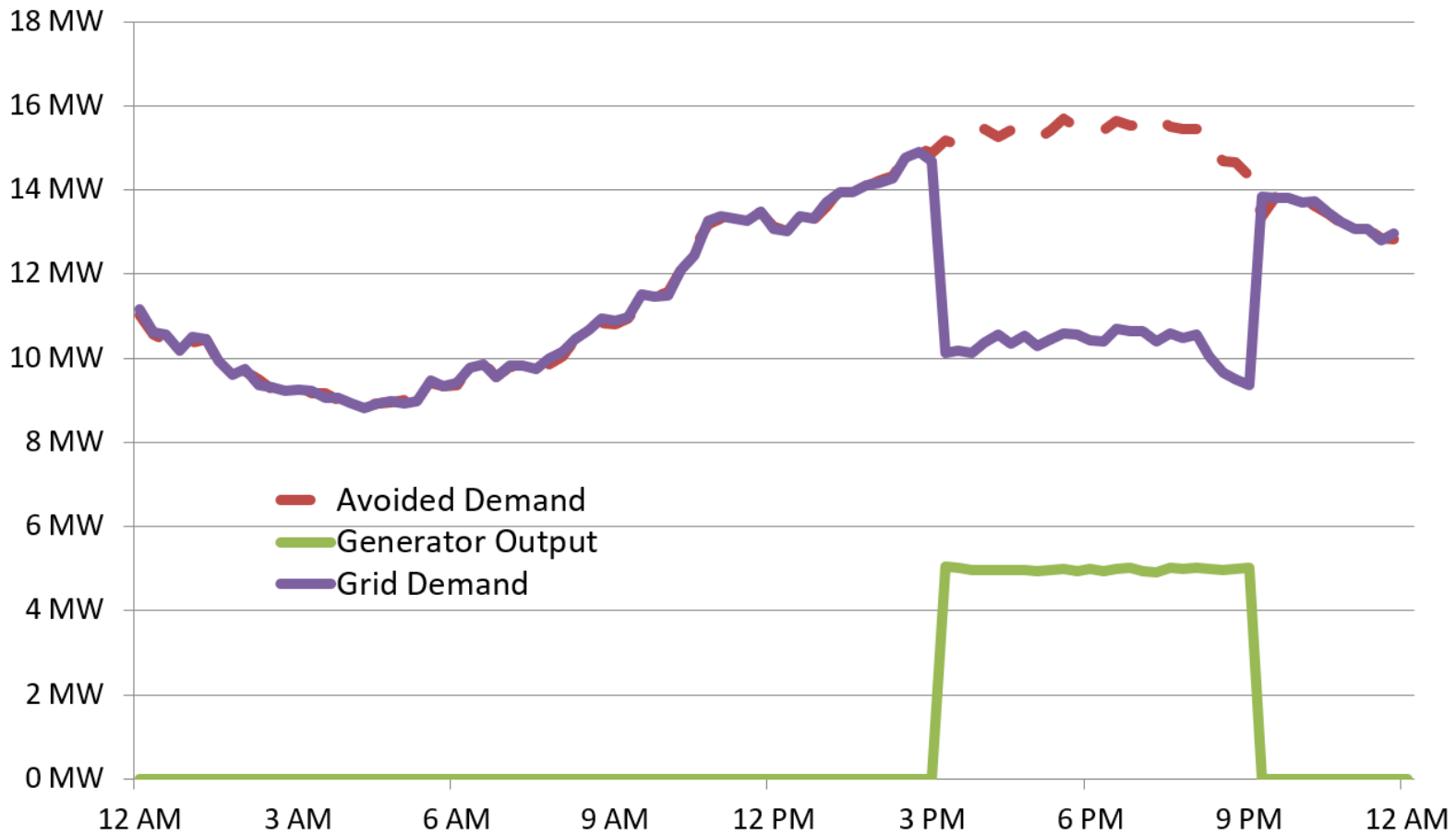
# Crown Melbourne Central Plant

- 6 MW Trigeneneration “Trigen” system produces electricity, heating, & cooling
- 0.7 MW Cogeneration “Cogen” system produces electricity & heating
- Natural gas powered generator systems provide reliable backup power as well as load shifting capabilities for various scenarios.



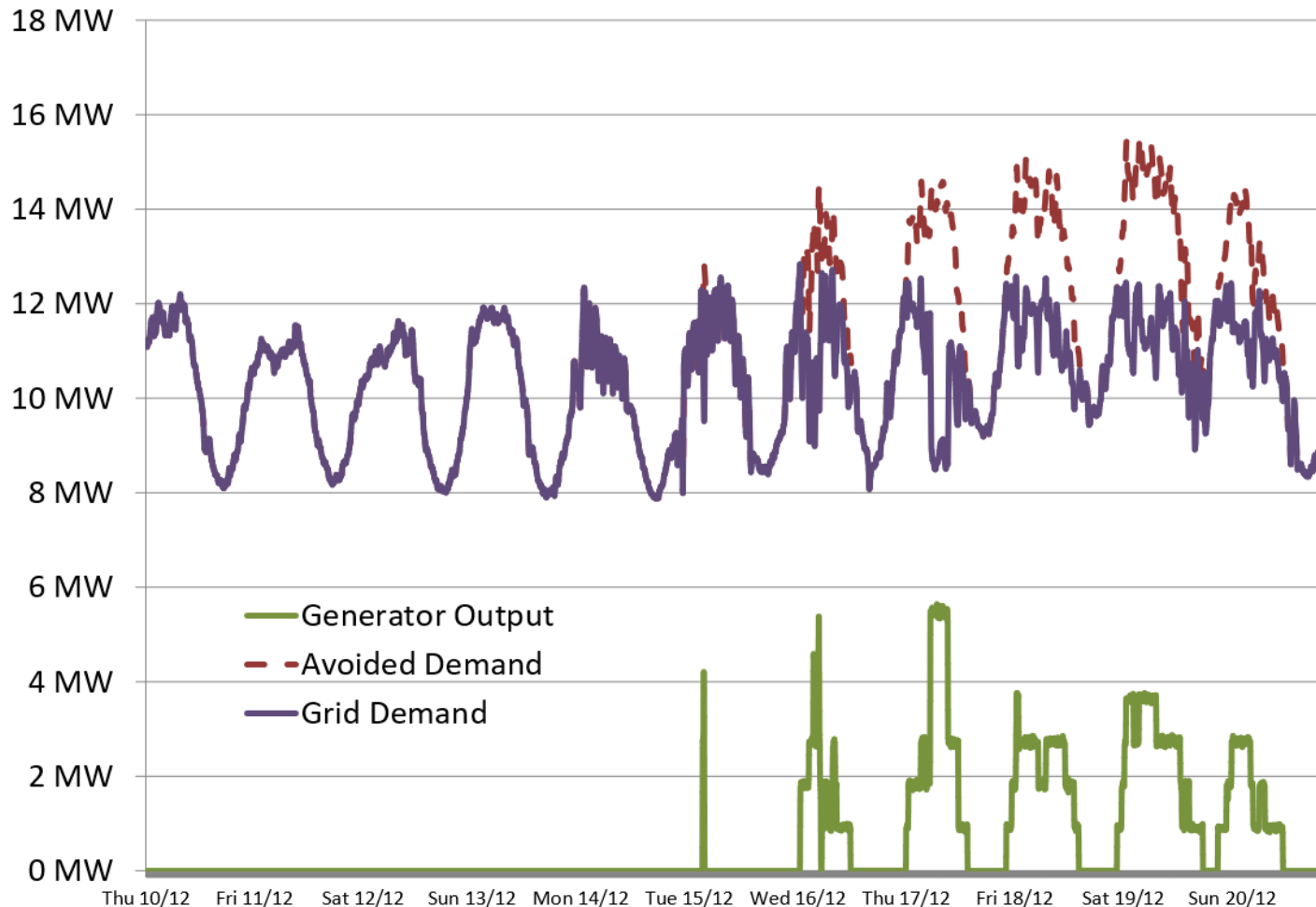
# Load Shifting - Demand Response / RERT

- This 6 hour long Demand Response activation reduced grid demand by 5 MW during a Victoria peak electrical day, while not affecting building operations.



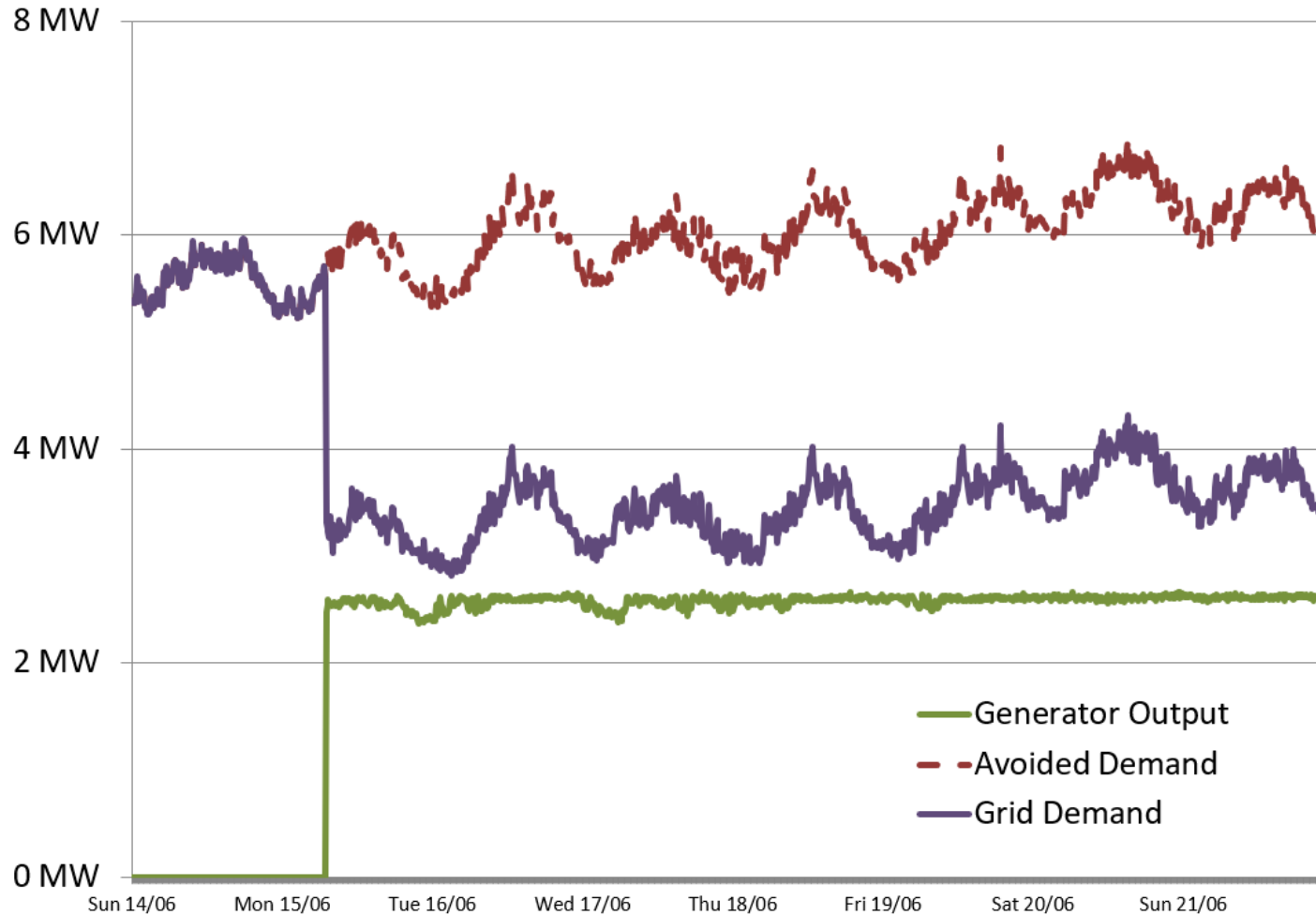
# Load Shifting – Peak Lopping

- “Peak Lopping” mode can reduce the facility’s peak electrical demand charge by about 3 MW



# Grid to Generator Load Shift

- Continuous generator operation can shift energy loads from electricity to natural gas



# Considerations – Load Shifting Using Generators

- Natural gas generators allow for less expensive operation than diesel generators
- Synchronous operation allows operation of generators without power outages
- Electricity rates vs. Natural gas rates needs to be monitored to ensure optimized operation
- Efficient use of generator waste heat allows for large greenhouse gas savings

Questions