Thermal Maintenance Scheduling

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Taking into regional and subregional reserve availability

- Calculate daily reserve = 90% (user input) of daily minimum available capacity – daily peak of netload, if less than zero, set to zero
  - Available capacity: Thermal seasonal capacity, hydro, PSH, Battery (capacity or average)
  - NetLoad: netload = hourly load – wind – solar – hydro given schedule
- Consider user's inputs on schedule windows or avoid windows
- Schedule the thermal capacity within daily reserve to maximize the minimum of daily reserves
- Adjust daily reserve based on scheduled thermal maintenance
- Coordinate maintenance across the regions, reserve sharing regions, and system

Battery Operation Constraints

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- Minimum Downtime
  - Downtime between charging and discharging

- Daily cycle
  - How to define the cycle?