

Creating Closed Loop Interfaces

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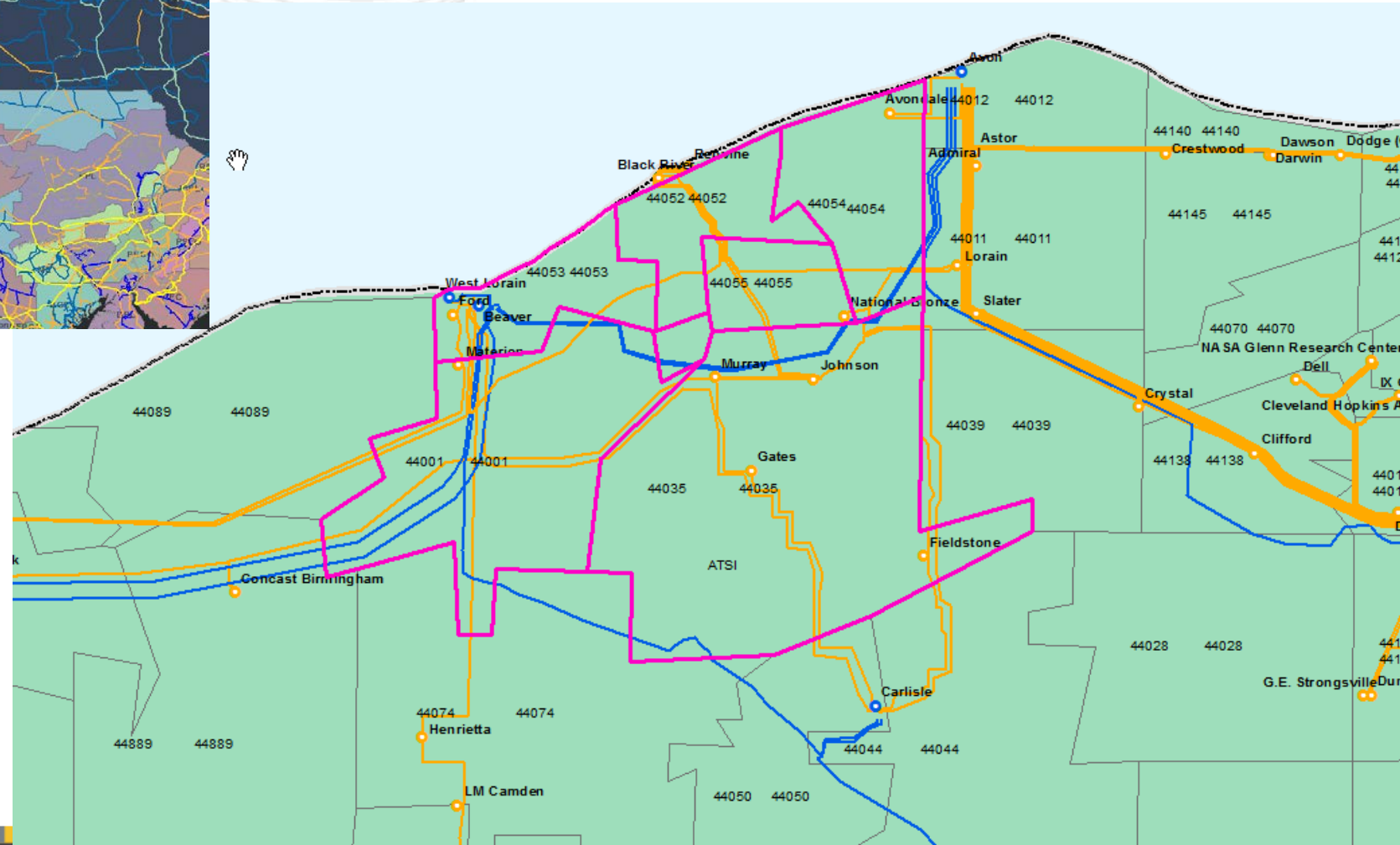
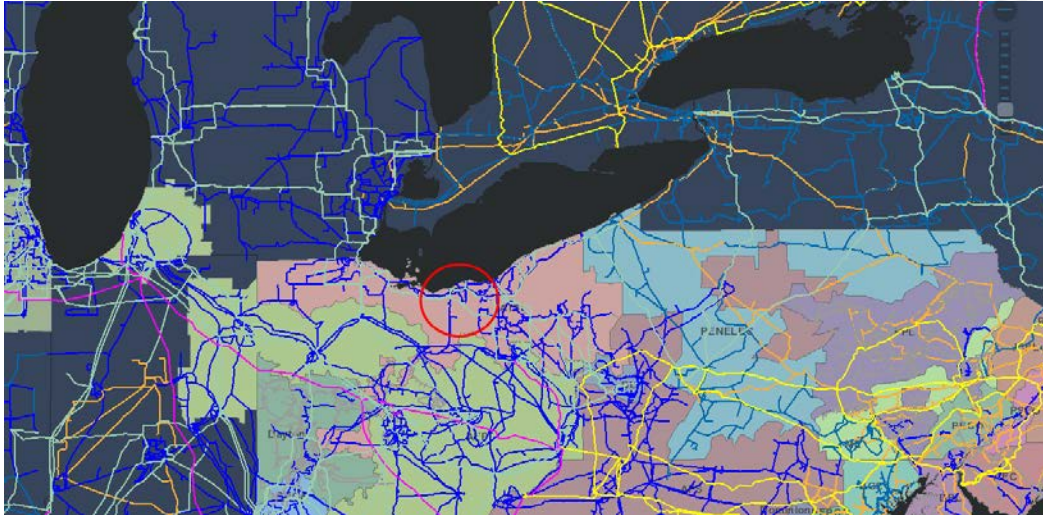
- Reflect Dispatcher Actions in LMP
 - Reduce Up Lift by Setting Price for Generation / Load
 - DC model only allows us to set price for thermal constraints
 - Voltage issues can only set price using:
 - Thermal Surrogate – these don't always work
 - Closed loop Interface – limit is set to the flow
 - Sub-Zonal Demand Response can only set price using:
 - Closed loop interface

- Voltage issues in real time operations
- High Load
 - Specific Outage Conditions
 - Problem areas where Sub-Zonal DR helps
- Set price for Sub-Zonal DR

- Identify Problem
- Determine Thermal Surrogate
 - Generate dfax
 - Identify raise/lower help generation and load
- Create a “Closed Loop” around effective generation / load
- Identify ZIP codes for Demand Response
- Post New Interface

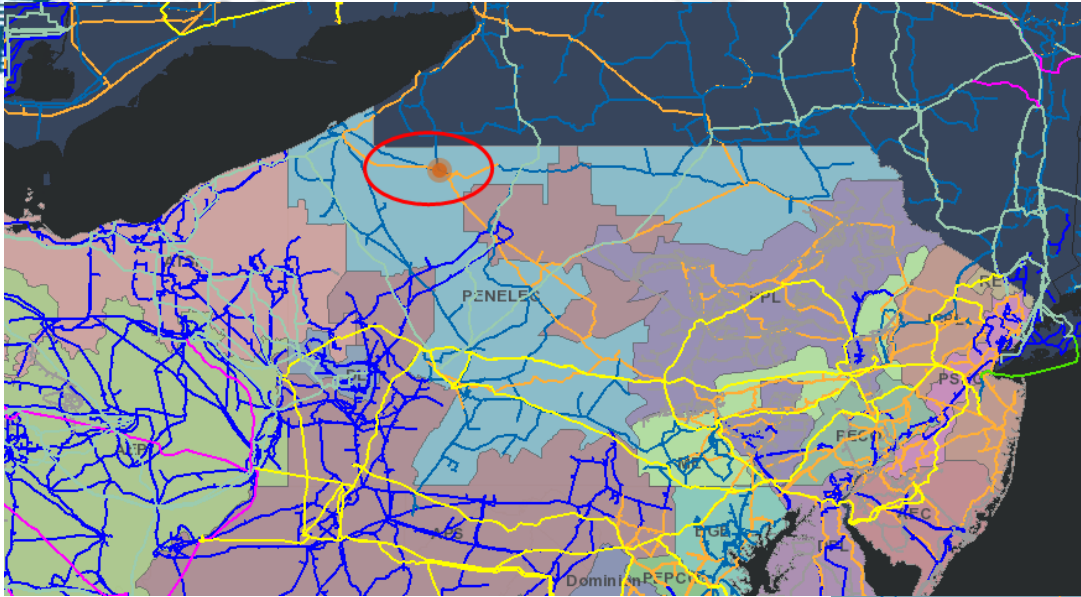
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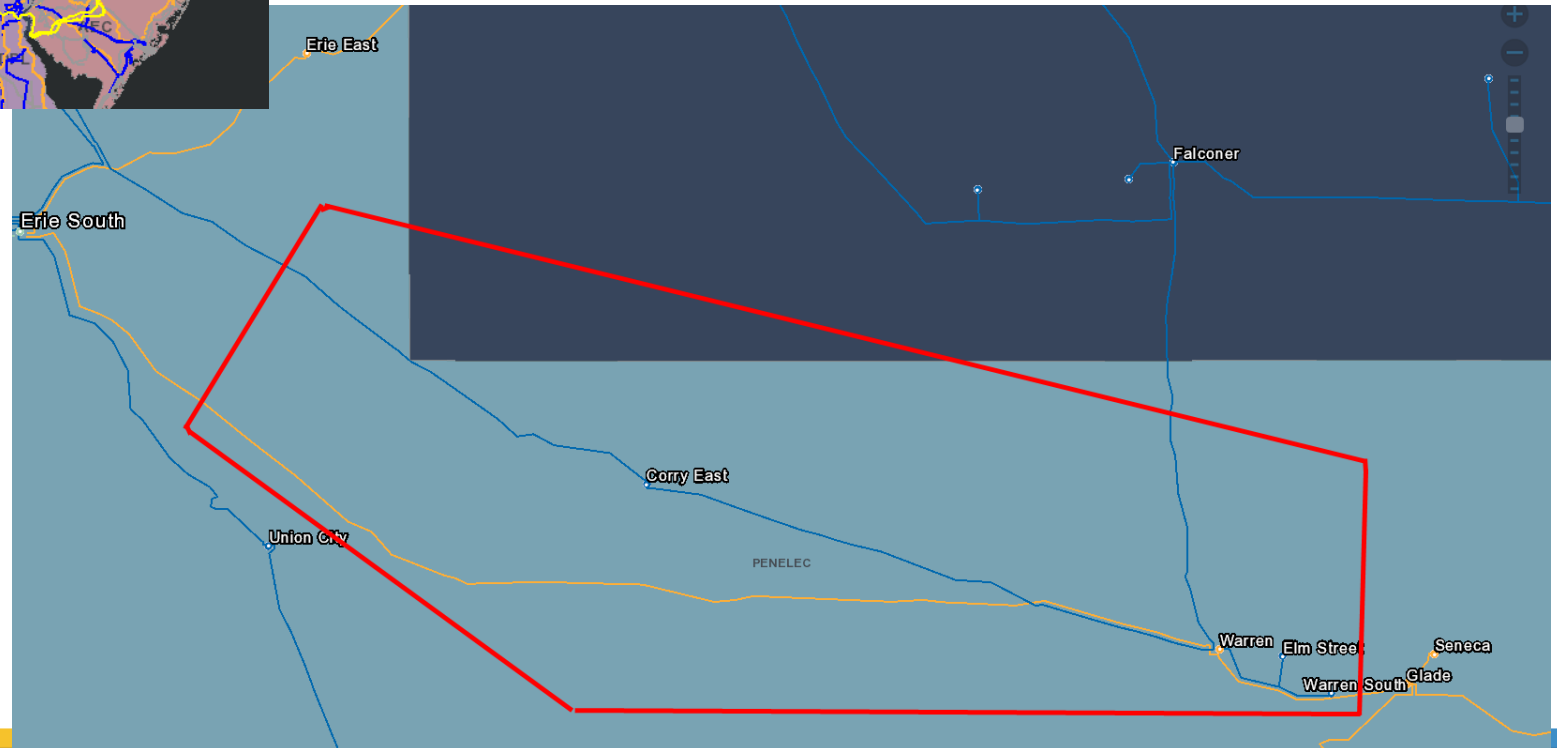


- ATSI transmission zone
- Outage related during peak load conditions
- Purpose: set RT LMP for Sub-zonal Load Management

Warren Interface



- PN transmission zone
- Voltage issues
- Purpose: set RT LMP for Generation



- PN transmission zone
- Voltage issues
- Purpose: set RT LMP for Generation

