

MONTPELIER STUDY RESULTS



System Overview



- Primary Sources
 - Ovid 138-69 kV
 - 138 kV source from Oneida
 - Reactive Support to the Area
 - Sage 69-46 kV
 - 69 kV source from Naughton Generation
 - Serves 46 kV Loads



Load Growth

- Base System Loads
 - Summer 2009: 26 MW
 - Winter 2009-10: 27.9 MW
- Growth
 - Summer: 2.1%
 - Winter: 1.4%
- Projected System Loads
 - Summer 2014: 31.9 MW
 - Winter 2014-15: 30.2 MW



System Problems N-1

- Change switches 66A
 and 67A at Indian
 Creek to include
 vacuum bottles
 - Prevent loss of service to Raymond, Indian Creek, Poverty, and Rich
 - Estimated cost is \$70,000





System Problems N-1

Add a six MVAR - 3 stage Cap Bank at Ovid

- Loss of Ovid
 Transformer causes low
 voltage problems on the
 69 and 46 kV systems
- Estimate is \$2.3m in 2011





Total Construction Costs

- Indian Creek
 - Install switches with Vacuum Bottles
 - \$70,000
- Ovid Substation
 - Install a six MVAR capacitor bank (3 Stages)
 - \$2.3m
- Total Construction Cost
 - ▶ \$2.37m





