2018 Summer Preparedness

Illinois Commerce Commission

May 10, 2018
Outline

- Overview of MidAmerican Energy
- Demand and Capability
- Transmission System
- Vegetation Management
- Storm Preparedness/Customer Communication
- Energy Efficiency
MidAmerican Energy Company Overview

- Headquartered in Des Moines, Iowa
- 3,300 employees
- 1.6 million electric and natural gas customers in four Midwestern states
  - Approximately 85,000 electric and 66,000 natural gas customers in Illinois
- Illinois service territory is in the Quad Cities and surrounding areas
- 387 MW of owned power capacity allocated to Illinois
- Remainder of resources needed to serve Illinois load acquired through Illinois Power Agency procurement process
Summer Peak Coverage

• Sufficient capacity to meet the summer 2018 forecast
  – MISO capacity auction procured a small portion of Illinois requirement

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</thead>
<tbody>
<tr>
<td>MidAmerican system,</td>
<td>2018 normal weather</td>
<td>4,873</td>
<td>5,677</td>
<td>16%</td>
<td>5,189</td>
<td>804</td>
<td>487</td>
<td>325</td>
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<tr>
<td>MidAmerican system,</td>
<td>2018 extreme weather</td>
<td>5,005</td>
<td>5,677</td>
<td>13%</td>
<td>---</td>
<td>672</td>
<td>---</td>
<td>325</td>
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<tr>
<td>MidAmerican-Illinois,</td>
<td>2018 normal weather</td>
<td>458</td>
<td>396</td>
<td>-14%</td>
<td>492</td>
<td>(62)</td>
<td>(96)</td>
<td>9</td>
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• 2017 actual and all-time peak

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<tr>
<th>Year</th>
<th>Historical</th>
<th>Peak Load (MW)</th>
<th>Capacity Resources (MW)</th>
<th>Capacity Excess of Load (MW)</th>
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<tr>
<td>MidAmerican 2017 actual and</td>
<td>2017 all-time peak: July 19, 2017</td>
<td>4,850</td>
<td>5,687</td>
<td>837</td>
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* Pre-auction capacity resource values for delivery year June 2018 through May 2019
Transmission Loading

- MidAmerican Energy expects its system to perform well
  - No facilities are expected to load above their rating for normal system conditions or single contingency events
  - Operating procedures prepared for certain double contingency events
  - MISO congestion management tools and transmission loading relief

- Significant MISO Multi-Value Project (MVP) transmission expansion underway or completed, improving Iowa import/export capabilities
  - MVP16 Iowa to Illinois
    - Quad Cities to Galesburg March 2017
    - Galesburg to Peoria February 2018
  - MVP3/MVP4 within Iowa
    - *MidAmerican Energy portions completed 2016 & 2017
  - MVP7/MVP8 Iowa to Missouri
  - MVP5 Iowa to Wisconsin
Vegetation Management

• Three-year trim cycle for distribution system clearances
• Annual electric transmission inspection and remediation
• The top ten 2017 scheduled circuits, relative to tree-related outages, were identified and patrolled with identified concerns remediated prior to storm season
  – 9.9% of Illinois customer outage minutes in 2017 were tree-related (excludes major storm events)
  – 7.4% of Illinois customer outage minutes in 2017 were tree-related (includes major storm events)
• Website and spring/fall bill insert safety messages

Check for power lines
- Before trimming a tree, check carefully for nearby power lines. If you find one, contact MidAmerican Energy at 888-427-5632 before you proceed. Touching a power line with a tool or tree branch can cause a shock or start a fire.

Don't trim trees near power lines
- Only licensed, qualified tree trimmers are allowed to work near high-voltage lines. Don't risk it yourself!

Submit Tree Trimming Request
Storm Preparedness and Outage Communications

• Local and remote storm centers opened, new state-of-the-art incident command center in Des Moines
• Who to Call information and safety provided in key messages
• Radio, television and online/digital, live interviews, real-time advertising, website Outage Watch
• Mutual assistance, Berkshire Hathaway Energy and Grid Assurance
• Computer-Aided Dispatching to improve routing and streamline communications; enables outage watch
• Direct email notifications and updates (~75% of customers) and proactive text updates with enrollment
For more outage details, zoom in on the map or select from the City, County and Alerts tabs. Last Updated: 05-03 08:04 AM.
MidAmerican Energy is focused on “right sizing” energy efficiency programs to provide robust energy efficiency programs for customers, while keeping more money in customers’ pockets

- Filed plan at the Iowa Utilities Board in 2017 to align energy efficiency plan with this strategy

Legislation recently passed in Iowa to place caps on the size of energy efficiency and demand response plans

MidAmerican Energy assessing legislation – plans to refile plan consistent with legislation

Illinois energy efficiency plans have typically followed Iowa template