PJM Dispatch Interactive Map Application (DIMA) ESRI UC 2017

Ed Kovler
Frank DiCicco
### Key Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member companies</td>
<td>1,000+</td>
</tr>
<tr>
<td>Millions of people served</td>
<td>65</td>
</tr>
<tr>
<td>Peak load in megawatts</td>
<td>165,492</td>
</tr>
<tr>
<td>MW of generating capacity</td>
<td>176,569</td>
</tr>
<tr>
<td>Miles of transmission lines</td>
<td>82,546</td>
</tr>
<tr>
<td>2016 GWh of annual energy</td>
<td>792,314</td>
</tr>
<tr>
<td>Generation sources</td>
<td>1,304</td>
</tr>
<tr>
<td>Square miles of territory</td>
<td>243,417</td>
</tr>
<tr>
<td>States served</td>
<td>13 + DC</td>
</tr>
</tbody>
</table>

21% of U.S. GDP produced in PJM

As of 2/2017
PJM – Focus on Just 3 Things

1. **Reliability**
   - Grid Operations
   - Supply/Demand Balance
   - Transmission monitoring

2. **Market Operation**
   - Energy
   - Capacity
   - Ancillary Services

3. **Regional Planning**
   - 15-Year Outlook
Dispatch Interactive Map Application

DIMA

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Aware of your surroundings?
Current Paradigm – Tabular Displays
DIMA Overview

• Geospatial interactive application designed for Operations
• Improved situational awareness by layering existing data geospatially
• At a glance view of integrated grid data
  – Transmission line status
  – Generation (status, fuel, etc) status
  – Reactive power equipment (capacitor banks, SVC, etc) status
  – Demand response availability
  – Behind the meter generation
  – Gas-electric coordination (gas pipelines, generation at risk, etc).
  – Weather

• Designed for PJM Dispatchers, used by personnel all over the organization

Move away from tabular views to real time geospatial views
DIMA Overview

- Designed for Dispatchers
- Intuitive user interface
- Intuitive controls
- At a glance view of layered information
- Main navigation menu on the left
- Geospatial map with locations of transmission zones
- Locations and types of kV lines
- High level locations of substations