ATTACHMENT TO STATEMENT OF F. STUART BRESLER, III

OHIO HOUSE OF REPRESENTATIVES
ENERGY AND NATURAL RESOURCE COMMITTEE

April 9, 2019
## Key Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member companies</td>
<td>1,010+</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>180,086</td>
</tr>
<tr>
<td>Miles of transmission lines</td>
<td>84,042</td>
</tr>
<tr>
<td>2018 GWh of annual energy</td>
<td>806,546</td>
</tr>
<tr>
<td>Generation sources</td>
<td>1,379</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>

- 26% of load in Eastern Interconnection
- 20% of transmission assets in Eastern Interconnection

As of 1/2019

21% of U.S. GDP produced in PJM
PJM’s Role as a Regional Transmission Organization

PLANNING

Planning for the future like...

Urban Planning

OPERATIONS

Matches supply with demand like...

Air Traffic Control

MARKETS

Energy Market Pricing like...

Stock Market

www.pjm.com
Independence and Governance Process

Taking an independent approach to governance:

- Independent Board of Managers
- Stakeholder process – provide balanced stakeholder input
- Established process for discussion of market evolution
- ISO funding and startup

Members Committee

- Generation Owners
- Transmission Owners
- Competitive Retail Companies & Trading Companies
- Utility Electric Distributor & Retail Business
- Wholesale End Use Customers (Industrial)
Value Proposition

Total Annual PJM Value: $2.8 to 3.1 billion

- Grid Services: $100 million savings
- Reliability: $475 million savings
- Integrating More Efficient Resources: $600 million savings
- Energy Production Costs: $525 million savings
- Generation Investment: Savings of $1.1 to $1.4 billion

www.pjm.com
## Robust Reserve Margins

<table>
<thead>
<tr>
<th>Delivery Year</th>
<th>Committed Capacity</th>
<th>Target Reserve Margin</th>
<th>Committed Reserve Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017/18</td>
<td>167,004 MW</td>
<td>15.7%</td>
<td>19.7%</td>
</tr>
<tr>
<td>2018/19</td>
<td>166,837 MW</td>
<td>15.7%</td>
<td>19.8%</td>
</tr>
<tr>
<td>2019/20</td>
<td>167,306 MW</td>
<td>16.5%</td>
<td>22.4%</td>
</tr>
<tr>
<td>2020/21</td>
<td>165,109 MW</td>
<td>16.6%</td>
<td>23.3%</td>
</tr>
<tr>
<td>2021/22</td>
<td>163,627 MW</td>
<td>15.8%</td>
<td>21.5%</td>
</tr>
</tbody>
</table>

*The PJM Delivery Year runs from June 1 – May 31*
Transmission Reliability Analysis
Cleared Installed Capacity

MW

Cleared Installed Capacity


Delivery Year

*includes solar & wind at nameplate, hydro and wood

www.pjm.com
Ohio – Energy Production
(January 1, 2018 – December 31, 2018)

Amount of energy produced by Ohio generation

- Coal, 32.7%
- Natural gas, 25.1%
- Imports, 23.8%
- Nuclear, 11.2%
- Wind, 1.0%
- Misc., 6.2%
Ohio Generation Development

- Oregon Energy Project 960 MW
  - Oct 2020
- Lordstown Energy Center 940 MW
- Oregon Clean Energy Center 955 MW
  - Oct 2020
- Clean Energy Future – Trumbull 940 MW
  - Oct 2020
- Carroll County Energy 742 MW
- Harrison Power Station 1050 MW
  - Oct 2020
- Guernsey Power Station 1650 MW
  - Apr 2020
- Middletown Energy Center 513 MW

Legend:
- Projects In-Service
  - 513 MW
  - 514 - 960 MW
  - 981 - 1,050 MW
- Projects Under Development
  - 940 MW
  - 941 - 1,049 MW
  - 1,050 - 1,650 MW