Residential DR M&V Changes Update

DRS March 27, 2018
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PJM Demand Response Operations
Timeline

- 10/8/2014 MIC endorsement
- 11/6/2014 OC endorsement
- 11/20/2014 MRC endorsement
- 1/22/2015 MC endorsement
- 6/4/2015 FERC filing
- Approved 7/23/2015
- Effective date: 8/3/2015
- End of participation under legacy programs: 5/31/2016
Interval Metered
- No change in status quo for M&V and meter data collection
- Actual hourly meter data for all customers is used
- Not eligible to participate in sampling

Non-Interval Metered
- M&V based on actual load data from sample during event
  - Random and representative sample of customers with non-interval meters
  - Hourly data from sample is scaled to population
  - After data is scaled to population, processes are same as interval metered customers
Residential M&V: Overall Participation in Load Management Programs

<table>
<thead>
<tr>
<th></th>
<th>#CSPs</th>
<th>#sites</th>
<th>Reduction MWs(ICAP)</th>
</tr>
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<tbody>
<tr>
<td>DY17/18</td>
<td>12</td>
<td>2,588,131</td>
<td>1,579</td>
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<tr>
<td>DY16/17</td>
<td>15</td>
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<td>1,538</td>
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<td>DY15/16</td>
<td>18</td>
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<td>DY14/15</td>
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## Residential M&V: Sampling in Load Management Programs

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<th>#sample sites</th>
<th>#sites</th>
<th>Reduction MWs(ICAP)</th>
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<td>3,416</td>
<td>397,365</td>
<td>262</td>
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<tr>
<td>DY16/17</td>
<td>8</td>
<td>3,442</td>
<td>439,165</td>
<td>295</td>
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</table>
• Most CSPs have hired 3rd party company to design and implement sample

• Address administrative issues with non-utility CSP registrations/locations
  – EDC/LSE review (_duplicates): how to handle sample/program lists

• Address issues with churn
  – Population (register amounts with regard to expected churn rate)
  – Sample (alternates)