NRECA Benchmarking Background

- Participants are anonymous
- Participation list is not revealed to anyone.
- No inference about “good” or “bad” reliability
- Intended to provide information to allow participants to assess their performance relative to others
- This information with raw data is provided to the participants so that they can make/share their own graphs.
- Data is provided to Touchstone Energy for use in the Balanced Performance Scorecard.
System Avg. Interruption Frequency Index

Excluding Major Event Days

- Min: 0.09
- 1st Quartile: 0.79
- 2nd Quartile: 1.30
- 3rd Quartile: 1.59
- Max: 3.01

SAIFI SCORES FOR INDIVIDUAL STUDY CONTRIBUTORS - 2015
Customer Avg. Interruption Duration Index

AVG. INTERRUPTION IN MINUTES

CAIDI SCORES FOR INDIVIDUAL STUDY CONTRIBUTORS – 2015

Min: 30.38
1st Quartile: 74.58
2nd Quartile: 89.35
3rd Quartile: 108.76
Max: 221.58
Data Analytics Platform
This is an example of a SAIDI score that is trending up over time. Note the removal of Major Event Days reveals the operational efficiency trend that would be hidden in the data.
Typical SAIDI trending over time
Typical product quality lifecycle

Product Quality

Evaluate

Goal Setting

Measure

Execute

Plan
Evaluate:

Is this the distribution reliability trend we want? If not, what actions are we going to take?
Set Goals:

What should our goal be?
How are we going to accomplish the goal?
Case Study – 2014 Worst SAIDI

Min 28.30
1st Quartile 82.45
2nd Quartile 121.55
3rd Quartile 177.36
Max 332.90
System Avg. Interruption Duration Index

### System Avg. Interruption Duration Index

#### Minutes of Interruption Excluding Major Event Days

<table>
<thead>
<tr>
<th>Min</th>
<th>10.05</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Quartile</td>
<td>63.75</td>
</tr>
<tr>
<td>2nd Quartile</td>
<td>112.41</td>
</tr>
<tr>
<td>3rd Quartile</td>
<td>160.35</td>
</tr>
<tr>
<td>Max</td>
<td>398.84</td>
</tr>
</tbody>
</table>

#### SAIDI SCORES FOR INDIVIDUAL STUDY CONTRIBUTORS – 2015

Moved from 333 min SAIDI in 2014 to 201 min in 2015 by using PwrMetrix to guide their reliability efforts.
Thank You

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