Welcome to St. Louis!
How are you doing?

• Energized! Ready to participate
• Interested, Listening ears ON
• Stressed out, multi tasking already
• Tired, let me tell you about my travel woes
• It’s 8am, ask me later...
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SSL Technical Requirements

<table>
<thead>
<tr>
<th>Year</th>
<th>SSL Version</th>
<th>Average Efficacy Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>1.6</td>
<td>25%</td>
</tr>
<tr>
<td>2013</td>
<td>2.0</td>
<td>17%</td>
</tr>
<tr>
<td>2015</td>
<td>3.0</td>
<td>Add premium classification</td>
</tr>
<tr>
<td>2016</td>
<td>4.0</td>
<td>27%</td>
</tr>
<tr>
<td>2019</td>
<td>5.0</td>
<td>9.6% (proposed)</td>
</tr>
</tbody>
</table>
DLC QPL is required by programs representing 76% of North America’s C&I electric accounts.
U.S. Non-Residential LED Annual Energy Savings Potential

- 91 million installations

- 2016 - 2035

Annual Energy Savings (TWh)

- Parking Area/Garage
- Street/Roadway
- Building Exterior
- Linear Lamp/Fixture
- Low/High Bay
- Other Indoor
- ENERGY STAR Products
- NLC Indoor Product Savings
- NLC Outdoor Product Savings

NLC Scenario: High Utility Support
Efficacy Forecast: DOE
### NLC Policy development

<table>
<thead>
<tr>
<th>Year</th>
<th>Version</th>
<th>Technical Criteria Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>1.0</td>
<td>• Defined initial set of capability requirements</td>
</tr>
</tbody>
</table>
| 2017 | 2.0     | • Addition of Exterior System Requirements  
|       |         | • New reported system information, including API and characteristics, color tuning, start-up and configuration party, and security information |
| 2018 | 3.0     | • Multiyear plans for Energy Monitoring and Cybersecurity  
|       |         | • Additional reporting on External Systems Integration and Scene Control  
|       |         | • Addition of DC/PoE systems |
| 2019 | 4.0 (Proposed) | • In V4, Energy Monitoring a required capability.  
|       |         | • In V4, defined criteria for acceptable cybersecurity standards.  
|       |         | • Propose to develop a multiyear plan for Interoperability  
|       |         | • New reported Interoperability capability by reorganizing data already in QPL under various headings |
Cumulative Number of 500 Megawatt Power Plants Equivalent to C&I LED + NLC Lifetime Savings Potential

Assumes 2035 Adoption Levels of:
- Indoor 83% LED, 58% NLC
The Next Challenge: SSL 5.0 Quality and NLC 4.0
How will this work?

Priority #1

What’s the next step?

Not enough data!

Too much data!
Agenda

Panels

Discussion sessions

Breakout sessions

Structured Networking

Highlights and lessons