

Residential Lighting & New Construction

CRAC Webinar
January 16, 2015



LIGHTING





Update on Where We Are

- **General consensus was to:**
 - Keep high-efficiency lighting in supply curve
 - Use 45 lm/Watt as baseline for 2020+ GSL
 - For SSL, project cost/efficacy to 2017 based on PNL report
- **Outstanding questions**
 - What is the current saturation?
 - What should the efficient measure be for EISA-exempt lighting?
 - How to model in RPM?



Current Saturation

- **How to estimate current saturation?**
 - Use RBSA data? 3 years old
 - Use NEEA shelf study? Not weighted by sales volume
 - Sales data? Only have a limited sample
- **Suggested approach (from BPA/NEEA)**
 - Use Sales+Shelf data to approximate flow
 - Supplement with NEEA general population survey on installations of LEDs (will be done ~April)



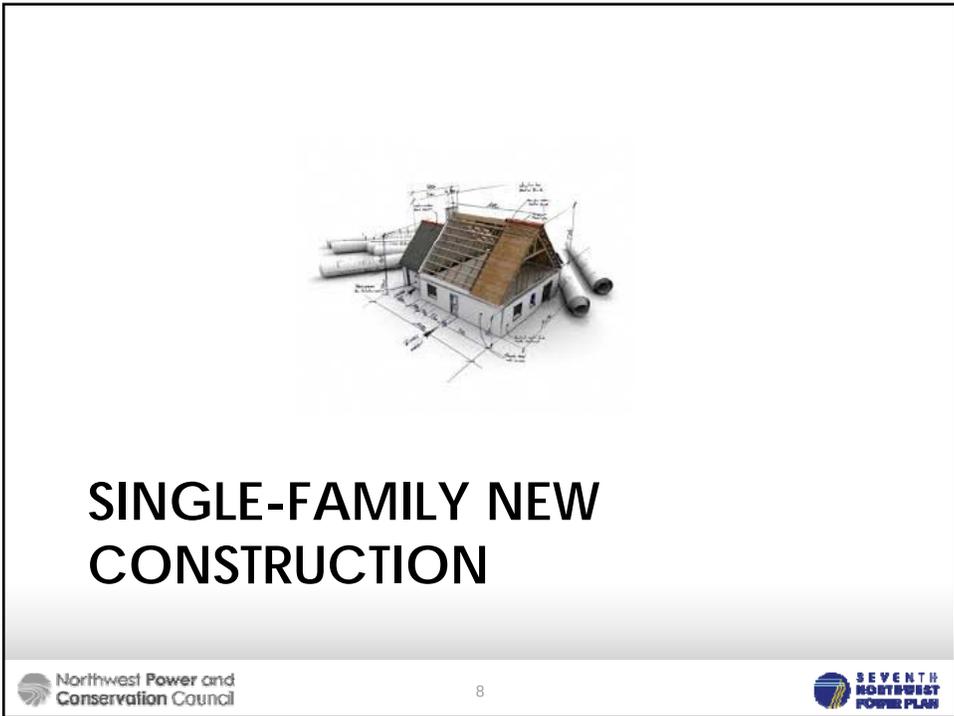
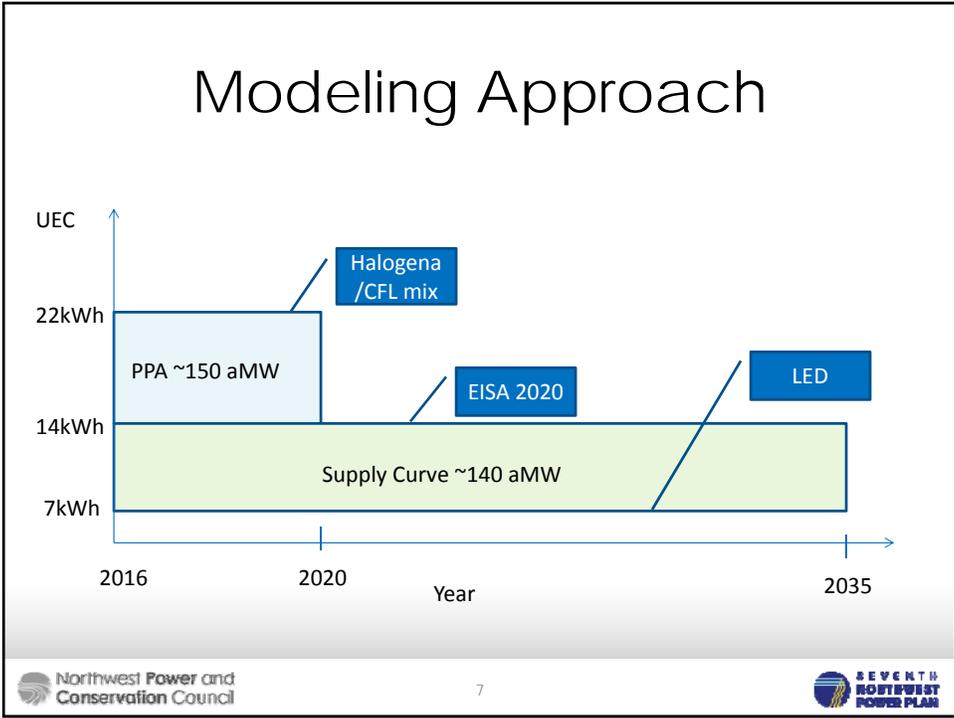
Measures

- **General service lighting:**
 - Pre-2020 baseline: halogena/CFL mix
 - Post-2020 baseline: 45 lm/Watt CFL
 - Measure is 90 lm/Watt LED
- **Specialty lighting**
 - Should we include CFLs as a measure?
 - Propose: No
 - CFLs have not garnered significant penetration in this area
 - LEDs seem to fit this niche with more varieties



Modeling in RPM

- **Once savings from a cost group is built, the savings persist over planning horizon**
- **Given EISA standards, GSL savings from 2016-2019 do not persist past 2020**
- **We will need to bundle these separately, treat 2016-2019 savings as a power purchase agreement**





Where is the market?

- **State building codes have improved since 6th Plan!**
- **Expectations are above-code shell improvements are not cost-effective**
- **Focus for RNC will be on equipment and lighting improvements**
- **Plus Heat Recovery Ventilation**