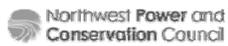


# Residential Lighting & New Construction

**CRAC Meeting  
December 17, 2014**



## 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 NEEA)**
  - Phone survey of RBSA subsample (Jan)



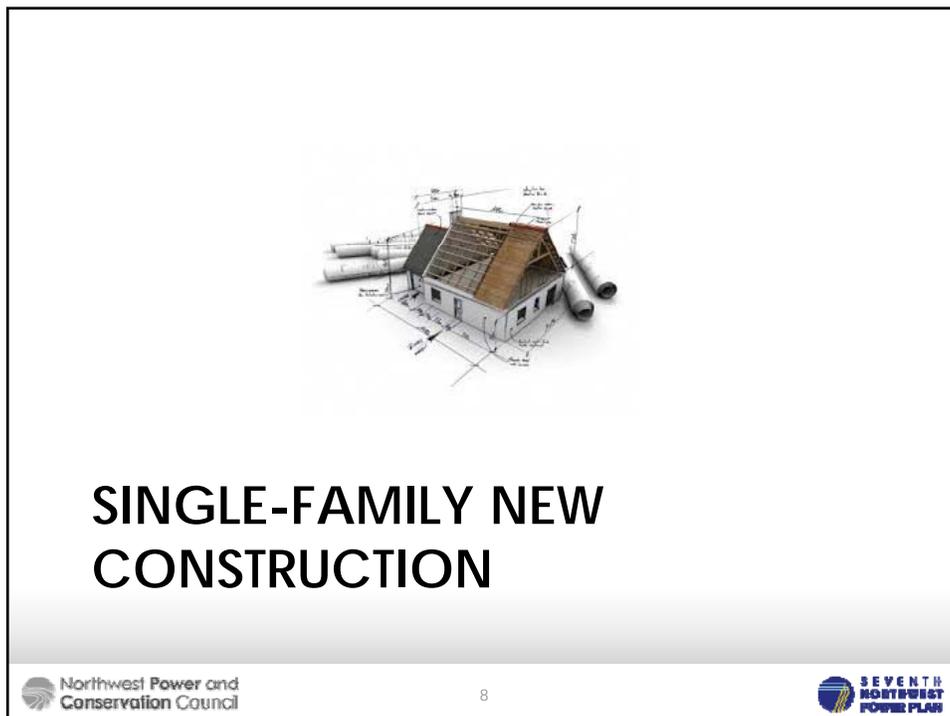
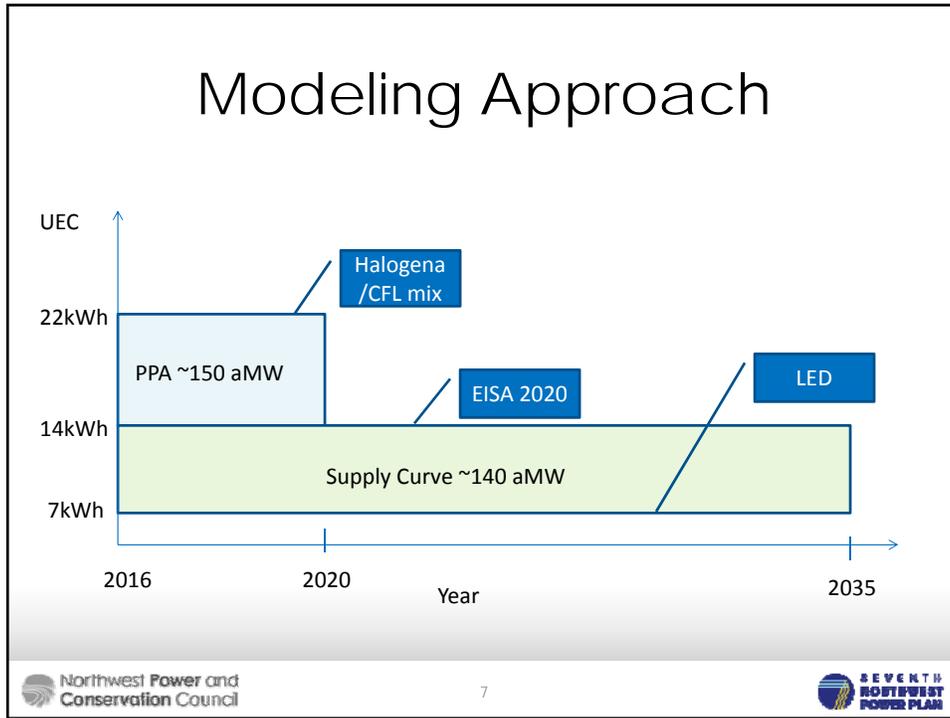
## Measures

- **General service lighting:**
  - Assume baseline is 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 6<sup>th</sup> 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**