

Work Plan for Small New Commercial Buildings

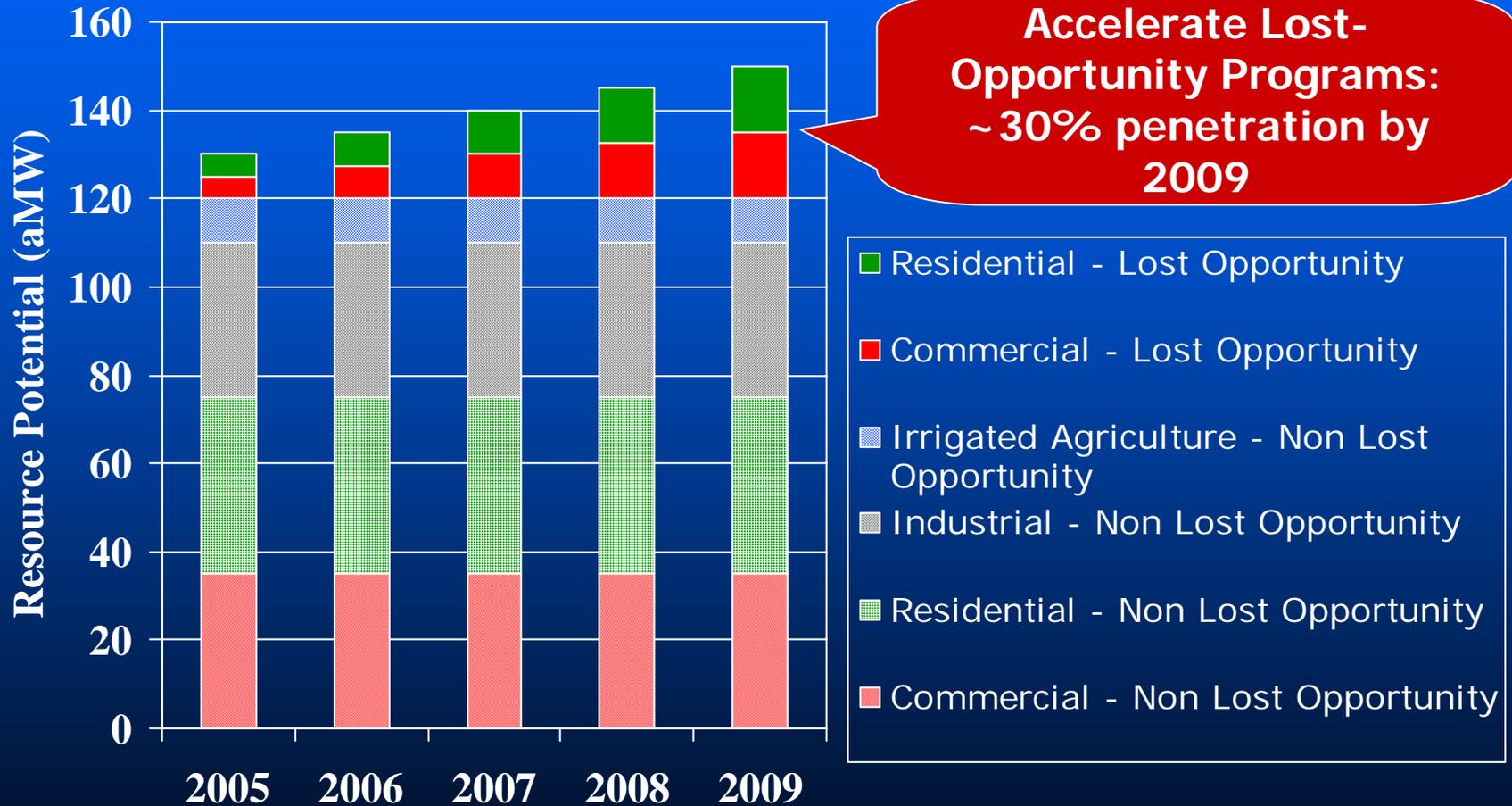
Regional Technical Forum

May 16, 2005

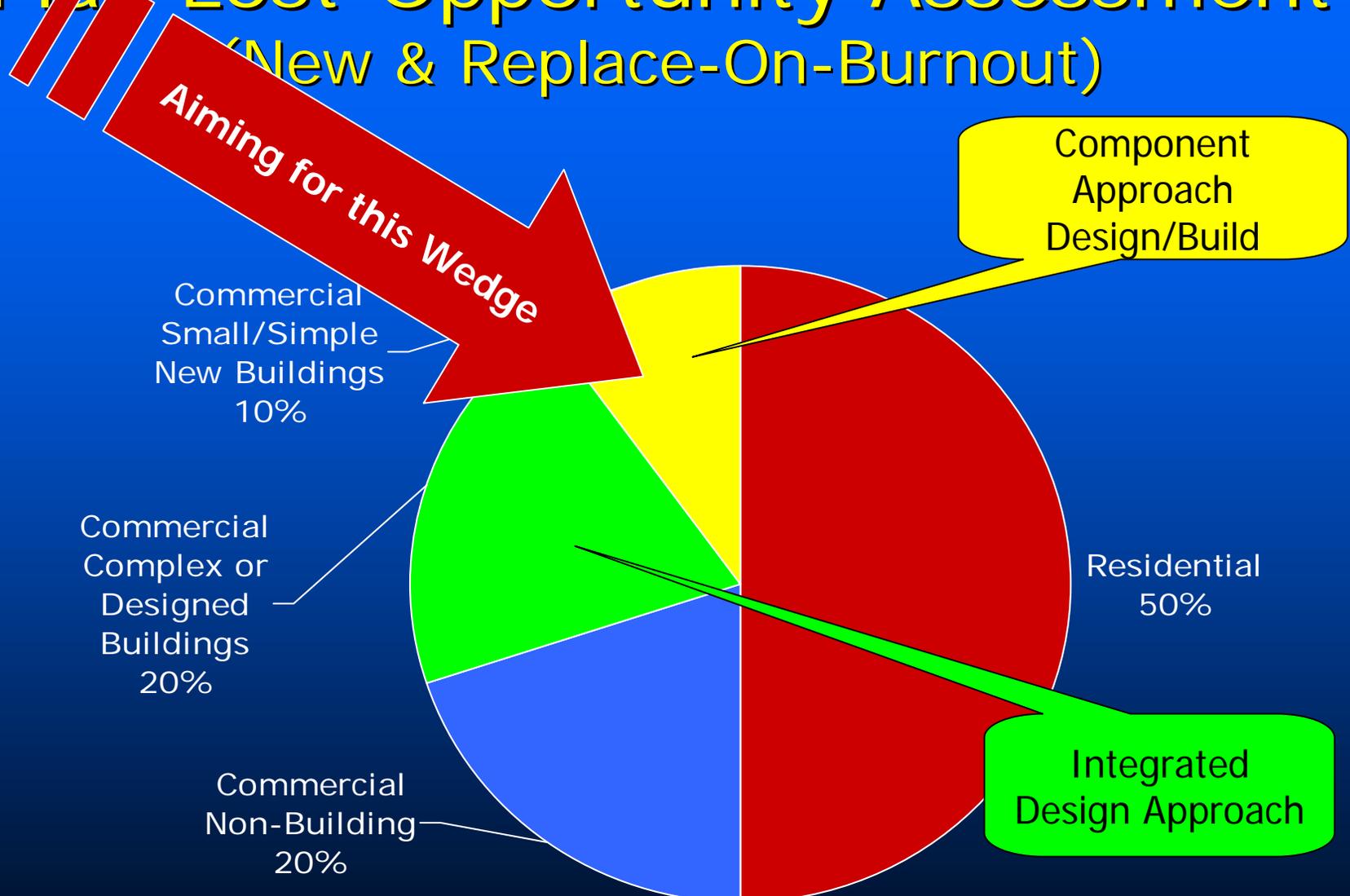
Objective

- Easy-to-Use method to estimate energy savings for common new small commercial buildings
- Couple with program marketing & deployment
- Typical offices, retail, warehouse, other types
- Typical savings from package of measures
 - Better than code or standard practice
 - Available technologies & applications
 - Broadly applicable
- Programmatically simple to apply
- Focus design-build, & contractor communities

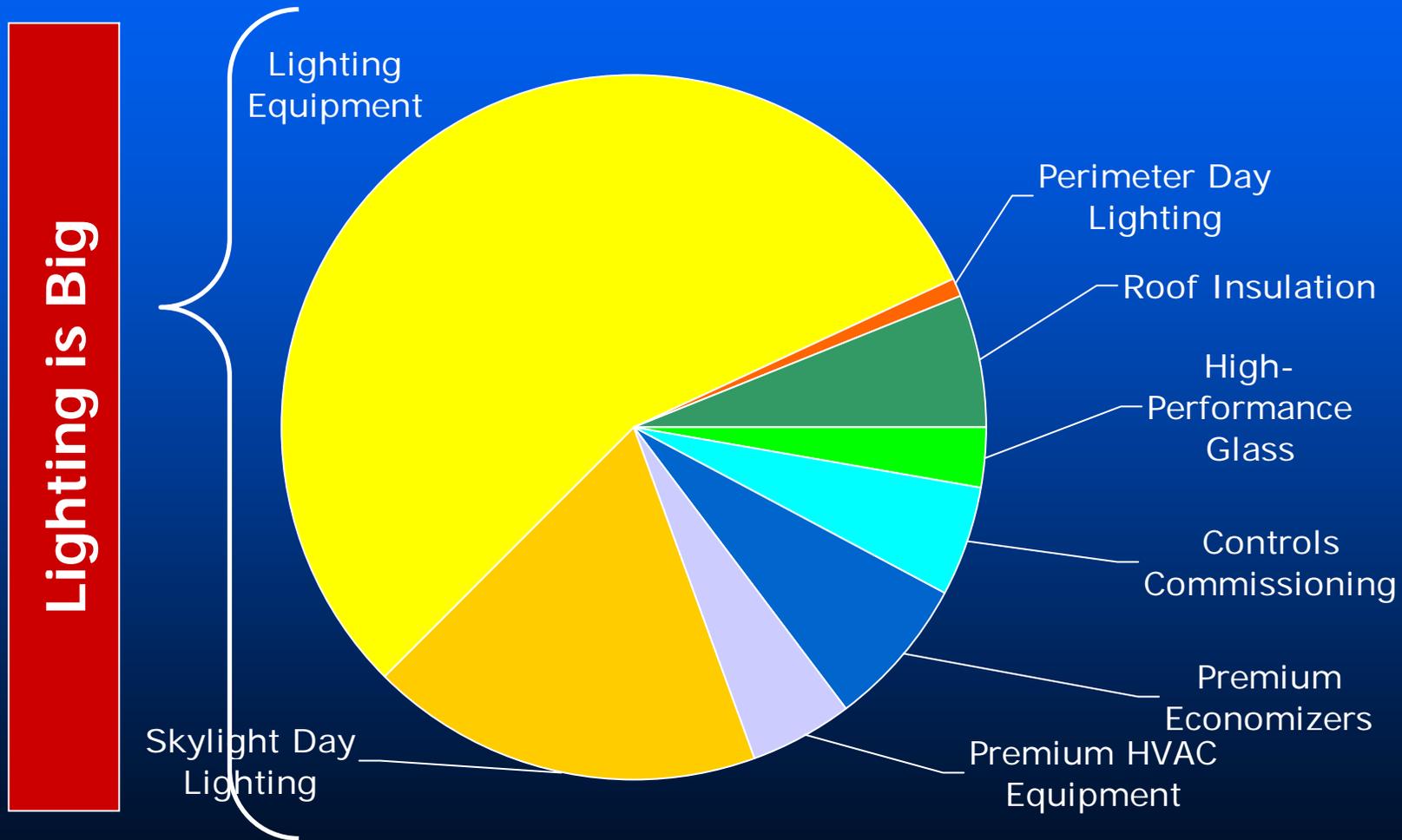
Regional Conservation Resource 2005 – 2009 Acquisition Targets 700 MWa Total, 100 MWa Lost-Opp



Plan Lost-Opportunity Assessment (New & Replace-On-Burnout)

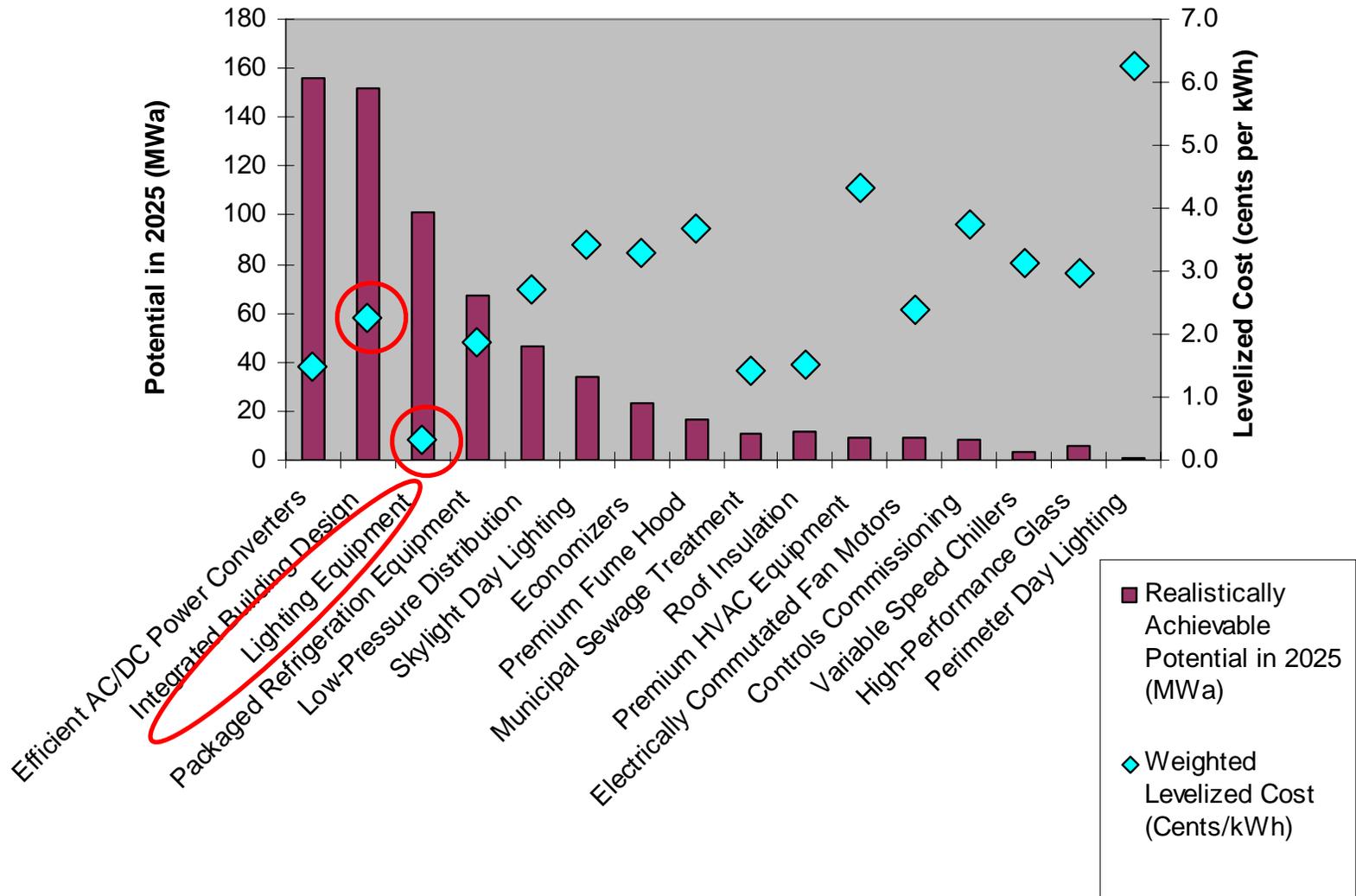


Lost-Opportunity Potential in New Commercial Buildings by Measure (Component Approach)

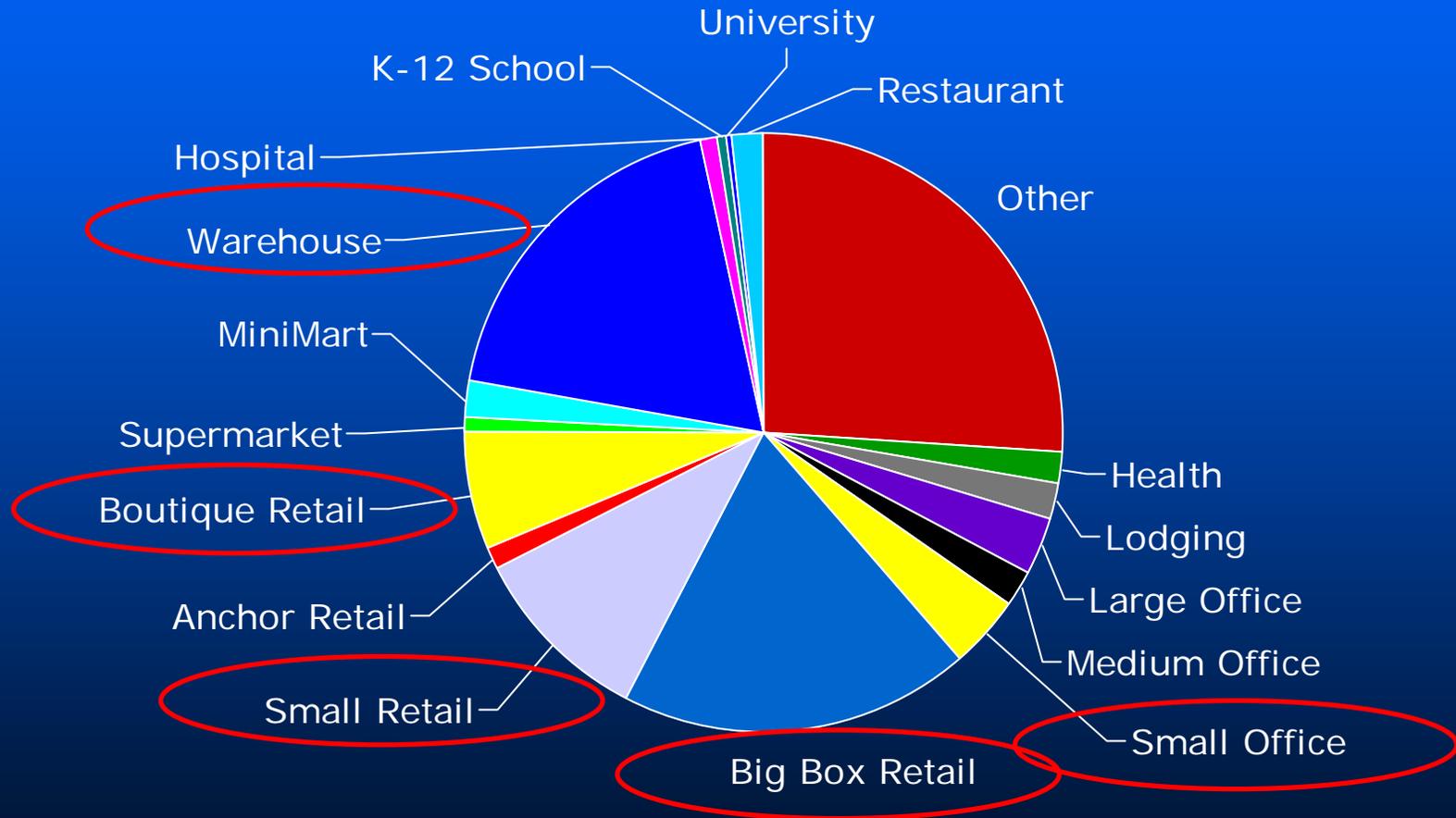


Lighting is Big

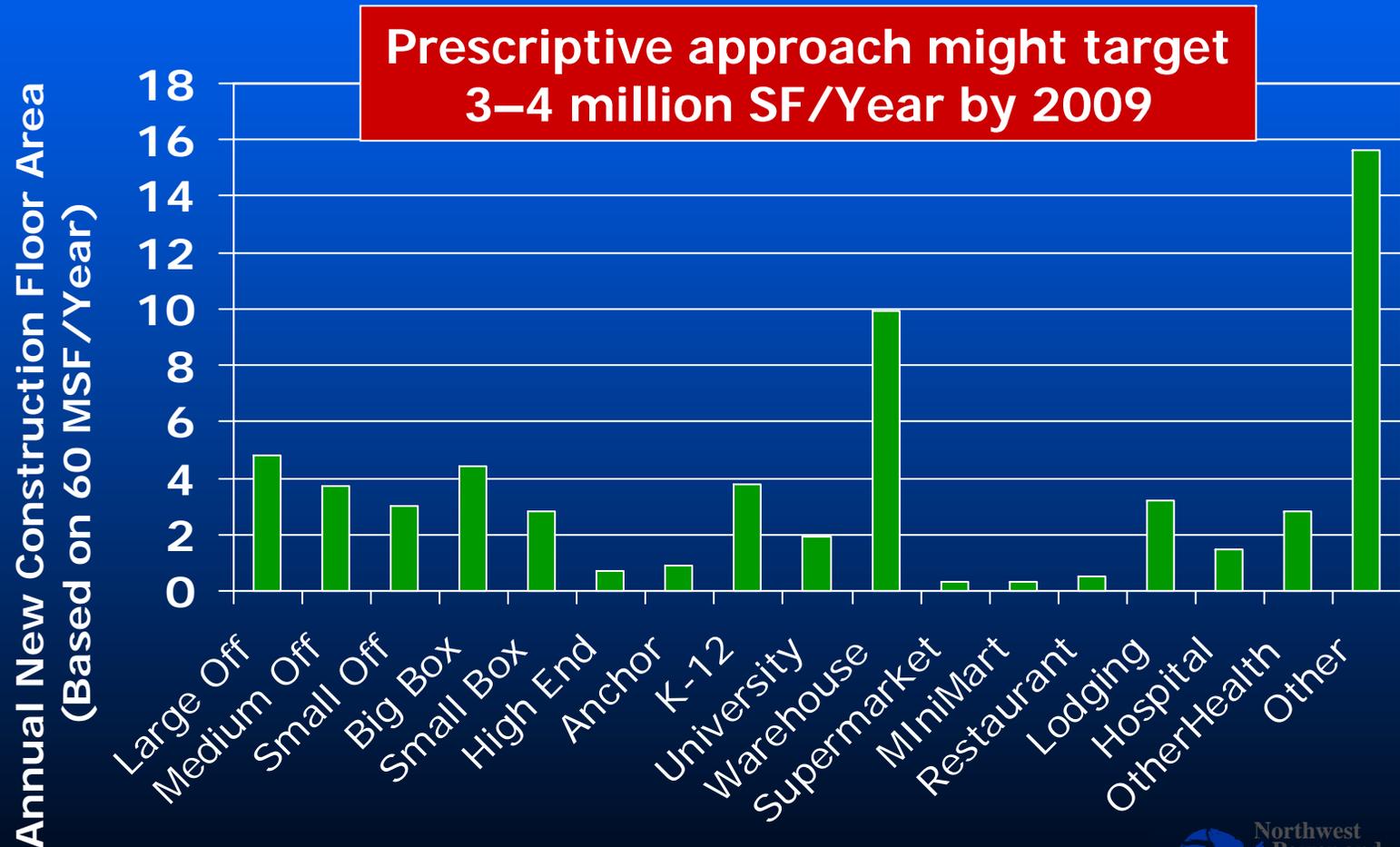
Plus Lighting is Cheap



Lighting Equipment Potential in New Buildings by Type (Component Approach)



New Physical Units: 40 to 80+ Million SF/Year 2000 to 4000 New Buildings/Year



Issues

- **Baseline**
 - Codes & standard practice differ between areas
- **Ownership & Development Patterns**
 - Chains & Franchises, Spec Space, Build-outs
- **Methodology**
 - Menu Driven
 - Modeling Driven

Work Plan Elements

- Convene volunteers for initial scoping
 - Small group experienced, interested
- Review best practices PNW & US
- Consider options
 - Prescriptive: NBI Advanced Building Guidelines, ASHRAE High-Efficiency Office, and others
 - Model Machine: Protocols & system for model-based analysis & qualifications (like CA)
- Pick approach
- What business types to target first
- How to fund development

Need Volunteers

- Your Name Here