

INSTITUTE FOR
Electric Efficiency

Direct Energy Savings Opportunities for Utilities for Codes and Standards

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2010 Midwest Energy Solutions Conference

January 14, 2010

Different looks at energy efficiency savings potential by 2020

- Energy efficiency potential forecasts
 - EPRI: EE savings due to programs: 372 TWh (maximum achievable) by 2020 (Jan. 2009)
 - IEE: EE savings due to codes and standards: 293 TWh “saved” by 2020 (Dec. 2009)
 - 20% codes, 80% standards
 - 82% retrofit, 18% new construction (comm. and residential only)
 - McKinsey: 1,080 TWh “saved” by 2020 with an up-front investment of \$520 billion (July 2009)

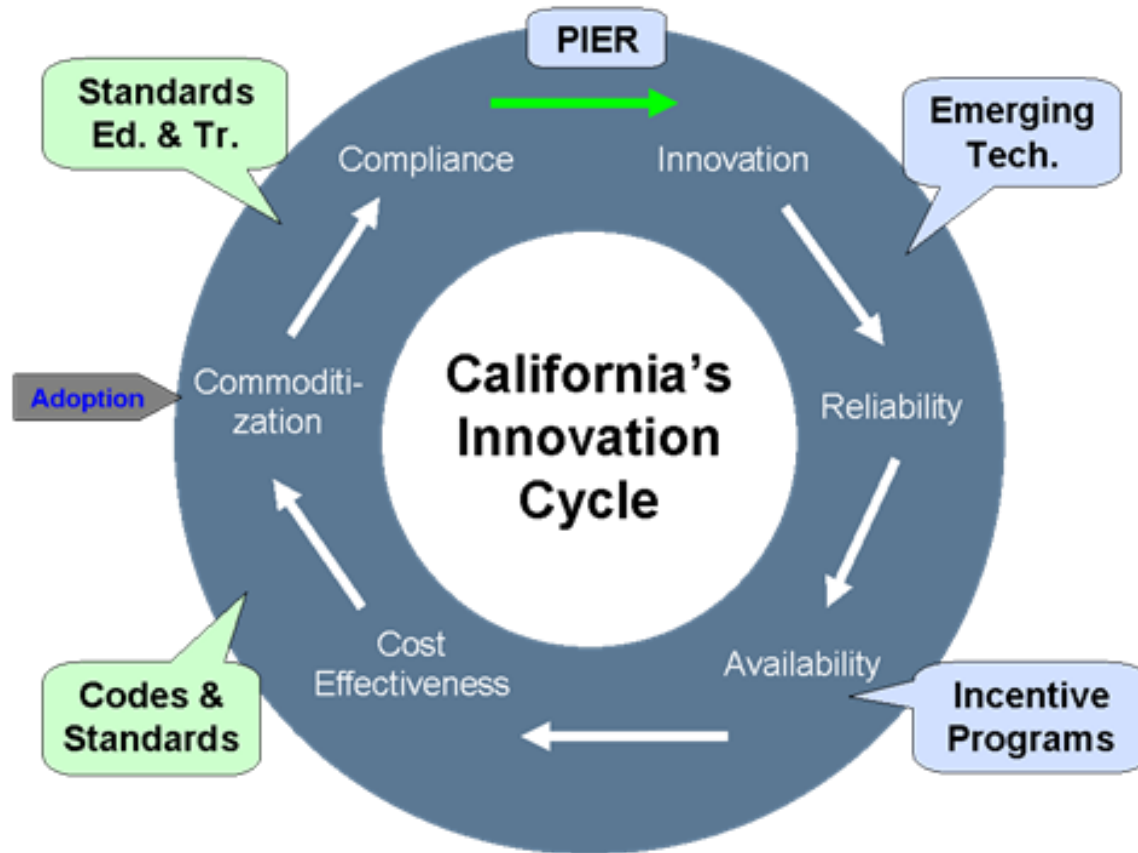


Important question from electric utility perspective

- How could codes and standards and utility energy efficiency programs work together to achieve efficiency?
 - On the face of it, aggressive C&S displace traditional utility EE programs
 - Stringent C&S will capture low hanging fruit and shift the baseline or starting point for utilities



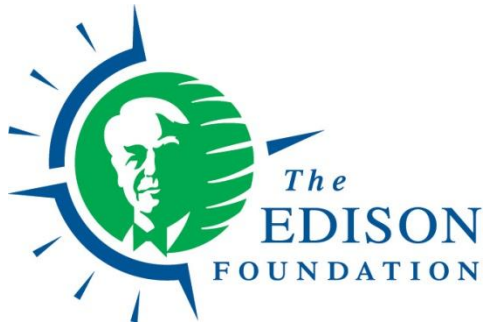
One approach – utility role in advancing codes and standards is integrated in EE lifecycle (CA)



A few thoughts for utility role

- Incorporate codes and standards program as part of EE portfolio
- Involve regulatory commissions in considering role that utilities could play in advancing codes and standards
- Possible markets for advancing EE beyond the basics
 - Retrofit market – tough to address but offers significant opportunity (even after more stringent standards)
 - Super efficient technologies – utilities can encourage development and adoption of cost effective advanced technologies





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