Residential Lighting MT Evaluation

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Research 4 Results

Overview

Ten years of residential lighting evaluations

- An ongoing **quasi-experiment** with a **comparison group** in another jurisdiction used to inform detailed engineering algorithms

- **Annual participant & non-participant customer surveys** to address purchase & installation of CFLs & attitudes towards CFLs;

- **In-situ metering** to address hours of use, load shapes, peak demand & peak coincidence and take back;

- **Annual participant & non-participant shelf stock surveys** to address information on types, shares, prices & wattages of lamps; and

- **Bi-annual residential end-use (appliance saturation) surveys** to address penetration of technologies

- **Intermittent participant & non-participant trade ally surveys** to address market barriers
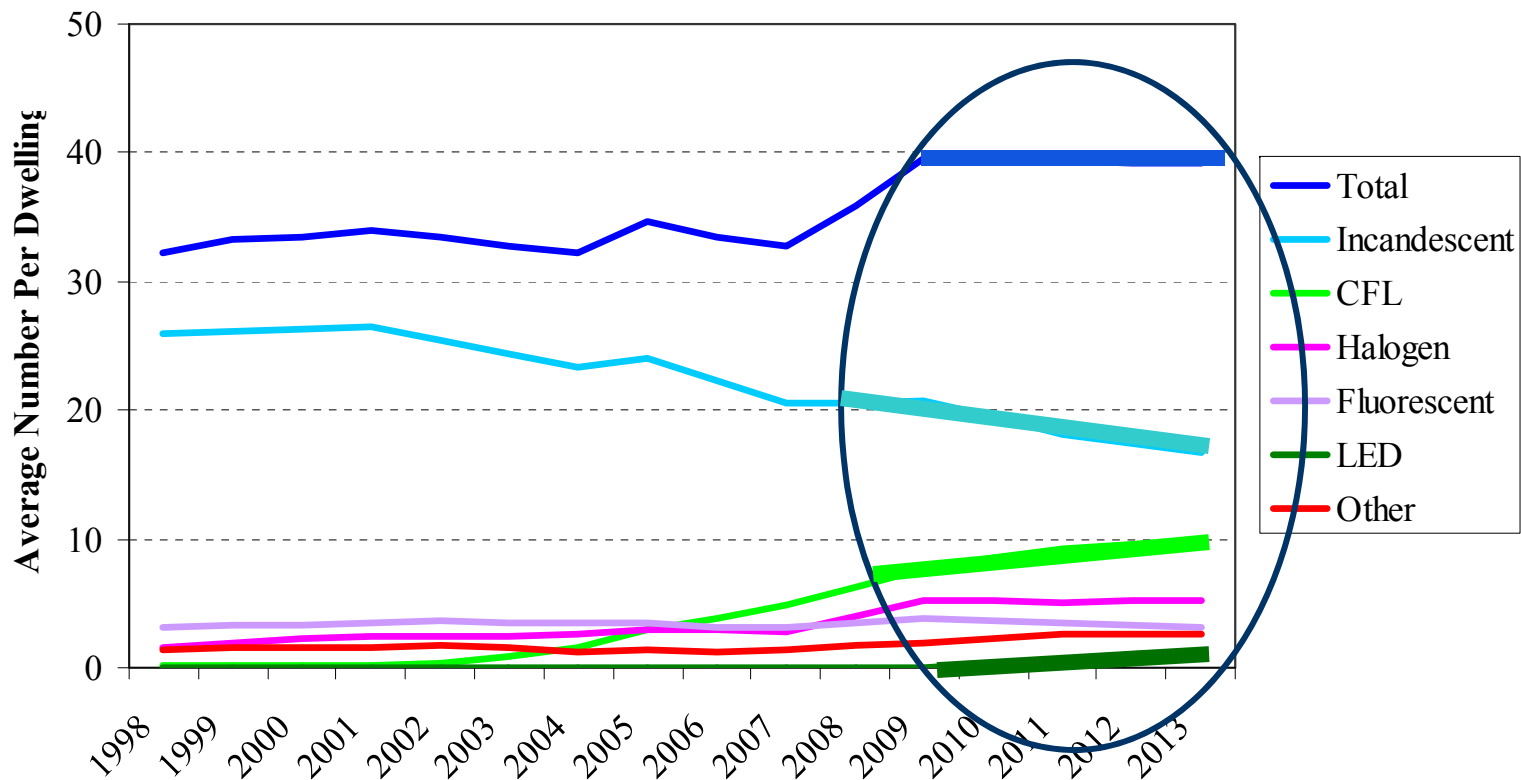
Market Transformation Assessment

Residential Lighting Energy Savngs
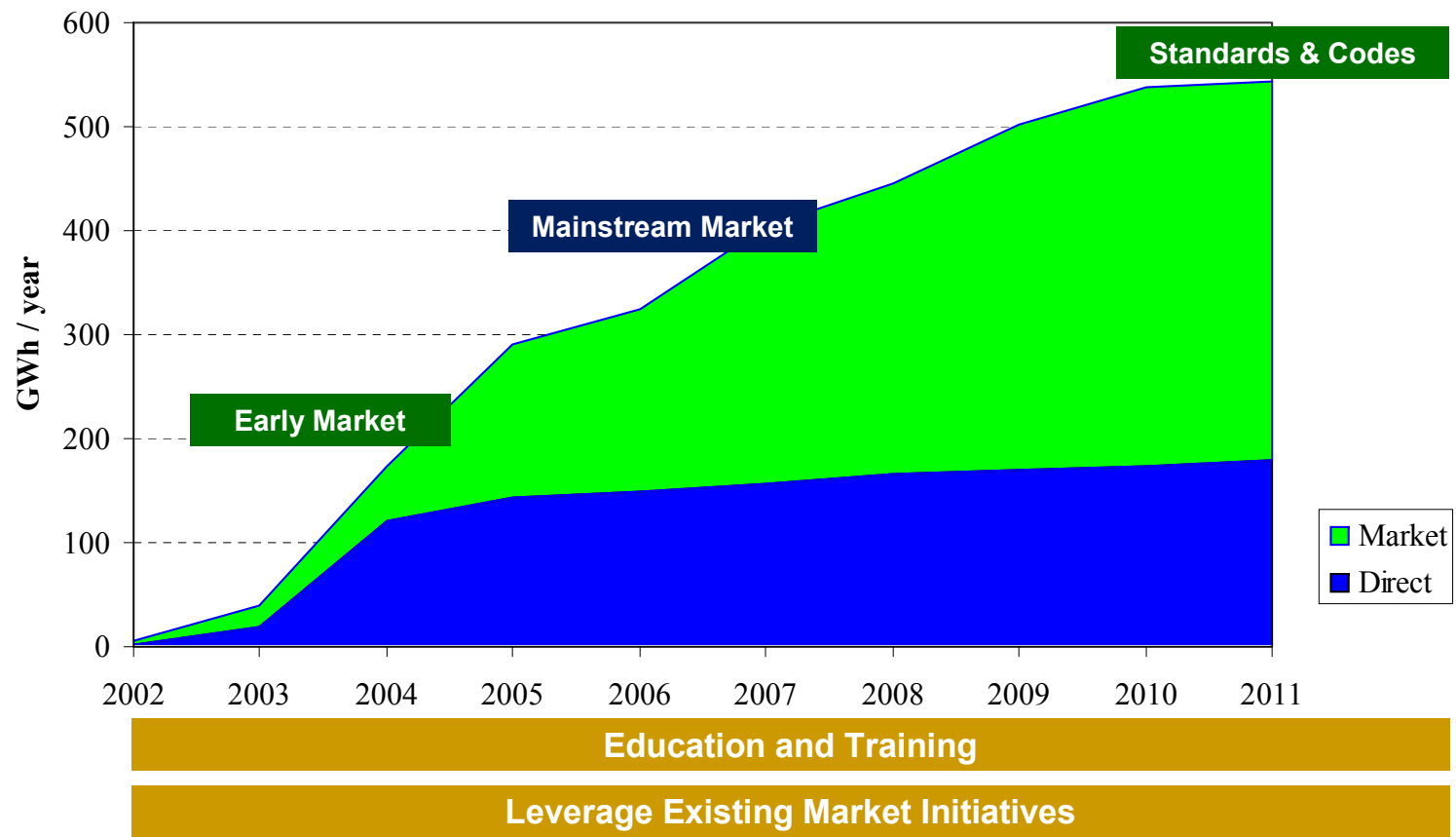
Residential Lighting Market Overview

Residential Lamp Penetration

Research 4 Results

ACEEE MT 2015

Advocating Ongoing Monitoring

- Key MT metrics at the market level e.g., penetration

- Multi-lines of evidence (data sources)

- Key MT metrics by technology

- Use of **comparison groups** to validate complex causal hypotheses

  - Estimated energy & demand savings
  - Customer awareness, purchase intent, purchase behaviour & the like
  - Customer installation & use of technologies
  - Trade ally awareness, stocking behaviour, sales, prices, market share & the like

Research 4 Results