EPA – ITI Road Mapping Exercise Track 2: Intelligent Efficiency through System Integration

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Conclusions

- While there are still achievable savings for some products, the new frontier of low hanging fruit is in intelligent efficiency which is ICT enabled

- When people purchase products or services that can offer intelligent efficiency it is usually not for the energy efficiency benefit but for increased amenity

Conclusions

- Impractical to label systems which deliver energy efficiency unless the system is physically confined (buildings)

- Some opportunity for refinement of product specifications/test methods to avoid disincentivizing capacity for system efficiency

- Opportunity for education about best practices to capture system efficiency

Proposed Work Plan

- Look at the research and engage energy efficiency experts:
  - Identify case studies – 20-50 real life examples of intelligent efficiency & associated energy savings
  - Develop criteria, objectives, and guidelines to winnow the list of case studies down to 5-10, e.g.
    - Assess fit with ENERGY STAR current or future product categories
    - Look for opportunities that offer the largest energy savings
- For those selected cases, flag where interoperability standards are needed and where product specifications and test methods could be updated
- Identify usage pattern data that exists and what is needed
- Develop best practice education & recognition
  - Across the value chain and ecosystem – decide on intended audience
  - Original target was product/systems of small and medium enterprises
- Look for opportunities for new business models creating value through intelligent efficiency

Next Steps

- 2-3 conference calls, some develop case study and research repository, list serve, hold in-person brainstorming session

- …In 6-months, develop document proposing plan moving forward