

WHPA FDD Committee

04-24-2017 Mtg

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FDD Committee Industry Roadmap

- California Long-Term Energy Efficiency Strategic Plan (CLTEESP)
- Onboard and In-Field Fault Detection and Diagnostics—Industry Roadmap
 - Approved July, 10 2013
- May be out of date
- Research and Technology Action Plan
 - Research costs and benefits of metering, fault detection and diagnostic (FDD) systems and tenant sub-metering for lighting, HVAC and plug loads (develop case studies to substantiate costs and savings)

FDD Committee Industry Roadmap

- Industry Partners
 - OEMs
 - Third Party Developers
 - Other Industry Stakeholders
- Researchers
- Users
- Government
- Utilities & Partner Organizations

FDD Committee Industry Roadmap

- CLTEESP Strategies and Goals
 - (HVAC) industry...maintenance (is) of the highest quality to promote energy efficiency and peak load reduction
 - Develop nationwide standards and/or guidelines for onboard diagnostic functionality and specification for designated sensor mount locations.
 - Prioritize in-field diagnostic and maintenance approaches

FDD Committee Industry Roadmap

- Lack of Standards – testing and terminology
 - Title 24 standards
 - ASHRAE Standards Committee
 - Coordination with other groups
 - Consortium for Energy Efficiency, Energy Star

FDD Committee Industry Roadmap

- Lack of Customer Pull
 - Maintenance Behavior Research – Contractor and Customer
 - Research into Fault Incidence
 - Market Acceptability Research
 - Pilot program and FDD rebate program

FDD Committee Industry Roadmap

- Lack of Validated Protocols
 - Diagnostic Protocol Evaluator Project
 - Collect and Disseminate Field Data
 - Benchmark and Assess Existing Protocols
 - Create Gap Analysis of Existing Protocols

FDD Committee Industry Roadmap

- Lack of Integration with Existing Systems
 - Diagnostic Protocol Evaluator Project
 - Work with Manufacturers to Enhance Maintainability
 - Institute Voluntary Industry Agreement to Deliver Changes
 - In-Field FDD and Maintenance Study
 - Work with OEMs to Develop Products

Thank You

QUESTIONS?