

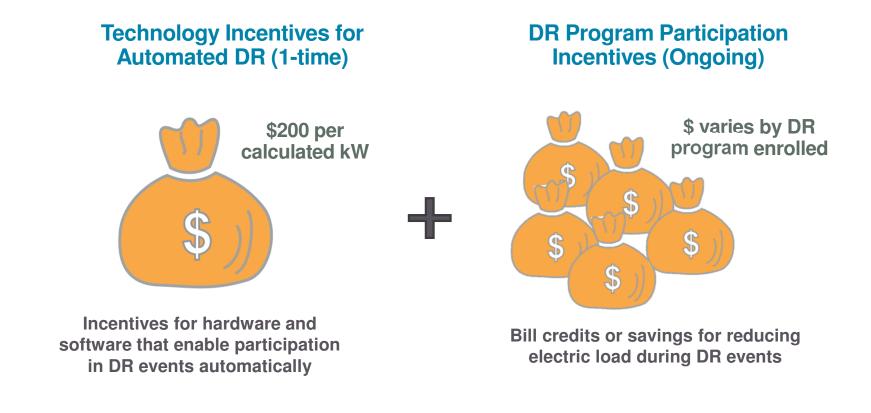
OPENADR IN TITLE 24

Implications on ADR Technology Incentive Implementation

April 24, 2018

OPENADR ALLIANCE MEMBER MEETING Drivers of OpenADR Adoption ENERGY SOLUTIONS Kitty Wang, PE

UTILITY INCENTIVES FOR DEMAND RESPONSE



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ADR INCENTIVES: ELIGIBLE COSTS

Costs Offset by ADR Incentives

- Hardware for HVAC, lighting, and other controls upgrades
- Telemetry hardware
- Labor for installation and commissioning
- Project management costs



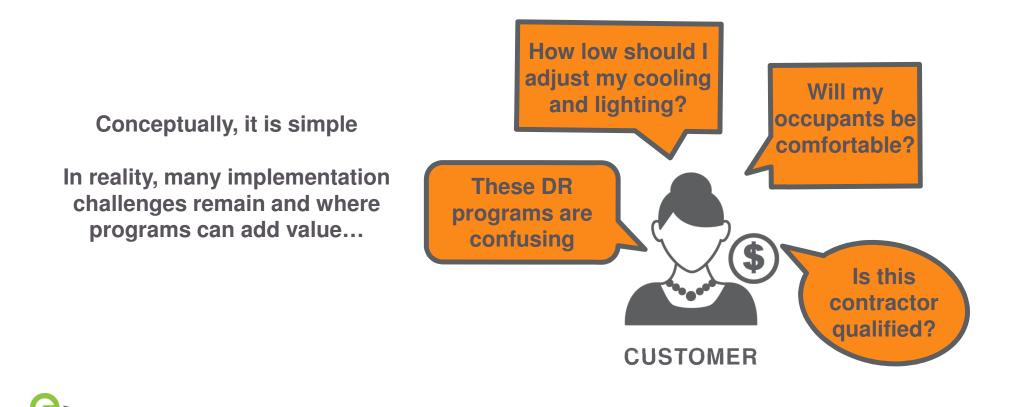


ADR PROGRAM: COMMITMENTS OPERATORS MAKE

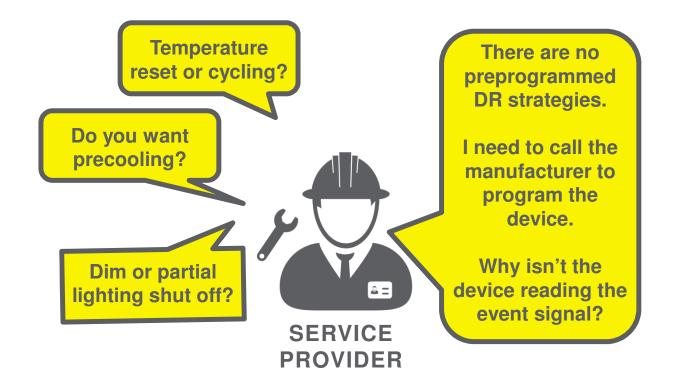
Commitment	Details
Participate in a qualifying DR program for at least 3 years	 Directly with utility: Peak Day Pricing/Critical Peak Pricing Only with an aggregator or DRP: Capacity Bidding Program Excess Supply Pilot Supply Side Pilot Demand Response Auction Mechanism
Adjust operations during a DR event	 Conditions vary by DR program ~15 events / year Usually May 1 - October 31 Usually 11AM - 7PM 1 - 6 hours duration Notification: day-ahead or day-of



IMPLEMENTING ADR

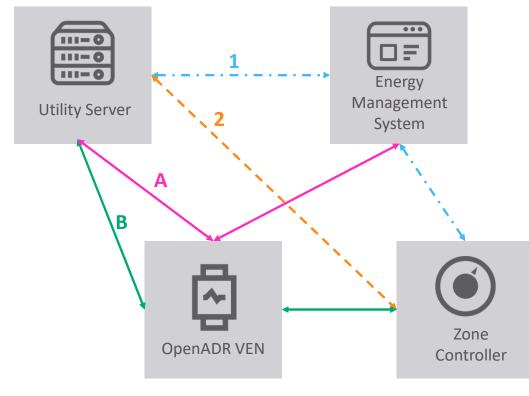


PROGRAMMING THE DR STRATEGY





CONFIGURING THE TECHNICAL SOLUTION







WORKFORCE DEVELOPMENT



Monitor And Enforce Rigorous Quality Standards



HANDS-ON TRAINING to build capabilities with equipment

UNDERSTAND AUTO-DR

concepts, methods, perspectives



PROVIDE SUPPORT

to create success stories that can be shared broadly



KEY SERVICES FOR PROGRAMS



...we need to get devices **PROGRAMMED AND ENABLED**



...we need to develop the SUPPLY-CHAIN



...we need to manage the CUSTOMER EXPERIENCE



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