

Converge Presentation to CEC

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Converge Introduction

- Comverge is a leading provider of both Residential/Small Commercial and C&I Demand Response.
- On the Residential side:
 - Over 5M devices in the field
 - Recruited over 1.25 M customers for Direct Load Control Programs
 - Installed 220,000 devices in a single year
 - Provided control to 32 GW of peak energy in 2012
 - Achieved penetration rates over 30% of addressable market
- Worked with all 3 Ca. utilities



Our program experience

Converge has experience with multiple program types and multiple technologies.

Prog/Technology	Thermostats	AC Switches	Pool/Water Heat.
Turnkey Direct Load Control	X	X	
Price Response (CPP)	X		X
Pay for Performance DLC		X	
Real Time Pricing DLC		X	



Residential Market Considerations

- Residential/Small Commercial (R/SC) has attractive attributes
 - Significant driver of the peak
 - Incremental capacity addition from day 1
 - Resource increases with temperature
 - 100% automated for fast dispatch and reliability
 - Load only, no generation
 - Available for many hours (>50/yr)
 - Proven for years across the country
- Residential program has higher initial cost vs. C&I but lower long-term costs.
- R/SC substantially less than a peaker with comparable operational capabilities.
- R/SC DR has strong potential for EE synergies.



What we've learned

- Given a choice between Switches and PCT's, majority (60%-40%) choose Switches.
- If participants in DLC can opt out easily, they will (30% opt out at PCT, vs. <1% by calling).
- Pricing (CPP) has fewer event opt outs but variable pricing is a harder sell than DLC.
- Too many options cause confusion and inhibit sign ups.
- Residential programs have qualified for WECC ancillary services (<10 min. response, guaranteed quantity).



What we recommend

- Since market potential is limited (15-25% initially)
 - Recruit into highest value program (guaranteed, fast response, predictable) first.
 - Then add other programs over time.
 - Plan the rollout in advance, multiple messages add confusion.
 - Customer education plan that meshes with goals.
- 3rd party outsourced, Pay for Performance model for both customers and for Curtailment Service Provider, (i.e. pay for delivered kW only).
- Provide mechanism to value synergy between EE and DR.

