



SOUTHERN CALIFORNIA
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OpenADR 2.0 Projects at SCE

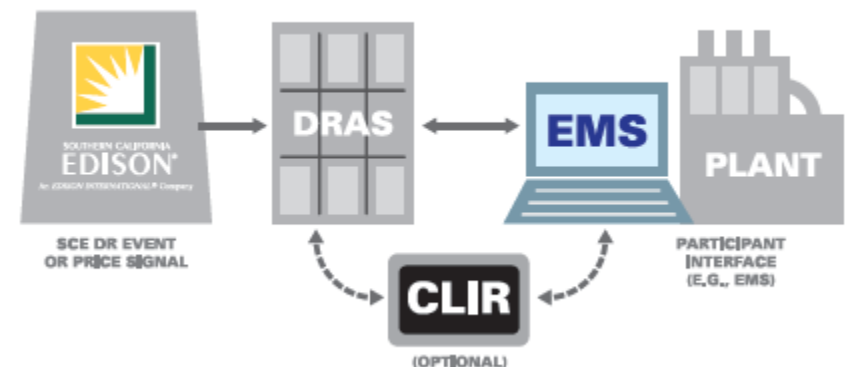
OpenADR Alliance Member Meetings

San Jose, CA

June 18-19, 2014

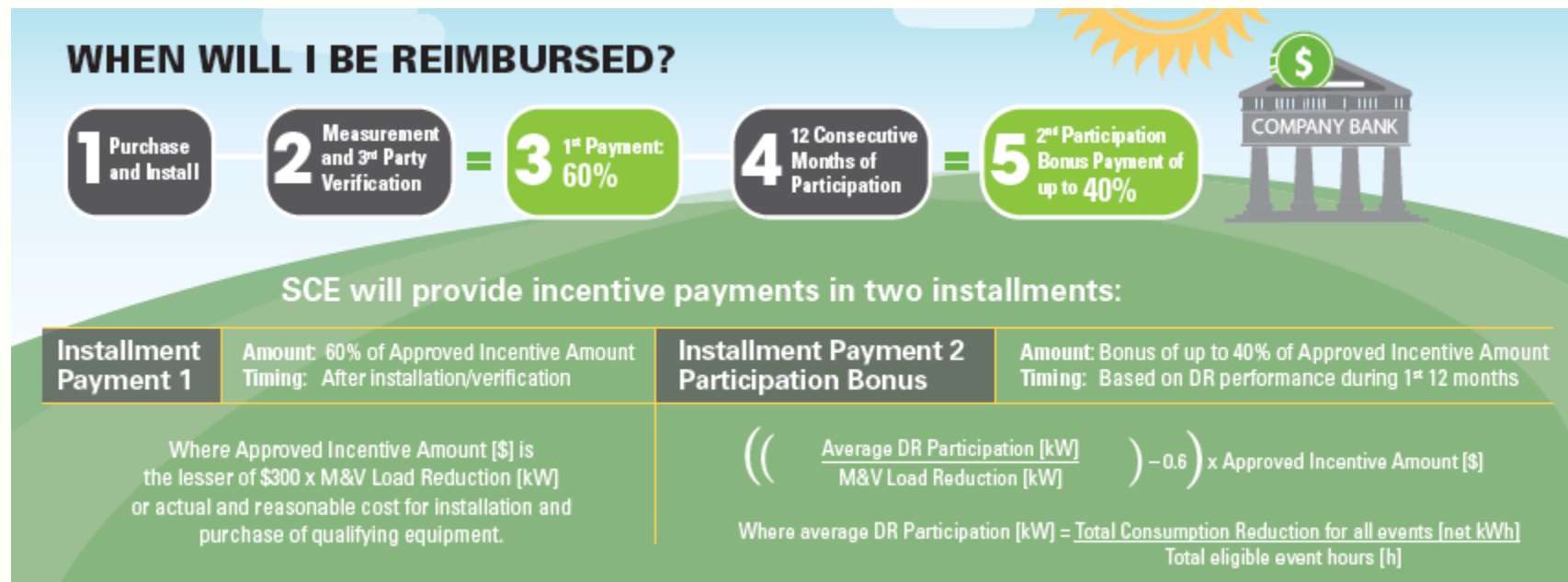
Auto-DR Program

- Began in 2007 utilizing OpenADR 1.0 for large commercial/industrial customers (>200 kW)
- Supports 5 DR Programs:
 - Summer Advantage Incentive (Critical Peak Pricing)
 - Demand Bidding Program
 - Capacity Bidding Program
 - Real Time Pricing
 - Aggregator Managed Portfolio (formerly DR Contracts)



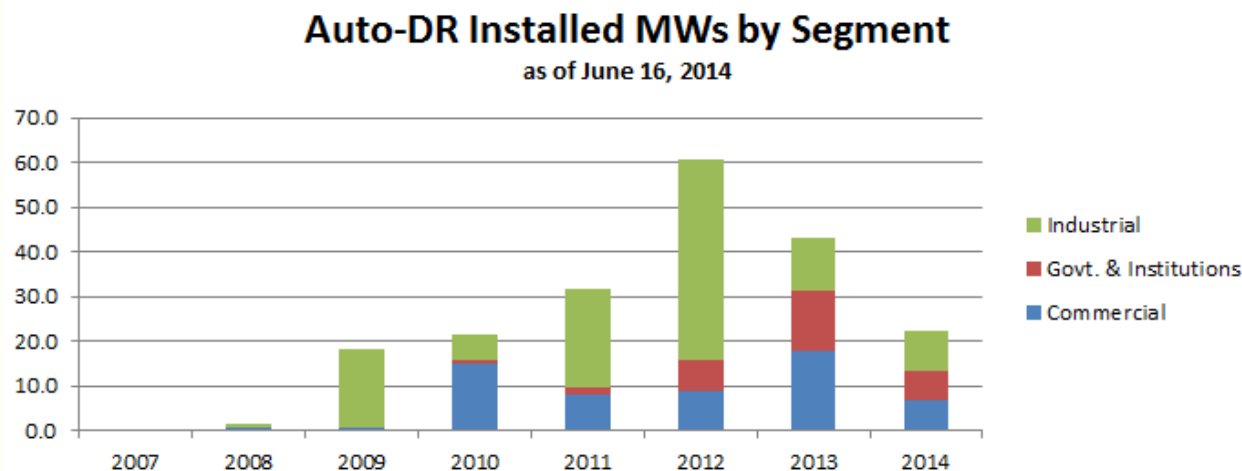
Auto-DR Program

- Technical Incentives available up to \$300 per kW of verified load reduction (up to 100% of project costs)
 - 60% of technical incentive paid after installation
 - 40% pro-rated based on participation after 12 months
 - Requires 3 year commitment to DR program



Auto-DR Program

- Transitioned to OpenADR 2.0 (January 2014)
 - OpenADR 2.0a implemented
 - OpenADR 2.0b update being tested
- Deployments in Progress
 - 11 Applications received since 1/1/14
 - Total Estimated Project Costs = \$1.8M
 - Total Estimated Incentive Payments = \$1.3M

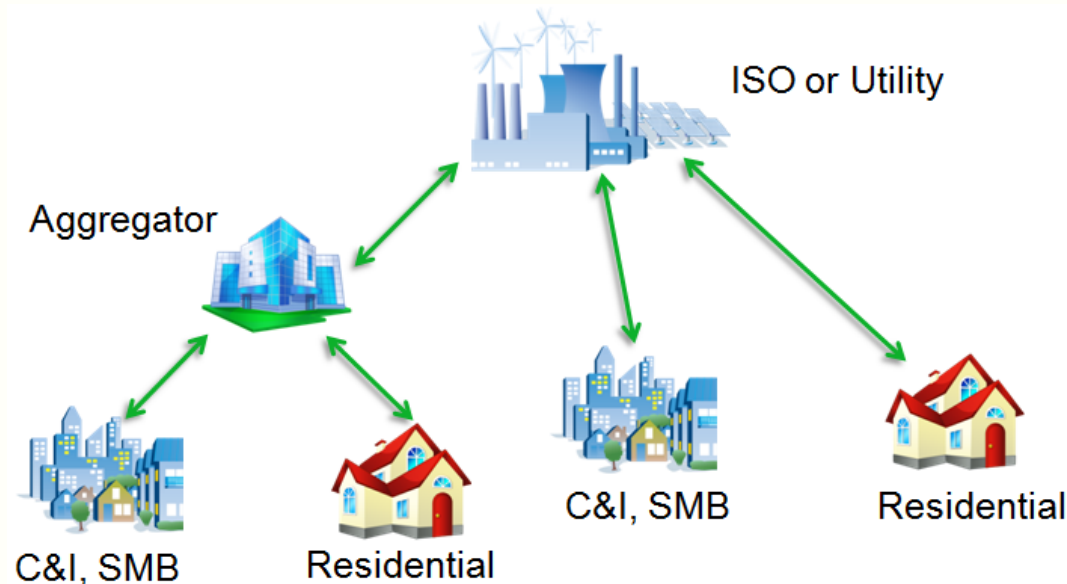


Auto-DR Express Program

- Utilizes predetermined DR (kW) savings for specific strategies
 - Lighting Controls (20%, 30% or 40% reduction)
 - Degree offset for thermostats (4, 5 or 6 degrees)
 - HVAC duty cycle (10, 15 or 20 minutes)
- Technical Incentives up to \$300 per kW based on:
 - Maximum kW demand during past 12 months
 - Predetermined (deemed) kW savings in 25 kW increments
 - Climate Zone (based on zip code)
 - 2 hour equipment verification and demonstration

Auto-DR Express Program

- Available for Smaller Commercial Customers
 - Offices 100-400kW (offices less than 100,000 sqft)
 - Retail 100-400kW (stores in strip malls, studios, galleries)
 - Food Stores 100-250kW (convenience and liquor stores)
- Exempt from 60/40 incentive structure

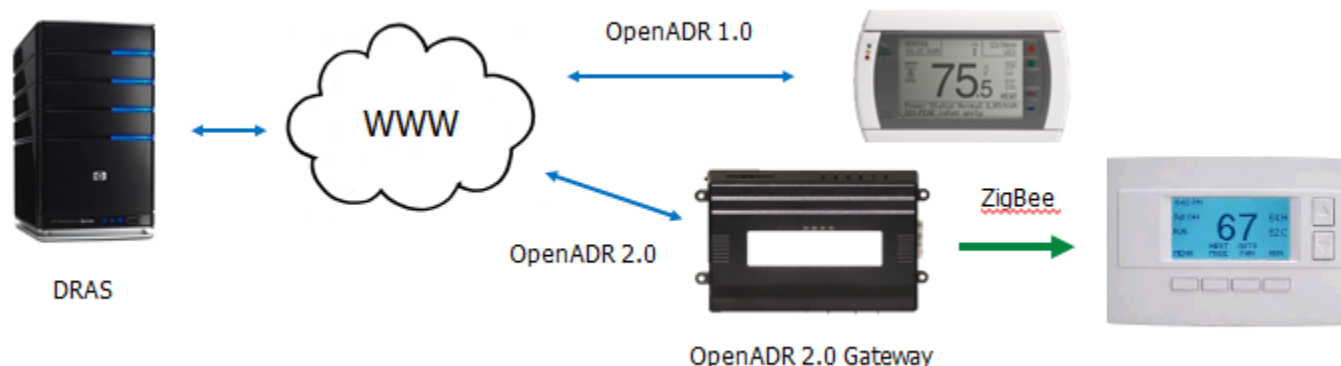


3rd Party PCT Program

- Leverages residential customer purchased and installed PCTs
- Uses existing Peak Time Rebate (PTR) Program
- Recruitment and control strategies handled by 3rd Party
- OpenADR 2.0 signal sent to 3rd Party Cloud
- DR performance validated by interval meter data

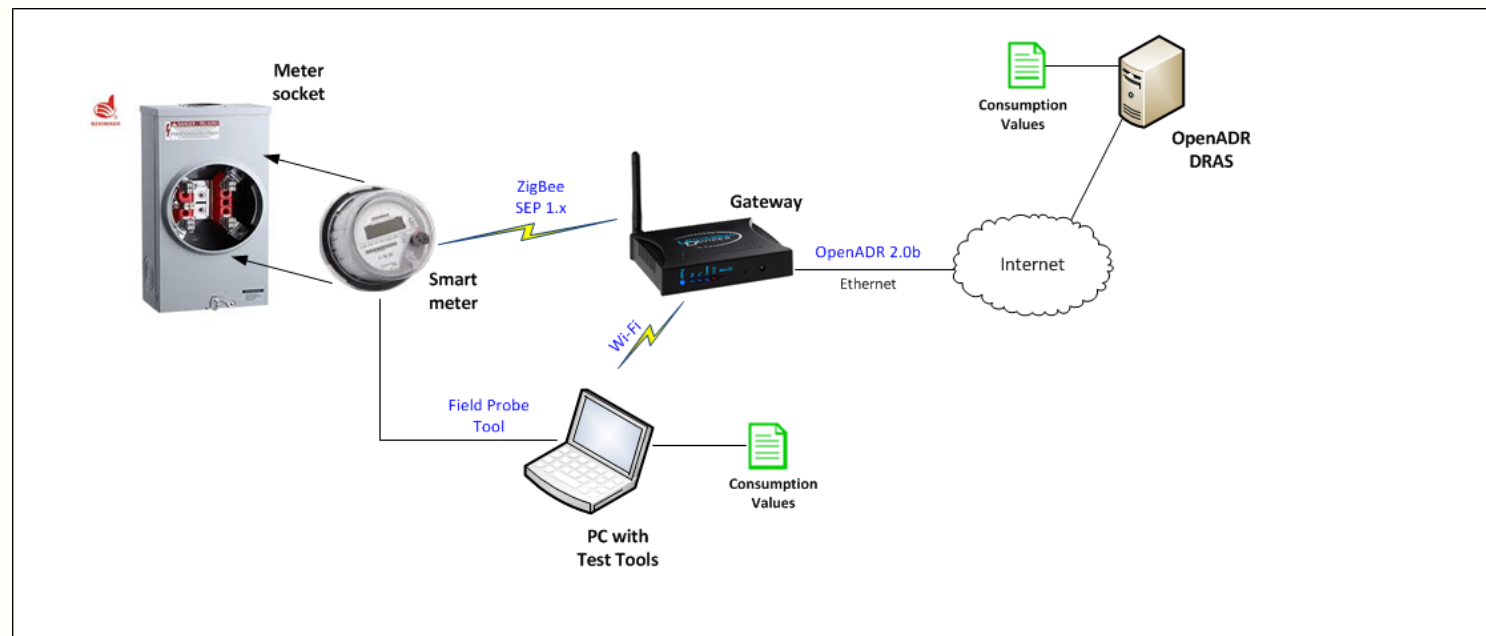
Other Projects

- OpenADR 1.0 PCT for small/medium commercial
 - Completed in 2012
 - Final Report on ETCC website
- OpenADR 2.0 Gateway/PCT for small/medium commercial
 - Completed in 2013
 - Report under final review



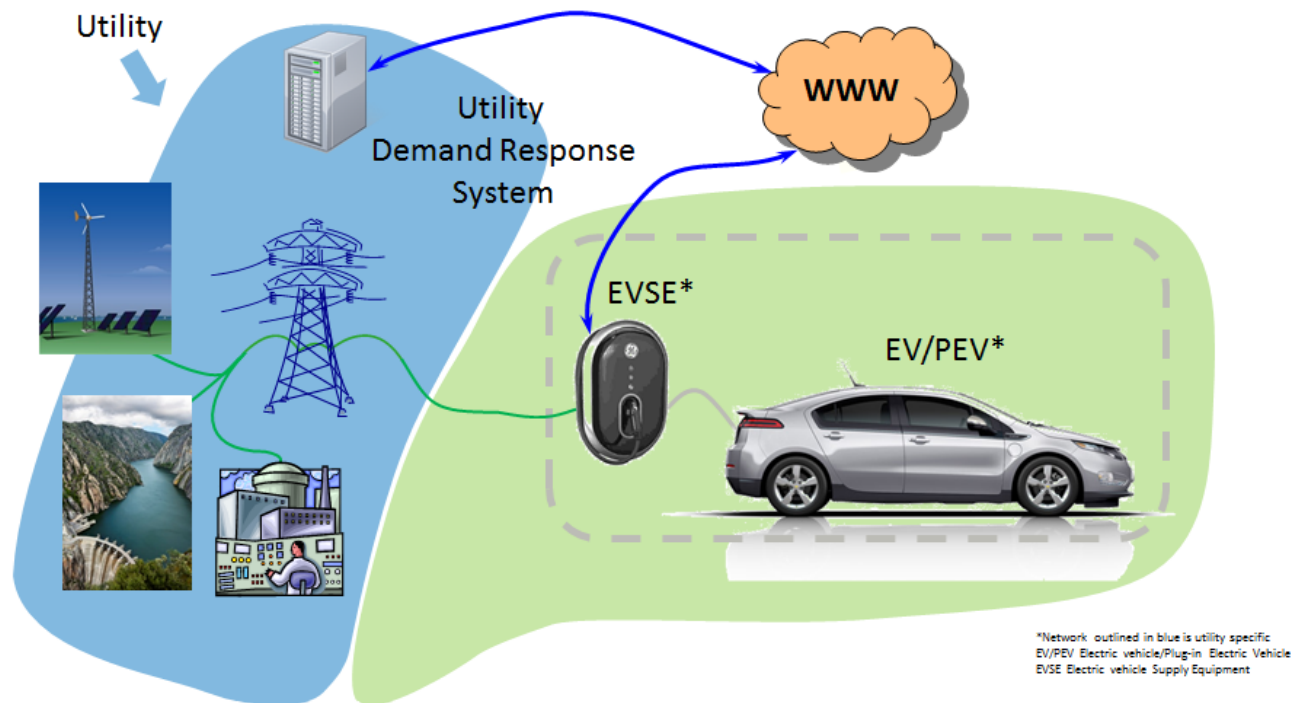
Other Projects

- Completed project using DRAS as aggregation point for KYZ pulse data
- Similar project collecting consumption data from Smart Meters with the DRAS as aggregation point
- Looking at using same design for a mobile app



Other Projects

- Workplace Charging Pilot
 - EVSE as DR resource initiated using OpenADR 2.0
- Smart Charging Pilot
 - Evaluating multiple communication paths to EVSE



Q&A



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