Demand Response Partnership Program (DRPP)

2013 Year End Report

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Program Partners

U.S. Green Building Council
Environmental Defense Fund

Technical Consultant

Skipping Stone, LLC

Program Sponsors

Southern California Edison
NV Energy
Enerliance
MelRok

2013 HIGHLIGHTS

- Signed three additional program sponsors to join DRPP, for a total of two utility hosts and two energy service providers.
- Completed outreach to 572 LEED -registered and -certified buildings, representing 275 million square feet. Representing 51 million square feet, 133 buildings are enrolled, are evaluating enrollment, or have been determined to be DR ready.
- Participated in GreenGov Dialogue on Demand Response hosted by the Council on Environmental Quality (CEQ) at the White House. DRPP was trumpeted by our partner, Elgie Holstein of Environmental Defense Fund, a speaker at the event. http://www.usgbc.org/articles/nod-demand-response-white-house
- Presented on the DRPP at conferences throughout the country, spurring strong support and inquiries of participation. The program is meeting one of its key objectives to bring together the building and energy communities around demand response.
- Entered data analysis and reporting phase with a research pool of 30 buildings agreeing to provide energy usage data and nearly 200 buildings participating in the Building Systems Assessment Survey.
- Energy use data for 14 buildings, representing a total of 125 demand response events, were analyzed. Preliminary results were presented at Greenbuild 2013 in Philadelphia. Analysis will serve as basis for case studies.

LEED CREDIT FOR DEMAND RESPONSE

Project registrations for Pilot Credit 8 have continued to pick up and now total over 300 across the country. The v4 credit EA: Demand Response, was launched at Greenbuild in November amid project teams already inquiring about it. Pilot Credit 8 will continue to be available for teams certifying under LEED 2009.

The requirements of the pilot credit and the v4 DR credit can be viewed in the LEED credit library. One change to the credit from the Pilot Credit to the v4 credit is the removal of the 20kW requirement; teams must still meet the 10% reduction of peak load.

Details on implementation of the v4 DR credit can be seen on the "Guide" tab of the credit page. In an effort to promote the credit, this is one of only three credits with online reference guide content being made available for free. To view this content, simply create a login. The link to the DR credit in the Operations & Maintenance reference guide is here.

OUTREACH OVERVIEW

Direct outreach to LEED -registered and -certified buildings was conducted from April through November via email, phone calls, and site visits. A few insights were gained from the outreach:

- In the Southern California Edison service territory, many LEED projects have already implemented and are content with semi-automated DR (e.g. Kohl's, UCSB, Irvine Company), while many customers utilize a DR aggregator, such as EnerNOC, and are not directly participating with SCE.

- NV Energy commercial customers are interested in going on ADR (only option currently on offer), but the mPowered program is in pilot with specific eligibility requirements that limit participation.

- Many LEED buildings expressed that they are already doing well on the energy efficiency front and that there is not much to be gained in adopting ADR.

- One major commercial property owner voiced that they participate in ADR for the good of the community and power grid (the monetary incentives are too small to be considered an influence on their participation), while others expressed that without incentives ADR is hard to justify economically due to the cost to implement required technology.

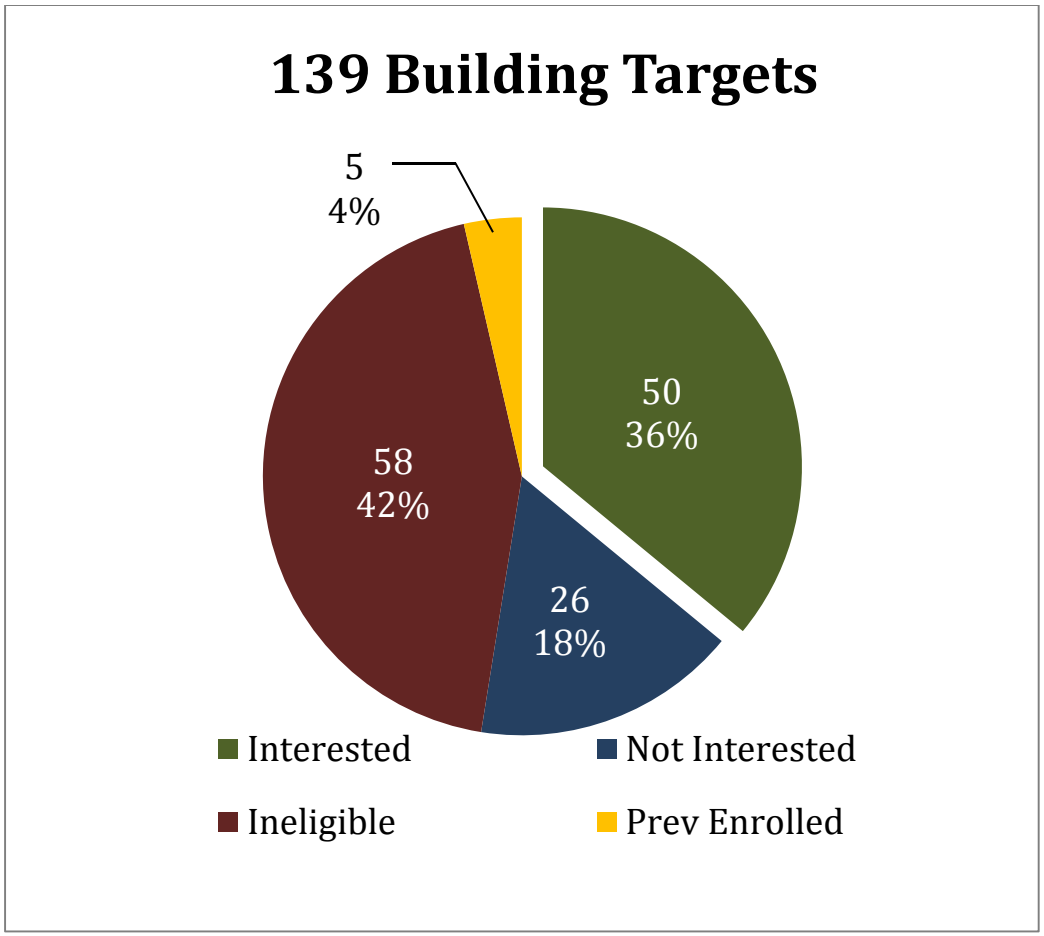
- Several national chains with locations in the NV Energy and SCE territories are considering implementation of Pilot Credit 8: Demand Response.

In 2014, USGBC will continue to follow up with the buildings that did not respond or for which contact information was updated. In addition, an exit survey will be administered to all participating buildings.

Outreach results for each utility service territory are summarized in the pages to follow.

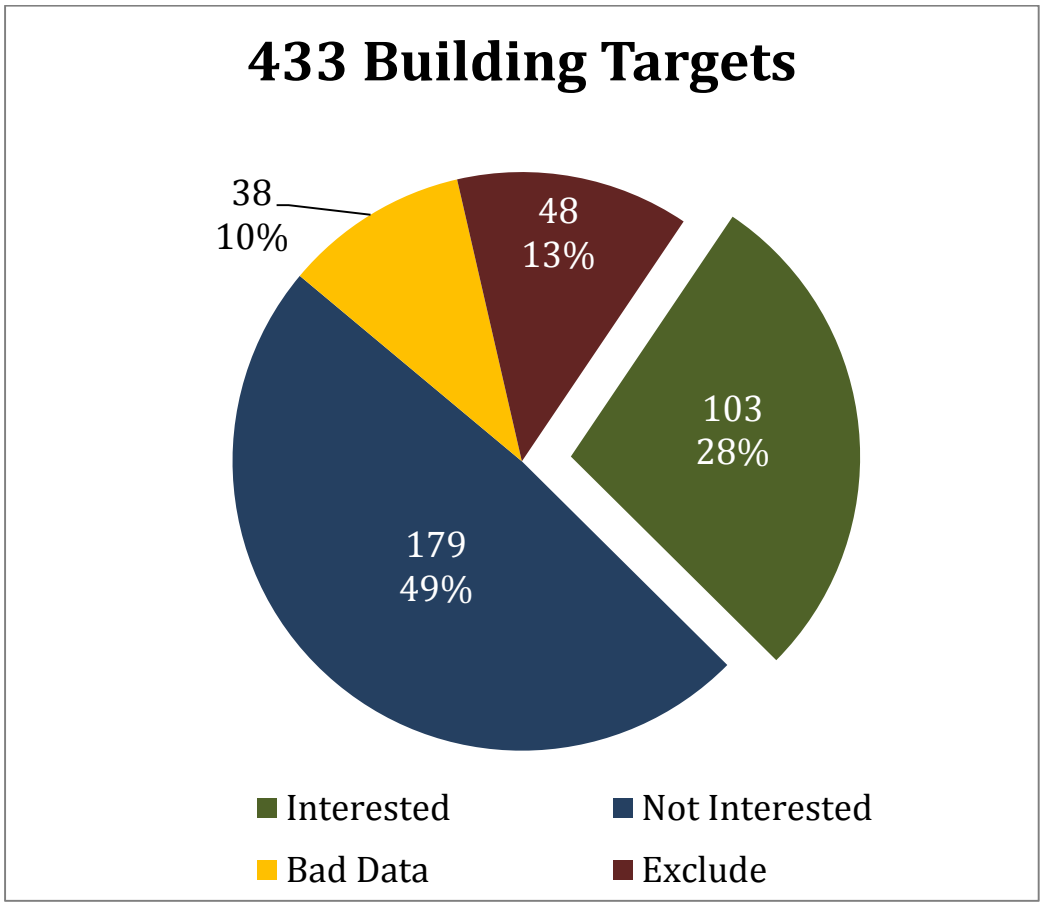
NV Energy Outreach Results (June - Nov)

Prospect Status	Count
Pending enrollment	9
NVE Site Assessment	1
Preliminary Discussions w/NVE	21
2nd Pass Outreach by NVE	19



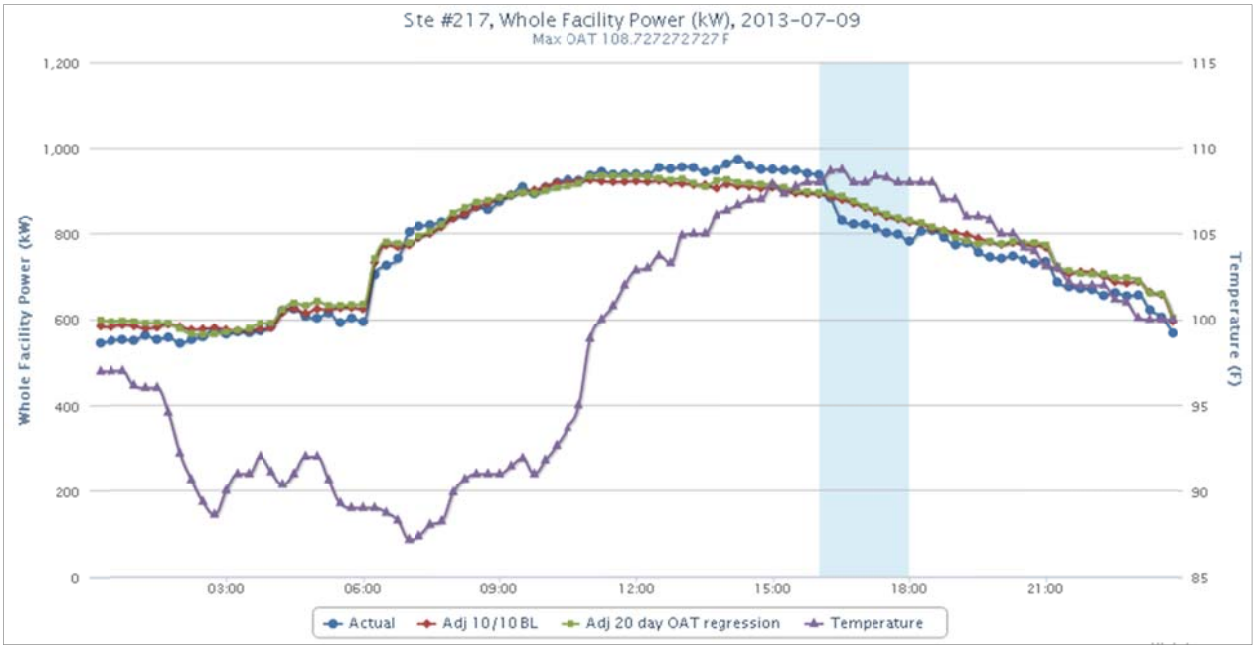
Southern California Edison Outreach Results (April - October)

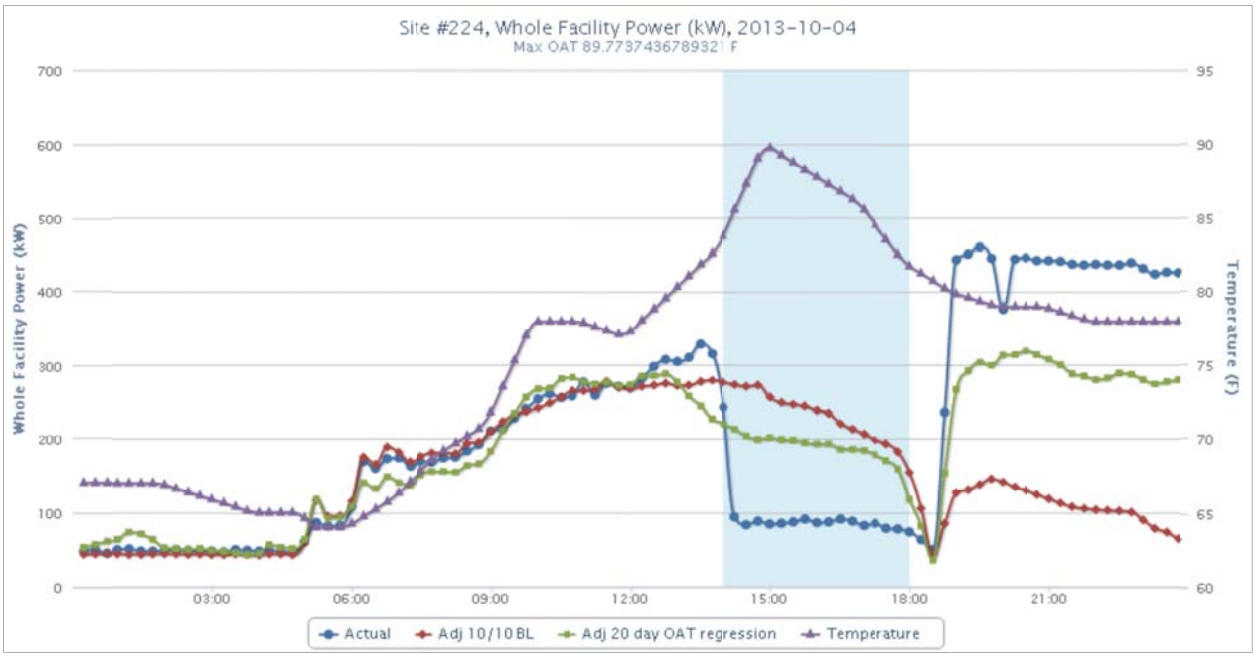
Win Type	Count
Research Track Participation	81
Building Auto DR Ready	98
Pursue Pilot Credit	1



RESEARCH

In addition to the preliminary analysis (two examples below), work on the case studies was started with the creation of a case study template. A research brief was developed summarizing preliminary results from three sites. Both of these documents are included in Appendix B.





COMMUNICATIONS AND EDUCATION

Program Presentations & Webinars

Partners and sponsors did an excellent job getting the word out through live presentations and webinars, reaching over 500 individuals representing a diversity of industries: architecture & design, engineering, property management, facilities management, real estate & commercial development, LEED consulting, and government (local, state, and federal) to name a few. Below is a sampling of the presentations and webinars conducted in 2013.

- Greenbuild 2013
  - Stakeholder presentation and focus group
  - Greenbuild Expo Stage Presentation
  - DRPP booth in Smart Grid Pavilion of expo hall
- GreenGov Dialogue on Demand Response hosted by the Council on Environmental Quality (CEQ) at the White House (Elgie Holstein, EDF, trumpeted DRPP)
- DistribuTECH, San Diego
- USGBC Chapter Presentations
  - Nevada
  - Orange County
  - Los Angeles
  - Santa Barbara (C4)
- National Summit on Integrating Energy Efficiency & Smart Grid, Washington DC
- Association of Energy Engineers Southern California Chapter: Introduction to Demand Response Workshop
- Great Lakes Symposium, IIT, Chicago

Articles

- USGBC.org. A nod to demand response from the White House. February 2013.
- USGBC.org. What is the Demand Response Partnership Program?. May 2013.
- Facilities Net. LEED v4 demand response pilot credit encourages analysis of outside power generation. May 2013.
- EDC. LEED Pilot Credits: Creating opportunities for energy efficiency & savings. July 2013.
- USGBC.org. More options for LEED Projects interested in demand response. August 2013.
- USGBC.org. New concepts in LEED v4. October 2013. October 2013.
- Metering.com. Demand Response Partnership Program expands. November 2013.

The press releases that went out in 2013 were picked up by countless news organizations. Here are a few more:

- http://www.usatoday.com/story/news/nation/2013/12/04/innovation-trends-homes%E2%80%A8-future/3786139/
- http://smartcitiescouncil.com/article/why-las-vegas-betting-predictive-software-energy-optimization
- http://www.renew-grid.com/e107_plugins/content/content.php?content.10520
- http://www.businesswire.com/news/home/20131114005404/en/City-Las-Vegas-Leads-Energy-Optimization#.UuvziPldV1Y
- http://www.thegreeneconomy.com/new-leed-projects-in-southern-california/
- http://www.todaysfacilitymanager.com/2013/05/leed-projects-in-southern-california-adopt-auto-dr-in-drpp

2013 PROGRAM TIMELINE

	Sponsors, Outreach, and Research	Media and Communications
January	▪ Outreach, research, and operations planning	▪ DistribuTECH, San Diego presentation
February	▪ Outreach, research, and operations planning	▪ GreenGov Dialogue on Demand Response hosted by the Council on Environmental Quality (CEQ) at the White House ▪ USGBC-C4 chapter presentation ▪ USGBC.org article
March	▪ MelRok joins DRPP ▪ MelRok kick-off meeting	▪ USGBC-LA chapter presentation
April	▪ Launched building outreach in SCE service territory	▪ USGBC.org article ▪ USGBC-Orange County chapter presentation
May	▪ Continued building outreach ▪ Update meetings (CA) (SCE, Enerliance, MelRok) ▪ NV Energy kick-off meeting (CA)	▪ USGBC-NV chapter presentation (NV) ▪ USGBC.org article
June	▪ Launched building outreach in NV Energy service territory ▪ MelRok update meeting (DC)	▪ DRPP webinar (CA)
July	▪ Enerliance joins DRPP ▪ Continued building outreach	
August	▪ Continued building outreach ▪ Enerliance kick-off meeting (phone)	▪ USGBC.org article ▪ USGBC-NV chapter presentation (NV) ▪ DRPP webinar (NV)
September	▪ Continued building outreach	
October	▪ Continued building outreach ▪ In person update meetings (SCE, Melrok, Enerliance, NV Energy)	▪ Great Lakes Symposium, ITT, Chicago ▪ Chapter Symposium, Nevada

November	▪ Continued building outreach
	▪ Data analysis and preliminary results
	▪ LEED v4 launched, including EA Credit: Demand Response worth up to 3 points
		▪ Greenbuild, Philadelphia
		  ▪ Leadership Roundtable Meeting
		  ▪ Presentation and Focus Group with DR Stakeholders
		  ▪ DRPP Expo Booth
		  ▪ DRPP Expo Stage Presentation

December	▪ Enerliance building recruitment ▪ Data analysis and preliminary findings	▪ Completed abstracts for future dissemination opportunities

2014 OUTLOOK

	Sponsors, Outreach, and Research	Media and Communications
January	▪ *Research and analysis continued*	▪ *Preliminary results presented in panel session at DistribuTECH, San Antonio*
February	▪ Research and analysis continues	▪ Dissemination of preliminary results continues
March	▪ Research and analysis complete ▪ Discuss program progress to date and possible future collaborations	▪ EnergySMART presentation in Philadelphia
April	▪ Final report released.	
May	▪ Develop education strategy around demand response and the LEED DR credits	▪ Dissemination through press releases, articles, and presentations
June		▪ Dissemination through articles and presentations
July	▪ Formal program ends.	▪ Dissemination continues