





February 13, 2014

Data & Evaluation: Cost-Effectiveness Tests and Measuring Like a Utility

Jess Bergman, jbergman@empowerdevices.com
Former marketing and outreach lead for the CT Neighbor to
Neighbor Energy Challenge (N2N)

Kat A. Donnelly, Ph.D., kdonnelly@empowerdevices.com
Former Program Evaluator for N2N







CT Neighbor to Neighbor Energy Challenge

- 14 towns Across Connecticut
- \$4.2m pilot funded by DOE to:
- 1. Prove that community-based strategies are a cost-effective way to drive demand for residential upgrades
- 2. Demonstrate that Home Energy Solutions could be marketed as a first step to deeper improvements (historical upgrade rate <10%)
- 3. Prove that investing in state-of-the-art data tracking systems improve community-based program results



CT. Gov. Malloy announces N2N







Data and Performance Metrics

- Track & report effectiveness of customer engagement, including:
 - Communication touch points,
 - Outreach strategies,
 - Motivational messages (A/B message testing)
- Track & encourage the customer through their journey
- Compare cost-effectiveness & set thresholds for performance
- Prepare internal program reports & dashboards using real-time performance data
- Complete qualitative and quantitative analysis projects





Tracking Database

Next Two Slides:

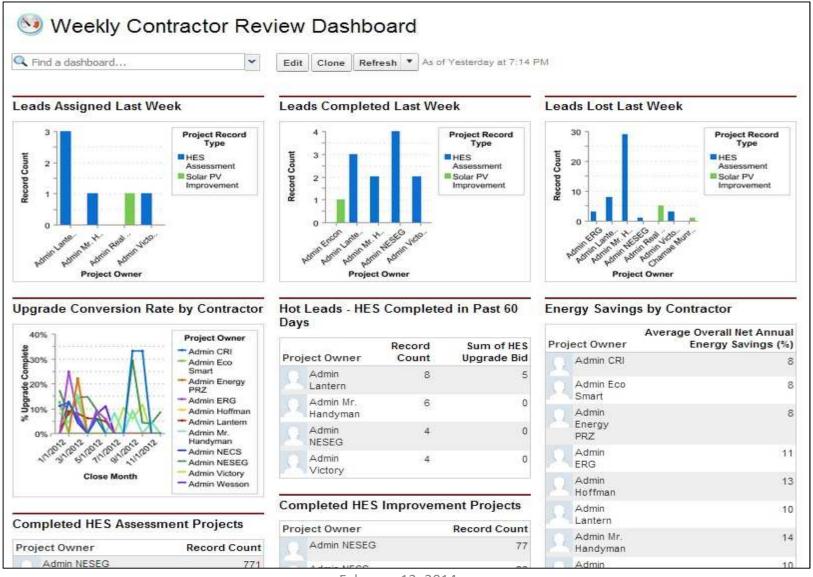
 Example Contractor Performance Dashboard

 Example Cost-Effectiveness and Scenario Planning Model













Cost-Effectiveness/Scenario Planning Model

Cost Effectiveness by Strategy (\$/HES visit)																
			2011 ACTUALS								2012					
				Q1		Q2		Q3		Q4		Q1	Ĭ.	Q2		Q3
Festival	High		\$	257.21	\$	116.92	\$	110.23	\$	128.61	\$	330.70	\$	214.35	\$	190.79
Business organization	Medium			*	\$	108.82	\$				\$	136.03	\$	12.09		
Coalition partner meetings	Medium		\$	466.38	\$	151.14	\$	187.96	\$	151.14	\$	197.49	\$	116.59	\$	81.62
Web sign-ups	Passive		\$	3.46	\$	0.40	\$	0.25	\$	0.20	\$	0.11	\$	0.22	\$	0.49
Workshops	High		\$	362.74	\$	122.77	\$	72.55	\$	68.01	\$	101.57	\$	31.09	\$	79.64
Other	Medium				\$	*					\$	59.36			\$	-
Election	High		\$		\$	161.11			\$	84.39	\$	12.74	\$	38.89	\$	55.12
Call-in sign ups	Passive		\$	17.81	\$	5.94	\$	1.27	\$	0.89	\$	1.98	\$	1.37	\$	2.97
Call nights	Medium												\$	34.63		
Tabling	High		\$	395.71	\$	257.55	\$	286.31	\$	121.61	\$	113.55	\$	209.82	\$	104.64
Mail-In	Passive				\$	2.47	\$	4.95	\$	1.24	\$	2.47	\$	4.95		
Presentation to Other Non-Coalition Partner	Medium				Ca.				\$	326.46	\$	399.01	\$	204.04	\$	108.82
Distro	High			į,			\$	128.61	\$	192.91	\$	51.44	\$	64.30		
Canvassing	High				\$	267.11	\$	296.79			\$	890.36	\$	254.97	\$	133.55
Mailing/Flyer	Passive						\$	42.54			\$	5.80	\$	6.00	\$	*
General Coalition Outreach	Medium		\$	22.39	\$	6.81	\$	9.72	\$	15.41	\$	14.35	\$	24.62	\$	88.27
Participant Referral	Passive		\$	1.98	\$	0.15	\$	0.25	\$	0.40	\$	0.09	\$	0.14	\$	0.66
Permanent Display	Passive	1	-		***		\$	29.68	\$	13.19	\$	49.46	\$	24.73	\$	19.79
Home	Passive		\$	217.64	\$	108.82	\$	435.29	\$	435.29	\$	957.63	\$	48.37	\$	*
Task Force meeting	Medium		2		\$	408.08	\$	489.70	\$	1,741.15	\$	1,958.79				
Contractor generated	Passive		\$	0.68	\$	0.62	\$	0.91	\$	0.40	\$	0.34	\$	0.38	\$	1.15
Hours per Upgrade Complete Sign Up- by Strateg	gy (Pull through)															
			2011 ACTUALS							2012						
				Q1		Q2		Q3		Q4		Q1	l.	Q2		Q3
Festival	High		2					30.87		30.87		92.60	Ş			
Coalition partner meetings	Medium			65.29		217.64			Т	54.41				65.29		
Web sign-ups	Passive		-			0.28		0.18		0.09		0.08		0.11		0.55
Workshops	High			43.53		191.53		34.82	5	21.76		30.47		8.71		21.24
Election	High					90.22						30.07	Į.	11.28		15.43
Call-in sign ups	Passive						ř.			0.24		0.47		0.24		
Tabling	High			142.46		607.82				49.86		208.94		120.30		108.82
AND THE RESERVE OF THE PERSON	7	_														







Problem, Diagnosis, Solution: Contractor Close Rates

Problem: Poor Close Rate (26% of leads completed assessment)

Quantitative Diagnosis: Solution—Course Correction:

- Lost leads
- Poor contractor follow up
- Low bid rates
- Low customer upgrade awareness

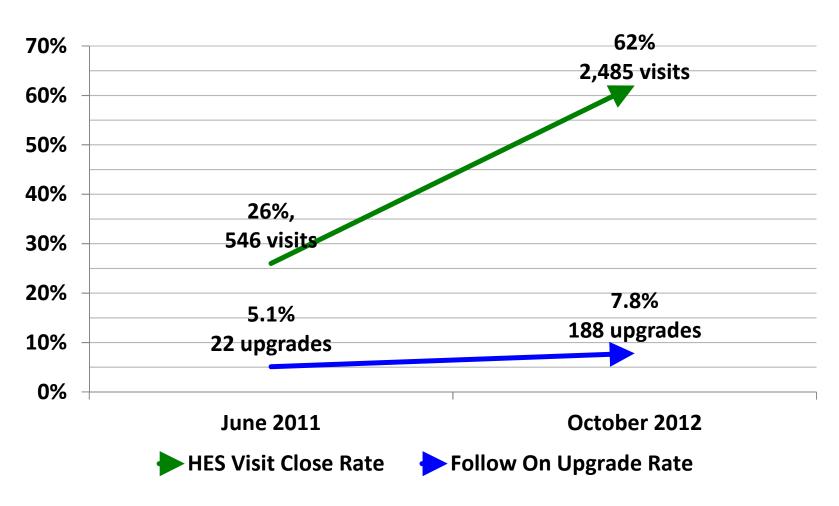
- N2N Assign Leads
- Contractor Scorecards
- N2N Contractor RFQ
- Energy Advisors
- Customer Sales Training
- Lead "swim lanes"







N2N Course Correction Results









Lessons Learned: Where to Invest

- 1. Community-based organizing
 - Use multi-touch approaches tailored to communities
 - Need significant staffing to succeed
 - Hire experienced community organizers
 - Community groups and volunteers are critical and require support and training
- 2. Contractor coordination and support
- 3. Marketing
 - Understand the target audience & energy efficiency marketing
 - Rely on Earned media
 - Coordinate marketing & brand awareness with outreach and social media