Energy Efficiency for Small and Medium Commercial Customers

National Symposium on Market Transformation Large-Scale Transformation

Washington, DC April 20-22, 2015



Empowering you to make smart energy choices

Energize Connecticut –

Energize ConnecticutSM is an initiative dedicated to empowering Connecticut citizens to make smart energy choices, now and in the future. We provide Connecticut consumers, businesses and communities the resources and information they need to make it easy to save energy and build a clean energy future for everyone in the state. It is an initiative of the Connecticut Energy Efficiency Fund, the Connecticut Green Bank, the state, and your local electric and gas utilities. The initiative has funding support from a charge on customer energy bills.

Objective

 PROVIDE > COST-EFFECTIVE, turn-key CONSERVATION and LOAD MANAGEMENT SERVICES to SMALL C&I CUSTOMERS.

What qualifies as a SMALL BUSINESS?

- A "Mom & Pop" store with a \$150 monthly electric bill to a mid size manufacturer with a \$20,000 monthly electric bill.
- **Examples:** convenience stores, houses of worship, professional offices, non-profits, gas stations, restaurants, common areas of apartment buildings, warehouses, retail, sport facilities.



UI Customer Base

~325,000; Total Customers

- ~30,000; Commercial, Industrial, Municipal
- ~16,800; Small Businesses
- ~4,970; Small Businesses (29%) have participated

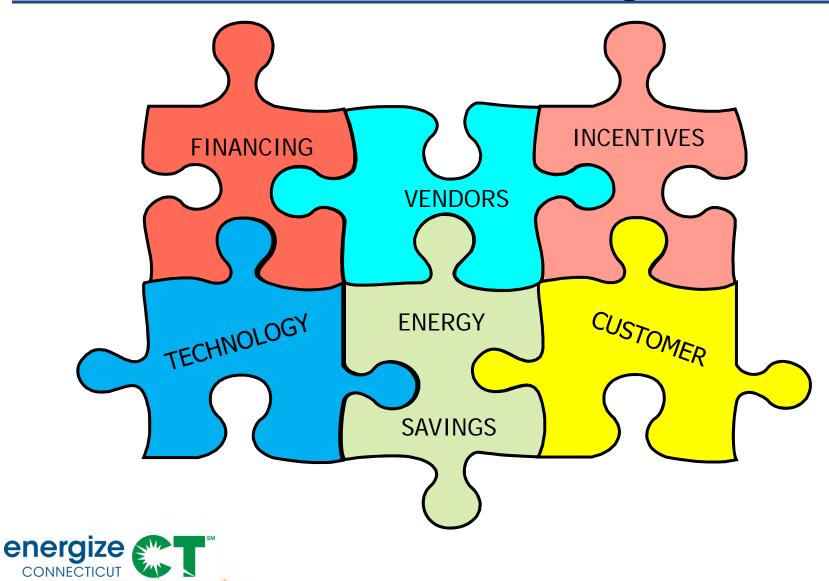


Program Statistics 2000 - 2014

- >Over 4,970 Installed Small Business Projects
 - Averaging between 20 to 25% reduction
- 994m Lifetime kWh Saved =
 - > 614,000 TONS of REDUCED CARBON DIOXIDE!
- \$23.8m Incentives Paid by Energize CT
- \$41.2m in 0% Financed Loans



Critical Pieces of the Program

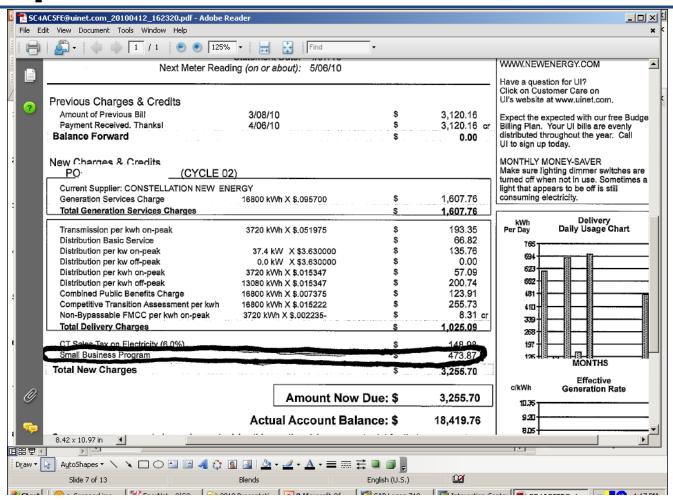


Financial Solutions

- NO OBLIGATION ENERGY EVALUATION
- NO UP-FRONT COSTS
- INCENTIVES: up to 40% for lighting & non-lighting measures, up to 50% for Comprehensive
- COMPREHENSIVE BONUS; 2 or more end uses with no 1 end use accounting for more than 85% of savings value
- ZERO 0% ON-BILL FINANCING; to qualified customers



Sample Bill





Time: 13:14:58 System: EnerNet

PROFESSIONAL 36 Month Historical Analysis and 12 Month Credit Report

Rate/ID: 420/112

opposed to a premise report. 3/ Rebilling did not affect past usage/billing - before

Rep: NOT ASSIGNED

Phone: (203)772

2/ This is a tenant report as

Group: none SIC: 5413

Riders:

11/01/2003.
4/ Special adjustments not included.
Taxes not included.

06511

Meters: (Tax XMT: Yes

5/ CT Gross Rcp. tax credit included.

Cycle: 03

Date read	Road Code Days	On-Peak	Shoulder	rs Off-Peak	Total kWh	% Change from last vr	. < On-Peak		> Off-Peak	Hours Use	Billed Amount (\$)	Unit Cost		2 % Change \$ Amount
1		T					1 1			285	1,310	0.26556	-3.2	
02/05/2014		2,118 1,851	1,365 1,203	1,450 1,617	4,933 4,671		NEW 17.53			287	1,044	0.22351	-3.0	
12/05/2014		3,137	1,741	1,352	6,230		TEGH 24.62			257	1,323	0.21236	-1.6	
11/05/2013		3,635	1,896	1,451	6,982		26.80			273	1,408	0.20166	-0.5	
10/07/2013		4,341	2,215	1,712	8,268		37.60			231	1,871	0.22629	-0.8	
09/08/2013		4,803	2,458	2,210	9,471		36.27			248	2,047	0.21613	-1.0	
08/07/2013		5,535	3,132	2,508	11,175		40.04			283	2,366	0.21172	0.3	7.5
07/08/2013		5,157	2,769	2,517	10,443		39.15			254	2,144	0.20530	-0.3	1.3
06/06/2013		4,718	2,400	1,726	8,844		38.06			236	1,760	0.19900	-0.7	0.3
05/07/2013	-	4,486	2,554	2.013	9,053		33.27			276	1,706	0.18845	0.6	
04/07/2013		3,815	2,111	1,826	7,752		27.66			275	1,418	0.18292	-0.4	-0.1
03/07/2013		3,836	2,266	1,745	7,847		26.00			306	1,453	0.18517	-0.6	
02/05/2013		4,080	2,380	1,663	8,123		OLD 26.88			306	1,555	0.19143	-0.3	0.1
01/06/2013		3,635	2,213	1,854	7.702		26.55			276	1,492	0.19372	-0.4	-0.1
12/05/2012		3,862	2,237	1,747	7,846		PECH 29.94			266	1,453	0.18519	-0.4	
11/05/2012		4,039	2,296	1,985	8,320		32.56			243	1,468	0.17644	-1.0	-1.4
10/04/2012		4,732	2,540	1,827	9,099		36.15			264	1,649	0.18123	-0.9	-1.2
09/05/2012		4,947	2,575	2,186	9,708		38.11			267	1,859	0.19149	-1.4	,
08/07/2012		5,604	2,876	2,393	10,873		39.07			282	948	0.08719	-1.8	-6.8
07/08/2012		5,300	2,803	2,632	10,735		39.67			257	1,898	0.17680	-1.4	-2.4
06/06/2012	-	4,850	2,695	2,041	9,586		39.06	32.268	24.492	249	1,695	0.17682	-0.9	-1.7
05/07/2012		4,076	2,288	1,761	8,125		33.26	4 29.616	21.660	256	1,524	0.18757	-1.0	-1.0
04/08/2012		4,320	2,419	1,695	8,434		31.52	4 27.288	23.016	254	1,484	0.17595	-1.7	-2.1
03/07/2012		4,083	2,622	1,782	8,487		26.65	2 25.524	23.640	323	1,462	0.17226	-1.3	-1.9
02/06/2012		4,110	2,861	2,028	8,999		29.95	2 25.032	23.568	286	1,643	0.18258	-1.8	-2.0
01/05/2012		3,495	2.032	1.732	7.259		25.92	0 24.972	23,220	294	1,358	0.18708	-3.0	
12/07/2011	31	4,196	2,468	1,963	8,627	,	32.36	4 27.336	22.332	262	1,608	0.18639	-2.8	-2.9
11/06/2011	32	4,519	2,524	2,415	9,458	1	32.14	8 28.860	25.440	280	1,731	0.18302	-3.0	-3.4
10/05/2011	29	4,990	2,707	2,351	10,048	}	37.33	2 32.436	29.316	282	1,875	0.18660	-1.2	-1.4
09/06/2011	30	5,586	3,122	2,827	11,535	i	39.75	5 35.964	30.360	294	2,139	0.18544	0.6	0.2
07/26/2011		0	0	0	0		0.00	0.000	0.000	720	0	0.00000	-16.3	-16.3
08/07/2011		6,274	3,721	3,542	13,537	,	41.84	4 40.020	31.680	820	2,463	0.18195	25.4	23.3
07/06/2011	29	5,499	3,136	2,765	11,400	1	41.66	4 38.004	31.380	287	2,240	0.19649	5.4	6.4
06/07/2011	30	5,356	2,815	2,417	10,588	1	40.29			266	2,072	0.19569	4.8	7.3
05/08/2011	32	4,819	2,717	2,738	10,274		34.28	4 29.220	26.064	285	1,919	0.18678	999.0	999.0
04/06/2011	999	4.212	2 697	1.987	8,896		35.13	6 27,408	23 148	8	1,699	0.19098	0.0	0.0

SUMMARY DATA

ı		YTD Days	Metered kWhr	Change YTD kWhr	% Change	Billed Amt	Changed YTD Billed	% Change	Avg. Unit Cost
ı	2014	62	9,604	-6,221	-64.7	2,354	-693	-29.4	0.24510
ı	2013	365	101,890	-5,876	-5.7	20,543	2,051	9.9	0.20161
ı	2012	364	107,471			18,441			0.17159

Before

After

- Obsolete lighting
- No lighting controls
- Obsolete refrigeration
- 24/7 Refrigeration
- Inefficient existing HVAC equipment
 - = \$3,000 monthly bill

- New lighting tech.
- Occupancy sensors
- New refrigeration technology
- Refrigeration controls
- /night shutoffs
- HVAC upgrade to high efficiency /Programmable Thermostats
 - = \$1,800 monthly bill



Side by Side Comparison







Default Loan Term

Project Cost:	Material costs	\$9,204.20
	Labor costs	\$6,571.03
	Project Subtotal	\$15,775.23
	Tax (CT 6%)	\$946.51
	Total Cost	\$16,721.74
	Approved UI Incentive	\$7,886.52
	Net Total Cost	\$8,835.22
	Monthly Payment (16)	\$552.20
->	Annual Energy Savings	42,301 kWh
Estimated: ->	Annual Dollar Savings	\$6,927 = \$577.25/monthly
(may include		
adjustments) ->	Pay Back	1.2 years

Cash Positive \$25.05



Loan Extension – 24 months

Project Cost:	Material costs	\$9,204.20
	Labor costs	\$6,571.03
	Project Subtotal	\$15,775.23
	Tax (CT 6%)	\$946.51
	Total Cost	\$16,721.74
	Approved UI Incentive	\$7,886.52
	Net Total Cost	\$8,835.22
	Monthly Payment (24)	\$368.13
->	Annual Energy Savings	42,301 kWh
Estimated: ->	Annual Dollar Savings	\$6,927 = \$577.25/monthly
(may include		
adjustments) ->	Pay Back	1.2 years

Cash Positive \$209.12



Contact Information

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