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# National Grid's **TRC/BC Screening Reference Document for Commercial & Industrial Projects**

(revised 09/11/13)

**Developed based on New York State Public Service Commission Regulatory Guidelines for Screening Energy Efficiency Projects** 

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## Please note: PROGRAMS CAN CHANGE WITHOUT NOTICE!

For additional Program Details please visit our website at: <u>https://www1.nationalgridus.com/energysolutionspartner</u>

### **Step 1 – Screening Methodologies**

The New York Public Service Commission has set guidelines for the NYS utilities to follow to make sure measures and projects implemented by customers are cost effective prior to committing funding to those projects. The Benefit Cost (BC) Screening tool is developed to screen Custom energy efficiency projects to determine if a project is eligible to receive incentives from National Grid.

The tool uses a series of calculations that include:

- 1) LRAC Long Range Avoided Cost, to avoid the cost associated with new energy production and distribution.
- 2) Societal Benefits
- 3) Simple Payback

The end result or the EEM passes the BC Screening requires that the EEM (Energy Efficiency Measure) screens at a "1" or greater also known as a BC of 1, in order for the project to receive an incentive.

Recently the NYS PSC changed the way that we screen projects by changing the method that you will choose to screen an EEM. The items 1 - 4 below are a brief explanation of the screening methods and their intended use. It is important that the appropriate method is selected when analyzing various projects. As a result, it is important to be familiar with the various screening methods.

# TIP 1 – The BC screening tool <Help> tab is very useful for explanations of the inputs required.

#### **BC Screening Method for Custom Projects**

#### 1) BC Screening Method: Retrofit

- THIS METHOD APPLIES ONLY TO LIGHTING MEASURES.
- Uses full values of savings and project costs on lighting and lighting related measures. Lighting controls apply when the lighting controls savings is < then 5% of total lighting project savings. In the case where lighting controls exceed 5% of the project savings – a different method called "Add-On" needs to be used. (See # 3 below).
- Operating hours, lighting type, application (outdoor or indoor) and calculated lighting measure life is utilized for screening

TIP 2 – In order for LED lighting to qualify for an incentive, it has to be listed on the DLC's or Energy Star's most current lists. The NYS PSC has set LED rules for determining the Effective Useful Life (EUL) of LED lighting. The lighting EUL is impacted by ambient temperature that they are installed in. Therefore, the EUL is 50,000 hours exterior, 35,000 hours interior, NG Approved but unlisted is 25,000 hours and all other lighting is 70,000 hours. Being considerate of the LED EUL impact a project consideration could be to use a weighted average (EUL) measure life. (See internal memo from TC on the DLC decision for LEDs).

#### 2) BC Screening Method: Early Replacement

- THIS METHOD APPLIES TO NON-LIGHTING RELATED MEASURES.
- This method should be used for replacement of equipment before it reaches end of its Effective Useful Life (EUL).
- Projects will follow the Tech Manual Appendix M methodology incorporating Dual Baseline Method of analysis.
- If one cannot document or substantiate the age of the equipment in place is less than its prescribed EUL, the replacement must be analyzed as normal / end of life replacement (See #4 below).

#### 3) BC Screening Method: Add-On

• Add-ons would be enhancing performance of existing equipment by adding devices such as VFD, lighting controls (> 5% savings, see bullet 2, retrofit above), compressed air storage tanks, EMS, etc.

#### 4) BC Screening Method: Normal [Formerly Time of Replacement (TOR)]

- THIS METHOD IS APPLIES WHEN THE AGE OF THE EQUIPMENT BEING REPLACED IS PAST ITS EUL.
- Analysis uses code referenced design criteria or industry standard equipment as baseline. A code example is the 2010 Energy Conservation construction code of New York, if applicable.
- Required will be the cost and energy usage of Code standard equipment to be used for the baseline for screening.
- Required cost and energy usage of proposed equipment to be used as EE (proposed) equipment for screening.

TIP 3: The electric screening tool will automatically calculate the program caps when you select electric program option D2 and Normal Replacement. The BC screening tool will set the incentive at 75% of the incremental not to exceed 50% of the total project/EEM cost where the project cost is the labor and materials for the new high efficiency equipment. All other caps are in place: \$/kWh, \$/therm, buy down to 1 year payback for commercial /6 month payback for industrial customers or 50% of the total project cost , whichever is the least amount.

Please note: The tool calculates 75% of incremental costs as the incentive as longs as all other caps are met. However, National Grid is paying 100% of incremental costs as long as it does not exceed 50% of the total project cost.

#### 5) BC Screening Method: Special Circumstances

- THIS METHOD APPLIES ONLY TO COMMERCIAL AND INDUSTRIAL MACHINERY AND MULTI-FAMILY CENTRAL SYSTEMS BUT NOT TO LIGHTING EQUIPMENT.
- Customers typically influenced by initial capital outlay more than life cycle economics due to lack of capital.
- Customers with short time horizons and other factors which tend to prevent long range economic decision making with regard to the installation of high efficiency equipment.

Special Circumstances must follow this five criteria regarding equipment being considered for replacement:

- 1. Equipment age equals or exceeds 125% of its effective useful life (EUL) and energy consumption significantly exceeds that of current high efficiency models by at least 20%.
- 2. There is a history of significant repairs or replacement with used equipment
- 3. The prospective next repair or replacement is likely to be initially much less expensive than replacement with new high efficiency machinery.
- 4. Documentation to support above criteria must be collected and attached to the application in InDemand.
- 5. Equipment fitting these criteria would be subject to a form of dual baseline TRC screening. Initial baseline of 25% of new measure's prescribed EUL. Second baseline consists of 75% remainder based on minimally code compliant or standard efficiency equipment. Under this approach, first year savings would be reported as the difference between the existing equipment's electric usage and that of the high efficiency equipment which replaces it. Analysis will require use of tables published by PSC under Appendix N to the NY Tech Manual.

### **Step 2 – Screening Method Examples**

Now that all the screening methods have been explained, it is important to look at an example of each method for an actual project to show the inputs required for each method. Each sample screening snapshot has a project description, summary and the following page is the report that is automatically generated saved as an .html file on your C drive. The other automatic output is a .csv file. The .csv file is an excel spreadsheet that is used to automatically uploads the screening data to our tracking software known as InDemand. Step 3 explains the report and .csv files in more detail.

See pages 8 - 15

### Custom Screening Example #1: Retrofit (Lighting Project)

#### **Energy Efficiency Measure:**

Replace qty 50 - 440w MH with 4 lamp T-5, 50 – 40W Halogen with 17W LED, 10
 - 400w HPS wallpacks with 40w LED wallpack& 10 – 150w Halogen Floods with 45w LED Flood

Customer Name Retrofit Lighting Example			Utility Contact	
Project Description LED and T-5 System Upgrade			Phone Number	
Existing Condition 50 - 440 w MH, 50 - 40W Halogen, 10 - 400 w H wallpacks, 10 - 150 w Halogen Floods	HPS A P	Proposed Scription 4 lamp T	-5, 17W LED, 40w LED	wallpack 45w LED
Program EI  TRC Retrofit	State NY 💌	Classification	Industrial (< 2 MW)	App No Example #1
Measure LGHT  Measure Life Retrofit Early Special	sure Description	ing Systems		
Peak kW usage AddOn		Costs	Non-Electri	ic Benefits
Existing Equipment 27.40 145000 EE Equipment 12.6 62906 EE	Equip. Cost	Ga Gas 10000 W	Oil (gallons) s Heating (therms) Non-Heat. (therms) Water (gallons) aste Water (gallons)	
Full Savings     14.8     82094     EE       Average Cost/kWh     0.1     EE       Est. Annual Cost Savings(\$)     8209.4       %On Peak kWh Saved     100	Labor Cost Total Cost	2000 12000	Other (\$)	
Calculated Incentive 6000 Authorized Incentive	<b>6000</b> 50	% of Project Cost		

- Project: Lighting upgrade EEM: T-5 & LED Lighting
- Energy Analysis and Findings:
  - o 82,094 kWh saved and14.8kW (June, July and August)
  - \$8,209 saved per year at \$0.10/kWh
- Project Costs \$12,000 Energy Efficient
- Incentive \$6,000 Incentive
  - Incentive is 50% of the incremental cost as the simple payback is bought down to 0.7 years.

National Grid 2013 C	ustom Screening Tool Upstate NY - v 1.0	Report Version - 1.0								
Customer Name:	Retroft Lighting Example									
Project Description:	LED and T-5 System Upgrade									
Existing Case	50 - 440w MH, 50 - 40W Halogen, 10 - 400w H	50 - 440w MH, 50 - 40W Halogen, 10 - 400w HPS wallpacks, 10 - 150w Halogen Floods								
Proposed Case	4 lamp T-5, 17W LED, 40w LED wallpack 45w L	lamp T-5, 17W LED, 40w LED wallpack 45w LED Flood								
Utility Contact:		Phone Number:								
Program:	EI	A pp Number:	Example #1							

State:	NY	Classification: Ind	lustrial (< 2 MW)
Time Period	Energy (kWh) Reduction Per Period	Hours Per Period	Average Demand Reduction Per Period
Winter			
December	0	0	0
January	0	0	0
February	0	0	0
Summer			
June	0	0	14.8
July	0	0	14.8
August	0	0	14.8
September	0	0	0

Measure Code:	LGHT	TRC Method		Retrofit		
Measure Description:	Lighting Systems	Existing Age		0	RUL	NA
Measure Life:	11	DFP		NA	A DJEUL	NA
		Incr/Full kWh		NA	Incr/Full Cost	NA
		Ben Adj		NA	Cost Adj	NA
Est Equip Costs	\$10,000					
Est Labor Costs	\$2,000	011/0-11-0-0			WasteWater	
Est Total Cost	\$12,000	Off (Galions)		0	(Gallons)	
	KW KWH	Gas Heating (1	Therms)	0	Water (Gallons)	0
Existing Equip	27.40 145,000	Gas NonHeati	ng (Therms)	0	Other (\$)	\$0.0
Std Equip Lleage		Total NEB \$ Sa	avings	\$0.0		
EE Equip Usage	12.6 62.906	Die Come INM				
		Rd	14.8			
Total Est A nnual kWh	92.094	kW Years	163	kW Ye	ars (A djEUL)	NA
Savings	02,004	Lifetime MWH	903 Li	fetime M	WH (A djEUL)	NA
Average Cost Per kWh	0.1					
Savings	\$8,209					
% On Peak Energy	100	Payback				
Javings		Incentive	1.5			
Proposed Incentive	\$8,000	Payback With				
		Proposed	0.7			
l			_			
		50% of Project	Cost			
				Cust	omer Cost : \$6,000	

# Custom Screening Example #2: *Normal Replacement* (Compressed Air Project)

#### **Energy Efficiency Measure:**

• Replace two, <u>16 year old</u>, 75 hp inlet modulating air compressors with a 200 hp VSD.

Customer Name Commpressed Air Example-Normal		Utility Contact	
Project Description Two older air compressors are replaced	with a 200 hp VSD	Phone Number	
Base Case Description 2 - 75 hp inlet modulating air compress	sors Prop Descri	posed 1- 200 hp VSD rotary screw compress ption	sor 📃
Program D2  TRC Nomal	▼ State NY ▼ (	Classification Industrial (> 2 MW)	App No Example #2
Measure CAIR  Measure Life 15	Measure Description Compres	ised Air	
Peak kW usage kWh usage	Co	Non-Electric Be	nefits
Code/Std Equipment       600       2500000         EE Equipment       560       2250000         Incremental Savings       40       250000         Average Cost/kWh       0.1       25000         Set: Annual Cost Savings(\$)       25000       100         %On Peak kWh Saved       100       100	Base Case Costs 100 Proposed Costs 150 Incremental Costs 500 Incr Equip. Cost 0 Incr Labor Cost 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000     Oil (gallons)       000     Gas Heating (therms)       000     Gas Non-Heat. (therms)       Water (gallons)     Water (gallons)       0     Other (\$)	
Calculated Incentive 37500 Authorized Ince	<b>6000</b> 0.5 ye	ear payback	

- Project: Compressed Air System Improvements EEM: 200 hp two stage VSD compressor
- Energy Analysis and Findings:
  - o 250,000 kWh saved and 40 kW (June, July and August)
  - $\circ$  \$25,000 saved per year at \$0.10/kWh
- Project Costs
  - \$100,000 Standard Replacement
  - \$150,000 Energy Efficient
  - \$50,000 Incremental Project Cost
- Incentive
  - \$37,500 Incentive
  - Incentive is 50% of the incremental cost as the simple payback is bought
  - $\circ$  down to 0.5 years.

National Grid 2013 Cust	om Scree	ning Too	ol Upstate NY - v	/ 1.0	Report Ver	sion - 1.0					
Customer Name:	Commpre	ssed Air I	Example-Normal	I							
Project Description:	Two older	r air comp	ressors are repla	aced with	a 200 hp VS	SD .					
Existing Case	2 - 75 hp	- 75 hp inlet modulating air compressors									
Proposed Case	1-200 hp	VSD rota	ry sore w compre	essor							
Utility Contact:						Ph	one Num	ber:			
Program:	D2						A no Num	ber: Ex	ample #2		
State:	NV						lassificat	tion: Ind	Instript (> 2 MW		
state.							lassineat	non. ma	10 Striat (~ 2 m W	,	
Time Period	En	ergy (kW Per P	h) Reduction Period		Но	urs Per Pe	eriod		A vera Reducti	ge Demand on Per Period	
Winter											
December			0			0				0	
January			0			0				0	
February			0			0				0	
Summer											
June			0			0				40	
July			0			0				40	
August			0			0				40	
Septem ber			0			0				0	
Measure Code:			CAIR	TRCI	lethod		Normal				
Measure Description:			omore seed Air	Exist	ing A ge		0		RUL		NA
Measure Life:		Ŭ	15	DFP			NA		A DJEUL		NA
Base Costs			\$100,000	Incr/F	off RWb		NA		Iner/Full Cost		NA
Proposed Costs			\$150,000	Ben	di		NA		Cost A di		NA
Est Incremental Costs			\$50,000	Denty			100		COStAdj		
Est Incr Equip Costs			\$0	•							
Est Incr Labor Costs			\$0	Oil(G	allons)		0		Waste Water		0
									(Galions)		
		KW	KWH	Gast	Heating (The	erms)	0	vv	ater (Gallons)		
Existing Equip Usage		NA	NA	Gasl	IonHeating	(Therms)	0		Other (\$)		\$0.0
Std Equip Usage		600	2500000	Total	NEB \$ Savi	ngs	\$0.0				
EE Equip Usage		560	2,250,000								
				PkSu	∎m kW Rd	40.0					
Total Est Annual kWh Savings			250,000	kW Y	ears	599	kV	VYears	(A djE UL)		NA
Average Cost Per kWh			0.1	Lifeti	me MWH	3750	Lifetim	e MWH	(A djE UL)		NA
Est Annual Energy Cos Savings	t		\$25,000								
% On Peak Energy Savings			100	Payb Witho Incen	ack out tive	2.0					
Proposed Incentive			\$37,500	Payb Prope Incen	ack With osed tive	0.5					
				0.5	earpaybad	k					
				0.0	Juan paguau	n.	Custon	ner Cost	:\$12,500		

# Custom Screening Example #3 : *Early Replacement* (Compressed Air Project)

#### **Energy Efficiency Measure:**

• Replace qty 1, <u>12 year old</u>, 100 hp inlet modulating air compressors with a 100 hp VSD.

Customer Name Compressed Air Example - Early	Utility Contact	
Project Description One older air compressor is replaced wit	ith a 100 hp VFD Phone Number	
Existing Condition 1 - 100 hp modulating air compressor	Proposed Description	
Program EI TRC Early	State NY     Classification Industrial (< 2 MW)     App No Example	#3
Measure CAIR Measure Life 15	Measure Description Compressed Air	
Peak kW usage kWh usage	Costs Non-Electric Benefits	
Existing Equipment         248         2172200           Code/Std Equipment         248         2072200           EE Equipment         204         1787000           Incremental Savings         44         285200           Full Savings         44         385200           Average Cost/kWh         0.1	Oil (gallons)0Std Cost (Mtl+Labor)0Gas Heating (therms)0Gas Non-Heat. (therms)000EE Equip. Cost120000Water (gallons)0EE Labor Cost20000Other (gallons)0EE Total Cost14000000	
Est Annual Cost Savings(\$) 38520 %On Peak kWh Saved 100	Existing Equip Age 10 Benefit Adj 1 RUL 5 Cost Adj 1 Adj EUL 1 Incremental/Full kWh Savings 0.74	
	Incremental/Full Cost 1	
Calculated Incentive 70000 Authorized Incentive	entive 6000 50% of Project Cost	

- Project: Compressed Air System Improvements EEM: 100 hp two VSD compressor
- Energy Analysis and Findings:
  - 385,200 kWhrs saved
  - 44 kW (June, July and August)
  - \$38,520 saved per year at \$0.10/kWhr
- Project Costs
  - \$140,000 Energy Efficient
- Incentive
  - o \$70,000 Incentive
  - Incentive is 50% of the incremental cost as the simple payback is bought down to 2 years.

National Grid 2013 Cus	tom Scree	ning Tool U	lpstate NY ·	- v 1.0	Repor	t Versio	on - 1	.0				
CustomerName:	Compress	ed Air Exam	ole - Early									
Project Description:	One older	air compress	sor is replac	ed with a '	100 hp \	/FD						
Existing Case	1 - 100 ho	modulating a	air compres	sor								
Proposed Case	1- 100 hp \	VED comore	eenr									
1 toposed case		in o compio										
Utility Contact							Pho	ne Nur	iber:			
Program:	EI						A	oo Nur	nber: Ex	ample #3		
State:	NY						Cla	ssifica	tion: Ind	lustrial (< 2 MV	v)	
											.,	
Time Period	Ener	rgy (kWh) R	eduction		I	Hours F	Per Pe	eriod		Aver	age Deman	d ricd
Winter		Terrein								TTE COOL		i loa
December		0					0				0	
January		0					ō				0	
February		0					0				0	
Summer												
June		0					0				44	
July		0					0				44	
August		0					0				44	
September		0					0				0	
				1								
Measure Code:			CAIR	TRC M	ethod			Early				
Measure Description:		Comp	ressed Air	Existin	g A ge			10		RUL		5
Measure Life:			10	DFP				4		ADJEUL		1
				Incr/Fu	ll kWh			0.74	h	ner/Full Cost		1
				Benefit	Adi			1		Cost A di		1
Standard Costs			0									
Est Equip Costs			\$120,000							104-4-104-4		
Est Labor Costs			\$20,000	Oil (Ga	llons)			0		(Gallons)		0
Est Total Cost			\$140,000	Gas He	ating (T	herms	)	0	Wa	ter (Gallons)		0
		KW	KWH	Gas No	on Heatir	na (The	mis)	0		Other (\$)		S0.0
Existing Equip Usage		248 2	2,172,200	Total N	IEB\$Sa	wings	,	\$0.0				
Std Equip Usage		248 2	2,072,200			_						
EE Equip Usage		204 1	787,000	Pk Sun	n kW	44.0						
				Ra				1.10				10.000
Total Est Annual kWh			385,200	KVV Yea	ars	009		KV	rears (A	(djEUL)		43.900
Savings Automatic Cost Prochable				Lifetim	e MVVH	5//8		Lifetime	e MIVVH (A	(djEUL)		385.2
Est Appual Eperry Cos	*		0.1									
Savings			\$38,520									
% On Peak Energy			100	Paybao Withou	⊧k rt	3.6						
savings.				Incenti	ve							
Proposed Incentive			\$70,000	Paybao Propos Incenti	sk With ed ve	1.8						
				50% of	Project	Cost						
				00/601	. iojeu	- Cost		Co	stomer C	ost : \$70.000		
· ·												

### Custom Screening Example #4: Add-On (VSD Project)

#### **Energy Efficiency Measure:**

• Add VSDs to a 15 HP supply and 15 HP exhaust fans for a gym/pool facility heating and ventilating unit.

Project Description       Phone Number         Phone Number         Existing Condition       HV-3 supply fan (15 hp) and RF-1 return fan (15 hp) at constant speed       Proposed Description       Install VSD's to operate the HV-3 and RF-1 at 80% speed.         Program       E       TRC       AddOn       State       NY       Classification       Commercial (< 2 MW)	Customer Name VSD Example - Add-On			Utility Contact	
Existing Condition       HV-3 supply fan (15 hp) and RF-1 return fan (15 hp) at constant speed       Install VSD's to operate the HV-3 and RF-1 at 80% speed.         Program       EI       TRC       AddOn       State       NY       Classification       Commercial (< 2 MW)       App No       Example #4         Measure       VSDH       Measure Life       15       Measure Description       Drives on HVAC systems         Peak kWu sage       kWh usage       Costs       Non-Electric Benefits         EE       Equipment       0       175601       Gas Non-Heat. (therms)       0       Gas Non-Heat. (therms)       0         EE       Equipment       0       108647       EE       EE       EE       EE       Quip. Cost       11117       Water (gallons)       0<	Project Description One older air compressor is replaced with	a 100 hp VFD		Phone Number	
Program       EI       TRC       AddOn       State       NY       Classification       Commercial (< 2 MW)	Existing Condition HV-3 supply fan (15 hp) and RF-1 retur at constant speed	rn fan (15 hp) 🔨	Proposed Spee	II VSD's to operate the HV-3 and d.	RF-1 at 80%
Measure       VSDH       Measure Life       15       Measure Description       Drives on HVAC systems         Peak kW usage       kWh usage       kWh usage       Costs       Non-Electric Benefits         Existing Equipment       0       175601       Gas Heating (therms)       0         EE Equipment       0       108647       Gas Non-Heat. (therms)       0         Full Savings       0       66954       EE Equip. Cost       11117       Waste Water (gallons)       0         Average Cost/kWh       0.08       5356.32       0       0       0       0         %On Peak kWh Saved       100       100       100       100       0       0	Program EI  TRC AddOn	▼ State NY	<ul> <li>Classification</li> </ul>	Commercial (< 2 MW)	App No Example #4
Peak kW usageCostsNon-Electric BenefitsExisting Equipment017501Gas Heating (therms)0EE Equipment0108647Gas Non-Heat. (therms)0EE Equipment06695411117Water (gallons)0Full Savings06695411117Waste Water (gallons)0Average Cost/kWh0.085356.32000%On Peak kWh Saved100100100100100	Measure VSDH VSDH Measure Life 15	Measure Description	Drives on HVAC syste	ms	
Existing Equipment       0       175601       Oil ( gallons )       0         EE Equipment       0       108647       Gas Neating ( therms )       0         Full Savings       0       66954       11117       Waste Water (gallons)       0         Average Cost/kWh       0.08       5356.32       0       0       0       0         %On Peak kWh Saved       100       100       100       11117       11117       0	Peak kW usage kWh usage		Costs	Non-Electric Be	nefits
%On Peak kWh Saved 100	Existing Equipment 0 175601 EE Equipment 0 108647 Full Savings 0 66954 Average Cost/kWh 0.08 Est Agruel Cost/kWh 0.08	EE Equip. Cost EE Labor Cost EE Total Cost	G 11117 0 11117	Oil (gallons) Gas Heating (therms) as Non-Heat. (therms) Water (gallons) Waste Water (gallons) Other (\$)	
Calculated Incentive 5559.5 Anthonized Incention C000 50% of Deixed Cost	Calculated Incentive 5558 5		Entra Deviation		

- Project: Add VFDs to a 15 HP supply and 15 HP exhaust fans for a pool facility heating and ventilating unit.
- Energy Analysis and Findings:
  - o 66,954 kWh saved
  - o \$5,356 saved per year at \$0.08/kWh
- Project Costs
  - \$11,117 VFD
- Incentive
  - o \$5,559 Incentive
  - $\circ~$  Incentive is 50% of the incremental cost as the simple payback is bought down to 1 year.

National Grid 2013 Cus	tom Screening Too	ol Upstate NY -	v 1.0 Repo	rt Version - 1	.0			
Customer Name:	VSD Example - Add	l-On						
Project Description:	One older air compr	ressor is replace	d with a 100 hp \	/FD				
Existing Case	HV-3 supply fan (15	5 hp) and RF-1 r	eturn fan (15 hp)	at constant s	peed			
Proposed Case	Install VSD's to ope	rate the HV-3 ar	nd RF-1 at 80% s	peed.				
Utility Contact:				Pho	one Numb	ben:		
Program:	EI			A	pp Num b	er: Example #4		
State:	NY			CI	lass ificati	on: Commercial (< )	2 MW)	
Time Period	Energy (kW	) Reduction		Hours Per P	eriod	Ave	erage Demand	
Mutar	PerP	enod				Redu	ction Per Period	
December		0		0			0	
January		0		0			0	
February		0		0			0	
Summer		•		· · ·			~	
June		0		0			0	
July		0		0			0	
August		0		0			0	
September		0		0			0	
		-		-		1	-	
Measure Code: Measure Description: Measure Life:	Drives on H	VSDH VAC systems 15	TRC Method Existing Age DFP		AddOn 10 NA	RU A DJE U	IL IL	NA NA
			Incr/Full kWh		NA	Incr/Full Co	st	NA
			Ben A dj		NA	Cost A	dj	NA
Est Equip Costs		\$11,117						
Est Labor Costs		\$0	Oil (Gallons)		0	WasteWate (Gallon	er e)	0
Est Total Cost	K)W	\$11,117	Gas Heating (	Therms)	0	Water (Gallon	5)	0
Existing Equip	K W	NVH	Gas NonHeat	ng (Therms)	0	Other (	5)	\$0.0
Usage	0	175,601	Total NER 5 9	avinge	\$0.0			
Std Equip Usage	NA	NA	rotar NED 9 3	avinga	90.0			
EE Equip Usage	0	108,647	Pk Sum kW Rd	0.0				
Total Est Annual kWh		66.954	kW Years	0	kW	Years (A djEUL)		NA
Savings		0.00	Lifetime MWH	1004.3	Lifetime	MWH (A djEUL)		NA
Est Annual Energy Cos Savings	st	\$5,358						
% On Peak Energy Savings		100	Payback Without Incentive	2.1				
Proposed Incentive		\$5,559	Payback With Proposed Incentive	1.0				
			50% of Project	Cost				
					Cus	stomer Cost : \$5,559		

#### Step 3: Deliverables

- BC Screening Report (Analysis Report)
- .csv File
- EEM Breakout spreadsheet

Email the Report, .csv and the EEM Breakout SS to your National Grid sales representative for a technical review and the next step, Energy Assessment, Scoping Study, Tech Review or TA Study.

To export the current report and .csv File, while on the screening tool input screen: Click on <Report> Click on <Analysis Report> Click on <Export>

Now the current files, the BC screening report and the .csv file will upload automatically to your C drive file: CustTool\_NG/Cust2013\_NY\_v1 (see the screenshot below).

**BC Screening Report -** For the report to upload as the file report.htm below you have to view the report while in the screening tool and then it will be the most current file.

.csv File or as it is known in the file below, output.csv will be the current file if you export it from within the screening tool

TIP 4 – If you cut and paste an output.csv file into the CustTool\_NG/Cust2013\_NY\_v1 you can then go to the screening tool and <import> and it will populate the screening tool. Note: You need to copy and past the <u>two</u> files in order to save the files for each EEM screened.



## Step 4 - EEM Breakout Spreadsheet

Enter Screening results onto the spreadsheet.

Note - an example EEM BO spreadsheet will be provided, but feel free to make your own as long as the information is identical.

What is the EEM Breakout spreadsheet?

- It is an EEM Summary for a consistent deliverable
- Tool to calculate common gas and electric EEMs project cost
- A Sales Tool

Inputs:

- 1) Annual Gas and Electric Consumption
- 2) Information from the screening tools, gas and electric.

## Gas Screening Tool

Currently the gas screening tool is being revised. If you require the gas screening tool contact your National Grid representative for a copy and training.