

ENERGY EFFICIENCY PROGRAM FOR BUSINESS



DTE Energy
Know Your Own Power®

Custom Incentive Calculation Plan

This is a SAMPLE of what our engineering team will generate to analyze and review your project's energy savings & incentives.

APPLICATION NO.	DTE-17-XXXXX	DATE:	1-Dec-16
REVIEWER:	Mary Harmoney	PHONE EXT:	313-664-1900 EXT 70XXX
REQ. INCENTIVE:	\$10,220.00	TOTAL ESTIMATED kWh:	313,000
		CUSTOM SAVINGS: Mcf:	0
CUSTOMER:	Number One Paving, Inc. (NOP)		
FACILITY ADDRESS:	12345 Main St., Detroit		
CUSTOMER CONTACT & PHONE:	Paul James 313-555-1234		
CONTRACTOR:	Your Energy Savings Partner (YESP)		
CONTRACTOR CONTACT & PHONE:	Jane Simpson 313-222-4321		

SAMPLE

PROJECT DESCRIPTION:

Replace across-the-line starters with VFDs on each of 2 qty 200-hp motors for production exhaust air fans.

ITEMIZED MEASURES and ESTIMATED SAVINGS:

Measure(s)	Pre Application Estimated Savings		Application Project Cost	DTE Estimated Incentive
	kWh	Mcf		
Replace 2 qty starters with VFDs	313,000	0	\$ 42,000.00	\$ 10,220.00

ASSUMPTIONS:

- 1 No slip between the motors
- 2
- 3

ANALYSIS PLAN / IPMVP METHODOLOGY

- x Option A- Retrofit Isolation, Key Parameter(s) Measured
- Option B- Retrofit Isolation, All Parameters Measured
- Option C- Whole Facility, Utility Metering (Bills)
- Option D- Calibrated Simulation

Software & version

SAMPLE

KEY PROJECT PARAMETERS and INFORMATION

Parameter	Data Source ¹	Predicted Value per Application	
		Pre-Upgrade	Post-Upgrade
1 motor kW each	Field -installed Meter	149.2 kW TWA ²	120 kW TWA
2 motor annual run hours	Field-installed Meter	2500	2500
3 production for last 2 years	Production Report	To be provided with pre-upgrade data	
4 production for metering periods	Production Report	To be provided with metered data	
5 anticipated production for 2017	Production Report	To be provided	

1. Acceptable data sources are: a) manufacturer's specifications, b) field-installed automatic or manually-read meters, c) facility BAS, d) equipment control panel, e) production reports or f) other as deemed appropriate. 2. TWA = time-weighted average.

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APPLICATION NO.	DTE-17-XXXXX	DATE:	1-Dec-16
REVIEWER:	Mary Harmony	PHONE EXT:	313-664-1900 EXT 70XXX
REQ. INCENTIVE:	\$10,220.00	TOTAL ESTIMATED kWh:	313,000
		CUSTOM SAVINGS: Mcf:	0

DATA COLLECTION for METERED DATA³

Parameter	Meter			Sampling			
	Make	Model	Date Last Calibrated	Location ⁴	Interval	Period/Duration	
						Pre-Upgrade	Post-Upgrade
1 & 2	DENT	Elitepro XC	9/15/2016	at MCC	15 sec	2 weeks (336 hrs)	2 weeks

3. Raw, not summarized, data to be provided in MS Excel format. 4. Meter may be installed at equipment or at main panel serving equipment as appropriate.

MEASURE BASELINE and BASIS FOR ADJUSTMENT OR NORMALIZATION

Measured pre-upgrade energy data and historical production data

PROCEDURE or FORMULA FOR ENERGY SAVINGS

1) Establish/confirm relationship between production and energy consumption

$$2) \text{ Energy Saved} = \left(\frac{kW_{TWA} \times \text{Run Hrs}}{\text{Production}} \right)_{\text{Preupgrade Sample Period}} - \left(\frac{kW_{TWA} \times \text{Run Hrs}}{\text{Production}} \right)_{\text{Postupgrade Sample Period}} \times \text{Estimated 2017 Production}$$

NOTE: This is a generalized equation and may not apply to your project

Customer and or customer's representative agree to obtain and provide, at their own expense, the data requested below in order to evaluate the annual estimated energy and energy cost savings for the proposed project. External costs (that is, those not including customer internal labor) for obtaining this data may be included in the project cost used to evaluate the project incentive. All required pre-upgrade data should be provided prior to reservation of funds. All required post-upgrade data must be submitted prior to the issuing of incentives. Reserved incentive will be based on the evaluation of pre-upgrade data and therefore may differ from the amount requested. Actual incentive payment will be based on the evaluation of pre- and post-upgrade data and therefore may differ from the amount requested and or reserved.

SUBMISSIONS

Data or Information	Format	To Be Provided By	Date
Pre-upgrade metered energy data	MS Excel	YESP	12/22/16
Pre-upgrade production data during metering period	Report	NOP	12/22/16
Historical Production Data (2014 -2015)	Report	NOP	12/22/16
Anticipated 2017 Production Data	Report	NOP	12/22/16
Post-upgrade metered energy data	MS Excel	YESP	w/Final App
Post-upgrade production data during metering period	Report	NOP	w/Final App

AGREEMENT

Party	Name	Initials	Date
Customer	Paul Owner	PO	12/1/16
Contractor	Jane Simpson	JS	12/1/16
Contractor			
DTE Energy EEPB	Mary Harmony	MdH	12/1/16

SAMPLE

3/23/2017