# PAG Notification SDG&E Single Family Rebate Proposed Changes

San Diego Gas & Electric proposes the following changes to its Single Family Rebate program effective **February 1, 2007**. Changes are necessary in an effort to increase customer participation, standardize rebate specifications, and or to address current cold weather conditions.

# Pool pump and motor rebate changes

Because of small number of multi-speed pool pumps and motors rebated in 2006, the significant energy savings this measure provides and the influence that pool contractors have in the decision making process, SDG&E proposes increasing the incentive to the pool contractors for multi-speed pool pumps and motors in 2007.

Also, to further new pool pump/motor technology in the residential marketplace, SDG&E plans to introduce a variable-speed pool pump/motor pilot program in 2007 (as was discussed at the last PAG meeting). The SDG&E will contract with manufacturers to increase the number of trained contractors and to introduce variable-speed installations. The variable speed pool pump/motor provides greater energy savings and reduced on-peak demand and provides about 2-year payback on the customer investment. With trained contractors and product availability, we can continue to offer pool pump rebates as part of the single-family program even after the two-speed pool pumps/motors become part of California code in 2008.

# Specification change to dishwashers

In keeping with the current energy efficiency ratings set forth by Energy Star and the CEE (Consortium for Energy Efficiency), SDG&E is changing the existing rebate specifications for dishwashers to match the new 2007 Energy Star standards for these appliances. Also, there will not be a second tier for dishwashers.

2006 rebate specifications: Dishwashers – EF (energy factor) .62 or greater

2007 rebate specifications (based on changes to Energy Star specifications) Dishwashers – EF (energy factor) .65 or greater

# Additional measures for 2007

For the purpose of creating more statewide consistency, SDG&E will be adding the following measures to the Single Family program:

- 92% AFUE Central Natural Gas Furnaces
- Whole House Fans

Energy Efficiency Program Change Requisition

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Effects of Changes	
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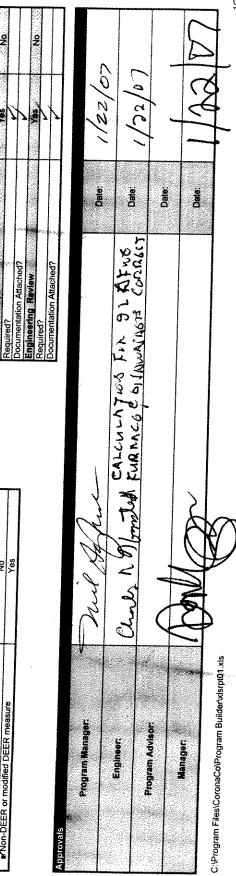
Structure Manager and State	allines .	2006	
2-18 W Kada		l Budget	\$2,466,891
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	Admin Budget 2006	Incentive Budget ano	A 2000 LET & UND BUDGET & NET Sayings			
Current Program	\$1,273,641		Total Budget 2006	kWh_2008	Therms 2006	kW 2006
Proposed Changes	\$1,273,641	\$1 193 250	\$2,466,891	9,989,150	84,575	9.353.73
(heread a current)	\$0		\$2,466,891 *n	9,989,150	94,575	9,353.73
Program Nama		Denner		5	0	a
	Admin_Budget_2007 \$1.197.068	Incentive Budget 2007	get 2007 Total Budget 2007	KWh_2007	Therms 2007	kW 2007
Proposed Changes Changes (Proposed · Current)	\$1,197,068	\$1,373,050	\$2,581,818 \$2,581,818	10,800,984	115,337 122 833	10,052.21
	20	\$11.700	0\$	27,453	7,485	19.0c0/01
Program Name Current Program	Admin_Budget_2008 51.017.998	Program Yea Incentive_Budget_2008	Program Year 2008 Budget & NET Savings	kWh_2008	Therms 2008	KW 2008
Proposed Changes Proposed Current	\$1,017,998 \$0	\$1,622,250 \$1,622,250	\$2,640,249 \$2,640,249	13,511,774 13,511,774	109,150 109,150	13,016.62
Program Name	Admin_Budget_2006-8	Cumulative Program Y Incentive_Budget_2006-8	30 Cumulative Program Years 2006-2003 Budget & NET Savings ive Budget 2006-8   Total Budget & NET Savings		0	0
Proposed Changes (Proposed - Current)	\$3,488,707 \$3,488,707 \$0	\$4,200,250 \$4,188,550	\$7,688,958 \$7,688,958	34,329,360	1 nerms 2006-8 319,061 326,547	kW 2006-8 32,422.56 32,428 96
	s Required	00/11	\$0 Regulatory Compliance Advice Letter Provinced?	27,453	7,485 Yas	9 No
Add New Measure #DEER Measure #Non-DEER or modified DEER measure	Yes Yes	<u>, 1 - 1 - 1 Billion   1 - 1 - 1</u>	Documentation Attached?			Na K

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#### Residential Dish Washing Machine Energy Savings seen at the Water Heater

The following is an excerpt from the CEE June 2006 Board Memorandum

Potential Energy Savings (Standard DW) Table A5 shows the per unit and aggregate average potential energy savings over the federal standard at the current and proposed CEE Tiers 1 and 2. Table A5: Annual Potential Energy Savings<sup>(1)</sup> er onn Per Unit Savings Savings Above Above Current Federal ENERGY CEE Tier Standard STAR (kWh/yr) Level (kWh/yr) Tier 1 20 79 37 Tier 2 96 126 67 Tier 3 Table Note: (1) Aggregate savings removed for clarity. Refer to original source for more information. SOW: Convert Average per unit Savings from kWh/yr to therms/yr Approach Use the savings values presented in Table A5 from the CEE June 2006 board memorandum excerpts and convert them to therms by first converting the Solution: dE/dt = (dQ/dt) / η / c1 egn. 1  $dQ/dt = (dE/dt) \times \eta \times c1$ eqn. 1a dE/dt = energy consumed to heat water (Btu/yr)

dQ/dt = heat transfer rate to water (Btu/yr)

 $\eta$  = water heater efficiency at transferring fuel source energy to water

for NG = 60%, for elec = 88%

c1 = energy conversion factor for NG = 100,000 Btu/therm

for elec = 3413 Btu/kWh

					Average		Average
					per unit		per unit
		Per Unit			Savings		Savings
	Per Unit	Savings		Energy	above	Energy	above
	Savings	Above		Delivered to	Federal	Delivered to	Energy
	Above	Current		Water	Standard	Water	Star eqn.
	Federal	ENERGY		Savings,	s eqn. 1	Savings,	1
CEE Tier	Standard	STAR		eqn. 1a	(therms/y	eqn. 1a	(therms/y
Level	(kWh/yr)	(kWh/yr)		(Btu/yr)	r)	(Btu/yr)	r)
Tier 1	79	20		237,271.76	4.0	60,068.80	1.0
Tier 2	96	37		288,330.24	4.8	111,127.28	1.9
Tier 3	126	67		378,433.44	6.31	201,230.48	3.4
			-		1	Solution is hi	ghlighted i

# SECTION 1 – GENERAL MEASURE & BASELINE DATA

## **1.1 Measure Summary**

- Measure Name: 0.65 Energy Factor Dishwasher
- End Use: Water Heating
- Effective Useful Life (EUL): 13Years

Definitions of each activity type from DEER Measure Cost Users Guide (v2.01):

- $\Rightarrow$  Retrofit (RET) replacing a working technology prior to failure
- $\Rightarrow$  Replace-on-burnout (ROB) replacing a technology at the end of its useful life
- ⇒ New construction (NEW) installing a technology in a new construction or major renovation project ROB

#### • Net-to-Gross Ratio (NTG): 0.80

#### **Gross Annual Savings:**

Unit of	Building	Building	Climate	Peak	kWh	Therms
Measure	Туре	Vintage	Zone	kW		
0.65 EF	Single	N/A	N/A	.0009	27	4.7
Dishwasher	Family					

#### Measure Cost Data:

Unit of	Program	Base	Measure	Incremental	Labor	Installed
Measure	Strategy	Equipment	Equipment	Cost	Cost	Cost
		Cost	Cost			
72 Kbtu	ROB	\$292.63	\$674.15	\$381.50	\$0	\$674.15
Furnace						

## 1.2 Measure Description & Background

- Measure Description: 0.65 EF Dishwasher
- Related DEER Measure: No. Assumes 25% above federal standard
- Base Case for Savings Estimate (Existing and Above Code):\_0.46 EF

## 1.3 Load Shape

Indicate applicable measure load shape(s)

## SECTION 2 – SAVINGS CALCULATION (ENERGY AND DEMAND)

## 2.1 Energy Savings Estimation Methodologies (Electric & Natural Gas)

Describe energy savings estimation methodologies. Include explanation and sample calculation including assumptions for hours of operation, energy interactive effects, etc., as applicable and cite references. Calculation methodology must meet commonly-accepted industry standards, such as ASHRAE standards, EM&V protocol, etc.

#### 2.2 Peak Demand Reduction Estimation Methodologies (Electric)

Describe peak demand reduction estimation methodologies. Include explanation and sample calculation including assumptions for coincident diversity factors, demand interactive effects, etc. as applicable and cite references. Calculation methodology must meet commonly-accepted industry standards, such as ASHRAE standards, EM&V protocol, etc.

# SECTION 3 – BASE CASE & MEASURE COSTS

Provide description of base case and measure costs, and explanation of which cost is used for different program strategies.

#### Definitions from DEER Measure Cost Users Guide (v2.01):

- $\Rightarrow$  Base equipment cost the cost of the baseline efficiency technology
- $\Rightarrow$  Measure equipment cost the cost of the energy-efficient technology
- ⇒ Incremental cost the difference between the measure equipment cost and the base equipment cost
- ⇒ Labor cost the installation cost of the measure including contractor overhead & profit
- $\Rightarrow$  Installed cost the sum of the measure equipment cost and the labor cost

#### 3.1 Base Case Costs

Provide description of base case costs, including base equipment, installation labor, maintenance, etc. as applicable.

#### **3.2 Measure Costs**

Provide description of measure case costs, including measure equipment, installation labor, maintenance, etc. as applicable.

## **3.3 Incremental Measure and Installed Costs**

Provide explanation of what costs (incremental measure and installed costs) are used for different program strategies.

## SECTION 4: REFERENCES AND CITATION

Provide references and citations, such as:

- Related EM&V studies (Ex Post Data, etc.)
- Market potential & saturation (RASS, CEUS, etc.)
- Engineering/industry references

# **SECTION 5 – APPENDICES**

- A. Document Revision History, including revision approvals
- B. Tables

C. Figures D. Lists

# SECTION 1 – GENERAL MEASURE & BASELINE DATA

#### **1.1 Measure Summary**

- Measure Name: 92% AFUE Central Natural Gas Furnace
- End Use: HVAC Space Heating
- Effective Useful Life (EUL): Provide EUL for Retrofit (RET) and Replace on Burnout (ROB) and/or New Construction (NEW), if applicable. Must include reference (most recent M&V or ET study, DEER, Energy Efficiency Policy Manual, etc). 18 Years

Definitions of each activity type from DEER Measure Cost Users Guide (v2.01):

- ⇒ Retrofit (RET) replacing a working technology prior to failure
- $\Rightarrow$  Replace-on-burnout (ROB) replacing a technology at the end of its useful life
- ⇒ New construction (NEW) installing a technology in a new construction or major renovation project ROB
- Net-to-Gross Ratio (NTG): Provide NTG for different program strategies that may apply to this measure. Must include reference (most recent M&V or ET study, DEER, Energy Efficiency Policy Manual, etc). 0.89

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Unit of	Building	Building	Climate	Peak	kWh	Therms
Measure	Туре	Vintage	Zone	kW		
72 Kbtu	Single	50%	10	0	0	40
Furnace	Family	Pre1978				
		& 50%				
		1978-				
		1992				

#### **Gross Annual Savings:**

#### Measure Cost Data:

Unit of	Program	Base	Measure	Incremental	Labor	Installed
Measure	Strategy	Equipment	Equipment	Cost	Cost	Cost
		Cost	Cost			
72 Kbtu	ROB	\$1392.94	\$1052.68	\$549.36	\$836.0	\$1915.6
Furnace					1	9

## 1.2 Measure Description & Background

• Measure Description: Provide brief description of measure

- Related DEER Measure: If measure is in DEER, indicate DEER measure and provide DEER measure ID/ run ID numbers, as well as a brief explanation on why the DEER numbers are not applicable RSFm1075RFC92 & RSFm1085RFC92
- Base Case for Savings Estimate (Existing and Above Code): Provide description of measure base case and cite any codes and standards requirement analysis as applicable. (Include applicable references in Section 4) 78 AFUE

# 1.3 Load Shape

Indicate applicable measure load shape(s)

# SECTION 2 – SAVINGS CALCULATION (ENERGY AND DEMAND)

## 2.1 Energy Savings Estimation Methodologies (Electric & Natural Gas)

Describe energy savings estimation methodologies. Include explanation and sample calculation including assumptions for hours of operation, energy interactive effects, etc., as applicable and cite references. Calculation methodology must meet commonly-accepted industry standards, such as ASHRAE standards, EM&V protocol, etc.

## 2.2 Peak Demand Reduction Estimation Methodologies (Electric)

Describe peak demand reduction estimation methodologies. Include explanation and sample calculation including assumptions for coincident diversity factors, demand interactive effects, etc. as applicable and cite references. Calculation methodology must meet commonly-accepted industry standards, such as ASHRAE standards, EM&V protocol, etc.

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# SECTION 4: REFERENCES AND CITATION

Provide references and citations, such as:

- Related EM&V studies (Ex Post Data, etc.)
- Market potential & saturation (RASS, CEUS, etc.)
- Engineering/industry references

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CYCLE_START_YR FILING_MSR_NBR FILING_MSR_DESC	UTILITY_ID PGM_CD	SECTOR_CD BLDG_TYP FORM_CD GR_SV_KWH GR_SV_THERM GR_SV_KW GR_SV_KW_NC	C NT_TO_GRS PGM_TYP_CD EIMPACT GIMPACT PIMPACT ECIMPACT GCIMPACT
2007 315014 Central Gas Furnace 92% AFUE	SDG&E SFR	R SFM 0 40.176 0	0.89 6 0 0.5580595 0 0 0.4424805

CYCLE_START_YR			WGHT_PCT	
2006	315014	RSFm1075RFC92	50	03-Nov-05 HDEJESUS Y
2006	315014	RSFm1085RFC92	50	03-Nov-05 HDEJESUS Y

Vintages 50% pre-1978 50% 1978-1992

PCIMPACT SVGS_TYP_FLG	SVGS_MEMO	END_USE	AR_END_US	E NEW_SZ_TYP	MSR_LF F	FRCST_UNITS GENERAL_MEN	O MSR_INCNTV O	CUST_CST (	CUST_CST_MEMO EQUIPCOST
0 N	Used Riverside climate zone as forecast climate zone - Used 72 Kbtu as the common unit per DEER	Space Cooling/Heating	HVAC	72 kBtuh unit	18	4000	\$200.00	\$549.36	\$14.62

EQUIPCOST_FLG LABORCOST LABORCOST_FLG	INCEQUIPCOST INCEQUIF	COST_FLG INSTALLEDCOST INSTAL	LEDCOST_FLG ELEC_LOAD_SHAPE PCT_TOU_AC_ADJ	GAS_SVGS_PROFILE COMBUS	ST_TYP_CD ELEC_GRS_NF	PV_BEN GAS_GRS_N	IPV_BEN CALC_BEN_FLG
\$11.99	\$7.63	\$26.61		Winter Only	14	\$0.00	\$334.72

DEER_CALC_TYP KWH_OVRD THERM_OVRD	KW_OVRD CUST_CST_	OVRD LIFE_OVRD	NO_SYNC_FLG	ORIG_FILING_MSR_NBR	CMPLT_FLG CMPLT_BY	CMPLT_DT_TM_LT_UPDT_BY	LT_UPDT_DT_TM PT_LT_UPDT_BY	PT_LT_UPDT_DT_TM
1 N Y	N Y	N	N			HDEJESUS	10-Nov-05 RDAVIS	14-Nov-05

scenario_ic filin	g_msr_nbr_msr_	chang new_flg	filing_msr_desc	filing_m	sr_frcst_units frcst_u	nits_gr_sv_kwh gr_sv_kwh
225	229005 Y	Ν	A/C - Room unit - Energy Star	Ν	1000 N	127 N
225	229006 Y	Ν	A/C - Whole-House Fan	Ν	50 Y	23.7375 N
225	229012 N	Ν	Ducted Evaporative Cooler	Ν	0 N	918.024 N
225	229013 Y	Ν	Attic Insulation	Ν	1100000 N	0.079248 N
225	229014 N	Ν	Dbl Pane Clr Windws to Dbl Pane, Med Low-E Coating	Ν	0 N	1.397944 N
225	229015 Y	Ν	HE Electric Water Heater (EF=0.93)	Ν	0 Y	149.0462 N
225	229016 Y	Ν	Heating - Gas 90% AFUE	Ν	0 N	0 N
225	229017 Y	Ν	Motor - High Effncy Pool Pump and Motor Sngl Speed	Ν	1800 N	650 N
225	229046 Y	Ν	Motor - Pool Pump (two-speed)	Ν	700 N	1400 N
225	229048 Y	Ν	Wall R-0 to R-13 Insulation	Ν	600000 N	0.194606 N
225	229049 N	Ν	Water Heating - Dishwasher - Energy Star EF=0.58	Ν	0 N	19.4 N
225	229050 Y	Ν	Water Heating -High Energy Factor Unit-Gas Storage	Ν	1000 N	0 N
225	229053 N	Ν	Water Heating - Clothes Washer - Tier II MEF=1.60	Ν	0 N	20.83 N
225	229087 N	Ν	25 W Modlr CFL->=1,600 Lumens-pin based hrdwire	Ν	0 N	57.65175 N
225	229088 Y	Ν	Refrigerator - Energy Star(Retail)	Ν	2500 Y	60.53 N
225	229089 Y	Ν	Pool Pump Timeclock Reset Agreement	Ν	11500 N	900 N
225	229090 N	Ν	Water Heating - Clothes Washer - Tier III MEF=1.80	Ν	0 N	35.83 N
225	229091 Y	Ν	Water Htng-Dshwshr-Energy Star Tier I EF=0.62-0.67	Ν	0 Y	24.2 N
225	229092 Y	Ν	Water Htng-Dshwshr-Energy Star Tier II EF=0.68+	Ν	0 Y	30.2 N
225	229093 Y	Y	Dishwasher Energy Star (EF+0.65+)	Ν	10635 Y	27 Y
225	229094 Y	Y	Heating - Gas 92% AFUE	Ν	200 Y	0 Y

gr_sv_theri gr_sv	_ther⊧gr_sv_kw gr_sv_	_kw_nt_to_grs nt_to_grs	s_imsr_incntv msr_inc	ntv cust_cst cust_c	st_fl_msr_lf msr_lf_flg	new_sz_ty new_	sz_ty ar_end_u	usiar_end_usi
0 N	0.0987044 N	0.8 N	50 N	106 N	15 N	Unit N	HVAC	N
-0.0465 N	0.0231 N	0.89 N	50 Y	600.84 N	15 N	1,000 sqft I N	HVAC	N
-36.951 N	1.6809 N	0.89 N	300 N	1220.16 N	15 N	1000 sqft FN	HVAC	Ν
0.022667 N	9.63224E-05 N	0.89 N	0.15 N	0.757 N	20 N	1000 sqft r(N	HVAC	Ν
0 N	0.00147241 N	0.89 N	0.5 N	1.68 N	20 N	Square Fo(N	HVAC	N
0 N	0.032790171 N	0.89 N	30 N	72.3014 N	15 N	Hot Water N	Misc	N
23.65 N	0 N	0.89 N	100 Y	333 N	18 N	50,000 Btu N	HVAC	N
0 N	0.104 N	0.89 N	30 N	50.91 N	10 N	Swimming N	Misc	Ν
0 N	0.54 N	0.89 N	300 N	182.1777 N	10 N	Swimming N	Misc	Ν
0.083803 N	0.00015757 N	0.89 N	0.15 N	1.3222 N	20 N	sqft N	HVAC	Ν
3.4 N	0.006 N	0.8 N	30 N	133.6443 N	13 N	Dishwashe N	Misc	Ν
9.8591 N	0 N	0.89 N	30 N	175.2956 N	13 N	Hot Water N	Misc	N
3.54 N	0.0087 N	0.8 N	75 N	606.86 N	14 N	Clothes W{N	Misc	Ν
0 N	0.0054675 N	0.8 N	Ν	23.8042 N	16 N	Bulb N	Light	Ν
0 N	0.0102901 N	0.8 N	50 N	141.5197 N	18 N	Refrigerato N	Misc	Ν
N	1 N	0.8 N	25 N	10 N	2 N	Time Clock N	Misc	N
6.08 N	0.0149 N	0.8 N	N	518.78 N	14 N	Clothes WaN	Misc	N
4.24 N	0.008 N	0.8 N	30 N	183.64 N	13 N	Dishwashe N	Misc	Ν
5.312 N	0.01 N	0.8 N	50 N	383.64 N	13 N	Dishwashe N	Misc	Ν
4.7 Y	0.009 Y	0.8 N	30 Y	385 Y	13 Y	Dishwashe N	Misc	Ν
40 Y	0 Y	0.89 Y	200 Y	549.36 Y	18 Y	72,000 Btu N	HVAC	Ν

cmnt_txt el	lec_grs_n	gas_grs_n c	alc_ben_f calc_ben_{ It_updt_by I	t_updt_dt_tm filing_msr_desc1	frcst_units1	gr_sv_kwh
	226.5395	0	NSYBERT	1/22/2007 7:48 A/C - Room unit - Energy Star	1000	127
See SFR L	42.3424	0	LLOVELES	2/13/2007 16:22 A/C - Whole-House Fan	0	23.7375
	1637.549	0	MWOLD	5/19/2005 8:52 Ducted Evaporative Cooler	0	918.024
	0.1663	0.1888	NSYBERT	1/22/2007 7:48 Attic Insulation	1100000	0.079248
	2.9335	0		Double Pane Clear Windows to Double Pane, Med Low-E Coating	0	1.397944
See SFR L	112.6506	0	LLOVELES	2/13/2007 16:22 HE Electric Water Heater (EF=0.93)	50	149.0462
See SFR L	0	197.0363	LLOVELES	2/13/2007 16:22 Heating - Gas 90% AFUE	0	0
:	356.6094	0	NSYBERT	1/22/2007 7:48 Motor - High Efficiency Pool Pump and Motor Single Speed	1800	650
-	768.0818	0	NSYBERT	1/22/2007 7:48 Motor - Pool Pump (two-speed)	700	1400
	0.4084	0.6982	NSYBERT	1/22/2007 7:48 Wall R-0 to R-13 Insulation	600000	0.194606
	13.2746	19.9358	AVELAZQI	11/11/2005 12:17 Water Heating - Dishwasher - Energy Star EF=0.58	0	19.4
	0	57.8085	NSYBERT	1/22/2007 7:48 Water Heating -High Energy Factor Unit - Gas Storage	1000	0
	15.0138	21.9432	NSYBERT	5/4/2005 9:13 Water Heating - Clothes Washer - Tier II MEF=1.60	0	20.83
	45.4087	0		25 Watt Modular CFL - >=1,600 Lumens - pin based hardwire	0	57.65175
See SFR L	50.9732	0	LLOVELES	2/13/2007 16:22 Refrigerator - Energy Star(Retail)	1900	60.53
	129.9226	0	NSYBERT	1/22/2007 7:48 Pool Pump TImeclock Reset Agreement	11500	900
	27.0783	37.6877	NSYBERT	1/22/2007 7:48 Water Heating - Clothes Washer - Tier III MEF=1.80	0	35.83
	19.3238	24.8611	LLOVELES	2/13/2007 16:22 Water Heating - Dishwasher - Energy Star Tier I EF=0.62-0.67	6500	24.2
	24.1148	31.1467	LLOVELES	2/13/2007 16:22 Water Heating - Dishwasher - Energy Star Tier II EF=0.68+	4135	30.2
Savings ba	16.5996	20.0634 Y	LLOVELES	2/13/2007 16:22		
Savings in	0	213.224 Y	LLOVELES	2/13/2007 16:22		

gr_sv_ther	gr_sv_kw1 r	nt_to_grs1 ms	r_incntv	cust_cst1	msr_lf1 new_sz_typ1	ar_end_use1	New Measure Code	Effective Year PGM_CI	D SECTOR_CD
0	0.098704	0.8	50	106	15 Unit	HVAC		2006 SFR	R
-0.0465	0.0231	0.89	100	600.84	15 1,000 sqft house	HVAC		2006 SFR	R
-36.951	1.6809	0.89	300	1220.16	15 1000 sqft House	HVAC		2006 SFR	R
0.022667	9.63E-05	0.89	0.15	0.757	20 1000 sqft roof, 1000 SqFt	HVAC		2006 SFR	R
0	0.001472	0.89	0.5	1.68	20 Square Foot	HVAC		2006 SFR	R
0	0.03279	0.89	30	72.3014	15 Hot Water Tank	Misc		2006 SFR	R
23.65	0	0.89	1	333	18 50,000 Btu unit	HVAC		2006 SFR	R
0	0.104	0.89	30	50.91	10 Swimming Pool Pump	Misc		2006 SFR	R
0	0.54	0.89	300	182.1777	10 Swimming Pool Pump	Misc		2006 SFR	R
0.083803	0.000158	0.89	0.15	1.3222	20 sqft	HVAC		2006 SFR	R
3.4	0.006	0.8	30	133.6443	13 Dishwasher	Misc		2006 SFR	R
9.8591	0	0.89	30	175.2956	13 Hot Water Tank	Misc		2006 SFR	R
3.54	0.0087	0.8	75	606.86	14 Clothes Washer, CWasher	Misc		2006 SFR	R
0	0.005468	0.8		23.8042	16 Bulb	Light		2006 SFR	R
0	0.01029	0.8	50	141.5197	18 Refrigerator	Misc		2006 SFR	R
	1	0.8	25	10	2 Time Clock	Misc		2006 SFR	R
6.08	0.0149	0.8		518.78	14 Clothes Washer, CWasher	Misc		2006 SFR	R
4.24	0.008	0.8	30	183.64	13 Dishwasher, DWasher	Misc		2006 SFR	R
5.312	0.01	0.8	50	383.64	13 Dishwasher, DWasher	Misc		2006 SFR	R
							SFR07001	2006 SFR	R
							HVAC136	2007 SFR	R