



SCHEDULE EECC

Sheet 1

ELECTRIC ENERGY COMMODITY COST

APPLICABILITY

Applicable to all customers who receive UDC bundled service. Time of Use periods are as defined in the corresponding UDC rate schedules.

TERRITORY

Applicable throughout the territory served by the Utility.

RATES

This schedule has two purposes: (1) billing UDC Bundled Service customers for commodity energy, which consists of Utility supplied electricity sold by SDG&E to its customers and Department of Water Resources (DWR) supplied electricity sold by DWR to SDG&E customers with SDG&E acting as billing agent; and (2) developing DWR and Utility Supplied Energy Percentage. The rate tables show EECC fixed billing rates for all retail rate schedules. The commodity rates do not include the DWR Bond Charge applicable under Schedule DWR-BC.

Commodity Rates

<u>Schedules DR, DM, DS, DT, DT-RV</u>	<u>(\$/kWh)</u>	
Summer		
Baseline	0.07808	
101% - 130% of Baseline	0.07808	
131% - 200% of Baseline	0.07808	
Above 200% of Baseline	0.07808	
Winter		
Baseline	0.05788	
101% - 130% of Baseline	0.05788	
131% - 200% of Baseline	0.05788	
Above 200% of Baseline	0.05788	
<u>Schedules DR-LI, and medical baseline customers</u>	<u>(\$/kWh)</u>	
Summer		
Baseline	0.07808	
101% to 130% of Baseline	0.07808	
131% to 200% of Baseline	0.07808	
Above 200% of Baseline	0.07808	
Winter		
Baseline	0.05788	
101% to 130% of Baseline	0.05788	
131% to 200% of Baseline	0.05788	
Above 200% of Baseline	0.05788	

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Sheet 2

ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Commodity Rates (Continued)

<u>Schedules E-LI (Non-residential rate schedule)</u>	<u>(\$/kWh)</u>	
Summer	0.04685	
Winter	0.04261	
<u>Schedules DR-TOU</u>		
Summer		
On-Peak: Baseline	0.15890	
On-Peak: 101% to 130% of Baseline	0.15890	
On-Peak: 131% - 200% of Baseline	0.15890	
On-Peak: Above 200% of Baseline	0.15890	
Off-Peak: Baseline	0.05930	
Off-Peak: 101% to 130% of Baseline	0.05930	
Off-Peak: 131% to 200% of Baseline	0.05930	
Off-Peak: Above 200% of Baseline	0.05930	
Winter		
On-Peak: Baseline	0.06438	
On-Peak: 101% to 130% of Baseline	0.06438	
On-Peak: 131% to 200% of Baseline	0.06438	
On-Peak: Above 200% of Baseline	0.06438	
Off-Peak: Baseline	0.05583	
Off-Peak: 101% - 130% of Baseline	0.05583	
Off-Peak: 131% - 200% of Baseline	0.05583	
Off-Peak: 200% of Baseline	0.05583	
<u>Schedule DR-SES</u>		
Summer: On-Peak	0.14426	
Summer: Semi-Peak	0.06831	
Summer: Off-Peak	0.05361	
Winter: Semi-Peak	0.06299	
Winter: Off-Peak	0.05518	
<u>Schedules EV-TOU and EV-TOU-2</u>		
Summer		
On-Peak	0.14365	
Off-Peak	0.05625	
Super Off-Peak	0.03467	
Winter		
On-Peak	0.06427	
Off-Peak	0.05834	
Super Off-Peak	0.03650	

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Sheet 3

ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Commodity Rates (Continued)

<u>Schedule A</u>	<u>(\$/kWh)</u>	
Summer		
Secondary	0.08760	
Primary	0.08609	
Winter		
Secondary	0.06248	
Primary	0.06139	
 Schedule A-TC		
Summer	0.08046	
Winter	0.06165	
 <u>Schedule A-TOU and OL-TOU</u>		
Summer		
On-Peak	0.16396	
Semi-Peak	0.06787	
Off-Peak	0.05018	
Winter		
On-Peak	0.07512	
Semi-Peak	0.06987	
Off-Peak	0.05091	
 <u>Schedule AD</u>		
Summer		
Secondary	3.59	
Primary	3.54	
Winter		
Secondary	0.11	
Primary	0.11	
 <u>Energy</u>		
Summer		
Secondary	0.06867	
Primary	0.06749	
Winter		
Secondary	0.07076	
Primary	0.06953	

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Sheet 4

ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Commodity Rates (Continued)

<u>Schedule AL-TOU</u>	<u>(\$/kW)</u>	
Maximum On-Peak Demand: Summer		
Secondary	5.21	
Primary	5.14	
Secondary Substation	5.21	
Primary Substation	5.14	
Transmission	5.01	
Maximum On-Peak Demand: Winter		
Secondary	0.17	
Primary	0.16	
Secondary Substation	0.17	
Primary Substation	0.16	
Transmission	0.16	
On-Peak Energy: Summer	<u>(\$/kWh)</u>	
Secondary	0.08769	
Primary	0.08634	
Secondary Substation	0.08769	
Primary Substation	0.08634	
Transmission	0.08486	
Semi-Peak Energy: Summer		
Secondary	0.07105	
Primary	0.06993	
Secondary Substation	0.07105	
Primary Substation	0.06993	
Transmission	0.06880	
Off-Peak Energy: Summer		
Secondary	0.05143	
Primary	0.05047	
Secondary Substation	0.05143	
Primary Substation	0.05047	
Transmission	0.04981	
On-Peak Energy: Winter		
Secondary	0.08285	
Primary	0.08160	
Secondary Substation	0.08285	
Primary Substation	0.08160	
Transmission	0.08015	
Semi-Peak Energy: Winter		
Secondary	0.07617	
Primary	0.07495	
Secondary Substation	0.07617	
Primary Substation	0.07495	
Transmission	0.07376	

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Sheet 5

ELECTRIC ENERGY COMMODITY COST

RATES (Continued)
Commodity Rates (Continued)

<u>Schedule AL-TOU</u>	<u>Continued</u>	
Off-Peak Energy: Winter	(\$/kWh)	
Secondary	0.05676	
Primary	0.05569	
Secondary Substation	0.05676	
Primary Substation	0.05569	
Transmission	0.05496	
<u>Schedule DG-R</u>	(\$/kWh)	
On-Peak Energy: Summer		
Secondary	0.14123	
Primary	0.13989	
Secondary Substation	0.14123	
Primary Substation	0.13989	
Transmission	0.13840	
Semi-Peak Energy: Summer		
Secondary	0.07105	
Primary	0.06993	
Secondary Substation	0.07105	
Primary Substation	0.06993	
Transmission	0.06880	
Off-Peak Energy: Summer		
Secondary	0.05143	
Primary	0.05047	
Secondary Substation	0.05143	
Primary Substation	0.05047	
Transmission	0.04981	
On-Peak Energy: Winter		
Secondary	0.08666	
Primary	0.08541	
Secondary Substation	0.08666	
Primary Substation	0.08541	
Transmission	0.08396	
Semi-Peak Energy: Winter		
Secondary	0.07617	
Primary	0.07495	
Secondary Substation	0.07617	
Primary Substation	0.07495	
Transmission	0.07376	
Off-Peak Energy: Winter		
Secondary	0.05676	
Primary	0.05569	
Secondary Substation	0.05676	
Primary Substation	0.05569	
Transmission	0.05496	

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Sheet 6

ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Commodity Rates (Continued)

<u>Schedule AY-TOU</u>	<u>(\$/kW)</u>	
Maximum On-Peak Demand: Summer		
Secondary	5.21	
Primary	5.14	
Transmission	5.01	
Maximum On-Peak Demand: Winter		
Secondary	0.17	
Primary	0.16	
Transmission	0.16	
On-Peak Energy: Summer	(\$/kWh)	
Secondary	0.08769	
Primary	0.08634	
Transmission	0.08486	
Semi-Peak Energy: Summer		
Secondary	0.07105	
Primary	0.06993	
Transmission	0.06880	
Off-Peak Energy: Summer		
Secondary	0.05143	
Primary	0.05047	
Transmission	0.04981	
On-Peak Energy: Winter		
Secondary	0.08285	
Primary	0.08160	
Transmission	0.08015	
Semi-Peak Energy: Winter		
Secondary	0.07617	
Primary	0.07495	
Transmission	0.07376	
Off-Peak Energy: Winter		
Secondary	0.05676	
Primary	0.05569	
Transmission	0.05496	

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6C11

Issued by

Date Filed

Dec 29, 2011

Advice Ltr. No. 2323-E

Lee Schavrien

Effective Jan 1, 2012

Senior Vice President

Decision No. _____

Resolution No. _____



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Sheet 7

ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Commodity Rates (Continued)

Schedule A6-TOU

Maximum Demand at Time of System Peak: Summer	(\$/kW)	
Primary	6.60	
Primary Substation	6.60	
Transmission	6.45	
Maximum Demand at Time of System Peak: Winter		
Primary	0.04	
Primary Substation	0.04	
Transmission	0.04	
On-Peak Energy: Summer		
Primary	0.08634	
Primary Substation	0.08634	
Transmission	0.08486	
Semi-Peak Energy: Summer		
Primary	0.06993	
Primary Substation	0.06993	
Transmission	0.06880	
Off-Peak Energy: Summer		
Primary	0.05047	
Primary Substation	0.05047	
Transmission	0.04981	
On-Peak Energy: Winter		
Primary	0.08160	
Primary Substation	0.08160	
Transmission	0.08015	
Semi-Peak Energy: Winter		
Primary	0.07495	
Primary Substation	0.07495	
Transmission	0.07376	
Off-Peak Energy: Winter		
Primary	0.05569	
Primary Substation	0.05569	
Transmission	0.05496	

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7C11

Issued by

Date Filed

Dec 29, 2011

Advice Ltr. No. 2323-E

Lee Schavrien

Effective Jan 1, 2012

Senior Vice President

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SCHEDULE EECC

ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Commodity Rates (Continued)

<u>Schedule PA-T-1</u>			
Demand: On-Peak Summer		<u>(\$/kW)</u>	
Option C			
Secondary		5.33	
Primary		5.26	
Transmission		5.13	
Option D			
Secondary		5.56	
Primary		5.48	
Transmission		5.35	
Option E			
Secondary		5.45	
Primary		5.37	
Transmission		5.24	
Option F			
Secondary		5.21	
Primary		5.14	
Transmission		5.01	
Demand: On-Peak: Winter			
Option C			
Secondary		0.17	
Primary		0.16	
Transmission		0.16	
Option D			
Secondary		0.18	
Primary		0.18	
Transmission		0.17	
Option E			
Secondary		0.17	
Primary		0.17	
Transmission		0.17	
Option F			
Secondary		0.18	
Primary		0.18	
Transmission		0.17	
On Peak Energy: Summer			
Secondary		0.08769	
Primary		0.08634	
Transmission		0.08486	
Semi-Peak Energy: Summer			
Secondary		0.07105	
Primary		0.06993	
Transmission		0.06880	
Off-Peak Energy: Summer			
Secondary		0.05143	
Primary		0.05047	
Transmission		0.04981	

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ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Commodity Rates (Continued)

<u>Schedule PA-T-1 (Continued)</u>	(\$/kWh)	
On-Peak Energy: Winter		
Secondary	0.08285	
Primary	0.08160	
Transmission	0.08015	
Semi-Peak Energy: Winter		
Secondary	0.07617	
Primary	0.07495	
Transmission	0.07376	
Off-Peak Energy: Winter		
Secondary	0.05676	
Primary	0.05569	
Transmission	0.05496	
 <u>Schedule PA</u>	 (\$/kWh)	
Summer	0.06479	
Winter	0.07558	
 <u>Schedules LS-1, LS-2, LS-3, OL-1, and DWL</u>	 (\$/kWh)	
All Usage	0.05044	
<u>Schedules OL-2</u>	(\$/kWh)	
All Usage	0.06487	

DWR Power Charge

Pursuant to CPUC Decision 11-12-005, DWR's Power Charge is 4.083 cents per kWh.

Franchise Fees

A Franchise Fee Differential of 5.78% will be applied to the total bills calculated under this schedule, including DWR charges, for all customers residing within the corporate limits of the City of San Diego. Such Franchise Fee Differential shall be so indicated and added as a separate item to bills rendered to such customers.

Franchise Fees associated with DWR electricity sales will be reflected in a separate line item on customer bills titled "Franchise Fees for Electric Energy Supplied by Others".

Seasonal Periods

The seasonal periods are defined as the following:

Residential:

 Summer: May 1 – October 31
 Winter: November 1 – April 30

All other classes:

 Summer: May 1 – September 30
 Winter: October 1 – April 30

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ELECTRIC ENERGY COMMODITY COST

RATES (Continued)

Distribution Loss Factors (DLFs)

The DLF_{TLL} for each voltage level includes a factor for lost and unaccounted for energy. DLF_{TLL} will be calculated by the utility based on the forecast hourly SDG&E UDC Service Area Load (Direct Access, plus UDC customers, including the Hourly EECC Rate Option Service) per Decision 97-08-056, as modified by Decision 97-11-026. The hourly DLF_{TLL} will be broken out by service voltage level and made available each day to market participants during the day-ahead market. The utility will calculate the hourly DLF_{TLL} by applying the following formulae:

a. Secondary Voltage Class Customers

$$\begin{aligned} \text{DLF}_{\text{DLL}} &= 1 + [\text{Losses/Load}] \\ \text{DLF}_{\text{TLL}} &= 1.0065 \times \text{DLF}_{\text{DLL}} \end{aligned}$$

Where:

$$\begin{aligned} \text{Losses} &= [0.0000090935 \times (\text{SysLoad})^2] + 27.21 \\ \text{Load} &= -[0.00000804463 \times (\text{SysLoad})^2] + [0.8586372 \times \text{SysLoad}] - 24.0524567 \\ \text{SysLoad} &= \text{SDG\&E system load during hourly period in MW.} \end{aligned}$$

b. Primary Voltage Class Customers

$$\begin{aligned} \text{DLF}_{\text{DLL}} &= 1 + (\text{Losses/Load}) \\ \text{DLF}_{\text{TLL}} &= 1.0065 \times \text{DLF}_{\text{DLL}} \end{aligned}$$

Where:

$$\begin{aligned} \text{Losses} &= [0.0000001523524 \times (\text{SysLoad})^2] + 0.427367656 \\ \text{Load} &= -[0.000001181634 \times (\text{SysLoad})^2] + [0.12612 \times \text{SysLoad}] - 3.533 \\ \text{SysLoad} &= \text{SDG\&E system load during hourly period in MW.} \end{aligned}$$

c. Primary at Substation Voltage Class Customers

$$\begin{aligned} \text{DLF}_{\text{DLL}} &= 1 + (\text{Losses/Load}) \\ \text{DLF}_{\text{TLL}} &= 1.0065 \times \text{DLF}_{\text{DLL}} \end{aligned}$$

Where:

$$\begin{aligned} \text{Losses} &= [0.000000000009798 \times (\text{SysLoad})^2] + 0.007089 \\ \text{Load} &= -[0.0000000196 \times (\text{SysLoad})^2] + [0.002092 \times \text{SysLoad}] - .0586 \\ \text{SysLoad} &= \text{SDG\&E system load during hourly period in MW.} \end{aligned}$$

d. Transmission Voltage Class Customers

$$\begin{aligned} \text{DLF}_{\text{DLL}} &= 1 + (\text{Losses/Load}) = 1 \\ \text{DLF}_{\text{TLL}} &= 1.0065 \times \text{DLF}_{\text{DLL}} = 1.0065 \end{aligned}$$

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SCHEDULE EECC

ELECTRIC ENERGY COMMODITY COST

DEVELOPMENT OF DWR AND UTILITY SUPPLIED ENERGY PERCENTAGES

1. Development of DWR Supplied Energy Percentages

Hourly DWR supplied energy percentages are determined by dividing DWR purchases for that hour by the total MWH scheduled in all forward markets and an estimate for real time purchases for that hour. The rate group average DWR supplied energy percentages for the billing period is determined by calculating an average of hourly DWR supplied energy percentage weighted by the utility's class hourly statistical or dynamic load profile for the applicable rate group identified in Section 4 below. The rate by consumption type categories identified in Section 4 below will be used to determine the average DWR supplied energy percentages. The average DWR supplied energy percentages are calculated on a weekly basis using all calendar weeks from the time of the customer's previous billing through the calendar week prior to the current billing. For purposes of this calculation, calendar week shall be defined as the seven day period beginning on Wednesday and ending on the following Tuesday. The average DWR supplied energy percentages are calculated each Sunday and are utilized for all billing executed through the following Saturday.

2. Development of Utility Supplied Energy Percentages

The Utility supplied energy percentage for a billing period is calculated by subtracting the DWR supplied energy percentage from 100%.

3. Summary of Class Load Profile Categories and Associated Rate Schedules

<u>Class Load Profile</u>	<u>Rate Category</u>	<u>Associated Rate Schedules</u>
Residential:	Residential Non-Time-of-Use	DR, DR-LI, E-LI, DM, DS, DT, DT-RV
	Residential Time-of-Use	DR-TOU, DR-TOU-DER
	Electric Vehicle Time-of-Use	EV-TOU, EV-TOU-3
	Electric Vehicle & Household TOU	EV-TOU-2
Small Commercial:	Small Commercial	A, A-TC
Schedule AD:	Schedule AD	AD
Medium Commercial/ Industrial (<or=500 kW):	Medium Commercial/Industrial	A-TOU, AY-TOU, AL-TOU, AL-TOU-CP, AL-TOU-DER, PA-T-1
Large Commercial/ Industrial (> 500 kW):	Large Commercial/Industrial	AL-TOU, AL-TOU-CP, AL-TOU-DER, PA-T-1
Schedule A6-TOU:	Schedule A6-TOU	A6-TOU
Agricultural:	Agricultural Non-Time-of-Use	PA
Lighting:	Lighting	LS-1, LS-2, LS-3, OL-1, DWL

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Sheet 12

ELECTRIC ENERGY COMMODITY COST

DEVELOPMENT OF DWR AND UTILITY SUPPLIED ENERGY PERCENTAGES (Continued)

4. Summary of Average Supplied Energy Percentages Categories

<u>Category</u>	<u>Consumption Type</u>		<u>Number of Percentages</u>
Residential	Total	at 1 Voltage	1
Residential TOU	On-peak, off-peak	at 1 Voltage	2
Electric Vehicle TOU	On-peak, off-peak, super off	at 1 Voltage	3
Electric Vehicle & Household TOU	On-peak, off-peak, super off	at 1 Voltage	3
Small Commercial	Total	at 2 Voltage	2
Schedule AD	Total	at 2 Voltage	2
Medium Commercial/Industrial < 500 kW	On-peak, semi-peak, off-peak	at 4 Voltage	12
Medium Commercial/Industrial < 500 kW AV Rate	Semi-peak (include signal periods), off-peak	at 4 Voltage	8
Large Commercial/Industrial > 500 kW	On-peak, semi-peak, off-peak	at 4 Voltage	12
Large Commercial/Industrial > 500 kW AV Rate	Semi-peak (include signal periods), off-peak	at 4 Voltage	8
Schedule A6-TOU	On-peak, semi-peak, off-peak	at 3 Voltage	9
Agricultural	Total	at 1 Voltage	1
Agricultural TOU	On-peak, off-peak	at 1 Voltage	2
Lighting	Total	at 1 Voltage	1
		Total	66

Sixty-six percentages will be determined for each of the 9 billing period options (4-week period up to a 12-week period).

SPECIAL CONDITIONS

- Definitions. The definitions of principle terms used in this schedule are found either herein or in Rule 1, Definitions.
- Service Restrictions. Service under this schedule is restricted to the entire load served by single meters. The electric load of a single meter may not be partitioned among services rendered under this schedule and services rendered by a non-utility party under Direct Access or Community Choice Aggregation (CCA).

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