

Rulemaking: 12-03-014

Exhibit No.: CEJA x SCE – 1

Commissioner: Florio

ALJ: Gamson

Order Instituting Rulemaking to Integrate and Refine Procurement Policies and Consider Long-Term Procurement Plans

R.12-03-014

(Filed March 22, 2012)

Commission Staff Report - Lessons Learned From Summer 2012 Southern California Investor Owned Utilities' Demand Response Programs May 1, 2013

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA
October 28, 2013

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102 3298



Commission Staff Report

Lessons Learned From Summer 2012 Southern California Investor Owned Utilities' Demand Response Programs May 1, 2013

Performance of 2012 Demand Response programs of San Diego Gas and Electric Company and Southern California Edison Company: report on lessons learned, staff analysis, and recommendations for 2013 2014 program revisions in compliance with Ordering Paragraph 31 of Decision 13 04 017.

**Appendix D: SCE 2012 Monthly Average DR Program Load Impact (MW)¹⁵³
with RA Measurement Hours (1 6 p.m.)**

Month	2012 RA (1)	2012 Adjusted RA		Daily Forecast	7 Day Report	Year End	Ex Post
		Enrollment (2)	Enrollment & Weather ⁽³⁾				
Monthly Nominated Programs							
Capacity Bidding Program (Day Ahead)							
June	1.19	No Events	N/A	No Events	No Events	No Events	No Events
July	1.24	0.60	N/A	0.07	0.07	0.08	0.07
August	1.27	No Events	N/A	No Events	No Events	No Events	No Events
September	1.23	No Events	N/A	No Events	No Events	No Events	No Events
October	1.18	0.50	N/A	0.09	0.09	0.04	0.01
Capacity Bidding Program (Day Of)							
June	17.56	No Events	N/A	No Events	No Events	No Events	No Events
July	18.21	14.10	N/A	11.74	11.74	14.84	15.28
August	18.63	12.85	N/A	12.30	12.30	15.38	16.66
September	18.49	12.51	N/A	11.90	11.90	14.65	16.21
October	17.25	11.47	N/A	11.72	11.72	15.02	14.78
Demand Bidding Program							
June	11.49	No Events	N/A	No Events	No Events	No Events	No Events
July	12.05	2.91	N/A	74.65	85.59	96.09	90.21
August	12.39	3.02	N/A	88.35	77.14	76.81	72.43
September	12.24	No Events	N/A	No Events	No Events	No Events	No Events
October	12.27	2.90	N/A	78.90	71.67	90.33	79.52
Demand Response Contracts (Day Ahead & Day Of)							
June	99.15	No Events	N/A	No Events	No Events	No Events	No Events
July	102.51	No Events	N/A	No Events	No Events	No Events	No Events
August	104.74	166.28	N/A	275.00	275.00	174.79	182.05
September	103.56	No Events	N/A	No Events	No Events	No Events	No Events
October	100.22	139.10	N/A	185.00	185.00	122.11	114.90
Other Price Responsive Programs							
Save Power Days / Peak Time Rebates							
June	207.89	No Events	N/A	No Events	No Events	No Events	No Events
July	256.82	74.02	N/A	N/A	58.76	58.76	N/A
August	265.60	120.13	N/A	N/A	108.02	108.02	35.56
September	238.08	107.66	N/A	108.59	108.62	108.62	10.73
October	202.43	No Events	N/A	No Events	No Events	No Events	No Events

¹⁵³ SCE 03, Table 1.

Appendix D: SCE 2012 Monthly Average DR Program Load Impact (MW) (Cont.)

with RA Measurement Hours (1 6 p.m.)

Month	2012 RA (1)	2012 Adjusted RA		Daily Forecast	7 Day Report	Year End	Ex Post
		Enrollment (2)	Enrollment & Weather ⁽³⁾				
Summer Advantage Incentive Program / Critical Peak Pricing (CPP)							
June	66.49	63.23	N/A	42.59	49.00	49.93	27.68
July	69.31	65.64	N/A	52.40	51.72	61.65	39.95
August	68.57	65.14	N/A	52.00	42.46	46.72	38.50
September	65.08	61.66	N/A	46.76	40.09	42.69	35.90
October	62.86	No Events	N/A	No Events	No Events	No Events	No Events
Summer Discount Plan (Residential)							
June	462.15	168.00	N/A	161.51	137.87	137.87	69.60
July	545.82	538.42	N/A	263.67	158.81	158.81	188.00
August	500.00	454.95	N/A	227.94	162.46	150.95	211.90
September	519.53	514.47	N/A	254.06	254.06	254.06	133.02
October	0.00	N/A	N/A	292.62	292.62	292.62	101.95
Emergency Programs							
Summer Discount Plan (Commercial)							
June	33.62	No Events	N/A	No Events	No Events	No Events	No Events
July	48.30	No Events	N/A	No Events	No Events	No Events	No Events
August	62.43	4.99	N/A	4.77	3.43	3.43	3.10
September	53.70	No Events	N/A	No Events	No Events	No Events	No Events
October	0.00	N/A	N/A	No Events	No Events	No Events	No Events
Agriculture Pumping Interruptible							
June	41.26	No Events	N/A	No Events	No Events	No Events	No Events
July	39.66	No Events	N/A	No Events	No Events	No Events	No Events
August	39.78	15.57	N/A	36.00	36.00	15.34	17.29
September	37.71	23.73	N/A	60.56	60.56	28.39	24.00
October	39.58	No Events	N/A	No Events	No Events	No Events	No Events
Base Interruptible Program							
June	553.24	No Events	N/A	No Events	No Events	No Events	No Events
July	542.67	No Events	N/A	No Events	No Events	No Events	No Events
August	542.52	No Events	N/A	No Events	No Events	No Events	No Events
September	548.21	558.24	N/A	513.78	520.91	441.46	573.01

**Appendix E: SCE 2012 DR Program Load Impact by Event (MW)
Daily Average by Event Hours**

Event Date	Daily Forecast	7 Day Report	Year End	Ex Post
Monthly Nominated Programs				
Capacity Bidding Program (Day Ahead)				
7/23/2012	0.07	0.07	0.03	0.04
7/24/2012	0.07	0.07	0.08	0.09
7/25/2012	0.07	0.07	0.08	0.08
7/30/2012	0.07	0.07	0.11	0.06
7/31/2012	0.07	0.07	0.10	0.07
10/1/2012	0.09	0.09	0.24	0.20
10/2/2012	0.09	0.09	0.33	0.10
10/3/2012	0.09	0.09	0.12	0.05
10/5/2012	0.09	0.09	0.18	0.07
10/17/2012	0.09	0.09	0.00	0.07
10/18/2012	0.09	0.09	0.02	0.17
10/29/2012	0.09	0.09	0.19	0.15
Capacity Bidding Program (Day Of)				
7/20/2012	11.74	11.74	14.84	15.28
8/7/2012	12.30	12.30	14.92	16.46
8/13/2012	12.30	12.30	15.22	15.70
8/14/2012	12.30	12.30	16.01	17.82
9/14/2012	11.90	11.90	14.65	16.21
10/2/2012	11.72	11.72	14.24	15.80
10/18/2012	11.72	11.72	15.80	13.76
Demand Bidding Program				
7/12/2012	74.65	85.59	96.09	90.21
8/8/2012	85.59	102.63	100.67	92.95
8/10/2012	85.59	94.84	98.76	95.82
8/14/2012	94.09	70.89	66.96	61.76
8/16/2012	94.35	55.50	56.16	62.70
8/29/2012	82.15	61.84	61.51	48.94
10/1/2012	78.75	80.85	98.54	79.78
10/17/2012	79.05	62.49	82.12	79.25
Demand Response Contracts (Day Ahead & Day Of)				
8/14/2012	275.00	275.00	174.79	182.05
10/2/2012	185.00	185.00	122.11	114.90

Appendix E: SCE 2012 DR Program Load Impact by Event (MW) (Cont.)

Daily Average by Event Hours

Event Date	Daily Forecast	7 Day Report	Year End	Ex Post
Other Price Responsive Programs				
Save Power Days / Peak Time Rebates				
7/12/2012	N/A	58.76	58.76	
8/10/2012	N/A	107.24	107.24	95.85
8/16/2012	N/A	107.61	107.61	24.43
8/29/2012	N/A	108.51	108.51	21.93
8/31/2012	N/A	108.73	108.73	0.02
9/7/2012	108.66	108.66	108.66	23.11
9/10/2012	108.52	108.57	108.57	1.65
Summer Advantage Incentive Program / Critical Peak Pricing (CPP)				
6/29/2012	42.59	49.00	49.93	27.68
7/12/2012	49.00	62.40	80.14	41.53
7/23/2012	55.79	41.05	43.17	38.36
8/7/2012	50.91	48.57	54.29	33.48
8/9/2012	50.91	53.07	59.96	39.14
8/13/2012	50.54	46.70	55.98	42.96
8/20/2012	53.21	44.04	44.52	45.19
8/27/2012	53.21	23.59	25.02	34.41
8/29/2012	53.21	38.79	40.55	35.85
9/10/2012	47.36	48.60	52.04	42.26
9/20/2012	47.36	26.92	30.09	27.42
9/28/2012	45.55	44.75	45.95	38.00
Summer Discount Plan (Residential)				
6/20/2012 Group 1	128.01	8.23	8.23	0.50
6/29/2012 Group 1	178.26	41.89	41.89	35.80
6/29/2012 Group 2	178.26	87.75	87.75	33.30
7/10/2012 Group 1	263.67	29.17	29.17	44.70
7/10/2012 Group 2	263.67	41.89	41.89	66.60
7/10/2012 Group 3	263.67	87.75	87.75	76.70
8/1/2012 Group 1	60.50	29.17	29.17	49.10
8/1/2012 Group 2	46.40	29.56	29.56	56.40
8/1/2012 Group 3	58.60	46.63	46.63	57.10
8/3/2012 Group 1	60.50	29.17	29.17	35.70
8/3/2012 Group 2	54.90	21.83	21.83	65.60
8/3/2012 Group 3	58.60	46.63	46.63	46.00
8/8/2012 Group 1	135.52	67.69	67.69	104.60
8/8/2012 Group 2	133.55	66.33	66.33	100.00
8/8/2012 Group 3	151.14	98.88	98.88	128.40

Appendix E: SCE 2012 DR Program Load Impact by Event (MW) (Cont.)

Daily Average by Event Hours

Event Date	Daily Forecast	7 Day Report	Year End	Ex Post
Other Price Responsive Programs				
Summer Discount Plan (Residential) (cont.)				
8/9/2012 Group 1	151.14	67.69	67.69	125.90
8/9/2012 Group 2	121.12	66.33	66.33	107.20
8/9/2012 Group 3	118.06	98.88	98.88	121.20
8/14/2012 Group 1	130.40	194.47	61.14	119.40
8/14/2012 Reliability	17.42	8.15	3.43	13.50
8/15/2012 Group 1	116.01	88.62	88.62	74.30
8/15/2012 Group 2	75.10	42.35	42.35	84.20
8/15/2012 Group 3	77.77	40.44	40.44	77.50
8/17/2012 Group 1	101.30	102.53	102.53	153.00
8/17/2012 Group 2	58.00	42.25	42.25	98.30
8/21/2012 Group 1	61.87	53.44	53.44	72.70
8/21/2012 Group 2	62.65	29.93	29.93	83.40
8/21/2012 Group 3	50.70	29.39	29.39	57.50
8/22/2012 Group 1	115.03	29.39	29.39	42.40
8/22/2012 Group 2	75.11	29.93	29.93	67.20
8/22/2012 Group 3	101.25	47.12	47.12	58.50
8/28/2012 Group 1	129.54	129.54	129.54	76.30
8/28/2012 Group 2	83.86	83.86	83.86	88.20
8/28/2012 Group 3	71.90	71.90	71.90	81.30
8/29/2012 Group 1	82.56	82.60	82.60	80.30
8/29/2012 Group 2	66.42	66.40	66.40	91.70
8/29/2012 Group 3	108.42	108.40	108.40	125.90
9/10/2012 Group 1	72.72	72.72	72.72	92.40
9/10/2012 Group 2	77.52	77.52	77.52	69.00
9/10/2012 Group 3	18.98	18.98	18.98	68.40
9/14/2012 Group 1	110.89	110.89	110.89	37.80
9/14/2012 Group 2				
9/14/2012 Group 3	99.32	99.32	99.32	17.80
9/14/2012 Group 4				
9/14/2012 Group 5	135.61	135.61	135.61	20.70
9/14/2012 Group 6				
9/20/2012 Group 1	65.73	65.73	65.73	21.90
9/20/2012 Group 2				
9/20/2012 Group 3	77.39	77.39	77.39	14.60
9/20/2012 Group 4				
9/20/2012 Group 5	65.53	65.53	65.53	21.10

9/20/2012	Group 6				
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Appendix E: SCE 2012 DR Program Load Impact by Event (MW) (Cont.)

Daily Average by Event Hours

Event Date	Daily Forecast	7 Day Report	Year End	Ex Post
Other Price Responsive Programs				
Summer Discount Plan (Residential) (cont.)				
9/21/2012 Group 1	130.98	130.98	130.98	67.00
9/21/2012 Group 2	168.96	168.96	168.96	69.10
9/21/2012 Group 3	105.16	105.16	105.16	77.10
9/28/2012 Group 1	43.16	43.16	43.16	29.30
9/28/2012 Group 2				
9/28/2012 Group 3	55.06	55.06	55.06	24.50
9/28/2012 Group 4				
9/28/2012 Group 5	43.28	43.28	43.28	34.40
9/28/2012 Group 6				
10/2/2012 Group 1	298.91	298.91	298.91	86.20
10/2/2012 Group 2	198.32	198.32	198.32	130.90
10/17/2012 Group 1	127.25	127.25	127.25	62.30
10/17/2012 Group 2	146.77	146.77	146.77	72.30
10/17/2012 Group 3	92.50	92.50	92.50	56.10
10/18/2012 Group 1	154.37	154.37	154.37	N/A
10/18/2012 Group 2	58.71	58.71	58.71	N/A
10/26/2012 Group 1	38.65	38.65	38.65	N/A
10/26/2012 Group 2	47.23	47.23	47.23	N/A
10/26/2012 Group 3	7.77	7.77	7.77	N/A
Emergency Programs				
Summer Discount Plan (Commercial)				
8/14/2012	4.77	3.43	3.43	3.10
Agriculture Pumping Interruptible				
8/14/2012	36.00	36.00	15.34	17.29
9/26/2012	60.56	60.56	28.39	24.00
Base Interruptible Program				
9/26/2012	513.78	520.91	441.46	573.01