





BUSINESS PROGRESS REPORT

MAY 2018



Table of Contents

Generation Costs & Reliability	1
Environmental, Health & Safety Projects	4
Power Management/NCPA Market Results	5
Debt & Financial Management	11
Schedule Coordination Goals	11
NCPA Bills & Settlements	12
Political Arena State/Federal/Western Programs	13
Human Resources	14
Annual Budget FY to Date	15
Budget vs. Actual by Major Area	16
Generation Resources Analysis by Source	17
Management Services Analysis by Source	18
Third Party Revenue Analysis by Source	20
Generation Detail Analysis by Plant	21

Generation Costs & Reliability

Combustion Turbine Project

Unit Operation for April 2018

Unit	Availability		Production		n	Reason for Run
CT1 Alameda	Unit 1	Unit 2	Unit 1	585.6	MWh	CAISO / CAISO
CTTAlameda	71.7%	94.9%	Unit 2	805.3	IVIVVII	CAISO / CAISO

Curtailments, Outages, and Comments:

03-Apr 18:27, 04-Apr 7:28 Low gas pressure 06-Apr 8:27, 14-Apr 23:59 Oil leak / 02-Apr 19:30, 07-Apr 06:23 Gas compressor trouble 23-Apr 19:00 to 19:27 Failed start

Unit	Availability	Production	Reason for Run
CT1 Lodi	97.4%	805.3 MWh	CAISO

Curtailments, Outages, and Comments:

11-Apr 18:23, 12-Apr 7:55 Gas compressor trouble 24-Apr 19:00 to 23:59 Failed Start

Unit	Availability	Production	Reason for Run
CT2 STIG	17.6%	0.0 MWh	Annual Outage

Curtailments, Outages, and Comments:

06-Apr 07:00, 14Apr 23:59 PG&E Gold Hill-Lodi STIG & STIG-8 Mile Road 230kV line outages 15Apr-30Apr 0:00 to 23:59 Annual Maintenance

Unit	Availability	Production	Reason for Run
LEC	25.0%	14,751 MWh	CAISO

Curtailments, Outages, and Comments:

02Apr 0:00, 24-Apr 12:00 Annual maintenance

Maintenance Summary - Specific per asset above.

Geothermal Facilities

Availability/Production for April 2018

Unit	Availability	Net Electricity Generated/Water Delivered	Out-of-Service/Descriptors	
Unit 1	61.32 %	13,451 MWh	U1 was OOS from 4/2 0330 until 4/13 1800 for PG&E line work	
Unit 2	61.11 %	*12,579 MWh	U2 was OOS from 4/2 0330 until 4/13 1935 for PG&E line work	
Unit 3	N/A %	N/A	Unit 3 remains out of service.	
Unit 4	88.68 %	30,096 MWh	U4 was OOS from 4/16 0340 until 4/19 1300 for stretford/gas removal system cleaning	
Southeast Geysers Effluent Pipeline	98.8 %	251.4 mgallons	Average flow rate: 5,893 gpm	
Southeast Solar Plant	N/A	142,329 KWh	Year-to-date KWh: 1,175,247	
Bear Canyon Pump Station Zero Solar	N/A	103,158 KWh	Year-to-date KWh: 2,291,791	

^{*} Accounts for an additional 1,024 MWh of house load for the 21KV power supply to the effluent pipeline supplied from Unit #2.

Hydroelectric Project

Availability/Production for April 2018

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	98.38 %	47482 MWh	CV #1 unit was out of service on, 04/04/18 at 0700 through 0903 due to generator air flow testing. CV #1 unit was out of service on, 04/04/18 at 1143 through 1424 due to generator air flow testing. CV #1 unit was derate on, 04/07/18 at 0815 through 0910 due to high tailwater. CV #1 unit was out of service on, 04/07/18 at 0910 through 1602 due to high tailwater. CV #1 unit was derate on, 04/07/18 at 1602 through 04/08/18 at 0300 due to high tailwater. CV #1 unit was derate on, 04/11/18 at 1200 through 1300 due to trash rack flush.
Collierville Unit 2	98.86 %	47800 MWh	CV #2 unit was out of service on, 04/04/18 at 0907 through 1135 due to generator air flow testing. CV #2 unit was derate on, 04/07/18 at 0815 through 0910 due to high tailwater. CV #2 unit was out of service on, 04/07/18 at 1031 through 1615 due to high tailwater. CV #2 unit was derate on, 04/07/18 at 1615 through 04/08/18 at 0300 due to high tailwater. CV #2 unit was derate on, 04/11/18 at 1200 through 1300 due to trash rack flush.
Spicer Unit 1	91.50 %	0 MWh	NSM #1 unit was out of service on, 04/01/18 at 0000 through 04/03/18 at 1313 due to PG&E 21kv line trouble.
Spicer Unit 2	91.50 %	0 MWh	NSM #2 unit was out of service on, 04/01/18 at 0000 through 04/03/18 at 1313 due to PG&E 21kv line trouble.
Spicer Unit 3	91.42 %	159 MWh	NSM #3 unit was out of service on, 04/01/18 at 0000 through 04/03/18 at 1345 due to PG&E 21kv line trouble.

Operations & Maintenance Activities:

- CMMS work orders
- Planning and Preparation for CV2 Generator rewind
- NCPA/ SRM NSM campground annual concessionaire
- CV/Bellota 230kv line patrol

Environmental, Health & Safety (EH&S) Projects Incident Reports

- No lost time accidents, vehicle accidents, or recordable incidents occurred in April 2018.
- Find below a Safety Report that highlights the following areas: recordable incidents and lost time accidents (LTAs) reported this period and this calendar year; the number of days since last recordable or LTA; the number of work hours since last recordable or LTA; and vehicle accidents reported this month and this calendar year. In September of 2012, Generation Services completed an internal audit of its records with the results reflected in this report and as updated through the payroll period ended April 28, 2018.
- The "CT Group" column reflects the combined safety numbers of all CT employees.
 Beginning with the November 2009 report, the CT Group Column also includes Lodi Energy Center staff.

April 2018
Generation Services Safety Report

Generation Services Salety Report					
	Hydro	GEO	CT Group *	NCPA HQ **	
CalOSHA Recordable (this month)	0	0	0	0	
CalOSHA Recordable (calendar year)	0	0	0	0	
Days since Recordable	1228	162	1118	6186	
Work Hours Since Last Recordable	106,949	32,974	164,736	2,231,349	
LTA's (this month)	0	0	0	0	
LTA's (calendar year)	0	0	0	0	
Days without LTA	3,844	981	9,022	5,115	
Work Hours without LTA	352,514	199,642	606,100	1,853,367	
Vehicle Incident (month)	0	0	0	0	
Vehicle Incident (calendar year)	1	0	0	0	

^{*} CT Group: Combines CT-1, CT-2 and LEC Operations

Data originates from OSHA logs, HR records and payroll information. Days and Hours are calculated through pay period ended April 28, 2018.

^{**} NCPA HQ: Roseville employees at the Main Office

Power Management/NCPA Market Results

Dispatch and Schedule Coordination

- NCPA Dispatch and Schedule Coordination Center safely, reliably, and economically schedules, monitors, and manages NCPA and NCPA member power resources and loads 24 hours per day, 7 days per week on a continuous basis. This process includes balancing MSSA loads and resources on a 5-minute basis, optimizing NCPA resources and minimizing ISO costs.
- NCPA MSSA Load Data:

Current Year 2018 Data

0					
	April 2018		Calendar Year 2018		
	Peak MW MWh		Peak MW	MWh	
NCPA Pool	312.09 4/23 @1700	175,888	329.79 1/8 @1800	734,501	
SVP	484.58 4/23 @1600	298,118	484.58 4/23 @1600	1,197,114	
MSSA	794.07 4/23 @ 1600	474,006	794.07 4/23 @ 1600	1,931,615	

Last Year 2017 Data*

	April 2017		Calendar Year 2017		
	Peak MW MWh		Peak MW	MWh	
NCPA Pool	299.31 4/11 @1200	179,284	485.85 9/1 @1700	756,025	
SVP	469.35 4/5 @1400	295,550	586.59 9/1 @1600	1,176,142	
MSSA	764.79 4/5 @ 1400	474,834	1070.79 9/1 @ 1700	1,932,167	

^{*}Last year's data added for comparison purposes only

System Peak Data

	All Time Peak Demand	2018 Peak Demand
NCPA Pool	517.83 MW on 7/24/06 @ 1500	329.79 1/8 @ 1800
SVP	586.59 MW on 9/1/17 @ 1600	484.58 4/23 @ 1600
MSSA	1070.79 MW on 9/1/17 @ 1700	794.07 4/23 @ 1600

 NCPA MSSA has a Deviation Band with the CAISO, which is used as a performance measure by the CAISO. The ability to stay within this Deviation Band is a measure of NCPA Dispatch's ability to balance the MSSA Loads and Resources on a 5minute basis. The following NCPA Deviation Band Performance table includes all deviations, including deviations from unit forced outages, metering and load outages, COTP, Western, and WECC curtailments.

NCPA Deviation Band Performance						
April 2018 Calendar Year 2018						
MSSA % Within the Band 96.60% 97.75%						

Spicer Meadows:

 April 3, 21kV CB22 closed after PG&E restored 21kV line to service, o/s since March 13. Station service placed normal and Unit 3 paralleled to grid

Geothermal Units:

- April 2 13, Unit 1 and 2 o/s for annual maintenance coinciding with PG&E Geysers 9 – Lakeville 230kV line outage
- April 16 19, Unit 4 o/s for annual maintenance

Lodi Energy Center:

- April 2 – 24, plant o/s for annual maintenance

Alameda CTs:

- April 2 @ 1930 April 3 @ 1018, Unit 2 o/s due to gas compressor trouble
- April 3 @ 1827 April 4 @ 0728, Unit 1 o/s due to low gas pressure
- April 6 14, Unit 1 intermittently o/s due to oil leak
- April 6 @ 0827 1206 Unit 2 unavailable due to fire protection system issue
- April 6 @ 1230 April 7 @ 0623, Unit 2 o/s due to gas compressor trouble
- April 23 @ 1900 1927, Unit 2 fail start

Lodi CT:

- April 11 @ 1823 April 12 @ 0755, unit o/s due to gas compressor trouble
- April 24 @ 1900 2359, unit o/s due failed start/emissions limitation

Collierville Units:

- April 4 @ 0700 1424, Unit 1 and 2 o/s one at a time for generator air cooler air flow testing per Andritz Engineering
- April 7 @ 0815 April 8 @ 0300, Unit 1 and 2 derated due to high tailwater
- April 7 @ 0910 1602, Unit 1 off line due to high tailwater
- April 7 @ 1031 1615, Unit 2 off line due to high tailwater
- April 11 @ 1200 1300, units derated for intake trash rack flush

STIG:

- April 6 14, Unit unavailable due to simultaneous PG&E outages on Gold Hill-Lodi STIG and Lodi STIG- Eight Mile Road 230kV lines
- April 15 30, Unit o/s for annual maintenance

Pooling & Portfolio Planning & Forecasting

- Actual NCPA Pool load of 175,890 MWh during April 2018 was 94.7% of the premonth forecast of 185,705 MWh. Pool load, running 89,933 MWh through May 15, may not quite reach the forecast of 198,158 MWh, unless temperatures (running below normal through mid-month) increase substantially.
- The Lodi Energy Center (LEC) generated 2,652 MWh for the pool in April, over the 613-MWh forecast that took the long outage under consideration. Ongoing supply disruptions in SoCal kept implied heat rates there above normal, which continues to add to LEC run hours. For May, pool share of LEC generation was forecasted at 3,461 MWh.
- For the month of April, 5.33" of rain was recorded at Big Trees gage. April Big Trees average precipitation is 4.64".
- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) is being reduced from \$65/MWh to \$55/MWh.
- NSMR storage as of April 30 was at 143,648 acre feet. The historical average NSMR storage at the end of April is 98,465 acre feet. As of May 15, NSMR storage is 156,175 acre feet. The current NCPA Pool share of NSMR storage is 79,477 acre feet.
- Combined Calaveras Project generation for the Pool in April totaled 47.5 GWh, up from 29.0 GWh in March. The Pool's 47.5 MWh in April was above the pre-month forecast of 25.0 GWh due to the above average month we experienced in April. Through May 15, Calaveras generation for the Pool is 6.6 GWh.
- Western Base Resource (BR) Pool delivery in April 2018 was 41,280 MWh, or 60% of Western's 69.2-GWh forecast. Through May 15, BR pool allocations of 38.4 GWh (including 1.0 GWh Displacement) are more than halfway to Western's most recent 69,600-MWh May forecast.
- The PG&E Citygate gas index traded at \$2.92/MMBtu for May 16 delivery a steady rise compared to an average of \$2.678/MMBtu (with a high of \$2.92/MMBtu midmonth) in April. The May PG&E Bidweek price is \$2.65, up six cents from April's and 7 cents lower than February's \$2.97 bidweek price.
- Day-ahead NP15 electricity prices averaged \$27.76/MWh (HLH) and \$21.35 (LLH) during April, with the hourly TH_NP15 maximum at \$99.83/MWh and the minimum a negative \$17.05. So far in May, on-peak prices have averaged \$24.35, with a few zero hours on May 12 and negative values mid-day on Sunday May 13.

	NCPA Pool Loads & Resources Value Summary													
	Pea	ak and Energ Apr-1			Estimated Pro	duction Costs	Cost of Serving Demand							
	Coincident Peak (MW)	Total MWh	Forecast Values	Avg. MW	NCD	\ Pool								
	Apr-23-18 Hour 17	TOTAL MINNT	values	Cost/Revenue (Estimate)		Variable Cost (\$/MWh)	Totals	Avg (\$/MWh)						
Demand	312.1	175,890	185,705 69152	244.3	N/A	N/A	at Market	Clearing Price						
WAPA Geothermal	9.8 6.0	41,280 23,238	69,152 26,020	57.3 32.3	\$ 1,955,240 441,515	19.00	\$ 4,662,820	\$ 26.51						
Hydro Stig & CTs LEC	39.8 56.4 -	47,878 915 2,652	25,826 - 613	66.5 1.3 3.7	287,268 12,904 82,970	6.00 14.10 31.29	at Variable Cos	of Pool Generation						
Contracts Market - Net (Net Sales = Negative)	- 200.1	72,664 (12,736)	80,334 (16,240)	100.9 (17.7)	4,585,631 (329,922)	63.11 25.90	\$ 6,868,192	\$ 39.05						
Net Total	312.1	175,890	185,705	244.3	\$ 7,035,606	\$ 39.05								

				Mon	thl	y Market	Summa	ry				
						g Variable ost of Pool	Forwa	rd I	Prices (EOX NP15	Ask Prices)	NOTES	
ı		Pool Energy	HL	.H Avg MCP	G	eneration			NP15 4/2/2018	5/1	5/2018 (\$/MWh)	
		(MWh)		(\$/MWh)		(\$/MWh)			(\$/MWh)			Peak and Energy Summary
ı	Jul-17	221,169	\$	39.42	\$	36.21	May-18	\$	27.43	\$	25.09	* Monthly generation summar
ı	Aug-17	223,320	\$	51.70	\$	37.30	Jun-18		33.56		33.82	total MWH for the month, and
ı	Sep-17	206,930	\$	45.07	\$	40.69	Jul-18		43.74		48.35	 Generation totals are for PC
ı	Oct-17	190,730	\$	44.93	\$	39.05	Q3 2018	\$	44.00	\$	50.71	 Hydro totals include Colliero
ı	Nov-17	184,467	\$	38.23	\$	39.53	Q4 2018		39.93		41.99	Estimated Production Costs
ı	Dec-17	198,630	\$	35.89	\$	40.56	Q1 2019		37.59		37.90	 Fixed project costs not include
ı	Jan-18	195,093	\$	34.68	\$	43.74	CY2019	\$	37.19	\$	36.96	are used to calculate the avera
ı	Feb-18	173,464	\$	32.12	\$	43.94	CY2020		39.18		39.26	 STIG and CT costs include to
ı	Mar-18	190,023	\$	31.58	\$	39.43	CY2021		42.29		43.04	* STIG & CT costs reflect \$2.
ı	Apr-18	175,890	\$	26.51	\$	39.05	CY2022		43.77		45.25	Cost of Serving Demand:
ı	May-18						CY2023		45.01		46.82	Compares price of meeting tot
	Jun-18						CY2024		46.11		48.14	(2) Variable cost of pool gen.
						<u></u>	<u></u>					

ES TO SUMMARY TABLE:

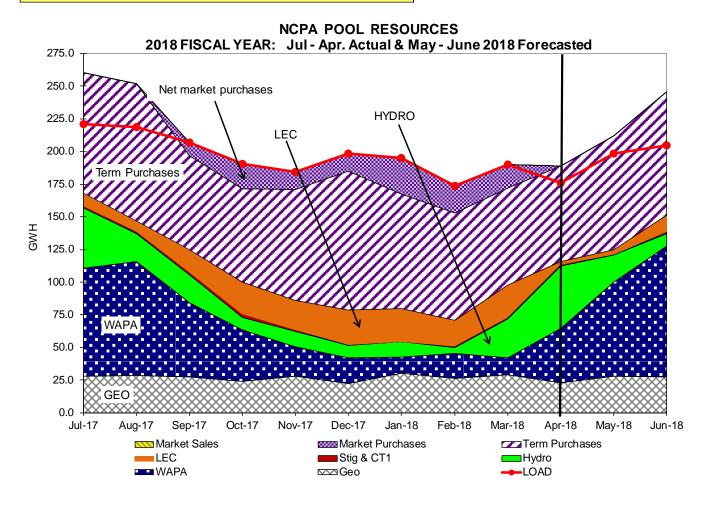
ary of Coincidental Peak (hour in which pool demand peaked), nd pre-month forecasted values for report period. OOL SHARE of the projects.

rville and Spicer generation.

cluded except for WAPA, where total month's project costs erage unit cost.

forward natural gas and basis hedge transactions. 2.60 and \$1.62/MWH variable O&M costs per 6-12-06 GSCA

otal monthly demand with (1) Hourly pool market clearing price; Pool Gen is sum of estimated costs divided by sum of generation



Industry Restructuring, Contracts and Interconnection Affairs

Resource Adequacy Compliance Filings

- NCPA made the following Resource Adequacy compliance filings with the CAISO for the compliance period July 2018:
 - Monthly System Resource Adequacy Demonstration (filed May 17, 2018)
 - Monthly Supply Plan (filed May 17, 2018)

Industry Restructuring

NCPA is actively participating in a number of CAISO stakeholder initiatives on behalf of the members. The following is a brief description of the current active initiatives:

Day-Ahead Market Enhancements

 In this initiative, CAISO will consider enhancements to combine the Integrated Forward Market with the Residual Unit Commitment process, change the day-ahead scheduling granularity from hourly to 15-minute, and add an imbalance reserve product. Additional design elements needed to extend the day-ahead market to EIM entities will also be considered.

Flexible Resource Adequacy Criteria and Must Offer Obligation (FRAC MOO Phase 2)

 This initiative will explore further enhancements to flexible capacity requirements to help address generation oversupply and ramps less than three hours. This effort also seeks new rules to allow intertie resources and storage resources' not operating under non-generator resource provisions to provide flexible capacity. Through this effort, CAISO will also assess the impact of merchant variable energy resources on flexible capacity requirements.

Review Transmission Access Charge Structure

 This initiative will consider possible changes to the CAISO's current volumetric Transmission Access Charge (TAC) structure for recovering participating transmission owners' costs of owning, operating and maintaining transmission facilities under CAISO operational control. The CAISO will consider stakeholder input on the initiative scope, which will include possible changes to reflect the benefits of distributed resources in reducing future transmission needs.

Western Base Resource Tracking (NCPA Pool)

	Western Base Resource Tracking - NCPA Pool													
		Actual			Costs 8	& Rates								
	BR	BR		Restoration	Monthly	CAISO LMP	12-Mo Rolling							
	Forecast ¹	Delivered	Difference	Fund	Cost of BR ²	Differential ³	Avg. Cost of BR ⁴							
	(MWh)	(MWh)	(MWh)	(\$)	(\$/MWh)	(\$/MWh)	(\$/MWh)							
Jul-17	71,656	82,819	11,163	\$2,334,679	\$ 28.19	\$ 1.60	\$ 27.59							
Aug-17	55,736	79,371	23,635	\$2,334,679	\$ 29.41	\$ 0.08	\$ 27.14							
Sep-17	56,044	57,011	967	\$1,979,032	\$ 34.71	\$ 0.12	\$ 26.27							
Oct-17	33,604	39,352	5,748	\$833,923	\$ 21.19	\$ 0.79	\$ 25.27							
Nov-17	19,601	22,441	2,840	\$833,923	\$ 37.16	\$ 0.27	\$ 24.46							
Dec-17	15,404	19,821	4,417	\$833,923	\$ 42.07	\$ 0.25	\$ 24.15							
Jan-18	7,358	12,360	5,002	\$833,923	\$ 67.47	\$ 0.08	\$ 25.66							
Feb-18	13,359	18,713	5,354	\$833,923	\$ 44.56	\$ 0.05	\$ 27.59							
Mar-18	30,216	12,955	(17,261)	\$833,923	\$ 64.37	\$ 0.00	\$ 29.84							
Apr-18	50,443	41,280	(9,163)	\$2,035,038	\$ 49.30	\$ 0.02	\$ 31.25							
May-18		-	(66,832)	\$2,035,038	\$ 30.45	\$ 0.10	\$ 33.64							
Jun-18	-	-	(74,030)	\$2,035,038	\$ 27.49	\$ 0.10	\$ 34.08							
1/	As forecaste	d in NCPA 17	/18 Budget											
2/	= (Western (Cost + Restora	ation Fund)/B	R Delivered, for P	ool Participar	nts only.								
3/	= (MEEA LMI	P - PG&E LAP	LMP) using pu	ublic market infor	mation (i.e. n	ot settlement	quality).							
4/	Based on BR	Delivered (A	ctual) when a	available and BR F	orecast in all	other cases. In	cludes CAISO							

- The Displacement Program continued to perform for Pool Members with April activity of 6,789 MWh for an estimated saving of \$37,340, or about \$5.50/MWh. The program has saved Pool Members over \$1.2 Million in FY18 (July-March).
- Restoration fund mid-year adjustment increased Pool Member's monthly billing by about 18% (April-Sep).
- Pool Members' total savings under MEEA pricing is about \$124,000 for FY18 (July-March).

Debt and Financial Management

- At their early May meeting, the Federal Open Market Committee (FOMC) left overnight rates unchanged at the current target range of 1.50 to 1.75%. In the accompanying statement, the Federal Reserve acknowledged strong job gains, strong business investment and expressed a more confident tone regarding inflation's move towards the 2% target rate.
- Expectations for additional Fed rate hikes this year and next, as well as rising inflation continue to support that interest rates are likely to trend gradually higher over the next few months.
- The U.S. Treasury yields rose during April as inflation expectations took center stage. Most notably, the curve steepened. The six-month Treasury note increased nine basis points to end April at 2%, while the five-year increased 24 basis points to 2.8%. The 10-year Treasury briefly breached the psychologically important 3.0% level for the first time since 2014.
- Municipal new issuance slowed year-over-year in April with municipal bond sales dropping 3.6% to \$29.6 billion from \$30.78 billion the same month last year, according to the Municipal Market Monitor data.

Schedule Coordination Goals

Software Development

- NCPA IS Staff, in collaboration with Accounting Staff, are setting up the Financial Systems (Great Plains, ReQLogic Procurement, and other pertinent software applications) in preparation for the slated June 2018 go-live of the new company, Hometown Connections, Inc.
- NCPA IS staff is assisting Santa Clara to transition its MSS portfolio from scheduling via Web Service into the use of the new client-based NCPA Scheduling Suite. Rollout is anticipated for June 2018.
- Configuration for a new Community Choice Energy (CCE) customer, East Bay CCE, is ongoing and is anticipated to go live in June 2018.
- Various other software development is underway. The Resource Adequacy Compliance App is a tool to manage RA supply planning and compliance tracking. The Green House Gas (GHG) Accounting App is a tool for the business user to track GHG transactions by Member. The Shared Services App has three modules about Training, Support Services, and Vendor Contracts. It calculates the billable amount for the Member's portion of the Shared Services.

Network

- Additional collaboration sites are being created to expand the functionality of the Agency's new extranet, "NCPA Connect." This will provide further capabilities to share and edit documents for specific working groups and committees.
- The IS team has been testing a new Storage Area Network with the expectation to make a purchase before the end of the fiscal year.
- The Operations and Support group has been working alongside Generation Services
 Hydro staff to reroute business, PI and real-time telemetry networks across the new
 Microwave pathing from Murphys to Collierville. This has improved speed,
 performance, and reliability from the old circuitry.
- Collabware has been selected as the SharePoint solution to provide records retention capabilities for NCPA documents. This software will be implemented immediately after upgrading to SharePoint 2016, which is anticipated to be completed by Summer of this year.
- Information Services has continued providing support to the Generation Services business unit to assist expansion of its physical security presence at each of the plant locations. Geothermal is the last site that needs additional networking support and should be completed by the end of May.

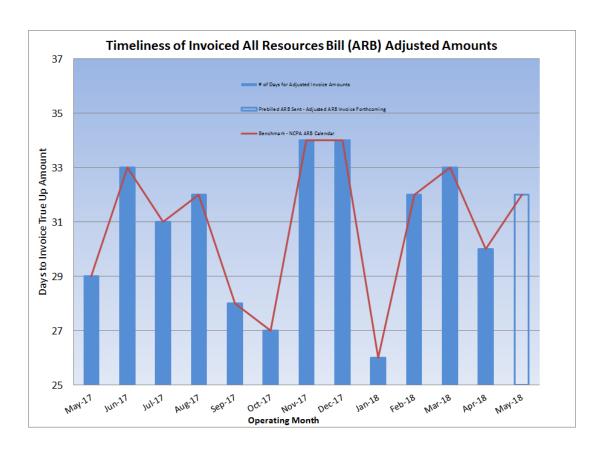
NCPA Bills & Settlements

Progress Against the Strategic Plan

Adjusted Power bills, which include CAISO transactions, invoiced to members the following month subsequent to the monthly pre-billed ARB month. Timely ARB settlements adjustments help improve members' cash flow and reconciliation of their budget performance.

The May 2018 NCPA All Resources Bill (ARB) monthly invoice sent to members on April 24, 2018 contains:

- May 2018 monthly pre-billed budget/forecast amounts;
- March 2018 (1st Adjustment) NCPA Project and CAISO Initial settlement true-ups;
- February 2018 (2nd Adjustment) NCPA Project settlement true-up and T+12 business day recalculated CAISO settlement true-up allocations;
- December 2017 (3rd Adjustment) T+55 business day recalculated CAISO settlement true-up allocations and NCPA Projects true-up;
- June 2017 (4th Adjustment) T+9 month recalculated CAISO settlement true-up allocations:
- August 2016 (5th Adjustment) T+18 month recalculated CAISO settlement true-up allocations;
- May 2015 (6th Adjustment) T+33 month recalculated CAISO settlement true-up
- February 2015 (7th Adjustment) T+35 month CAISO settlement true-up



Legislative & Regulatory

Political Arena State/Federal/Western Programs

NCPA, in collaboration with SCPPA and CMUA, filed joint comments with the California Air Resources Board expressing support for extending the Low Carbon Fuel Standard (LCFS) program through 2030. The LCFS regulation aims to reduce the carbon intensity of California's transportation fuels. High carbon fuels, such as gasoline and diesel, are able to comply with the LCFS regulation by purchasing credits from POUs, which are generated from the charging of electric vehicles. The sale of LCFS credits has become an important funding source for POU programs, so supporting the LCFS program extension through 2030, which otherwise expires on 2020, helps protect a vital funding source for NCPA Members' transportation electrification programs. However, during the April 27th CARB Board meeting, Chair Mary Nichols and other Board Members directed utilities to work with automakers on a statewide point of sale rebate program. This statewide rebate program would be funded using the revenue from the sale of LCFS credits that currently fund POU customer programs, and undermining NCPA Members and other POUs who were counting on LCFS revenue to fund their programs. NCPA immediately mobilized, and met with senior advisors to Chair Nichols to express our concern regarding the impacts a statewide program would have on NCPA Members' EV charging programs. The concerns were met with receptively and CARB staff emphasized that the intent is not to negatively impact POU programs. NCPA will continue to execute a multifaceted strategy in defense of NCPA Members' LCFS credits and revenue over the summer. CARB action on amendments to the LCFS program is anticipated in the Fall of 2018.

- NCPA and approximately 20 NCPA-member representatives traveled to Washington D.C. to take part in the annual NCPA/Northwest Public Power Association Federal Policy Conference. Members heard from top policymakers and opinion leaders before going to Capitol Hill. Over the balance of the week, the NCPA team met with our entire congressional delegation and top officials at FERC, Department of Interior, Federal Emergency Management Agency, Forest Service, Environmental Protection Agency, and key Washington stakeholder organizations. These visits enabled us to thank the delegation for addressing issues impacting the Central Valley Project, and providing a durable solution to assure needed funding to fight and help prevent wildfires on federal lands. Also, NCPA members advocated for continued local control of pole attachments, streamlining of the hydropower licensing process, and a comprehensive solution to various risks and costs on the CVP. NCPA sincerely thanks all those that participated in this important advocacy effort.
- NCPA has been developing positions, negotiating amendments, and testifying on energy-related bills in the State Legislature. Since March, both the Senate and the Assembly have been holding policy committee hearings on bills in the house of origin. The deadline for a bill to pass the house of origin is June 1st. Major legislative issues include bills related to wildfire mitigation and response; natural gas power plant operations; pension liability for joint powers authorities; grid regionalization; renewable energy procurement mandates; and building decarbonization.

Human Resources

Hires:

Tracy Long joined NCPA April 30, 2018, as an Accounting Clerk II at our Headquarters office in Roseville, CA. Tracy has over 13 years of accounting experience having previously worked at AWDirect, LLC as a Staff Accountant.

Intern Hires:

None.

Promotions/Position Changes:

Marty Lebrett was promoted to Plant Manager at our Geothermal Facilities in Middletown, CA, effective April 15, 2018. Marty previously served as Supervisor II, a position he held since July 27, 2005.

Separations:

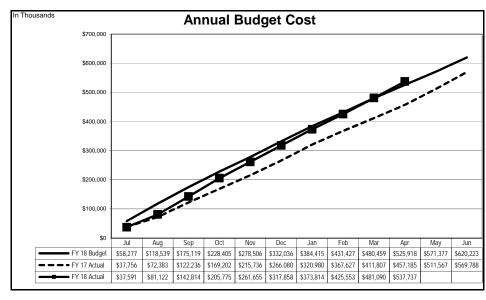
Paul House, Operator Technician, retired from his position at our Geothermal facilities effective May 4, 2018, after 37 years of service.

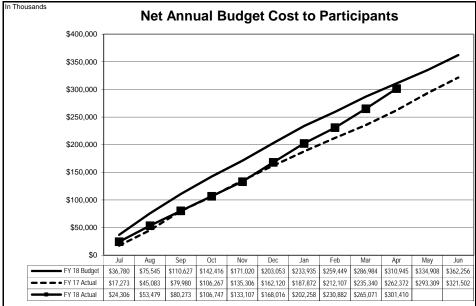
Brad Rusk, CT Specialist, retired from his position at our Lodi Energy Center effective May 4, 2018, after 17 years of service.

Steve Guerrero, Computer Technology Analyst III, resigned his position at the Headquarters offices, effective May 4, 2018.

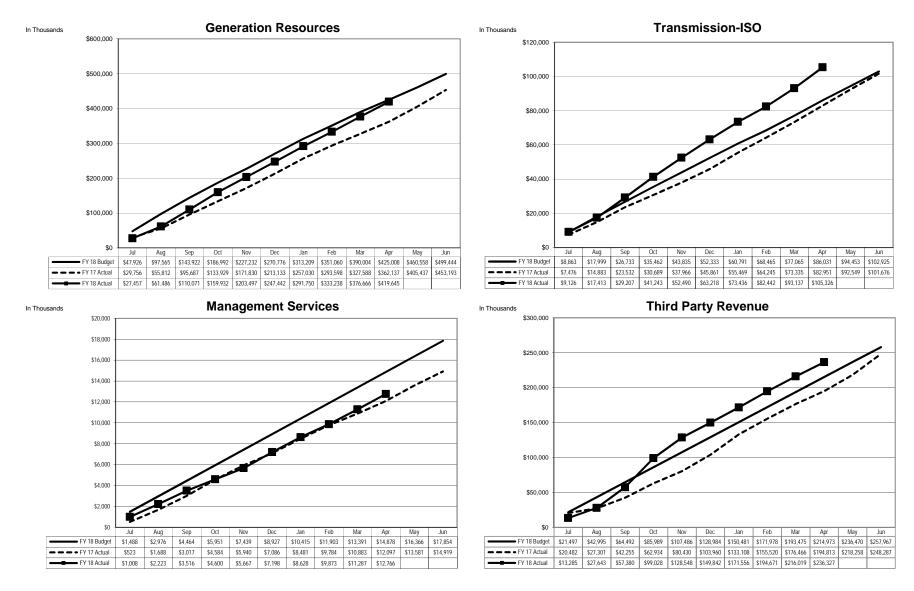
Annual Budget 2017-2018 Fiscal Year To Date As of April 30, 2018

In Thousands				
	Annual		Under(Ovr)	YTD %
GENERATION RESOURCES	Budget	Actual	Budget	Remaining
NCPA Plants				
Hydroelectric	53,862	47,370	\$ 6,492	12%
Geothermal Plant	32,120	24,202	7,918	25%
Combustion Turbine No. 1	3,199	3,744	(546)	-17%
Combustion Turbine No. 2 (STIG)	8,623	7,508	1,115	13%
Lodi Energy Center	61,088	67,088	(6,000)	-10%
Member Resources - Energy	158,892	149,912	8,980	6%
Member Resources - Energy Member Resources - Natural Gas	53,389	43,901	9,488	18%
Western Resource	3,457 30,120	2,898 19.124	559 10.996	16% 37%
Market Power Purchases	19,318	30,385	(11,067)	-57%
Load Aggregation Costs - ISO	233,822	172,586	61,236	26%
Net GHG Obligations	446	839	(393)	-88%
3	499,444	419.645	79,799	16%
TRANSMISSION		,	,	
Independent System Operator	102,925	105,326	(2,401)	-2%
MANAGEMENT SERVICES				
Legislative & Regulatory				
Legislative Representation	1,976	1,368	608	31%
Regulatory Representation	838	548	290	35%
Western Representation	830	423	407	49%
Member Services	436	311	125	29%
	4,079	2,650	1,430	35%
Judicial Action	625	600	25	4%
Power Management				
System Control & Load Dispatch	5.864	4,529	1.336	23%
Forecasting & Prescheduling	2,647	1,960	687	26%
Industry Restructuring	424	246	178	42%
Contract Admin, Interconnection Svcs & Ext. Affairs	1,152	691	461	40%
Green Power Project	18	2	16	90%
Gas Purchase Program	88	51	38	43%
Market Purchase Project	130	75	55	42%
	10,323	7,553	2,771	27%
Energy Risk Management	207	151	56	27%
Settlements	774	460	314	41%
Integrated System Support	319	71	247	78%
Participant Pass Through Costs	1,526	991	535	35%
Support Services	-	290	(290)	
	17,854	12,766	5,088	28%
TOTAL ANNUAL BUDGET COST	620,222	537,737	82,486	13%
LESS: THIRD PARTY REVENUE				
Plant ISO Energy Sales	70,367	96,938	(26,571)	-38%
Load Aggregation Energy Sales	151,019	90,565	60,454	40%
Ancillary Services Sales	2,731	4,925	(2,194)	-80%
Western Resource Energy Sales	18,026	18,381	(354)	-2%
Other ISO Revenue	-	14,460	(14,460)	N/A
Transmission Sales	110	92	18	17%
Western Credits, Interest & Other Income	15,713	10,966	4,747	30%
	257,967	236,327	21,640	8%
NET ANNUAL BUDGET COST TO PARTICIPANTS	362,256	301,410	\$ 60,846	17%
THE PARTONE BODOLI COOL TO LARTION AND	302,230	301,410	Ψ 00,040	1770



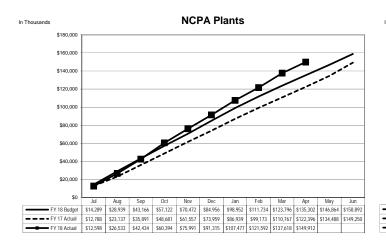


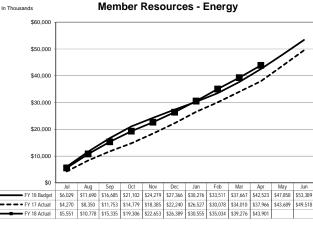
Annual Budget Budget vs. Actual By Major Area As of April 30, 2018

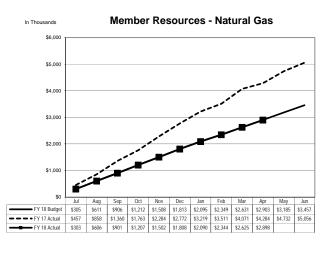


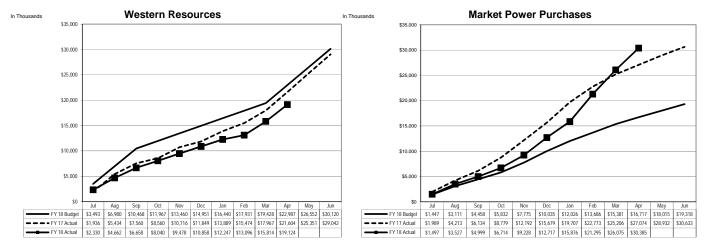
Footnote: Transmission is solely reflective of Independent System Operator (ISO) costs

Annual Budget Cost Generation Resources Analysis By Source As of April 30, 2018



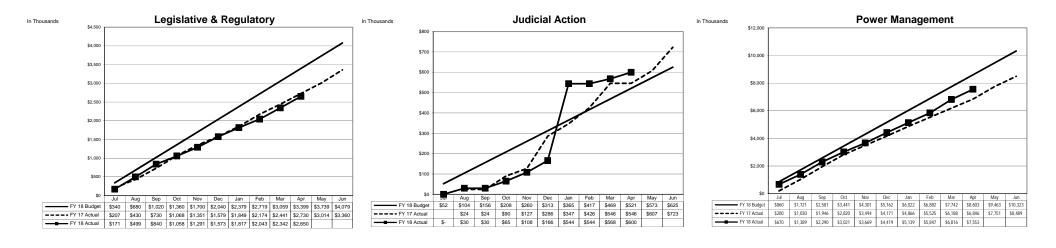


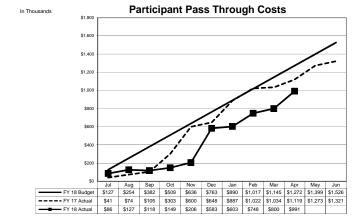




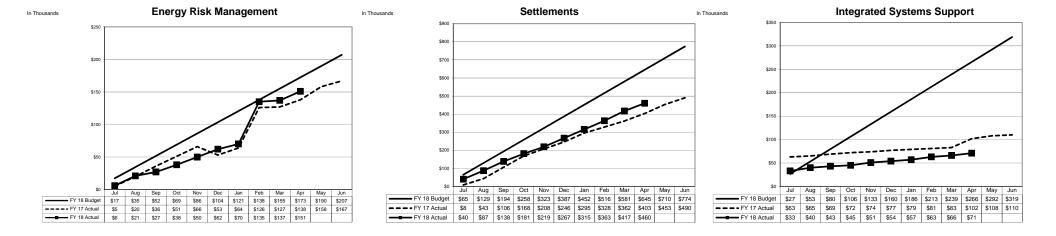
Footnote: Other Resources (Graeagle, BART PV, Gridley PV) are included in Market Power Purchases

Annual Budget Cost Management Services Analysis By Source As of April 30, 2018

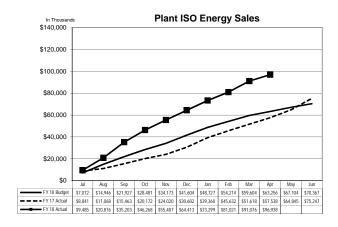


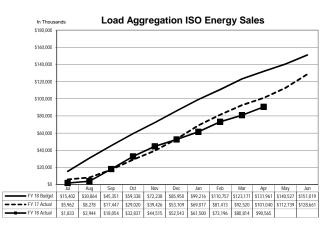


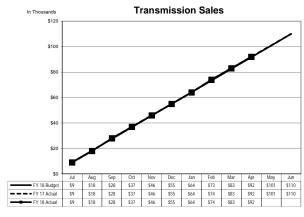
Annual Budget Cost Management Services Analysis By Source As of April 30, 2018

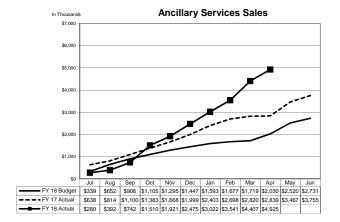


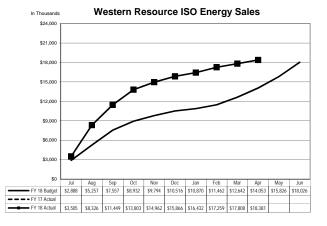
Annual Budget Cost Third Party Revenue Analysis By Source As of April 30, 2018

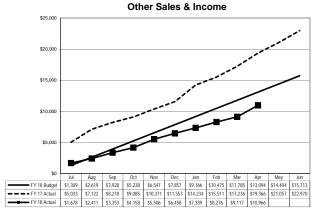












Annual Budget NCPA Generation Detail Analysis By Plant As of April 30, 2018

Generation Cost Analysis

\$ in thousands

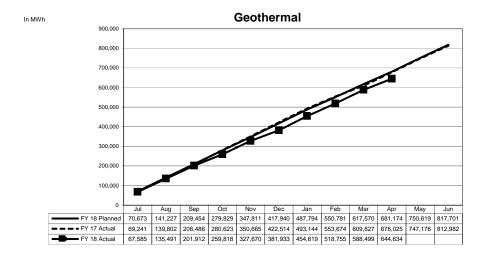
			Ge	othermal			
				\$/MWh	Ur	nder(Ovr)	YTD %
	Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 17,564	\$ 13,282	\$	20.60	\$	4,283	24%
Capital Assets/Spare Parts Inventories	1,440	394		0.61		1,046	73%
Other Costs	7,863	6,139		9.52		1,724	22%
CA ISO Charges	317	274		0.43		43	13%
Debt Service	4,936	4,113		6.38		823	17%
Annual Budget	32,120	24,202		37.54		7,918	25%
ess: Third Party Revenue							
Interest Income	148	233		0.36		(85)	-58%
ISO Energy Sales	28,349	23,177		35.95		5,172	18%
Ancillary Services Sales	-	(4)		(0.01)		4	
Effluent Revenues	700	1,054		1.64		(354)	-51%
Misc	110	114		0.18		(4)	-4%
	29,307	24,573		38.12		4,734	16%
let Annual Budget Cost to Participants	\$ 2,813	\$ (371)	\$	(0.58)	\$	3,184	113%
let GenerationMWh @ Meter	817,701	644,634					
/MWh (A)	\$ (2.60)	\$ (6.96)					

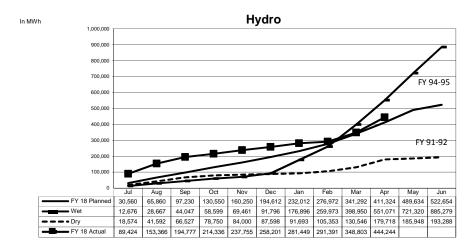
			Ну	droelectric	;		
			Ť	\$/MWh	ı	Jnder(Ovr)	YTD %
	Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 8,465	\$ 5,924	\$	13.33	\$	2,542	30%
Capital Assets/Spare Parts Inventories	2,365	4,999		11.25		(2,634)	-111%
Other Costs	3,093	2,239		5.04		854	28%
CA ISO Charges	1,680	2,326		5.24		(646)	-38%
Debt Service	38,258	31,882		71.77		6,376	17%
Annual Budget	53,862	47,370		106.63		6,492	12%
Less: Third Party Revenue							
Interest Income	244	384		0.86		(139)	-57%
ISO Energy Sales	22,050	23,167		52.15		(1,117)	-5%
Ancillary Services Sales	2,222	2,264		5.10		(42)	-2%
Misc	-	2,901		6.53		(2,901)	
	24,516	28,716		64.64		(4,200)	-17%
Net Annual Budget Cost to Participants	\$ 29,346	\$ 18,654	\$	41.99	\$	10,692	
Net GenerationMWh @ Meter	522,654	444,244					
\$/MWh (A)	\$ (17.05)	\$ (29.78)	1				

Footnotes:

(A) Aggregate fiscal year generation in \$/MWh (excluding debt service)

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant As of April 30, 2018

Generation Cost Analysis

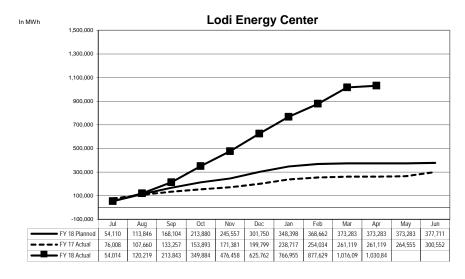
		Loc	di E	nergy Ce	nte	r	
				\$/MWh	ı	Jnder(Ovr)	YTD %
	 Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 10,174	\$ 10,438	\$	10.13	\$	(264)	-3%
Fuel	14,877	25,703		24.93		(10,826)	-73%
AB 32 GHG Offset	-	-		-		-	0%
CA ISO Charges and Energy Purchases	3,921	5,013		4.86		(1,092)	-28%
Capital Assets/Spare Parts Inventories	2,636	1,763		1.71		873	33%
Other Costs	3,063	2,238		2.17		825	27%
Debt Service	26,417	21,933		21.28		4,484	17%
Annual Budget	61,088	67,088		65.08		(6,000)	-10%
Less: Third Party Revenue							
Interest Income	172	353		0.34		(181)	-105%
ISO Energy Sales	19,760	47,272		45.86		(27,512)	-139%
Ancillary Services Sales	397	1,779		1.73		(1,382)	-348%
Transfer Gas Credit	-	-		-		-	0%
Misc	-	75		0.07		(75)	0%
	20,329	49,479		48.00		(29,150)	-143%
Net Annual Budget Cost to Participants	\$ 40,759	\$ 17,609	\$	17.08	\$	23,150	57%
Net GenerationMWh @ Meter	377,711	1,030,840					
\$/MWh (A)	\$ 37.97	\$ (4.19)					

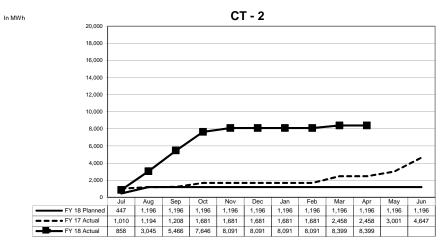
		С	ombustic	on	Turbine N	ο.	2 (STIG)	
					\$/MWh	-	Jnder(Ovr)	YTD %
	Budget		Actual		Actual		Budget	Remaining
Routine O & M	\$ 1,471	\$	1,120	\$	133.31	\$	351	24%
Fuel and Pipeline Transport Charges	835		949		113.02		(115)	-14%
Capital Assets/Spare Parts Inventories	121		10		1.19		111	92%
Other Costs	502		354		42.13		149	30%
CA ISO Charges	0		331		39.36		(330)	-71306%
Debt Service	5,693		4,744		564.83		949	17%
Annual Budget	8,623		7,508		893.85		1,115	13%
Less: Third Party Revenue								
Interest Income	43		69		8.26		(27)	-62%
ISO Energy Sales	89		1,168		139.00		(1,079)	-1214%
Ancillary Service Sales	-		0		0.00		(0)	0%
Fuel and Pipeline Transport Credits	864		1,153		137.24		(288)	-33%
Misc	-		-		-		-	0%
	996		2,390		284.51		(1,394)	-140%
Net Annual Budget Cost to Participants	\$ 7,627	\$	5,118	\$	609.34	\$	2,509	33%
Net GenerationMWh @ Meter	1,196		8,399					
\$/MWh (A)	\$ 1,616.78	\$	44.51					

Footnotes:

(A) Aggregate fiscal year generation in \$/MWh (excluding debt service)

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant As of April 30, 2018

Generation Cost Analysis

		Combu	ısti	ion Turbin	e N	lo. 1	
				\$/MWh	ι	Jnder(Ovr)	YTD %
	Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 1,520	\$ 1,810	\$	136.30	\$	(290)	-19%
Fuel and Pipeline Transport Charges	172	-		-		172	100%
Capital Assets/Spare Parts Inventories	992	356		26.78		636	64%
Other Costs	514	400		30.13		114	22%
CA ISO Charges	1	338		25.46		(338)	-57517%
Debt Service	-	-				-	
Annual Budget	3,199	2,904		218.67		294	9%
Less: Third Party Revenue							
ISO Energy Sales	119	2,155		162.25		(2,036)	-1711%
Ancillary Services Sales	-	-,		0.00		(0)	0%
Misc	-	16		1.18		(16)	0%
	119	2,171		163.42		(2,052)	-1724%
Net Annual Budget Cost to Participants	\$ 3,080	\$ 734	\$	55.25	\$	2,346	76%
							•
Net GenerationMWh @ Meter	1,514	13,282					
\$/MWh (A)	\$ 2,034.06	\$ 55.25					

Footnotes:

(A) Aggregate fiscal year generation in \$/MWh (excluding debt service)

MWhs Generated

