





BUSINESS PROGRESS REPORT

FEBRUARY 2017

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Generation Costs & Reliability

Combustion Turbine Project

Availability/Production for January

Unit	Availa	ability	Pr	oductio	on	Reason for Run
CT1 Alameda	Unit 1	Unit 2	Unit 1	45.9	MWHr	CAISO / CAISO
O 1 7 Marrieda	26.72%	26.72%	Unit 2			0/1100 / 0/1100
Curtailments & Outages			08-Jan-17 7:00 10:11 Transmission induced outage 09Jan-30Jan 0:00 23:59 Annual maintenance 31-Jan-17 0:00 14:01 Annual maintenance / 08-Jan-17 7:00 10:11 Transmission induced outage 09Jan-30Jan 0:00 23:59 Annual maintenance 31-Jan-17 0:00 14:01 Annual maintenance			
CT1 Lodi	98.2	25%		64.6	MWHr	CAISO
Curtailments & Outages					44 High EG 23:59 High I	T spread EGT spread/emissions
CT2 STIG	100.	00%		0.0	MWHr	CAISO
Curtailments & Outages			None.			
LEC	100.	00%		0.0	MWHr	None.
С	urtailments	& Outages	None.			

Maintenance Summary – Specific per asset above.

Geothermal Facilities

Availability/Production for January

Unit	Availability	Net Electricity Generated/Water Delivered	Out-of-Service/Descriptors		
Unit 1	100 %	19,767 MWh	Unit 1 had no outages for the month of January.		
Unit 2	100 %	19,854 MWh	Unit 2 had no outages for the month of January.		
Unit 3	N/A %	N/A	Unit 3 remains out of service for the month of January.		
Unit 4	100 %	31,717 MWh	Unit 4 had no outages for the month of January.		
Southeast Geysers Effluent Pipeline	100 %	232.9 mgallons	Average flow rate: 5,361 gpm		
Southeast Solar Plant	N/A	42,888 KWh	Year-to-date KWh: 42,888		
Bear Canyon Pump Station Zero Solar	N/A	78,814 KWh	Year-to-date KWh: 78,814		

Hydroelectric Project

Availability/Production for January

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	95.47 %	53,404 MWh	CV #1 unit was out of service on 01/08/17 at 1124 through 01/09/17 at 1741 due to high tail water level. CV #1 unit was out of service on 01/10/17 at 0956 through 1015 due to high tail water cutback testing. CV #1 unit was out of service on 01/10/17 at 1021 through 1036 due to high tail water cutback testing. CV #1 unit was out of service on 01/11/17 at 2314 through 01/12/17 at 0202 due to high wheel pit level.
Collierville Unit 2	95.85 %	55,455 MWh	CV #2 unit was out of service on 01/08/17 at 1155 through 01/09/17 at 1848 due to high tail water level.
Spicer Unit 1	85.82 %	992 MWh	NSM #1 unit was out of service on 01/04/17 at 0903 through 1134 due to transfer trip comm. trouble. NSM #1 unit was out of service on 01/10/17 at 2134 through 01/13/17 at 1144 due to transfer trip comm. trouble. NSM #1 unit was out of service on 01/22/17 at 1920 through 01/24/17 at 1211 due to PG&E line trouble.
Spicer Unit 2	85.85 %	935 MWh	NSM #2 unit was out of service on 01/04/17 at 0903 through 1130 due to transfer trip comm. trouble. NSM #2 unit was out of service on 01/10/17 at 2134 through 01/13/17 at 1144 due to transfer trip comm. trouble. NSM #2 unit was out of service on 01/22/17 at 1920 through 01/24/17 at 1202 due to PG&E line trouble.
Spicer Unit 3	82.31 %	230 MWh	NSM #3 unit was out of service on 01/04/17 at 0903 through 01/05/17 at 1205 due to transfer trip comm. trouble. NSM #3 unit was out of service on 01/10/17 at 2134 through 01/13/17 at 1357 due to transfer trip comm. trouble. NSM #3 unit was out of service on 01/22/17 at 1920 through 01/24/17 at 1132 due to PG&E line trouble.

Operations & Maintenance Activities:

- Monthly CMMS work orders
- Beaver Creek Sluicing Operation
- Collierville/Bellota 230kv transmission line communication circuit upgrade to wireless
- Collierville high tail water cutback control upgrade

Environmental, Health & Safety (EH&S) Projects

Incident Reports

 There was one vehicle accident that occurred on January 10, 2017, one lost time incident that occurred on January 24, 2017, and one recordable incident that occurred on January 8, 2017.

<u>Note</u>: Since this report reflects results posted through pay period ending January 21, 2017 and the lost time accident occurred on January 24, the incident will be reported on next month's incident report.

- 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 January 21, 2017.
- 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.

January
Generation Services Safety Report

Generation dervices darety Report								
	Hydro	GEO	CT Group *	NCPA HQ **				
CalOSHA Recordable (this month)	0	1	0	0				
CalOSHA Recordable (calendar year)	0	1	0	0				
Days since Recordable	766	13	656	5,724				
Work Hours Since Last Recordable	64,998	2,305	96,637	2,058,699				
LTA's (this month)	0	1	0	0				
LTA's (calendar year)	0	1	0	0				
Days without LTA	3,382	2,963	4,510	4,653				
Work Hours without LTA	310,563	677,591	538,001	1,680,719				
Vehicle Incident (month)	0	0	1	0				
Vehicle Incident (calendar year)	0	0	1	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 January 21, 2017.

^{**} 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 2017 Data

	January 2017		Calendar Year 2017			
	Peak MW	MWh	Peak MW	MWh		
NCPA Pool	351.61 1/18 @1800	205,674	351.61 1/18 @1800	205,674		
SVP	448.66 1/10 @1800	300,958	448.66 1/10 @1800	300,958		
MSSA	788.11 1/10 @ 1800	506,632	788.11 1/10 @ 1800	506,632		

Last Year 2016 Data*

	January 2016		Calendar Year 2016		
	Peak MW MWh		Peak MW	MWh	
NCPA Pool	339.45 1/6 @1900	199,166	449.75 7/27 @1700	199,166	
SVP	437.66 1/29 @ 1400	289,203	534.21 9/26 @ 1700	289,203	
MSSA	762.2 1/14 @ 1800	488,369	968.73 7/27 @ 1600	488,369	

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

System Peak Data

	All Time Peak Demand	2017 Peak Demand
NCPA Pool	517.83 MW on 7/24/2006 @ 1500	351.61 1/18 @1800
SVP	534.21 MW on 9/26/16 @ 1700	448.66 1/10 @1800
MSSA	988.56 MW on 7/08/2008 @ 1500	788.11 1/10 @ 1800

 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 5-minute 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				
	January 2017	Calendar Year 2017		
MSSA % Within the Band	99.40%	99.40%		

- January 8 @ 0300 January 12 @ 1100, McKay's spilled due to high natural flows.
- Peak spill exceeded 16,000cfs on January 8 about 2030.
- Spicer Meadows:
 - January 4 and 10 14, Units off line due to transfer trip comm trouble.
 - January 22 24, Units off line due to PG&E line trouble.
- Geothermal Units:
 - January 3 @ 0046 0137 Unit 4 off line due to vacuum pump trip.
- Lodi Energy Center:
 - No curtailments.
- Alameda CTs:
 - January 8 @ 0700 1011 Unit 1 and 2 o/s due to PG&E line work.
 - January 9 31 Unit 1 and 2 o/s for annual maintenance.
- Lodi CT:
 - January 22 @ 0813 0844 Unit trip on high EGT spread. Unit restarted and tripped again at 1132, forced o/s due to 2 starts/day limitation.
- Collierville Units:
 - January 8 12 Units 1 & 2 derated varying amounts due to issues associated with high tail water levels and spill conditions.
 - January 18 @ 1400 1500 and January 29 @ 1200 1400 Units 1 & 2 derated for intake trash rack cleaning (tunnel burp).
- STIG:
 - No curtailments.

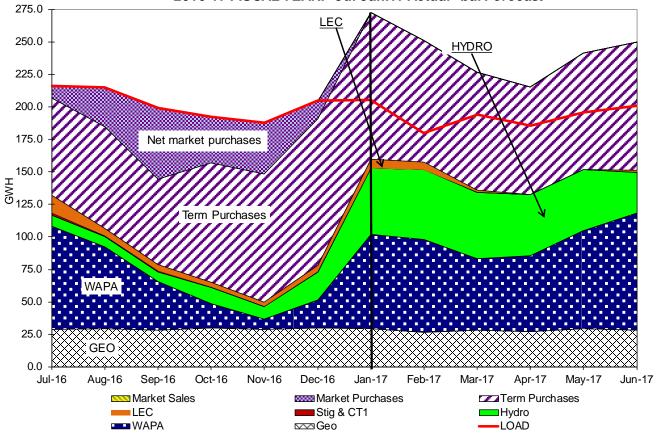
Pooling & Portfolio Planning & Forecasting

- Actual NCPA Pool load of 205.7 GWh in January equaled 102% of the pre-month forecast of 202.5 GWh as weather was volatile.
- Pool load, at 77.0 GWh through the 12th is on pace to total 179.5 GWh in February, very close to the forecast of 179.9 GWh. Loads at forecast for the month comes despite recent slightly warmer (and wetter) February weather.
- The Lodi Energy Center (LEC) generated 7.0 of the forecasted 9.7 GWh in January for the pool as power values in the CAISO markets remained low while gas prices are relatively high. Strong renewable generation continues.
- For the month of January, 27.05 inches of rain was recorded at Big Trees gage. The January average Big Trees precipitation is 9.87 inches.
- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) has been reduced to \$10/MWh from \$30/MWh.

- NSMR storage as of January 31 was at 122,172 acre feet. The historical average NSMR storage at the end of January is 78,975 acre feet. As of February 12, NSMR storage is 133,358 acre feet. The NCPA Pool share of NSMR storage is 69,797 acre feet.
- Combined Calaveras Project generation for the Pool in January totaled 51.0 GWh, up from 21.5 GWh in November. The Pool's 51.0 GWh in January was more than the premonth forecast of 18.8 GWh. Through February 12th, Calaveras generation for the Pool (21.7 GWh) is running near the month's forecast of 53.3 GWh.
- Western Base Resource (BR) Pool delivery Pool in January was 72.6 GWh compared to the forecast of 9.9 GWh. Through February 12th, BR pool allocations at 41.9 GWh are already over half of the February forecast of 71.4 GWh.
- PG&E City-Gate gas index most recently traded at \$3.325/MMBtu for February 13th delivery compared to an average of \$3.62/MMBtu with a high of \$4.035/MMBtu for the month of January. Prices rose sharply during December and now seem to be tapering back. While the PG&E Bidweek price for February gas averaged \$3.71, daily Platt's prices have been progressively lower as spring is within sight.
- Day-ahead HLH (on-peak) NP15 electricity remains relatively low on average with spikes occurring on days with highest load. The HLH and LLH day-ahead average LMPs for February 13th delivery were \$36.96 and \$29.00/MWh, respectively.

NCPA Pool Loads & Resources Value Summary									
	Pea	ak and Energ			Estimated Pro	duction Costs	Cost of Ser	ving Demand	
		January	2017						
	Coincident		Forecast						
	Peak (MW)	Total MWh	Values	Avg. MW	NCPA	Pool			
	Jan-18-17				Cost/Revenue	Variable Cost			
	Hour 18				(Estimate)	(\$/MWh)	Totals	Avg (\$/MWh)	
Demand	351.6	205,674	202,513	276.4	N/A	N/A	at Manhat (Name in a Bulan	
WAPA	121.0	72,578	9,889	97.6	\$ 953,194	13.13		Slearing Price	
Geothermal	38.9	29,238	29,567	39.3	\$ 555,525		Ψ 7,525,155	Ψ 30.30	
Hydro	111.0	50,951	19,597	71.0	\$ 305,706	\$ 6.00			
Stig & CTs	- 1	92	-	0.1	\$ 7,315	\$ 79.90	at Variable Cost	of Pool Generation	
LEC	-	6,998	9,730	9.4	\$ 291,191	\$ 41.61			
Contracts	151.1	112,536	86,419	159.5	\$ 5,560,811		\$ 5,794,167	\$ 28.17	
Market - Net	(70.4)	(66,719)	47,311	(100.4)	\$ (2,440,573)	\$ 36.58			
(Net Sales = Negative) Net Total	351.6	205,674	202,513	276.4	\$ 5,233,169	\$ 28.17			
Net Total	331.0	203,074	202,513	270.4	Ψ 3,233,109	Ψ 20.17	l.		l
		Mont	hly Market	Summar	У				
			Avg Variable	Forwa	rd Prices (EOX NP15	HLH Ask Prices)		NOTES TO SUMMARY	TABLE:
			Cost of Pool						
		HLH Avg MCP	P Generation NP15 1/3/2017 2/10/2017 (\$/MWh)						
	(MWh) (\$MWh) (\$MWh) (\$MWh) Peak and Energy Summary:								
		. ,	. ,		(+- /		•	•	
Jul-16	216,062	\$ 36.40	\$ 38.15	Feb-17	\$ 35.30	\$ 34.84	* Monthly generation	summary of Coincidental	Peak (hour in which pool demand peaked),
Aug-16	215,007	\$ 36.40 \$ 37.71	\$ 38.15 \$ 41.27	Mar-17	\$ 35.30 32.95	\$ 34.84 28.20	* Monthly generation total MWH for the mo	summary of Coincidental nth, and pre-month foreca	sted values for report period.
Aug-16 Sep-16	215,007 199,228	\$ 36.40 \$ 37.71 \$ 36.67	\$ 38.15 \$ 41.27 \$ 45.69	Mar-17 Apr-17	\$ 35.30 32.95 31.23	\$ 34.84 28.20 27.17	 Monthly generation total MWH for the mo Generation totals a 	summary of Coincidental nth, and pre-month foreca re for POOL SHARE of the	sted values for report period. e projects.
Aug-16 Sep-16 Oct-16	215,007 199,228 192,514	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08	Mar-17 Apr-17 Q2 2017	\$ 35.30 32.95 31.23 \$ 31.37	\$ 34.84 28.20 27.17 \$ 28.17	* Monthly generation total MWH for the mo * Generation totals a * Hydro totals include	summary of Coincidental nth, and pre-month foreca re for POOL SHARE of the e Collierville and Spicer ge	sted values for report period. e projects.
Aug-16 Sep-16 Oct-16 Nov-16	215,007 199,228 192,514 187,997	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69 \$ 31.67	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08 \$ 39.08	Mar-17 Apr-17 Q2 2017 Q3 2017	\$ 35.30 32.95 31.23	\$ 34.84 28.20 27.17	* Monthly generation total MWH for the mo * Generation totals a * Hydro totals include Estimated Production	summary of Coincidental nth, and pre-month foreca re for POOL SHARE of the e Collienville and Spicer go on Costs:	sted values for report period. e projects. eneration.
Aug-16 Sep-16 Oct-16	215,007 199,228 192,514	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69 \$ 31.67 \$ 38.29	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08 \$ 39.08 \$ 39.08	Mar-17 Apr-17 Q2 2017	\$ 35.30 32.95 31.23 \$ 31.37 40.36 39.98	\$ 34.84 28.20 27.17 \$ 28.17 37.73	* Monthly generation total MWH for the mo * Generation totals a * Hydro totals include Estimated Productio * Fixed project costs	summary of Coincidental nth, and pre-month foreca re for POOL SHARE of the e Collienville and Spicer go on Costs:	sted values for report period. e projects.
Aug-16 Sep-16 Oct-16 Nov-16 Dec-16	215,007 199,228 192,514 187,997 204,678	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69 \$ 31.67 \$ 38.29	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08 \$ 39.08 \$ 39.08	Mar-17 Apr-17 Q2 2017 Q3 2017 Q4 2017	\$ 35.30 32.95 31.23 \$ 31.37 40.36 39.98	\$ 34.84 28.20 27.17 \$ 28.17 37.73 39.43	* Monthly generation total MWH for the mo * Generation totals a * Hydro totals include Estimated Productio * Fixed project costs are used to calculate	summary of Coincidental nth, and pre-month foreca re for POOL SHARE of the Collierville and Spicer gran Costs: not included except for W the average unit cost.	sted values for report period. e projects. eneration.
Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17	215,007 199,228 192,514 187,997 204,678	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69 \$ 31.67 \$ 38.29	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08 \$ 39.08 \$ 39.08	Mar-17 Apr-17 Q2 2017 Q3 2017 Q4 2017 CY2018	\$ 35.30 32.95 31.23 \$ 31.37 40.36 39.98 \$ 36.27	\$ 34.84 28.20 27.17 \$ 28.17 37.73 39.43 \$ 35.24	Monthly generation total MWH for the mo Generation totals a Hydro totals including Estimated Production Fixed project costs are used to calculate STIG and CT costs	summary of Coincidental nth, and pre-month foreca re for POOL SHARE of the collierville and Spicer gron Costs: not included except for With the average unit cost. include forward natural ga	sted values for report period. e projects. eneration. /APA, where total month's project costs
Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17 Feb-17 Mar-17 Apr-17	215,007 199,228 192,514 187,997 204,678	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69 \$ 31.67 \$ 38.29	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08 \$ 39.08 \$ 39.08	Mar-17 Apr-17 Q2 2017 Q3 2017 Q4 2017 CY2018 CY2019 CY2020 CY2021	\$ 35.30 32.95 31.23 \$ 31.37 40.36 39.98 \$ 36.27 37.53 39.80 41.64	\$ 34.84 28.20 27.17 \$ 28.17 37.73 39.43 \$ 35.24 35.85 38.18 40.13	Monthly generation total MWH for the mo Generation totals a Hydro totals including Estimated Production Fixed project costs are used to calculate STIG and CT costs	summary of Coincidental nth, and pre-month foreca re for POOL SHARE of the collientille and Spicer go n. Costs: not included except for W the average unit cost. include forward natural gateflect \$2.60 and \$1.62/MW.	sted values for report period. projects. eneration. /APA, where total month's project costs as and basis hedge transactions.
Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17 Feb-17 Mar-17 Apr-17 May-17	215,007 199,228 192,514 187,997 204,678	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69 \$ 31.67 \$ 38.29	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08 \$ 39.08 \$ 39.08	Mar-17 Apr-17 Q2 2017 Q3 2017 Q4 2017 CY2018 CY2019 CY2020 CY2021 CY2022	\$ 35.30 32.95 31.23 \$ 31.37 40.36 39.98 \$ 36.27 37.53 39.80 41.64 42.19	\$ 34.84 28.20 27.17 \$ 28.17 37.73 39.43 \$ 35.24 35.85 38.18 40.13 40.75	Monthly generation total MWH for the mo Generation totals a Hydro totals include Estimated Productic Fixed project costs are used to calculate STIG and CT costs STIG & CT costs re Cost of Serving Den Compares price of me	summary of Coincidental nth, and pre-month force or for POOL SHARE of the Collientille and Spicer gr on Costs: not included except for W the average unit cost. include forward natural ge effect \$2.60 and \$1.62/MW namd:	sted values for report period. projects. eneration. /APA, where total month's project costs as and basis hedge transactions. /H variable O&M costs per 6-12-06 GSCA. nd with (1) Hourly pool market clearing price;
Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17 Feb-17 Mar-17 Apr-17	215,007 199,228 192,514 187,997 204,678	\$ 36.40 \$ 37.71 \$ 36.67 \$ 35.69 \$ 31.67 \$ 38.29	\$ 38.15 \$ 41.27 \$ 45.69 \$ 39.08 \$ 39.08 \$ 39.08	Mar-17 Apr-17 Q2 2017 Q3 2017 Q4 2017 CY2018 CY2019 CY2020 CY2021	\$ 35.30 32.95 31.23 \$ 31.37 40.36 39.98 \$ 36.27 37.53 39.80 41.64	\$ 34.84 28.20 27.17 \$ 28.17 37.73 39.43 \$ 35.24 35.85 38.18 40.13 40.75	Monthly generation total MWH for the mo Generation totals a Hydro totals include Estimated Productic Fixed project costs are used to calculate STIG and CT costs STIG & CT costs re Cost of Serving Den Compares price of me	summary of Coincidental nth, and pre-month force or for POOL SHARE of the Collientille and Spicer gr on Costs: not included except for W the average unit cost. include forward natural ge effect \$2.60 and \$1.62/MW namd:	sted values for report period. projects. eneration. /APA, where total month's project costs as and basis hedge transactions. /H variable O&M costs per 6-12-06 GSCA.

NCPA POOL RESOURCES 2016-17 FISCAL YEAR: Jul-Jan.17 Actual - bal Forecast



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 April 2017:
 - Monthly System Resource Adequacy Demonstration (filed February 15, 2017)
 - Monthly Supply Plan (filed February 15, 2017)

Industry Restructuring

NCPA is actively participating on behalf of the members in the following CAISO stakeholder initiatives:

Commitment Costs and Bidding Enhancements

 This CAISO stakeholder initiative is focused on refining the method used to calculate minimum load and start-up costs (otherwise known as "Commitment Costs") that are incorporated into a generating facilities Bid. The outcome of this stakeholder initiative will impact how NCPA manages the member resources; therefore, NCPA has a strong interest in this process.

Reliability Services 2

• Through the Reliability Services Initiative 2, CAISO is exploring certain enhancements to the current Resource Adequacy program, including, but not limited to, defining substitution requirements for flexible capacity on planned outages, address RAAIM exemptions, separate local and system RA for purposes of forced outage substitution, and clarify LRA interactions and process alignment. In this initiative NCPA will focus on limiting the applicability of new Resource Adequacy requirements to the NCPA members. NCPA is actively participating in this stakeholder process and market simulation.

FRAC MOO 2

• CAISO has initiated the second phase of the Flexible Resource Adequacy Capacity and Must Offer Obligation initiative (otherwise known as "FRAC MOO 2"). In the FRAC MOO 2 initiative CAISO is planning to address the following issues: (i) assess the need to create a separate downward flexible capacity attribute, (ii) determine eligibility of 15-minute dispatchable intertie resources to provide flexible RA; (iii) access flexible capacity eligibility from storage resources who do not fit within the NGR model, (iv) flexible capacity impacts of uncontracted/merchant Variable Energy Resources, and (v) review of the need to develop a 'regulation based' and 'load-following based' flexible capacity product. NCPA will actively participate in this effort and will represent the members' interests as they may appear.

Transmission Access Charge Options

• The current CAISO transmission access charge is a two-part rate for each megawatt hour of internal load and exports and is used to recover transmission revenue requirements. Revenue requirements for facilities rated 200 kV and above are recovered through a system-wide rate, while requirements for facilities rated below 200 kV are recovered via specific rates for each participating transmission owner. This initiative will determine if the same structure would be appropriate should a transmission owner with a load service territory join the CAISO as a new participating transmission owner. Transmission costs are a major component of the members' costs; therefore NCPA will closely monitor the development of this initiative.

Regional Resource Adequacy

 This initiative will evaluate resource adequacy tariff provisions appropriate for use in a regional ISO balancing authority area that encompasses multiple states. NCPA's main objective in this initiative will be to preserve the members' local control and unique treatment as a load-following MSS.

Bid Cost Recovery Enhancements

 In this initiative CAISO is evaluating changes to the way IFM and Real-Time Market Bid Cost Recovery (BCR) costs are allocated to market participants. More specifically, CAISO is evaluating if the Self-Scheduling offset currently incorporated into the IFM BCR should be removed, and if Real-Time Market BCR costs should be allocated using a two (2) tier mechanism. As a market participant who is exposed to BCR costs, NCPA has an interest in this stakeholder process; therefore, NCPA will closely monitor the development of this initiative.

Western
Western Base Resource Tracking (NCPA Pool)

	Western Base Resource Tracking - NCPA Pool								
		Actual		Costs & Rates					
	BR			Base Resource &	Monthly Cost	CAISO LMP	12-Mo Rolling		
	Forecast ¹	BR Delivered	Difference	Restoration Fund	of BR ²	Differential ³	Avg. Cost of BR ⁴		
	(MWh)	(MWh)	(MWh)	(\$)	(\$/MWh)	(\$/MWh)	(\$/MWh)		
Jul-16	59,229	79,774	20,545	\$2,185,609	\$ 27.40	\$ 1.60	\$ 52.56		
Aug-16	45,311	62,933	17,622	\$2,185,609	\$ 34.73	\$ 0.74	\$ 50.43		
Sep-16	26,431	37,235	10,804	\$2,125,890	\$ 57.09	\$ 0.22	\$ 50.14		
Oct-16	19,823	19,056	(767)	\$1,135,901	\$ 59.61	\$ 0.19	\$ 50.53		
Nov-16	13,184	8,026	(5,158)	\$1,135,901	\$ 141.53	\$ 0.33	\$ 50.58		
Dec-16	16,048	21,742	5,694	\$1,135,901	\$ 52.24	\$ 0.12	\$ 48.62		
Jan-17	-	72,578	72,578	\$1,135,901	\$ 15.65	\$ 0.10	\$ 41.38		
Feb-17	13,801	-	(13,801)		\$ 82.30	\$ -	\$ 40.31		
Mar-17	47,259	-	(47,259)		\$ 24.04	\$ -	\$ 38.78		
Apr-17	52,011	-	(52,011)		\$ 43.83	\$ -	\$ 37.85		
May-17	76,515	-	(76,515)		\$ 29.79	\$ -	\$ 36.81		
Jun-17	76,360		(76,360)	\$2,279,529	\$ 29.85	\$ -	\$ 36.34		
1/	As forecaste	d in NCPA 16/1	7 Budget						
2/	= (Western C	ost + Restorati	on Fund)/BR [Delivered, for Pool I	Participants onl	у.			
3/	= (MEEA LMF	- PG&E LAP LI	MP) using publ	ic market informati	on (i.e. not set	tlement quality).		
	Based on BR impact.	Delivered (Acti	ual) when avai	lable and BR Forec	ast in all other	cases. Includes	CAISO LMP		

- MEEA pricing (market efficiency enhancement agreement) producing a savings of approximately \$7,500 for the Pool in January 2017. The displacement program was not active during this reporting period.
- Reclamation announced that Power customers will be refunded approximately \$7.8
 million due to over collections from previous years. WAPA has started issuing refunds
 via bill credits on Restoration Funding invoices. NCPA Pool will receive approximately
 \$1.45 million in credits on its Restoration Fund invoices in Jan-Mar 2017.

Debt and Financial Management

- The Fed increased key interest rates by 25 bps at their meeting in December. Treasury
 and MMD rates continue to be volatile, resulting in some large basis points swings
 during the month of January. While rates have increased twice over the last year, they
 are still well below historical averages. Analysts are projecting 2-3 additional rate
 increases during 2017.
- The yield curve has shifted higher as both short term and long-term rates have increased, the curve remains flat resulting in a projected shift of funds from the municipal bond market during the near term with projected inflow increases later in the year.

Schedule Coordination Goals

Software Development

- After a successful deployment of the Scheduling Software Suite for BART's BRT1 SCID (Scheduling Coordinator ID), IS staff is working on the configuration of the software suite to support the new MEID SCID for new customer Merced Irrigation District, as well as Santa Clara's 'SNCL' SCID for its non-MSS (Metered SubSystem) portfolio. The MEID SCID implementation is scheduled to take effect as early as April 2017, while SVP's may start as early as March 2017. The Scheduling Software Suite includes MARS (Member and Resource System) database, Deal Manager application, Prescheduler application, PAGES (Power Agency Grid Energy Scheduler) application and TABS (Trading and Bidding System) application.
- IS Staff continues researching utilization of Business Intelligence software technology to provide better data analysis capabilities to both internal staff and members.

Network

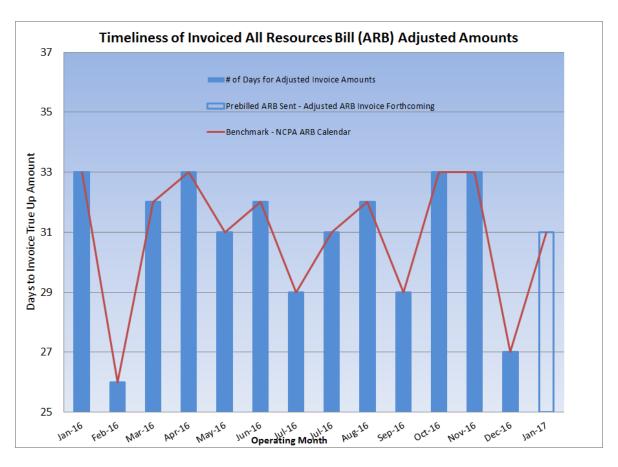
- Work continues on preparing to migrate e-mail from on-premise to Office 365. Ops and Support are working with vendors to strategize a plan for extracting old legacy archive mail. Plan to be completed with the migration in the coming months.
- "NCPA Connect" Extranet went live on January 23rd. This is the first phase of the new site that includes both public and member documents. Information Services will be focusing on the second phase as we prepare to enable collaboration workspaces to allow both members and NCPA staff to work together on common documents.
- About 95% of the Agency has been upgraded from Office 2010 to Office 2016 in the month of December. The additional 5% will be completed by the end of February 2017.
- Information Services continues to be involved with the ongoing CIP version 6 compliance efforts and recently participated in a security assessment of both the HQ and DRC control centers with Utility Services. Currently, we have a draft of the assessment and are working through the preliminary observations and recommendations.

- The Operation and Support group has been working with the Generation Services department to further expand wireless capability at both the Hydro and CT plants. Equipment was purchased and configured to expand wireless coverage at Alameda and Lodi CTs. Anticipated install date will be in February 2017.
- NCPA Information Services and other NCPA staff from Generation Services attended a two-day APPA cyber-security workshop to assess the Agency's overall security posture based on the Electric Sector - Cyber-Security Capability Maturity Model referred to as ES-C2M2. The C2M2 is a model developed by the Department of Energy specific to the electric sector to measure cybersecurity effectiveness across ten industry domains.

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 February 2017 NCPA All Resources Bill (ARB) monthly invoice sent to members on January 24, 2017 contains:
 - February 2017 monthly pre-billed budget/forecast amounts;
 - December 2016 (1st Adjustment) NCPA Project and CAISO Initial settlement trueups;
 - November 2016 (2nd Adjustment) NCPA Project settlement true-up and T+12 business day recalculated CAISO settlement true-up allocations;
 - September 2016 (3rd Adjustment) T+55 business day recalculated CAISO settlement true-up allocations and NCPA Projects true-up;
 - March 2016 (4th Adjustment) T+9 month recalculated CAISO settlement true-up allocations:
 - May 2015 (5th Adjustment) T+18 month recalculated CAISO settlement true-up allocations;
 - December 2013 (6th Adjustment) T+35 month CAISO settlement true-up



Legislative & Regulatory

Political Arena State/Federal/Western Programs

- NCPA held its Capitol Day program on January 30th. The program included a breakfast briefing by NCPA staff and guest speaker Kip Lipper from the Senate pro Tem's office; meetings with legislators and key energy staff in the Legislature and at the Air Resources Board; and a dinner event with legislators. For this program, NCPA developed issue papers on cap and trade, net energy metering, regionalization, our power plants, workforce development, and energy storage.
- NCPA is working closely with the Joint Utility Group to ensure that free greenhouse gas allowances continue to be provided to electric utilities by the California Air Resources Board (CARB) assuming the cap-and-trade program extends beyond 2020. In continuing discussions with CARB senior staff/executive management, specific points articulated in written comments by NCPA and various electric utilities, and a separate letter from the Joint Utility Group to CARB's Executive Office, NCPA and others stressed the value that free allowance distribution provides to local communities. The estimated value of these allowances to NCPA members from 2021 2030 exceeds \$250 million. CARB expects to incorporate changes to the cap-and-trade regulations later this year.
- NCPA participated with other members of the Transmission Access Policy Study Group (TAPS) in advocacy visits on Capitol Hill to begin to shape the issues of importance to public power in the new 115th Congress. In addition, NCPA reached out to new members in the NCPA congressional delegation. The meetings afforded the

opportunity to inform them about NCPA, its mission, and policy objectives. The visits laid important groundwork in advance of APPA's Winter Legislative Rally in March, and our annual federal policy conference in April.

Human Resources

Hires:

Mark Heaton joined NCPA on January 17, 2017 as a Computer Technology Analyst III at our Headquarters office in Roseville, CA. Mark brings with him over 5 years of computer information systems experience having previously worked for Tesco Controls Inc., as a SCADA Engineer. In addition, Mark is a CSU Stanislaus graduate with a Bachelor's Degree in Computer Information Systems.

Intern Hires:

None

Promotions/Position Changes:

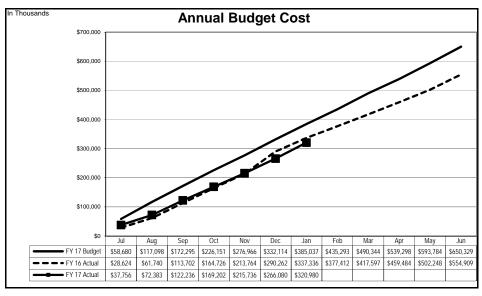
None

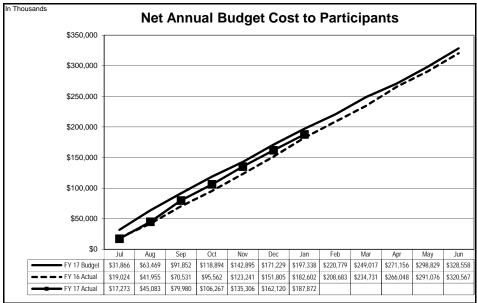
Terminations:

Weston Groves, Energy Resources Analyst IV, resigned from his position at our Roseville Headquarters. Weston left to pursue other opportunities.

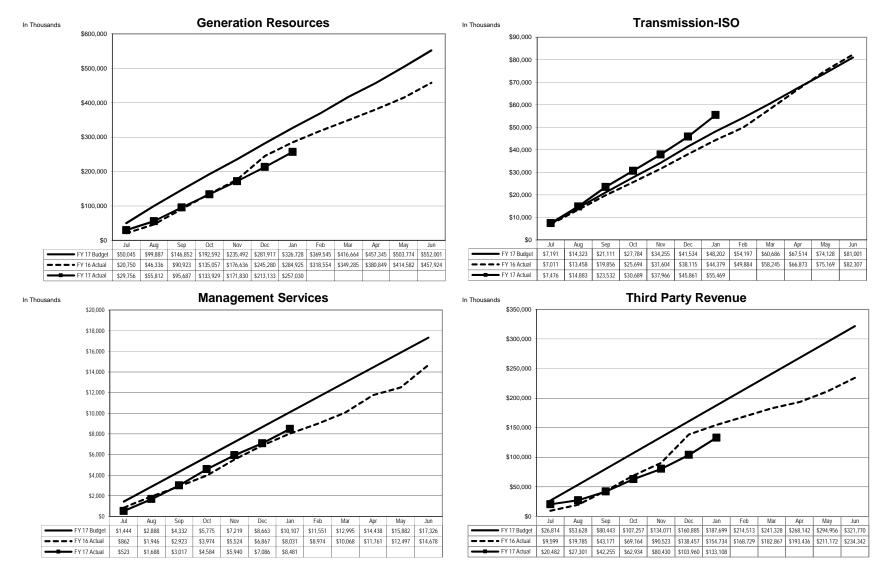
Annual Budget 2016-2017 Fiscal Year To Date As of January 31, 2017

NCPA Plants	In Thousands	Program			
NCPA Plants Hydroelectric S1,854 29,494 \$ 22,361 43% Geothermal Plant 33,145 16,763 16,392 49% Combustion Turbine No. 1 2,448 1,969 679 29% 29% 20%		Annual			YTD %
Hydroelectric	GENERATION RESOURCES	Budget	Actual	Budget	Remaining
Geothermal Plant 2,648 1,969 679 28% Combustion Turbine No. 1 2,648 1,969 679 28% Combustion Turbine No. 2 (STIG) 8,887 4,781 3,806 44% 4,64%	NCPA Plants				
Combustion Turbine No. 2 (STIG) Combustion Turbine No. 2 (STIG) Lodi Energy Center Member Resources - Energy Member Resources - Natural Gas Western Resources - 30,288 13,889 1,1658 13,889 14,878 13,289 19,707 19,595 50% Nat GHG Obligations 24,0129 106,215 133,914 56% Net GHG Obligations 25,540 105,355 2,001 257,030 294,971 53% TRANSMISSION Independent System Operator MANAGEMENT SERVICES Legislative & Regulatory Western Representation Regulatory Representation Regulatory Representation Regulatory Representation System Control & Load Dispatch Forecasting & Prescheduling System Control & Load Dispatch Forecasting & Prescheduling Contract Admin, Interconnection Svcs & Ext. Affairs Green Power Project 18 11 17 212 249 249 252 272 278 479 278 478 278 478 478 388 1,058 56% 56% 56% 56% 66% 66% 66% 66% 66% 66%	Hydroelectric	51,854	29,494	\$ 22,361	43%
Combustion Turbine No. 2 (STIG)		33,145	16,763	16,382	49%
Lodi Energy Center		2,648	1,969	679	26%
189.227 86.939 102.288 54%					
Member Resources - Energy 45,638 26,527 19,111 42% 42% 4878 3,219 1,658 34% 4878 3,219 1,658 34% 4878 3,219 1,658 34% 4878 3,219 1,658 34% 4878 3,219 1,659 50% 486 39,302 19,707 19,595 50% 480 106,215 133,914 56% 480 106,215 133,914 56% 480 4	Lodi Energy Center				
Member Resources - Natural Gas 4.878 3.219 1.658 34% Western Resources 30,288 13,889 16,399 54% Market Power Purchases 39,302 19,707 19,595 50% Load Aggregation Costs - ISO 240,129 106,215 133,914 56% Net GHG Obligations 2,540 553 2,005 79% TRANSMISSION 552,001 257,030 294,971 53% TRANSMISSION				- ,	
Western Resource		-,			
Market Power Purchases					
Load Aggregation Costs - ISO Ref G Obligations 240,129 100,215 133,914 56% Ref G Obligations 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 552,001 257,030 294,971 53% 252,001 257,030 294,971 252,001 257,030 294,971 252,001 257,030 294,971 252,001 257,030 294,971 252,001 257,030 244,071 244,001					
Net GHG Obligations		,			
S52,001					
TRANSMISSION					
Independent System Operator	TRANSMISSION	002,001	201,000	20 1,01 1	0070
Legislative & Regulatory Legislative Representation Regulatory Representation 794 471 324 41% 324 41% 324 41% 324 41% 324 41% 324 41% 324 41% 324 41% 324 320		81,001	55,469	25,532	32%
Legislative & Regulatory Legislative Representation 794 471 324 41% 794 471 324 41% 794 471 324 41% 794 79	MANAGEMENT SERVICES				
Regulatory Representation 794 471 324 41% Western Representation 817 320 497 61% Member Services 432 220 212 49% Judicial Action 625 347 278 44% Power Management 5,622 2,893 2,729 49% Forecasting & Prescheduling 2,555 1,235 1,320 52% Industry Restructuring 414 169 245 59% Contract Admin, Interconnection Svcs & Ext. Affairs 650 57% Green Power Project 18 1 17 94% Gas Purchase Program 87 35 51 59% Market Purchase Project 128 46 82 64% Energy Risk Management 212 64 148 70% Settlements 862 295 567 66% Integrated System Support 311 79 232 75% Participant Pass Through Costs 1,417 887 530 37% Support Services 18,417 69,017 115,100 63% Ancillary Services Sales 3,790 2,403 1,387 37% Other ISO Revenue - 8,031 (8,031) Transmission Sales 110 64 46 42% Western Credits, Interest & Other Income 14,811 14,234 577 4% Western Credits, Interest & Other Income 14,811 14,234 577 4% Settlements 14,811 14,234 577 4% Western Credits, Interest & Other Income 14,811 14,234 577 4% Western Credits, Interest & Other Income 14,811 14,234 577 4% Settlements 14,811 14,234 577 4% Western Credits, Interest & Other Income 14,811 14,234 577 4% Settlements 14,811 14,234 577 4% Settlements 14,811 14,234 577 4%					
Western Representation 817 320 497 61% Member Services 432 220 212 49% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 1,849 2,091 53% 3,940 2,289 3,2729 44% 44	Legislative Representation	1,897	838	1,058	56%
Member Services	Regulatory Representation	794	471	324	41%
3,940	Western Representation	817	320	497	61%
Judicial Action	Member Services	432	220	212	49%
Power Management System Control & Load Dispatch 5,622 2,893 2,729 49% Forecasting & Prescheduling 2,555 1,235 1,320 52% Industry Restructuring 414 169 245 59% Contract Admin, Interconnection Svcs & Ext. Affairs 1,137 487 650 57% Green Power Project 18 1 17 94% Gas Purchase Program 87 35 51 59% Market Purchase Project 128 46 82 64% 64% 64% 64% 64% 65% 65% 66% 6		3,940	1,849	2,091	53%
System Control & Load Dispatch 5,622 2,893 2,729 49%	Judicial Action	625	347	278	44%
Forecasting & Prescheduling 2,555 1,235 1,320 52% Industry Restructuring 414 169 245 59% Contract Admin, Interconnection Svcs & Ext. Affairs 1,137 487 650 57% Green Power Project 18 1 17 94% Gas Purchase Project 128 46 82 64% 646 82 64% 646 82 64% 646 82 64% 646 82 64% 646 82 64% 646 65,094 66% 650,094 66% 650,094 66%	Power Management				
Industry Restructuring		5,622	2,893	2,729	49%
Contract Admin, Interconnection Svcs & Ext. Affairs Green Power Project	o o	2,555	1,235	1,320	52%
See Power Project 18				-	
Sas Purchase Program					
Market Purchase Project	•	-			
Settlements 212 64 148 70%		-		-	
Energy Risk Management 212 64 148 70% Settlements 862 295 567 66% Integrated System Support 311 79 232 75%	Market Purchase Project				
Settlements		-,	.,	-,	
Integrated System Support				-	
Participant Pass Through Costs 1,417 887 530 37%					
Color				-	
17,326		1,417			37%
TOTAL ANNUAL BUDGET COST 650,328 320,980 329,348 51%	Support Services	17.326		(- /	51%
LESS: THIRD PARTY REVENUE Plant ISO Energy Sales Load Aggregation Energy Sales Ancillary Services Sales Other ISO Revenue Transmission Sales Western Credits, Interest & Other Income Load Aggregation Energy Sales 184,117 69,017 115,100 63% 3,790 2,403 1,387 37% 2,403 1,387 37% 64 46 42% 46 42% 46 42% 48 42% 48 42% 48 42% 48 42% 48 42% 48 48 42% 48 48 48 48 48 48 48 48 48 48 48 48 48	TOTAL ANNUAL PURCET COST	,			51%
Plant ISO Energy Sales	TOTAL ANNUAL BUDGET COST	650,328	320,980	329,348	0170
Load Aggregation Energy Sales 184,117 69,017 115,100 63% Ancillary Services Sales 3,790 2,403 1,387 37% Other ISO Revenue - 8,031 (8,031) Transmission Sales 110 64 46 42% Western Credits, Interest & Other Income 14,811 14,234 577 4% 321,770 133,108 188,662 59%					
Ancillary Services Sales 3,790 2,403 1,387 37% Other ISO Revenue - 8,031 (8,031) Transmission Sales 110 64 46 42% Western Credits, Interest & Other Income 14,811 14,234 577 4% 321,770 133,108 188,662 59%			,	-,	
Other ISO Revenue - 8,031 (8,031) Transmission Sales 110 64 46 42% Western Credits, Interest & Other Income 14,811 14,234 577 4% 321,770 133,108 188,662 59%			/ -		
Transmission Sales 110 64 46 42% Western Credits, Interest & Other Income 14,811 14,234 577 4% 321,770 133,108 188,662 59%		3,790	,		3/%
Western Credits, Interest & Other Income 14,811 14,234 577 4% 321,770 133,108 188,662 59%		-	-,		129/
321,770 133,108 188,662 59%			-		
	vvestern Credits, interest & Other income				
NET ANNUAL PURPLE COST TO PARTICIPANTO		321,770	133,108	100,002	J970
INET ANNUAL BUDGET COST TO PARTICIPANTS 328,558 187,872 \$ 140,686 43%	NET ANNUAL BUDGET COST TO PARTICIPANTS	328,558	187,872	\$ 140,686	43%



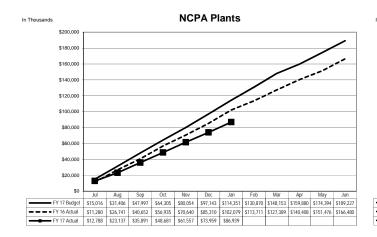


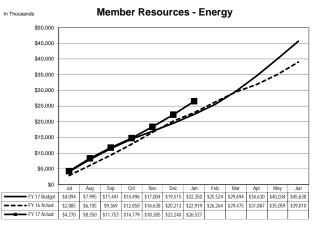
Annual Budget Budget vs. Actual By Major Area 2016-2017 Fiscal Year To Date As of January 31, 2017

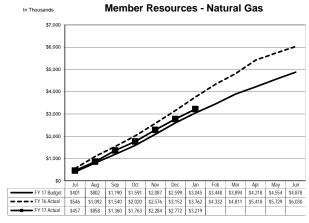


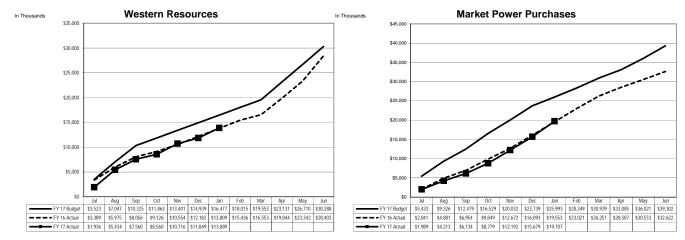
Footnote: Transmission is solely reflective of Independent System Operator (ISO) costs

Annual Budget Cost Generation Resources Analysis By Source 2016-2017 Fiscal Year To Date As of January 31, 2017



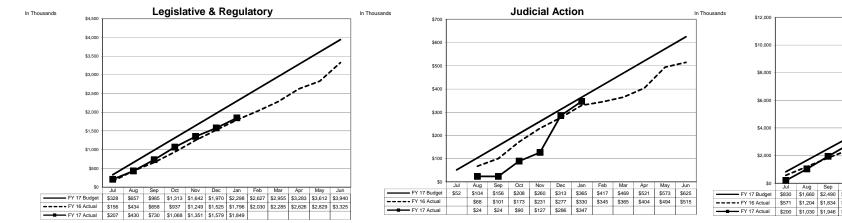


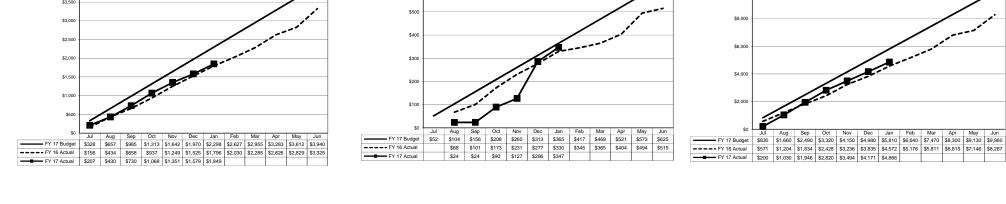


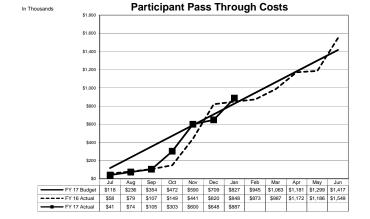


Footnote: Other Resources (Graeagle, BART PV, Gridley PV) are included in Market Power Purchases

Annual Budget Cost Management Services Analysis By Source 2016-2017 Fiscal Year To Date As of January 31, 2017

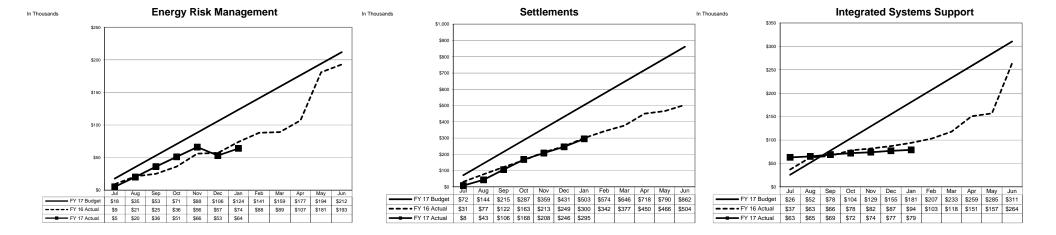




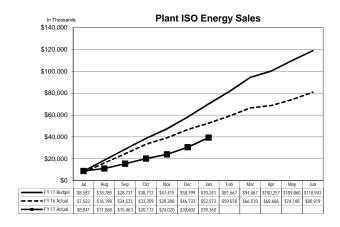


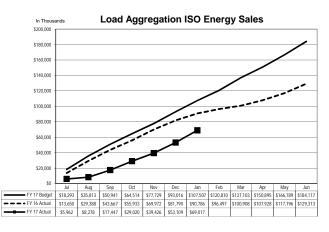
Power Management

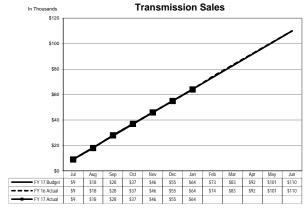
Annual Budget Cost Management Services Analysis By Source 2016-2017 Fiscal Year To Date As of January 31, 2017

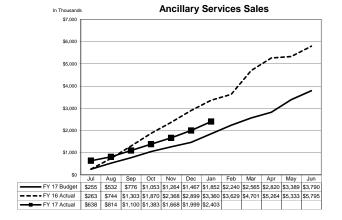


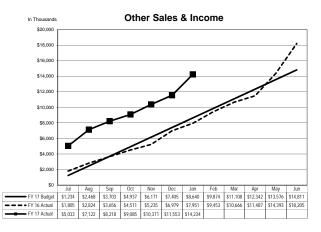
Annual Budget Cost Third Party Revenue Analysis By Source 2016-2017 Fiscal Year To Date As of January 31, 2017











Annual Budget NCPA Generation Detail Analysis By Plant 2016-2017 Fiscal Year To Date As of January 31, 2017

Generation Cost Analysis

\$ in thousands

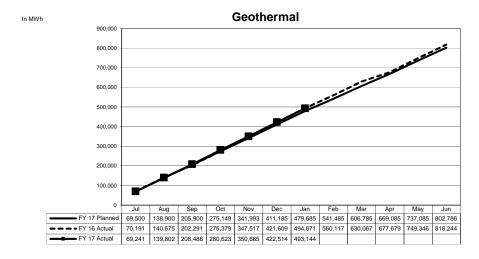
	Geothermal										
					\$/MWh		nder(Ovr)	YTD %			
	Budget		Actual		Actual		Budget	Remaining			
Routine O & M	\$ 17,159	\$	9,050	\$	18.35	\$	8,109	47%			
Capital Assets/Spare Parts Inventories	2,575		582		1.18		1,993	77%			
Other Costs	7,994		3,886		7.88		4,108	51%			
CA ISO Charges	308		365		0.74		(57)	-19%			
Debt Service	5,110		2,880		5.84		2,229	44%			
Annual Budget	33,145		16,763		33.99		16,382	49%			
.ess: Third Party Revenue											
Interest Income	32		115		0.23		(83)	-256%			
ISO Energy Sales	30,113		17,133		34.74		12,980	43%			
Ancillary Services Sales	-		1		0.00		(1)				
Effluent Revenues	700		336		0.68		364	52%			
Misc	110		727		1.47		(616)				
	30,955		18,312		37.13		12,643	41%			
Net Annual Budget Cost to Participants	\$ 2,190	\$	(1,549)	\$	(3.14)	\$	3,739	171%			
							•				
Net GenerationMWh @ Meter	802,786		493,144								
S/MWh (A)	\$ (3.64)	\$	(8.98)	Ì							

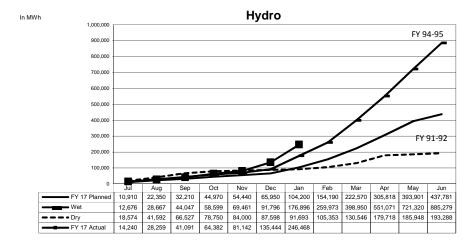
	Hydroelectric										
				Ť	\$/MWh	Under(Ovr)		YTD %			
	Budget		Actual		Actual		Budget	Remaining			
Routine O & M	\$ 8,369	\$	3,950	\$	16.02	\$	4,419	53%			
Capital Assets/Spare Parts Inventories	2,135		1,130		4.59		1,005	47%			
Other Costs	2,861		1,264		5.13		1,597	56%			
CA ISO Charges	237		835		3.39		(598)	-253%			
Debt Service	38,253		22,314		90.54		15,939	42%			
Annual Budget	51,854		29,494		119.66		22,361	43%			
Less: Third Party Revenue											
Interest Income	91		181		0.73		(90)	-99%			
ISO Energy Sales	19,542		10,273		41.68		9,269	47%			
Ancillary Services Sales	2,487		1,724		7.00		763	31%			
Misc	· -		27		0.11		(27)				
	22,120		12,205		49.52		9,915	45%			
Net Annual Budget Cost to Participants	\$ 29,734	\$	17,288	\$	70.14	\$	12,446	42%			
Net GenerationMWh @ Meter	437,781		246,468								
\$/MWh (A)	\$ (19.46)	\$	(20.39)								

Footnotes:

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

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant 2016-2017 Fiscal Year To Date As of January 31, 2017

Generation Cost Analysis

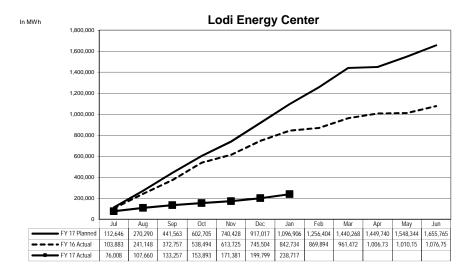
		Loc	di E	nergy Cei	nte	r	
				\$/MWh	Under(Ovr)		YTD %
	Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 14,041	\$ 6,400	\$	26.81	\$	7,641	54%
Fuel	44,101	7,207		30.19		36,894	84%
AB 32 GHG Offset	-	-		-		-	
CA ISO Charges and Energy Purchases	2,374	2,114		8.86		260	11%
Capital Assets/Spare Parts Inventories	2,805	1,100		4.61		1,705	61%
Other Costs	3,233	1,705		7.14		1,528	47%
Debt Service	26,437	15,406		64.54		11,031	42%
Annual Budget	92,991	33,932		142.14		59,059	64%
Less: Third Party Revenue							
Interest Income	44	113		0.47		(68)	-153%
ISO Energy Sales	68,846	11,377		47.66		57,469	83%
Ancillary Services Sales	1,303	411		1.72		891	68%
Transfer Gas Credit	-	-		-		-	0%
Misc	3	4,361		18.27		(4,358)	0%
	70,197	16,262		68.12		53,934	77%
Net Annual Budget Cost to Participants	\$ 22,795	\$ 17,670	\$	74.02	\$	5,125	22%
Net GenerationMWh @ Meter	1,655,765	238,717				•	
\$/MWh (A)	\$ (2.20)	\$ 9.48					

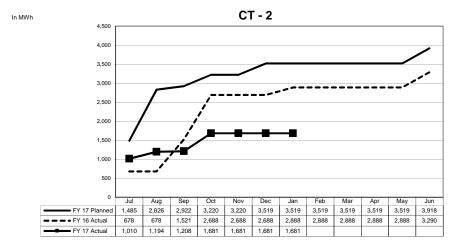
		С	ombustic	on '	Turbine N	ο.	2 (STIG)	
					\$/MWh		Jnder(Ovr)	YTD %
	Budget		Actual		Actual		Budget	Remaining
Routine O & M	\$ 1,413	\$	736	\$	437.66	\$	677	48%
Fuel and Pipeline Transport Charges	936		477		283.63		459	49%
Capital Assets/Spare Parts Inventories	133		25		14.85		108	81%
Other Costs	477		216		128.55		261	55%
CA ISO Charges	2		46		27.13		(43)	-1893%
Debt Service	5,626		3,282		1,952.09		2,344	42%
Annual Budget	8,587		4,781		2,843.92		3,806	44%
Less: Third Party Revenue								
Interest Income	19		32		19.18		(14)	-72%
ISO Energy Sales	282		127		75.28		155	55%
Ancillary Service Sales	-		0		0.01		(0)	0%
Fuel and Pipeline Transport Credits	415		697		414.74		(282)	-68%
Misc	-		-		-		-	0%
	715		856		509.22		(141)	-20%
Net Annual Budget Cost to Participants	\$ 7,872	\$	3,925	\$	2,334.70	\$	3,947	50%
Net GenerationMWh @ Meter	3,918		1,681					
\$/MWh (A)	\$ 573.32	\$	382.61					

Footnotes:

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

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant 2016-2017 Fiscal Year To Date As of January 31, 2017

Generation Cost Analysis

	Combustion Turbine No. 1								
						\$/MWh	U	nder(Ovr)	YTD %
		Budget		Actual		Actual		Budget	Remaining
Routine O & M	\$	1,459	\$	997	\$	204.46	\$	462	32%
Fuel and Pipeline Transport Charges		174		357		73.20		(183)	-105%
Capital Assets/Spare Parts Inventories		525		318		65.31		207	39%
Other Costs		489		215		44.09		274	56%
CA ISO Charges		1		82		16.72		(80)	-7814%
Debt Service		-		-				` -	
Annual Budget		2,648		1,969		403.78		679	26%
Less: Third Party Revenue		0						0	
ISO Energy Sales		160		450		92.28		(290)	0%
Ancillary Services Sales		-		0		0.03		(0)	0%
Misc		_		16		3.21		(16)	0%
		161		466		95.52		(305)	-190%
Net Annual Budget Cost to Participants	\$	2,488	\$	1,503	\$	308.26	\$	985	40%
Net GenerationMWh @ Meter		2,000		4,876					
\$/MWh (A)	\$	1,243.89	\$	308.26					

Footnotes:

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

MWhs Generated

