A PUBLIC AGENCY
NCPA
NORTHERN CALIFORNIA POWER AGENCY

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BUSINESS PROGRESS REPORT

SEPTEMBER 2017

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Generation Costs & Reliability

Combustion Turbine Project

Unit Operation for August

Unit	Availability		Production	Reason for Run
	Unit 1	Unit 2	Unit 1 1,247.0	
	100.00%	100.00%	Unit 2 1,162.5	
Curtailments, Outages, and Comments.			N/A / N/A	
CT1 Lodi	92.35%		1,021.0 MWHr	CAISO
Curtailments, Outages, and Comments.			01-Aug-17 14:00 14:36 Unit failed parallel, field breaker trouble Forced 0.6 02-Aug-17 14:00 14:56 Mechanical overspeed Forced 0.9 02-Aug-17 15:06 23:59 Oil leak Forced 8.9 03-Aug-17 0:00 23:59 Oil leak Forced 24.0 04-Aug-17 0:00 17:21 Oil leak Forced 17.4 30-Aug-17 6:07 9:52 Micronet card failed Forced 3.8 31-Aug-17 18:02 19:21 Unit trip, cause unknown Forced 1.3	
CT2 STIG	74.81%		2,110.8 MWHr	CAISO
Curtailments, Outages, and Comments.			02-Aug-17 13:15 15:00 Power turbine underspeed Forced 1.8 02-Aug-17 17:09 23:59 Broken oil line Forced 6.8 03Aug-09Aug 0:00 23:59 Broken oil line Forced 168.0 10-Aug-17 0:00 10:47 Broken oil line Forced 10.8	
LEC	99.41%		66,184.0 MWHr	CAISO
Curtailments, Outages, and Comments.			04-Aug-17 14:20 16:50 Unit derate, auto unload due to IGV position trouble Forced 0.0 08-Aug-17 14:00 14:15 Unit late start, IGV servo Forced 0.0 14-Aug-17 16:16 20:40 IP feedwater control valve trouble Forced 4.4 30-Aug-17 11:00 11:26 Unit late start, aux boiler Forced 0.0 Notable: PGE Gas Filter Maintenance Bypass.	

Maintenance Summary – Specific per asset above.

Geothermal Facilities

Availability/Production for August

Unit	Availability	Net Electricity Generated/Water Delivered	Out-of-Service/Descriptors
Unit 1	100 %	19,502 MWh	Unit 1 had no outages for the month.
Unit 2	100 %	*17,453 MWh	Unit 2 had no outages for the month.
Unit 3	N/A %	N/A	Unit 3 remains out of service for the month.
Unit 4	100 %	30,878 MWh	Unit 4 had no outages for the month.
Southeast Geysers Effluent Pipeline	98.5 %	214.4 mgallons	Average flow rate: 4,861 gpm
Southeast Solar Plant	N/A	98,073 KWh	Year-to-date KWh: 688,659
Bear Canyon Pump Station Zero Solar	N/A	247,751 KWh	Year-to-date KWh: 1,588,902

* Accounts for an additional 2,081 MWh of house load for the 21KV power supply to the effluent pipeline supplied from Unit #2.

Hydroelectric Project

Availability/Production for August

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	100.00 %	27,024 MWh	CV #1 unit no reportable outages.
Collierville Unit 2	100.00 %	32,877 MWh	CV #2 unit.no reportable outages. Derate to 110mw due to stator ground fault repair.
Spicer Unit 1	100.00 %	1,850 MWh	NSM #1 unit no reportable outages.
Spicer Unit 2	100.00 %	1,856 MWh	NSM #2 unit no reportable outages.
Spicer Unit 3	100.00 %	336 MWh	NSM #3 unit no reportable outages.

Operations & Maintenance Activities:

- Monthly CMMS work orders
- Adit 4 Slide repair
- Beaver Creek Diversion Reservoir debris clean out in (phase2)
- Murphys Micro-wave project
- Project Stream Gaging station solar upgrades
- DSOD annual Dam and Spillway Inspections FERC Project 2409 and 11563
- Global Risk Consultants Loss Prevention Review

Environmental, Health & Safety (EH&S) Projects

Incident Reports

- There was one Geothermal vehicle accident, however, no recordable incidents, and no lost time accidents occurred in August.

- 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 August 19, 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.

August
Generation Services Safety Report

	Hydro	GEO	CT Group *	NCPA HQ **
CalOSHA Recordable (this month)	0	0	0	0
CalOSHA Recordable (calendar year)	0	1	0	0
Days since Recordable	976	223	866	5,934
Work Hours Since Last Recordable	83,534	42,908	127,060	2,138,101
LTA's (this month)	0	0	0	0
LTA's (calendar year)	0	1	0	0
Days without LTA	3,592	207	8,770	4,863
Work Hours without LTA	329,099	40,003	568,424	1,760,121
Vehicle Incident (month)	0	1	0	0
Vehicle Incident (calendar year)	0	1	1	1

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

** NCPA HQ: Roseville employees at the Main Office

Data originates from OSHA logs, HR records and payroll information.
Days and Hours are calculated through pay period ended August 19, 2017.

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

	August 2017		Calendar Year 2017	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	455.39 8/28 @1700	223,330	463.98 6/19 @1600	1,602,658
SVP	563.67 8/2 @1700	334,588	570.18 6/22 @1500	2,469,464
MSSA	1010.21 8/2 @ 1700	557,918	1025.83 6/22 @ 1500	4,072,122

Last Year 2016 Data*

	August 2016		Calendar Year 2016	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	405.2 8/17 @1700	215,006	449.75 7/27 @1700	1,584,996
SVP	488.93 8/9 @ 1600	311,360	534.21 9/26 @ 1700	2,353,715
MSSA	889.64 8/17 @ 1700	526,366	968.73 7/27 @ 1600	3,938,711

*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 7/24/06 @ 1500	463.98 6/19 @ 1600
SVP	570.18 MW on 6/22/17 @ 1500	570.18 6/22 @ 1500
MSSA	1025.83 MW on 6/22/17 @ 1500	1025.83 6/22 @ 1500

- 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		
	August 2017	**Calendar Year 2017**
MSSA % Within the Band	98.79%	97.53%

- Spicer Meadows:
  - No curtailments

- Geothermal Units:
  - No curtailments

- Lodi Energy Center:
  - August 4 @ 1420 - 1650, unit derate due to auto unload caused by IGV position trouble
  - August 8 @ 1400 - 1415, unit late start due to IGV servo trouble
  - August @ 1616 – 2040 unit o/s due to IP feedwater control valve trouble
  - August 30 @ 1100 – 1126, unit late start due to aux boiler trouble

- Alameda CTs:
  - No curtailments

- Lodi CT:
  - August 1 @ 1400 - 1436, unit failed parallel due to field breaker trouble
  - August 2 @ 1400 - 1456, unit failed start due to mechanical overspeed
  - August 2 – August 4, unit o/s due oil leak
  - August 30 @ 0607 - 0952, unit o/s due to failed micronet card
  - August 31 @ 1802 - 1921, unit trip cause unknown

- Collierville Units:
  - August 1 – 31, Unit 2 remains derated due stator ground fault repair.

- STIG:
  - August 2 @ 1315 – 1500, unit trip due to power turbine underspeed indication
  - August 2 – August 10, unit unavailable due to broken oil line

Pooling & Portfolio Planning & Forecasting

- Actual NCPA Pool load of 223.3 GWh in August equaled 103% of the pre-month forecast of 218.5 GWh due to another unusually warm month with associated high demand. Pool load, running 123.9 GWh through September 17, is likely to reach the forecast of 203.5 GWh with continuing above-normal temperatures forecasted.

- The Lodi Energy Center (LEC) generated 11,905 MWh for the pool in August, or 17% above the 10,124 MWh forecast. Once again, sustained high temperatures in August kept implied heat rates well above the norm. For September, LEC generation was forecasted at 10,299 MWh and had reached 53,019 MWh by September 18.

- No rain was recorded at Big Trees gage during the month of August. With the rainy season concluded, total precipitation for the year at 99.4 inches was 179% of the historic October-to-August average.

- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) has been kept at $35/MWh.

- NSMR storage as of August 31 was at 121,088 acre feet. The historical average NSMR storage at the end of August is 118,461 acre feet. As of September 18, NSMR storage is 104,613 acre feet. The NCPA Pool share of NSMR storage is 53,179 acre feet.

- Combined Calaveras Project generation for the Pool in August totaled 32.8 GWh, down from 46.0 GWh in July. The Pool's 32.8 MWh in June was slightly more than the pre-month forecast of 31.7 GWh. Through September 18, Calaveras generation for the Pool is 16.6 GWh, slightly more than the forecast of 14.8 GWh – this is due to the early September heat wave and higher energy prices.

- Western Base Resource (BR) Pool delivery in August 2017 was 79.4 GWh compared to the forecast of 83.3 GWh. Through September 18, BR pool allocations of 35.4 GWh (15.8 GWh Displacement) have a way to go to meet the 67.3-GWh September forecast.

- PG&E City-Gate gas index traded at $3.39/MMBtu for September 19 delivery - compared to an average of $3.276/MMBtu (with a high of $3.395/MMBtu) during the month of August. Despite high temperatures, prices in August remained relatively flat. The PG&E Bidweek price for September gas was $3.34, six cents higher than August, and daily Platt's prices have been averaging in that range, due to above-normal temperatures, particularly at the beginning of the month, and upstream demand.

- Day-ahead HLH (on-peak) NP15 electricity remains low on average with spikes occurring on days with highest load and least wind. The HLH and LLH day-ahead average LMPs for Monday, September 18 delivery were $33.85 and $27.95/MWh, respectively.

NCPA Pool Loads & Resources Value Summary

	Peak and Energy Summary Aug-17				Estimated Production Costs		Cost of Serving Demand	
	Coincident Peak (MW)	Total MWh	Forecast Values	Avg. MW	NCPA Pool			
	Aug-28-17 Hour 17				Cost/Revenue (Estimate)	Variable Cost ($/MWh)	Totals	Avg ($/MWh)
Demand	456.0	223,320	218,526	300.2	N/A	N/A		
							at Market Clearing Price	
WAPA	-	79,371	83,268	106.7	$ 2,334,679	$ 29.41	$ 11,548,917	$ 51.71
Geothermal	-	28,110	28,612	37.8	534,091	19.00		
Hydro	-	32,607	28,663	43.8	195,639	6.00		
Stig & CTs	-	3,296	4,512	4.4	197,626	59.96	at Variable Cost of Pool Generation	
LEC	-	11,905	10,124	16.0	461,081	38.73		
Contracts	352.0	86,862	104,495	116.8	5,345,188	61.54	$ 8,363,125	$ 37.45
Market - Net (Net Sales = Negative)	104.0	(18,830)	(41,148)	(25.3)	(884,937.57)	47.00		
Net Total	456.0	223,320	218,526	300.2	$ 8,183,366	$ 37.45		

Monthly Market Summary

	Pool Energy (MWh)	HLH Avg MCP ($/MWh)	Avg Variable Cost of Pool Generation ($/MWh)	Forward Prices (EOX NP15 HLH Ask Prices)	NP15 8/1/2017 ($/MWh)	9/5/2017 ($/MWh)
Jan-17	205,675	$ 36.58	$ 23.70	Sep-17	$ 39.32	$ 52.25
Feb-17	178,642	$ 30.61	$ 24.41	Oct-17	38.94	38.41
Mar-17	192,408	$ 23.37	$ 25.43	Nov-17	36.75	37.18
Apr-17	179,239	$ 23.39	$ 31.47	Q4 2017	$ 38.20	$ 38.04
May-17	195,573	$ 31.70	$ 26.86	Q1 2018	36.46	36.67
Jun-17	206,429	$ 38.62	$ 34.25	Q2 2018	29.86	31.46
Jul-17	221,169	$ 39.42	$ 36.21	CY2018	$ 35.54	$ 36.61
Aug-17	**223,320**	**$ 51.71**	**$ 37.45**	CY2019	35.54	36.86
Sep-17				CY2020	36.99	38.22
Oct-17				CY2021	38.73	39.80
Nov-17				CY2022	40.74	41.48
Dec-17				CY2023	42.42	42.77

NOTES TO SUMMARY TABLE:

Peak and Energy Summary:

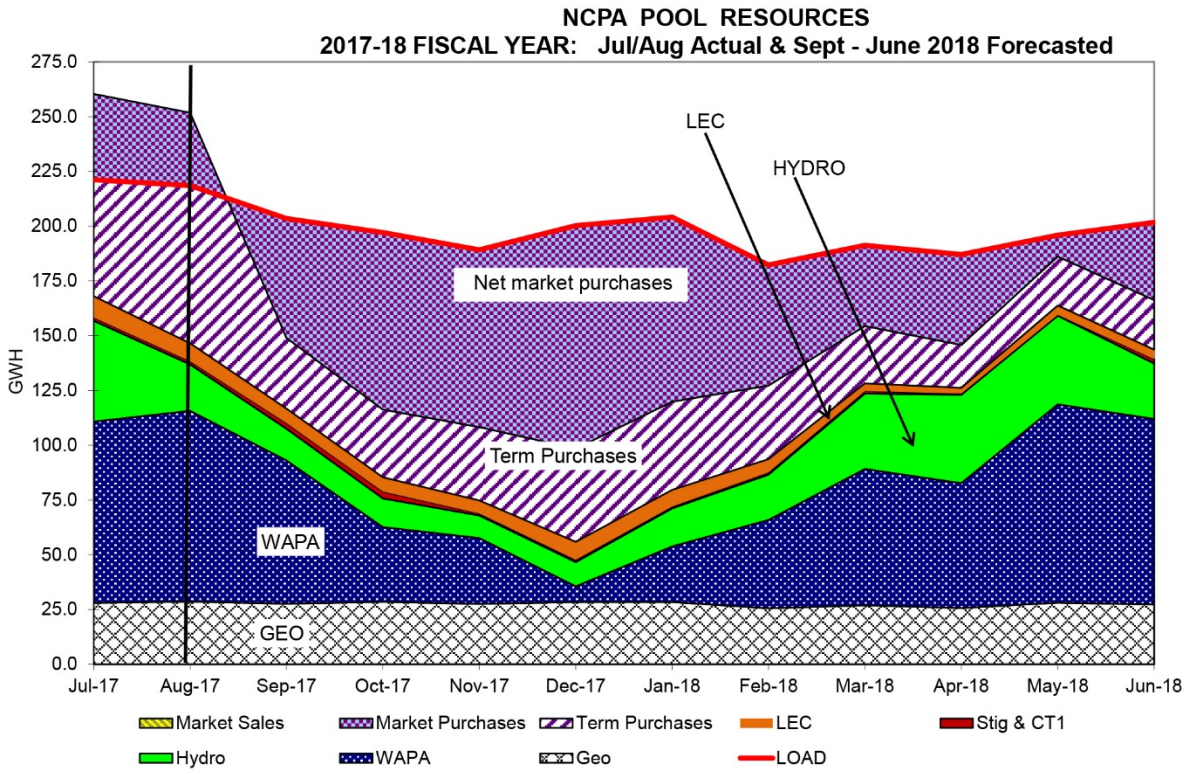
* Monthly generation summary of Coincidental Peak (hour in which pool demand peaked), total MWH for the month, and pre-month forecasted values for report period.
* Generation totals are for POOL SHARE of the projects.
* Hydro totals include Collierville and Spicer generation.

Estimated Production Costs:

* Fixed project costs not included except for WAPA, where total month's project costs are used to calculate the average unit cost.
* STIG and CT costs include forward natural gas and basis hedge transactions.
* STIG & CT costs reflect $2.60 and $1.62/MWH variable O&M costs per 6-12-06 GSCA.

Cost of Serving Demand:

Compares price of meeting total monthly demand with (1) Hourly pool market clearing price; (2) Variable cost of pool gen. 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 November 2017:
  - Monthly System Resource Adequacy Demonstration (filed September 15, 2017)
  - Monthly Supply Plan (filed September 15, 2017)

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:

Commitment Costs and Bidding Enhancements

- Through this initiative the CAISO will evaluate the following two topics: (1) if commitment proxy costs, generated bids, and default energy bids allow scheduling coordinators to accurately reflect and recover their generators' unit-specific costs; and (2) if changes to the economic bidding of commitment costs and associated market power mitigation methodology could increase market benefits when bidding under competitive market dynamics.

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.

Review of TAC Structure

- As described in the CAISO 2017 Stakeholder Initiative Catalog, during calendar year 2017 the CAISO will conduct a stakeholder initiative process to consider possible changes to the structure of the Transmission Access Charge (TAC). The CAISO currently charges the TAC to each MWh of metered internal end-use load (i.e., Gross Load) and exports, to recover participating transmission owners' costs of owning, operating and maintaining transmission facilities under CAISO operational control. Included in the initiative scope will be questions such as: (1) whether the current purely volumetric TAC rate structure should be retained, or should be changed to include other factors such as peak demand; and (2) whether the billing determinant for internal load should be modified to account for the load that is offset by the energy output of Distributed Energy Resources (DER).

Western

Western Base Resource Tracking (NCPA Pool)

	Western Base Resource Tracking - NCPA Pool						
	Actual			Costs & Rates			
	BR Forecast[1] (MWh)	BR Delivered (MWh)	Difference (MWh)	Base Resource & Restoration Fund ($)	Monthly Cost of BR[2] ($/MWh)	CAISO LMP Differential[3] ($/MWh)	12-Mo Rolling Avg. Cost of BR[4] ($/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	-	(56,044)	$1,979,032	$ 35.31	$ 0.10	$ 26.30
Oct-17	33,604	-	(33,604)	$824,588	$ 24.54	$ 0.10	$ 25.43
Nov-17	19,601	-	(19,601)	$824,588	$ 42.07	$ 0.10	$ 24.68
Dec-17	15,404	-	(15,404)	$824,588	$ 53.53	$ 0.10	$ 24.49
Jan-18	7,358	-	(7,358)	$824,588	$ 112.07	$ 0.10	$ 26.22
Feb-18	13,359	-	(13,359)	$824,588	$ 61.72	$ 0.10	$ 28.47
Mar-18	30,216	-	(30,216)	$824,588	$ 27.29	$ 0.10	$ 30.03
Apr-18	50,443	-	(50,443)	$2,007,032	$ 39.79	$ 0.10	$ 30.95
May-18	66,832	-	(66,832)	$2,007,032	$ 30.03	$ 0.10	$ 33.25
Jun-18	74,030	-	(74,030)	$2,007,032	$ 27.11	$ 0.10	$ 33.63
1/	As forecasted in NCPA 17/18 Budget						
2/	= (Western Cost + Restoration Fund)/BR Delivered, for Pool Participants only.						
3/	= (MEEA LMP - PG&E LAP LMP) using public market information (i.e. not settlement quality).						
4/	Based on BR Delivered (Actual) when available and BR Forecast in all other cases. Includes CAISO LMP impact.						

- The Displacement Program continued its strong performance for Pool Members with August savings estimated at 27,219 MWh for $190,000.

Debt and Financial Management

- There is a growing consensus the Fed will shift its focus from raising short-term rates to reducing its purchase of Treasury and mortgage-backed securities (MBS). An announcement could follow the Fed's September 20 meeting, unless the budget and debt ceiling battles in Washington continue matter.

- The yield curve flattened further in August as short-maturity yields, which are closely aligned to the unchanged Federal funds rate, were all but unchanged. The yield on 10-year Treasury notes fell 18 basis points (bps) to 2.12%, a low for the year. The 30-year Treasury fell 17 bps to 2.73%.

- The Finance Committee recommended Commission approval of a new financial advisory services contract with PFM Financial Advisors and PFM Swap Advisors. PFM agreed to maintain the annual retainer cost at the 2006 pricing level for the Agency and the agreements will be for a three-year period including the option of two, two-year renewals. PFM's financial advisory services will be available to NCPA members through the Support Services Program Agreement (SSPA).

- The Finance Committee recommended Commission approval of a three-year banking agreement with U.S. Bank, N.A. The agreement will secure reduced pricing on various transaction-related items and in addition, the bank will increase the Earnings Credit Rate (ECR) the Agency receives on the collected balances which help offset the banking fees. The significance of this increase will allow the Agency to hold fewer dollars as a collected balance and move the remaining balance into an interest bearing account. This change is anticipated to bring an additional $10,000 per month in new interest income to members and non-members balances that are held with the Agency.

Schedule Coordination Goals

Software Development

- Planning and Configuration of the Scheduling Software Suite for 'PCWA' and 'PCCE' SCID portfolios are underway. 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.

- Deployment of the Scheduling Suite for handling Santa Clara's SNCL SCID is scheduled to go live this month of September.

- IS staff continues to work on the new Interval Reading schema to replace the legacy Meter schema. This project will last several months to complete the migration of the existing data and to redirect the applications to use the new model. The target is to finish by the end of 2017.

- Various other Software Development is underway. The NERC-WECC Compliance Matrix is a tool to aid the Compliance Working Group to track standards compliance. The Risk Management App is a tool for the Risk Manager to maintain counterparty credits and ratings and provides Mark-to-Market report to the business users. The Green House Gas 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 Service, and Vendor Contract. It calculates the billable amount for the Member's portion of the Shared Services.

- NCPA Information Services successfully deployed The MRI-S Application Interface used to download and upload CAISO meter data.

Network

- IS has completed migrating all NCPA e-mail mailboxes to Office 365.

- 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.

- Information from the Cyber Security Incident Response exercise that was completed in August has been collected and turned into a toolkit that will help in the planning and preparation for future exercises. A copy of this toolkit will be sent to APPA as part of student intern activities and requirements for the Deed grant.

- Additional 56k circuit upgrades to T1 at Portola, Ukiah and the Disaster Recovery Center are expected to be completed within the next couple of month.

- Work has begun on streamlining the meetings workflow process using SharePoint to assist in preparing documents and presentations for a variety of NCPA committees. IS anticipates testing sometime in November with a first-of-the-year rollout into production.

- Information Services continues to work alongside Generation Services to help expand their physical security presence at the plant locations. This includes diagramming, installing and configuring network switches in preparation for security devices.

- PCWA network and point testing continues to move forward as we prepare for a January 1st cutover date.

- NCPA is researching the capability to use digital signatures for internal document approvals. This will help streamline the current process and cut back on the amount of time it takes to approve document requests.

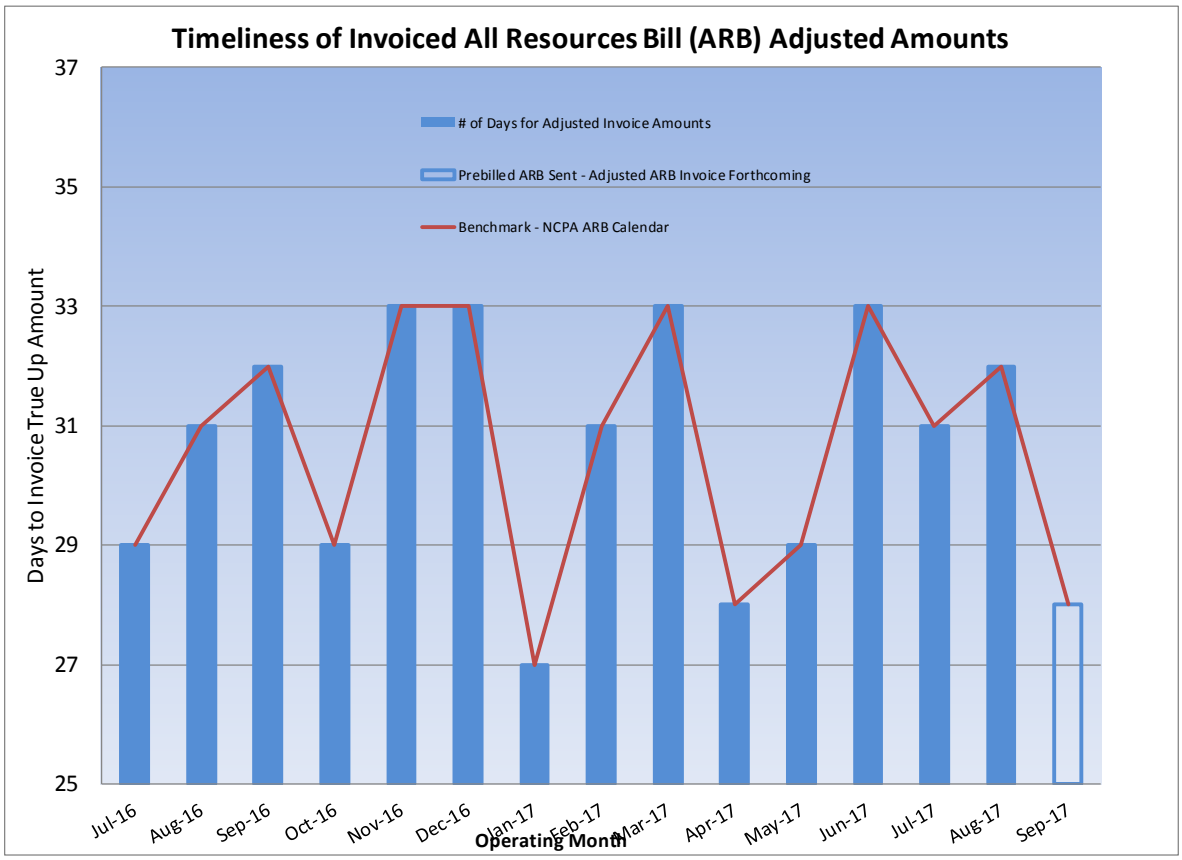
NCPA Bills & Settlements

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 September 2017 NCPA All Resources Bill (ARB) monthly invoice sent to members on August 25, 2017 contains:

- ✓ September 2017 monthly pre-billed budget/forecast amounts;
- ✓ July 2017 (1st Adjustment) NCPA Project and CAISO Initial settlement true-ups;
- ✓ June 2017 (2nd Adjustment) NCPA Project settlement true-up and T+12 business day recalculated CAISO settlement true-up allocations;
- ✓ April 2017 (3rd Adjustment) T+55 business day recalculated CAISO settlement true-up allocations and NCPA Projects true-up;
- ✓ October 2016 (4th Adjustment) T+9 month recalculated CAISO settlement true-up allocations;
- ✓ December 2015 (5th Adjustment) T+18 month recalculated CAISO settlement true-up allocations;
- ✓ July 2014 (6th Adjustment) T+35 month CAISO settlement true-up



Legislative & Regulatory

Political Arena State/Federal/Western Programs

- NCPA was actively involved in lobbying major energy and utility bills during the final weeks of the state legislative session, which ended on September 15th. NCPA worked with a broad range of stakeholders to successfully defeat two grid regionalization bills. NCPA's opposition strategy included a letter writing campaign, meetings with legislative and committee offices, direct communication between NCPA members and legislators, and interviews with the press. NCPA also worked with its member utilities to lobby for amendments to SB 100, which proposes a 100% clean energy goal by 2045. SB 100 was ultimately held this session and is now a two year bill.

- NCPA staff sought to secure funding for electric vehicle (EV) charging infrastructure at the Electrify America kick-off meeting on Tuesday, September 12. Electrify America is a subsidiary of Volkswagen and will invest $800 million in California over the next 10 years in EV infrastructure projects. The $800 million will be invested in four 30-month cycles, with the first cycle running through June 2019. The kickoff meeting was invitation-only and focused on Electrify America's planned investments in the San Francisco-Oakland-Hayward area, which includes Alameda, BART, and Port of Oakland. The current plan specifically identifies a charging station in Alameda and could include sites at that Port and BART. Similar meetings for the planned investments in San Jose-Santa Clara and Sacramento-Roseville areas will be held in early-mid October.

- NCPA is leading an effort to assist the North American Electric Reliability Corporation (NERC) as NERC addresses industry concerns regarding inconsistent application of its compliance, monitoring, enforcement, and registration programs. Due to its active engagement as a member of NERC's Compliance and Certification Committee (CCC), NCPA was unanimously selected to chair the CCC's ERO Enterprise Alignment Working Group—a subgroup of CCC members working directly with senior NERC executives to shape projects that will promote consistent auditing practices and reduce overall compliance costs for NCPA members subject to NERC reliability standards. In this regard, the CCC will serve as: 1) an initial point of contact for stakeholders with concerns about the NERC program, and 2) a resource for outreach and implementation as the program is refined.

- NCPA submitted comments to the Bureau of Reclamation (Bureau) regarding its final Central Valley Project (CVP) Cost Allocation Study (CAS). NCPA challenged the Bureau's arbitrary timeline to wrap up the CAS by year's end as it disallows sufficient time for power customers to review almost seven years of data inputs, modeling, and other materials that will be contained in the administrative draft report. As well, this schedule does not provide any time for the Bureau to review or seriously consider stakeholder comments. Also, NCPA pointed out that the Bureau's initial power assumptions were erroneous and, thereby, artificially inflate the value of CVP power.

Human Resources

Hires:
None.

Intern Hires:
None.

Promotions/Position Changes:
None.

Separations:
Scott Crosby, System Dispatcher, retired from his position at the Roseville Headquarters after 17 years of service.

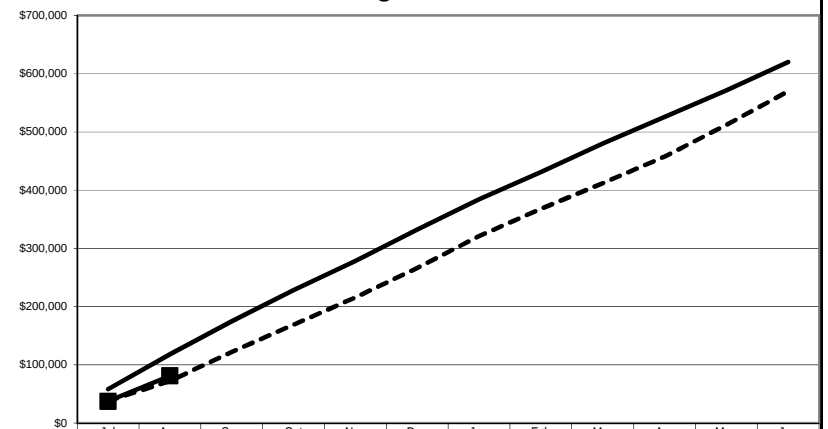
Annual Budget
2017-2018 Fiscal Year To Date
As of August 31, 2017

In Thousands

	Program			
	Annual Budget	Actual	Under(Ovr) Budget	YTD % Remaining
GENERATION RESOURCES				
NCPA Plants				
Hydroelectric	53,862	8,731	$ 45,131	84%
Geothermal Plant	32,120	4,786	27,334	85%
Combustion Turbine No. 1	2,849	684	2,165	76%
Combustion Turbine No. 2 (STIG)	8,623	1,546	7,076	82%
Lodi Energy Center	61,088	10,786	50,302	82%
	158,542	26,533	132,009	83%
Member Resources - Energy	53,389	10,778	42,611	80%
Member Resources - Natural Gas	3,457	606	2,851	82%
Western Resource	30,120	4,662	25,458	85%
Market Power Purchases	19,318	3,527	15,791	82%
Load Aggregation Costs - ISO	233,822	15,205	218,618	93%
Net GHG Obligations	446	175	271	61%
	499,094	61,486	437,608	88%
TRANSMISSION				
Independent System Operator	102,925	17,413	85,511	83%
MANAGEMENT SERVICES				
Legislative & Regulatory				
Legislative Representation	1,976	289	1,687	85%
Regulatory Representation	838	94	743	89%
Western Representation	830	64	766	92%
Member Services	436	51	385	88%
	4,079	499	3,581	88%
Judicial Action	625	30	595	95%
Power Management				
System Control & Load Dispatch	5,864	837	5,027	86%
Forecasting & Prescheduling	2,647	351	2,296	87%
Industry Restructuring	424	46	378	89%
Contract Admin, Interconnection Svcs & Ext. Affairs	1,152	133	1,018	88%
Green Power Project	18	0	17	98%
Gas Purchase Program	88	9	79	90%
Market Purchase Project	130	13	117	90%
	10,323	1,389	8,934	87%
Energy Risk Management	207	21	186	90%
Settlements	774	87	687	89%
Integrated System Support	319	40	279	88%
Participant Pass Through Costs	1,526	127	1,399	92%
Support Services	-	29	(29)	
	17,854	2,223	15,631	88%
TOTAL ANNUAL BUDGET COST	619,872	81,122	538,751	87%
LESS: THIRD PARTY REVENUE				
Plant ISO Energy Sales	70,367	20,876	49,491	70%
Load Aggregation Energy Sales	151,019	3,944	147,075	97%
Ancillary Services Sales	2,731	392	2,339	86%
Western Resource Energy Sales	18,026	-		
Other ISO Revenue	-	-	-	
Transmission Sales	110	18	92	83%
Western Credits, Interest & Other Income	15,713	2,411	13,301	85%
	257,967	27,643	212,298	82%
NET ANNUAL BUDGET COST TO PARTICIPANTS	361,906	53,479	$ 326,453	90%

In Thousands

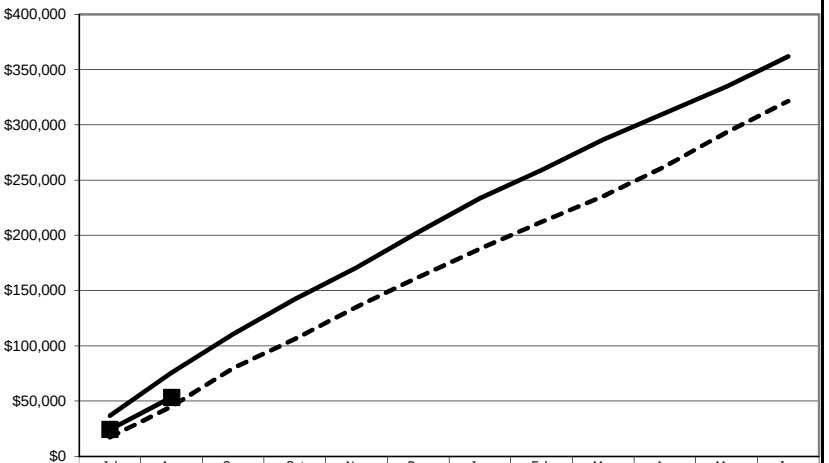
Annual Budget Cost



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$58,277	$118,539	$175,119	$228,366	$278,429	$331,920	$384,260	$431,233	$480,226	$525,645	$571,066	$619,873
FY 17 Actual	$37,756	$72,383	$122,236	$169,202	$215,736	$266,080	$320,980	$367,627	$411,807	$457,185	$511,567	$569,788
FY 18 Actual	$37,591	$81,122										

In Thousands

Net Annual Budget Cost to Participants

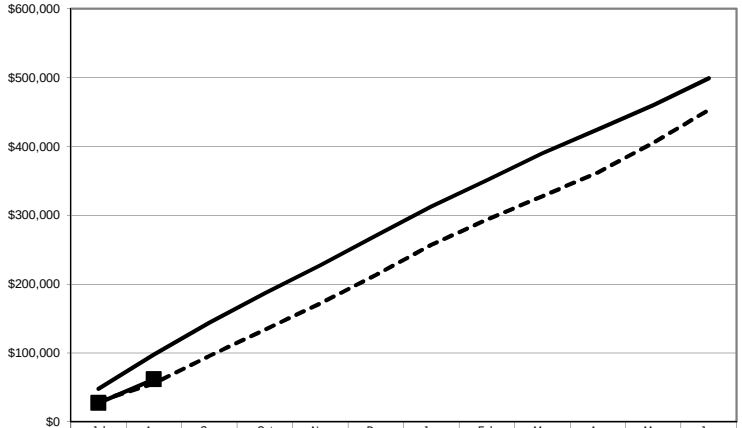


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$36,780	$75,545	$110,627	$142,377	$170,942	$202,936	$233,779	$259,255	$286,750	$310,673	$334,597	$361,906
FY 17 Actual	$17,273	$45,083	$79,980	$106,267	$135,306	$162,120	$187,872	$212,107	$235,340	$262,372	$293,309	$321,502
FY 18 Actual	$24,306	$53,479										

Annual Budget
Budget vs. Actual By Major Area
2017-2018 Fiscal Year To Date
As of August 31, 2017

In Thousands

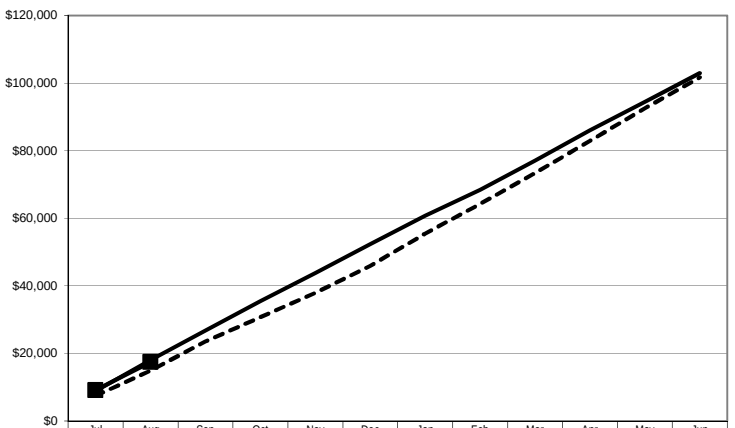
Generation Resources



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$47,926	$97,565	$143,922	$186,953	$227,154	$270,659	$313,054	$350,865	$389,770	$424,736	$460,247	$499,094
FY 17 Actual	$29,756	$55,812	$95,687	$133,929	$171,830	$213,133	$257,030	$293,598	$327,588	$362,137	$405,437	$453,193
FY 18 Actual	$27,457	$61,486										

In Thousands

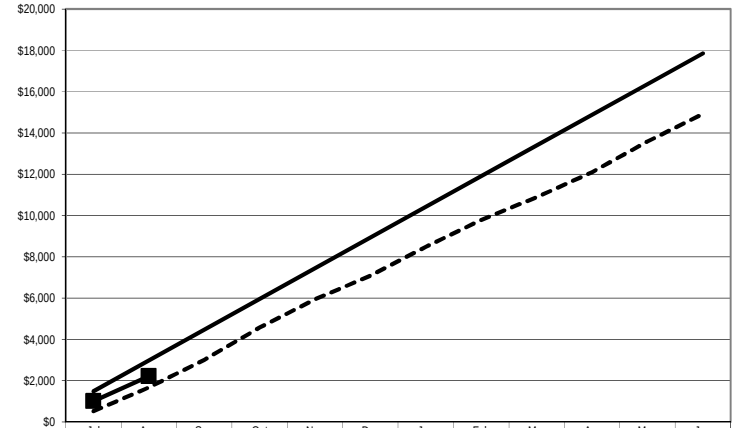
Transmission-ISO



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$8,863	$17,999	$26,733	$35,462	$43,835	$52,333	$60,791	$68,465	$77,065	$86,031	$94,453	$102,925
FY 17 Actual	$7,476	$14,883	$23,532	$30,689	$37,966	$45,861	$55,469	$64,245	$73,335	$82,951	$92,549	$101,676
FY 18 Actual	$9,126	$17,413										

In Thousands

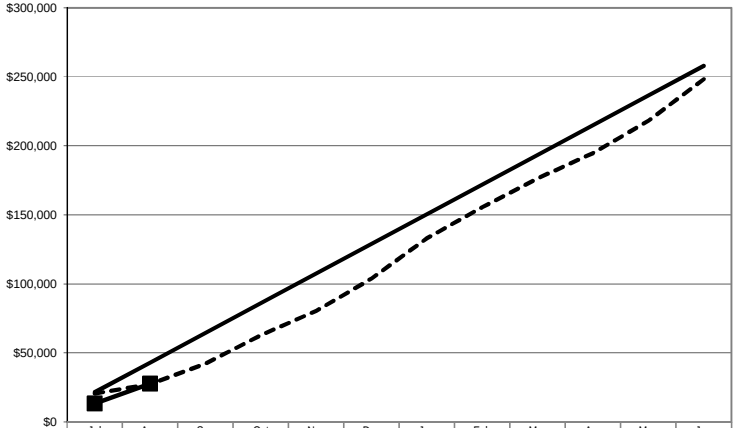
Management Services



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$1,488	$2,976	$4,464	$5,951	$7,439	$8,927	$10,415	$11,903	$13,391	$14,878	$16,366	$17,854
FY 17 Actual	$523	$1,688	$3,017	$4,584	$5,940	$7,086	$8,481	$9,784	$10,883	$12,097	$13,581	$14,919
FY 18 Actual	$1,008	$2,223										

In Thousands

Third Party Revenue



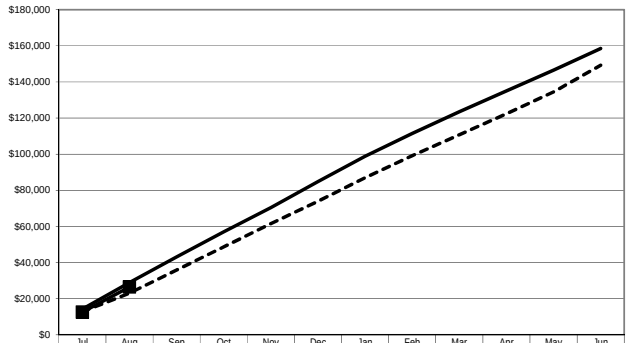
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$21,497	$42,995	$64,492	$85,989	$107,486	$128,984	$150,481	$171,978	$193,475	$214,973	$236,470	$257,967
FY 17 Actual	$20,482	$27,301	$42,255	$62,934	$80,430	$103,960	$133,108	$155,520	$176,466	$194,813	$218,258	$248,287
FY 18 Actual	$13,285	$27,643										

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

Annual Budget Cost
Generation Resources Analysis By Source
2017-2018 Fiscal Year To Date
As of August 31, 2017

In Thousands

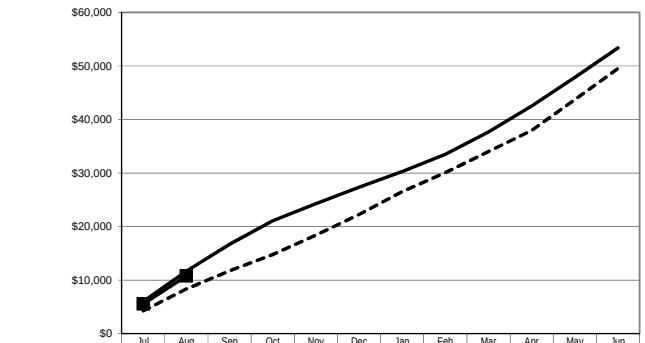
NCPA Plants



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$14,289	$28,939	$43,166	$57,083	$70,394	$84,839	$98,797	$111,539	$123,562	$135,030	$146,553	$158,542
FY 17 Actual	$12,788	$23,137	$35,891	$48,681	$61,557	$73,959	$86,939	$99,173	$110,767	$122,396	$134,488	$149,250
FY 18 Actual	$12,598	$26,533										

In Thousands

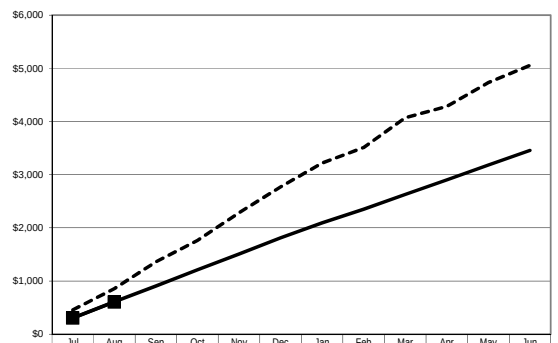
Member Resources - Energy



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$6,029	$11,690	$16,685	$21,102	$24,279	$27,366	$30,276	$33,511	$37,667	$42,523	$47,858	$53,389
FY 17 Actual	$4,270	$8,350	$11,753	$14,779	$18,385	$22,240	$26,527	$30,078	$34,010	$37,966	$43,689	$49,518
FY 18 Actual	$5,551	$10,778										

In Thousands

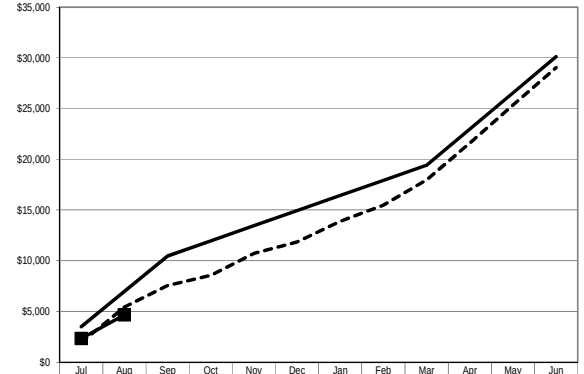
Member Resources - Natural Gas



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$305	$611	$906	$1,212	$1,508	$1,813	$2,095	$2,349	$2,631	$2,903	$3,185	$3,457
FY 17 Actual	$457	$858	$1,360	$1,763	$2,284	$2,772	$3,219	$3,511	$4,071	$4,284	$4,732	$5,056
FY 18 Actual	$303	$606										

In Thousands

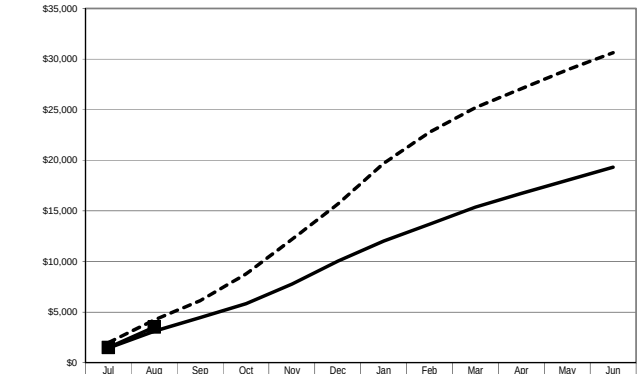
Western Resources



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$3,493	$6,980	$10,468	$11,967	$13,460	$14,951	$16,440	$17,931	$19,428	$22,987	$26,552	$30,120
FY 17 Actual	$1,936	$5,434	$7,560	$8,560	$10,716	$11,849	$13,889	$15,474	$17,967	$21,604	$25,351	$29,042
FY 18 Actual	$2,330	$4,662										

In Thousands

Market Power Purchases



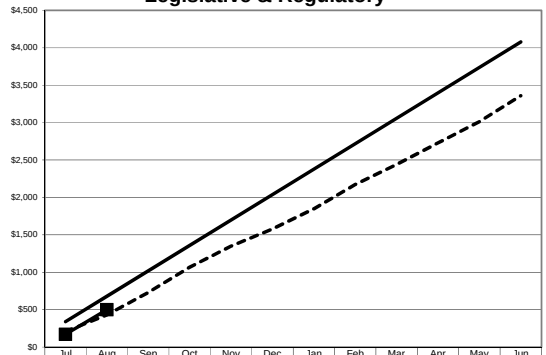
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$1,447	$3,111	$4,458	$5,832	$7,775	$10,035	$12,026	$13,686	$15,381	$16,717	$18,015	$19,318
FY 17 Actual	$1,989	$4,213	$6,134	$8,779	$12,192	$15,679	$19,707	$22,773	$25,206	$27,074	$28,932	$30,633
FY 18 Actual	$1,497	$3,527										

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

Annual Budget Cost
Management Services Analysis By Source
2017-2018 Fiscal Year To Date
As of August 31, 2017

In Thousands

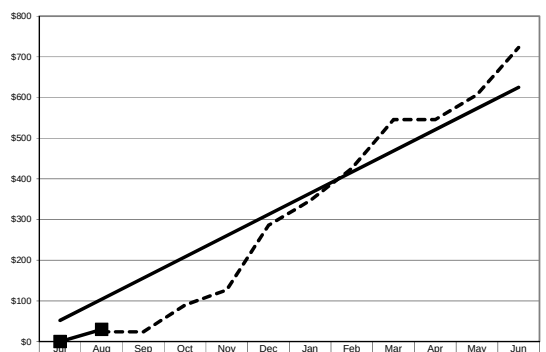
Legislative & Regulatory



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$340	$680	$1,020	$1,360	$1,700	$2,040	$2,379	$2,719	$3,059	$3,399	$3,739	$4,079
FY 17 Actual	$207	$430	$730	$1,068	$1,351	$1,579	$1,849	$2,174	$2,441	$2,730	$3,014	$3,360
FY 18 Actual	$171	$499										

In Thousands

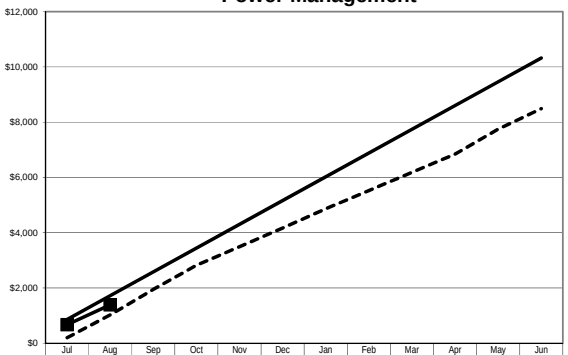
Judicial Action



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$52	$104	$156	$208	$260	$313	$365	$417	$469	$521	$573	$625
FY 17 Actual		$24	$24	$90	$127	$286	$347	$426	$546	$546	$607	$723
FY 18 Actual	$-	$30										

In Thousands

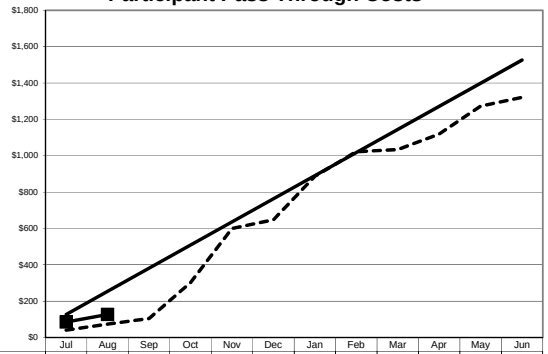
Power Management



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$860	$1,721	$2,581	$3,441	$4,301	$5,162	$6,022	$6,882	$7,742	$8,603	$9,463	$10,323
FY 17 Actual	$200	$1,030	$1,946	$2,820	$3,494	$4,171	$4,866	$5,525	$6,188	$6,846	$7,751	$8,489
FY 18 Actual	$670	$1,389										

In Thousands

Participant Pass Through Costs

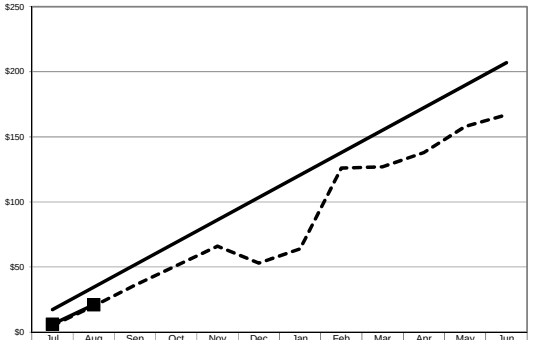


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$127	$254	$382	$509	$636	$763	$890	$1,017	$1,145	$1,272	$1,399	$1,526
FY 17 Actual	$41	$74	$105	$303	$600	$648	$887	$1,022	$1,034	$1,119	$1,273	$1,321
FY 18 Actual	$86	$127										

Annual Budget Cost
Management Services Analysis By Source
2017-2018 Fiscal Year To Date
As of August 31, 2017

In Thousands

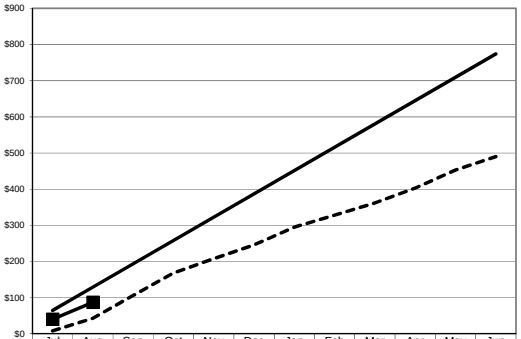
Energy Risk Management



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$17	$35	$52	$69	$86	$104	$121	$138	$155	$173	$190	$207
FY 17 Actual	$5	$20	$36	$51	$66	$53	$64	$126	$127	$138	$158	$167
FY 18 Actual	$6	$21										

In Thousands

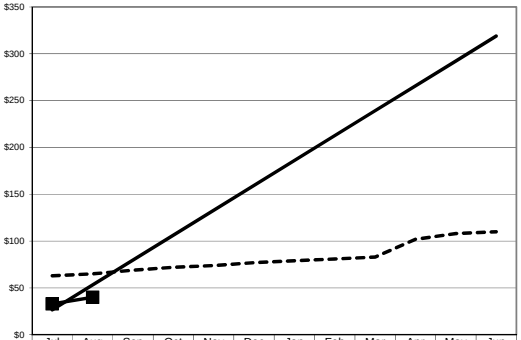
Settlements



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$65	$129	$194	$258	$323	$387	$452	$516	$581	$645	$710	$774
FY 17 Actual	$8	$43	$106	$168	$208	$246	$295	$328	$362	$403	$453	$490
FY 18 Actual	$40	$87										

In Thousands

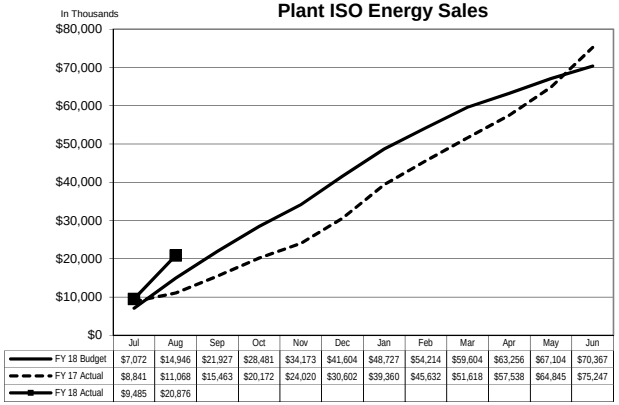
Integrated Systems Support



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$27	$53	$80	$106	$133	$160	$186	$213	$239	$266	$292	$319
FY 17 Actual	$63	$65	$69	$72	$74	$77	$79	$81	$83	$102	$108	$110
FY 18 Actual	$33	$40										

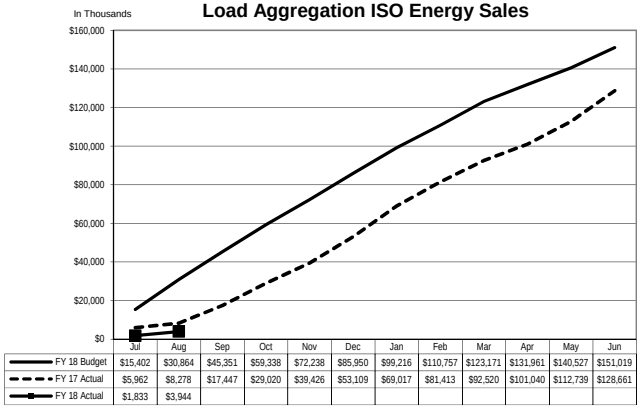
Annual Budget Cost
Third Party Revenue Analysis By Source
2017-2018 Fiscal Year To Date
As of August 31, 2017

Plant ISO Energy Sales



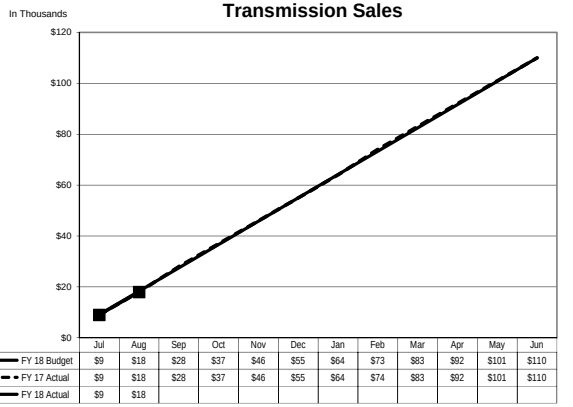
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$7,072	$14,946	$21,927	$28,481	$34,173	$41,604	$48,727	$54,214	$59,604	$63,256	$67,104	$70,367
FY 17 Actual	$8,841	$11,068	$15,463	$20,172	$24,020	$30,602	$39,360	$45,632	$51,618	$57,538	$64,845	$75,247
FY 18 Actual	$9,485	$20,876										

Load Aggregation ISO Energy Sales



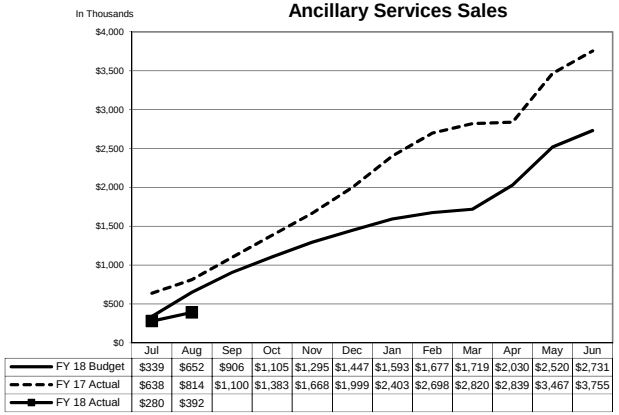
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$15,402	$30,864	$45,351	$59,338	$72,238	$85,950	$99,216	$110,757	$123,171	$131,961	$140,527	$151,019
FY 17 Actual	$5,962	$8,278	$17,447	$29,020	$39,426	$53,109	$69,017	$81,413	$92,520	$101,040	$112,739	$128,661
FY 18 Actual	$1,833	$3,944										

Transmission Sales



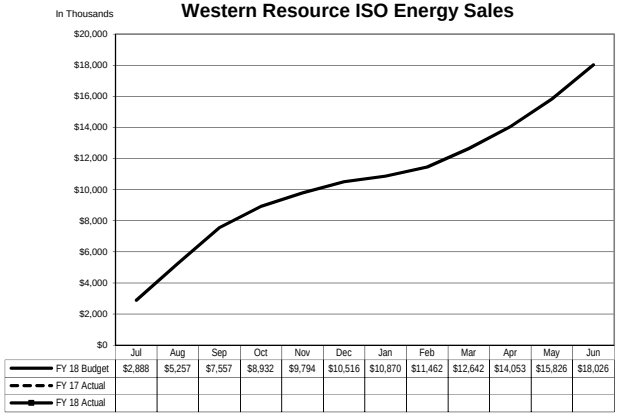
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$9	$18	$28	$37	$46	$55	$64	$73	$83	$92	$101	$110
FY 17 Actual	$9	$18	$28	$37	$46	$55	$64	$74	$83	$92	$101	$110
FY 18 Actual	$9	$18										

Ancillary Services Sales



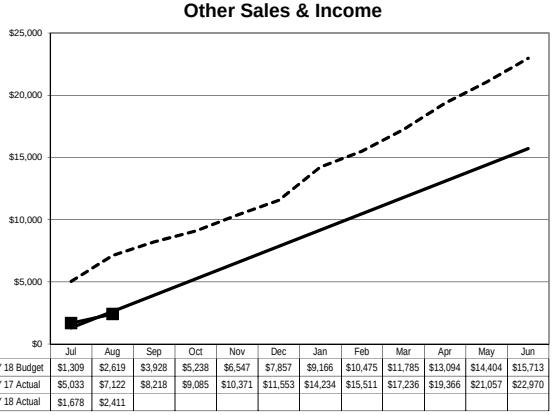
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$339	$652	$906	$1,105	$1,295	$1,447	$1,593	$1,677	$1,719	$2,030	$2,520	$2,731
FY 17 Actual	$638	$814	$1,100	$1,383	$1,668	$1,999	$2,403	$2,698	$2,820	$2,839	$3,467	$3,755
FY 18 Actual	$280	$392										

Western Resource ISO Energy Sales



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$2,888	$5,257	$7,557	$8,932	$9,794	$10,516	$10,870	$11,462	$12,642	$14,053	$15,826	$18,026
FY 17 Actual												
FY 18 Actual												

Other Sales & Income



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Budget	$1,309	$2,619	$3,928	$5,238	$6,547	$7,857	$9,166	$10,475	$11,785	$13,094	$14,404	$15,713
FY 17 Actual	$5,033	$7,122	$8,218	$9,085	$10,371	$11,553	$14,234	$15,511	$17,236	$19,366	$21,057	$22,970
FY 18 Actual	$1,678	$2,411										

Annual Budget
NCPA Generation Detail Analysis By Plant
2017-2018 Fiscal Year To Date
As of August 31, 2017

Generation Cost Analysis

$ in thousands

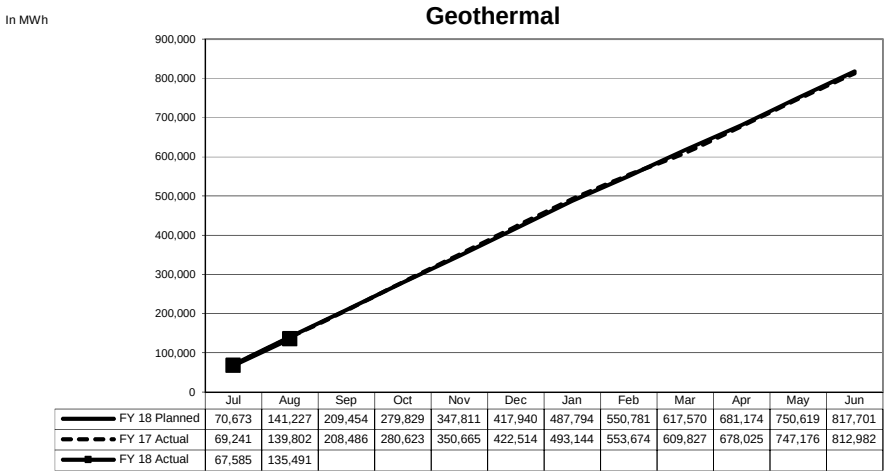
	Geothermal				
	Budget	Actual	$/MWh Actual	Under(Ovr) Budget	YTD % Remaining
Routine O & M	$ 17,564	$ 2,463	$ 18.18	$ 15,102	86%
Capital Assets/Spare Parts Inventories	1,440	212	1.56	1,228	85%
Other Costs	7,863	1,215	8.96	6,648	85%
CA ISO Charges	317	73	0.54	244	77%
Debt Service	4,936	823	6.07	4,113	83%
Annual Budget	32,120	4,786	35.32	27,334	85%
Less: Third Party Revenue					
Interest Income	148	15	0.11	132	90%
ISO Energy Sales	28,349	5,559	41.03	22,790	80%
Ancillary Services Sales	-	(4)	(0.03)	4	
Effluent Revenues	700	-	-	700	100%
Misc	110	19	0.14	92	
	29,307	5,589	41.25	23,718	81%
Net Annual Budget Cost to Participants	$ 2,813	$ (803)	$ (5.93)	$ 3,616	129%
Net Generation--MWh @ Meter	817,701	135,491			
$/MWh (A)	$ (2.60)	$ (12.00)			

	Hydroelectric				
	Budget	Actual	$/MWh Actual	Under(Ovr) Budget	YTD % Remaining
Routine O & M	$ 8,465	$ 779	$ 5.08	$ 7,686	91%
Capital Assets/Spare Parts Inventories	2,365	463	3.02	1,902	80%
Other Costs	3,093	410	2.67	2,683	87%
CA ISO Charges	1,680	703	4.58	978	58%
Debt Service	38,258	6,376	41.58	31,882	83%
Annual Budget	53,862	8,731	56.93	45,131	84%
Less: Third Party Revenue					
Interest Income	244	24	0.16	220	90%
ISO Energy Sales	22,050	8,439	55.03	13,611	62%
Ancillary Services Sales	2,222	300	1.96	1,922	86%
Misc	-	1	0.01	(1)	
	24,516	8,765	57.15	15,751	64%
Net Annual Budget Cost to Participants	$ 29,346	$ (34)	$ (0.22)	$ 29,380	100%
Net Generation--MWh @ Meter	522,654	153,366			
$/MWh (A)	$ (17.05)	$ (41.80)			

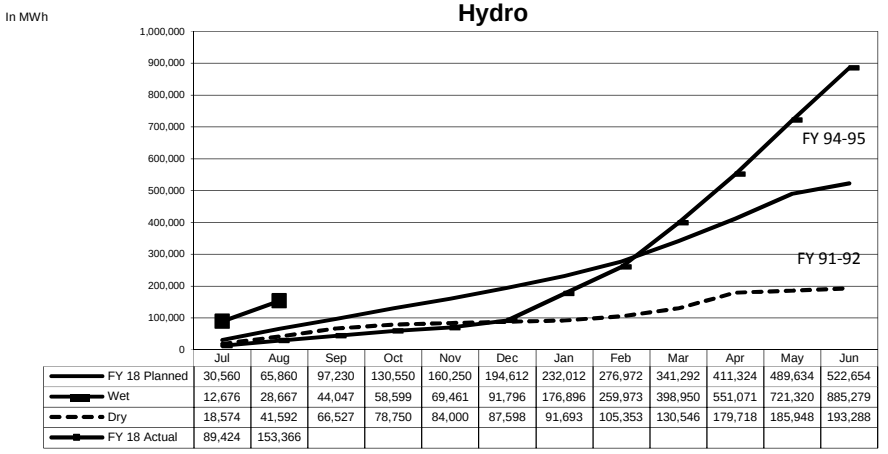
Footnotes:

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

MWhs Generated



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Planned	70,673	141,227	209,454	279,829	347,811	417,940	487,794	550,781	617,570	681,174	750,619	817,701
FY 17 Actual	69,241	139,802	208,486	280,623	350,665	422,514	493,144	553,674	609,827	678,025	747,176	812,982
FY 18 Actual	67,585	135,491										



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Planned	30,560	65,860	97,230	130,550	160,250	194,612	232,012	276,972	341,292	411,324	489,634	522,654
Wet	12,676	28,667	44,047	58,599	69,461	91,796	176,896	259,973	398,950	551,071	721,320	885,279
Dry	18,574	41,592	66,527	78,750	84,000	87,598	91,693	105,353	130,546	179,718	185,948	193,288
FY 18 Actual	89,424	153,366										

Annual Budget
NCPA Generation Detail Analysis By Plant
2017-2018 Fiscal Year To Date
As of August 31, 2017

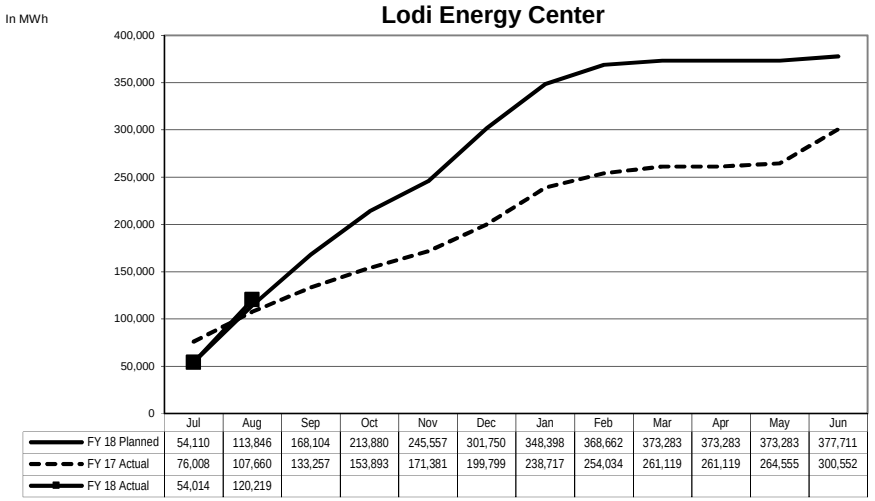
Generation Cost Analysis

	Lodi Energy Center				
	Budget	Actual	$/MWh Actual	Under(Ovr) Budget	YTD % Remaining
Routine O & M	$ 10,174	$ 1,388	$ 11.54	$ 8,786	86%
Fuel	14,877	3,591	29.87	11,286	76%
AB 32 GHG Offset	-	-	-	-	
CA ISO Charges and Energy Purchases	3,921	740	6.15	3,181	81%
Capital Assets/Spare Parts Inventories	2,636	335	2.79	2,301	87%
Other Costs	3,063	329	2.74	2,734	89%
Debt Service	26,417	4,403	36.62	22,014	83%
Annual Budget	61,088	10,786	89.72	50,302	82%
Less: Third Party Revenue					
Interest Income	172	35	0.29	137	79%
ISO Energy Sales	19,760	5,552	46.18	14,209	72%
Ancillary Services Sales	397	96	0.80	300	76%
Transfer Gas Credit	-	-	-	-	0%
Misc	-	0	0.00	(0)	0%
	20,329	5,684	47.28	14,645	72%
Net Annual Budget Cost to Participants	$ 40,759	$ 5,103	$ 42.44	$ 35,657	87%
Net Generation--MWh @ Meter	377,711	120,219			
$/MWh (A)	$ 37.97	$ 5.82			

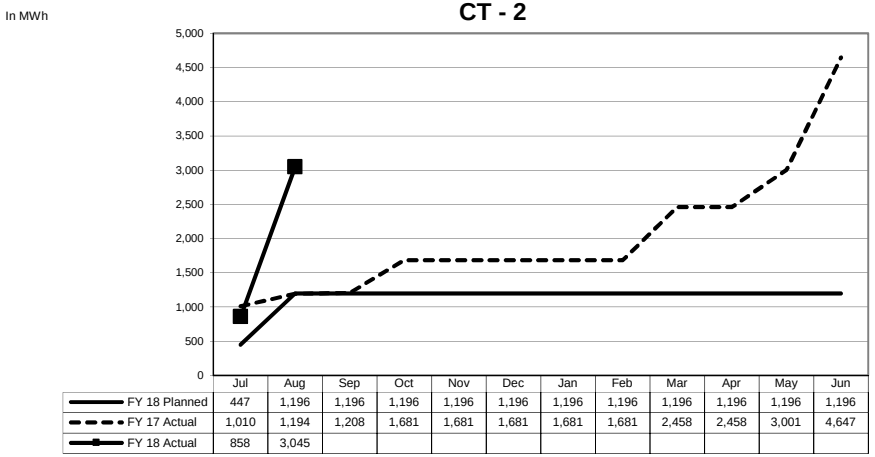
	Combustion Turbine No. 2 (STIG)				
	Budget	Actual	$/MWh Actual	Under(Ovr) Budget	YTD % Remaining
Routine O & M	$ 1,471	$ 249	$ 81.77	$ 1,222	83%
Fuel and Pipeline Transport Charges	835	153	50.21	682	82%
Capital Assets/Spare Parts Inventories	121	-	-	121	100%
Other Costs	502	69	22.81	433	86%
CA ISO Charges	0	126	41.38	(126)	-27118%
Debt Service	5,693	949	311.57	4,744	83%
Annual Budget	8,623	1,546	507.75	7,076	82%
Less: Third Party Revenue					
Interest Income	43	10	3.19	33	77%
ISO Energy Sales	89	529	173.72	(440)	-496%
Ancillary Service Sales	-	-	-	-	0%
Fuel and Pipeline Transport Credits	864	191	62.80	673	78%
Misc	-	-	-	-	0%
	996	730	239.72	266	27%
Net Annual Budget Cost to Participants	$ 7,627	$ 816	$ 268.03	$ 6,810	89%
Net Generation--MWh @ Meter	1,196	3,045			
$/MWh (A)	$ 1,616.78	$ (43.54)			

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

MWhs Generated



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Planned	54,110	113,846	168,104	213,880	245,557	301,750	348,398	368,662	373,283	373,283	373,283	377,711
FY 17 Actual	76,008	107,660	133,257	153,893	171,381	199,799	238,717	254,034	261,119	261,119	264,555	300,552
FY 18 Actual	54,014	120,219										



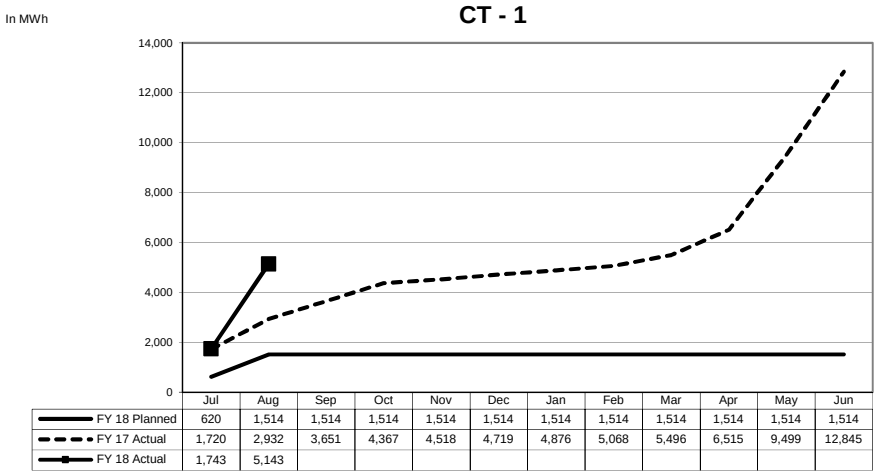
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Planned	447	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196
FY 17 Actual	1,010	1,194	1,208	1,681	1,681	1,681	1,681	1,681	2,458	2,458	3,001	4,647
FY 18 Actual	858	3,045										

Annual Budget
NCPA Generation Detail Analysis By Plant
2017-2018 Fiscal Year To Date
As of August 31, 2017

Generation Cost Analysis

	Combustion Turbine No. 1				
	Budget	Actual	$/MWh Actual	Under(Ovr) Budget	YTD % Remaining
Routine O & M	$ 1,520	$ 320	$ 62.16	$ 1,200	79%
Fuel and Pipeline Transport Charges	172	-	-	172	100%
Capital Assets/Spare Parts Inventories	642	67	12.96	575	90%
Other Costs	292	204	39.74	88	30%
CA ISO Charges	1	93	18.05	(92)	-15719%
Debt Service	-	-		-	
Annual Budget	2,627	684	132.91	1,943	74%
Less: Third Party Revenue					
Interest Income	-	-		-	
ISO Energy Sales	119	797	155.00	(678)	0%
Ancillary Services Sales	-	-	-	-	0%
Misc	-	-	-	-	0%
	119	797	155.00	(678)	-570%
Net Annual Budget Cost to Participants	$ 2,508	$ (114)	$ (22.09)	$ 2,622	105%
Net Generation--MWh @ Meter	1,514	5,143			
$/MWh (A)	$ 1,656.50	$ (22.09)			

MWhs Generated



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 18 Planned	620	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514
FY 17 Actual	1,720	2,932	3,651	4,367	4,518	4,719	4,876	5,068	5,496	6,515	9,499	12,845
FY 18 Actual	1,743	5,143										

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