



BUSINESS PROGRESS REPORT

DECEMBER 2017

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Generation Costs & Reliability

Combustion Turbine Project

Unit Operation for November

Unit	Availability		Production		Reason for Run
CT1 Alameda	Unit 1	Unit 2	Unit 1	321.3 MWHr	CAISO / CAISO
	100.0%	100.0%	Unit 2	509.1	
Curtailements, Outages, and Comments:					
11/7/2017 - Alameda unit 1 failed to start – control system error OMS 5432303 11/10/2017 - Alameda CT Unit 1 o/s for exhaust inspection ETR 11/15 OMS 5441014					
Unit	Availability		Production		Reason for Run
CT1 Lodi	100.0%		0.0 MWHr		No Run
Curtailements, Outages, and Comments:					
Lodi GT available for ISO system or transmission emergencies only OMS 5361816					
Unit	Availability		Production		Reason for Run
CT2 STIG	83.4%		432.0 MWHr		CAISO
Curtailements, Outages, and Comments:					
11/13/2017 - 11/17/2017 Out of service for Fire Sytem Upgrade OMS 5437347					
Unit	Availability		Production		Reason for Run
LEC	99.7%		126,577.2 MWHr		CAISO
Curtailements, Outages, and Comments:					
11/16/19 - 1324-1515 Siemens watchdog AS2 AI input card failure. OMS 5462700					

Maintenance Summary – Specific per asset above.

Geothermal Facilities

Availability/Production for November

Unit	Availability	Net Electricity Generated/Water Delivered	Out-of-Service/Descriptors
Unit 1	94.58 %	19,460 MWh	Unit 1 OOS from 0330 11/13/17 until 1830 11/14/17 for PG&E line outage
Unit 2	92.64 %	*17,453 MWh	Unit 2 OOS from 0330 11/13/17 until 1830 11/14/17 for PG&E line outage Unit 2 OOS from 1000 11/30/17 due to 2.4 aux transformer failure
Unit 3	N/A %	N/A	Unit 3 remains out of service for the month.
Unit 4	100 %	30,939 MWh	U4 had no outages for the month
Southeast Geysers Effluent Pipeline	97.04 %	179.3 mgallons	Average flow rate: 4,192 gpm
Southeast Solar Plant	N/A	34,315 KWh	Year-to-date KWh: 874,719
Bear Canyon Pump Station Zero Solar	N/A	75,220 KWh	Year-to-date KWh: 1,989,610

* Accounts for an additional 1,584 MWh of house load for the 21KV power supply to the effluent pipeline supplied from Unit #2.

Hydroelectric Project

Availability/Production for November

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	100.00 %	16,104 MWh	CV #1 unit no reportable outages.
Collierville Unit 2	65.68 %	6,336 MWh	CV #2 unit derate to 110mw's due to stator ground fault repair. CV #2 unit was out of service on, 11/06/17 at 0657 through 11/16/17 at 1405 due to annual maintenance.
Spicer Unit 1	91.61 %	819 MWh	NSM #1 unit was out of service on, 11/01/17 at 0000 through 11/03/17 at 1225 due to PG&E Salt Springs-Tiger Creek 115KV line work.
Spicer Unit 2	92.06 %	0 MWh	NSM #2 unit was out of service on, 11/01/17 at 0000 through 11/03/17 at 0913 due to PG&E Salt Springs-Tiger Creek 115KV line work.
Spicer Unit 3	91.67 %	161 MWh	NSM #3 unit was out of service on, 11/01/17 at 0000 through 11/03/17 at 1200 due to PG&E Salt Springs-Tiger Creek 115KV line work.

Operations & Maintenance Activities:

- Monthly CMMS work orders
- Adit 4 Slide repair
- Murphys Micro-wave project
- CV2 annual maintenance
- Hydro Project Physical Security Upgrade equipment installation
- CV #2 Rewind - Contractor Pre-Qualification Statements
- Beaver Creek Reservoir Clean-out complete and in service

Environmental, Health & Safety (EH&S) Projects

Incident Reports

- No vehicle accidents or lost time accidents occurred in November. There was one Recordable Incident in November: on 11/17, an employee at the Geo facility sustained an injury involving a twisted left ankle, for which a doctor prescribed medication.
- 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 November 25, 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.

November Generation Services Safety Report

	Hydro	GEO	CT Group *	NCPA HQ **
CalOSHA Recordable (this month)	0	1	0	0
CalOSHA Recordable (calendar year)	0	2	0	0
Days since Recordable	1074	8	964	6,032
Work Hours Since Last Recordable	93,681	1,323	141,198	2,174,112
LTA's (this month)	0	0	0	0
LTA's (calendar year)	0	0	0	0
Days without LTA	3,690	827	8,868	4,961
Work Hours without LTA	339,246	167,991	582,562	1,796,132
Vehicle Incident (month)	0	0	0	0
Vehicle Incident (calendar year)	0	2	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 November 25, 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

	November 2017		Calendar Year 2017	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	320.58 11/8 @1800	184,496	485.85 9/1 @1700	2,184,834
SVP	470.9 11/21 @1500	304,421	586.59 9/1 @1600	3,419,171
MSSA	789.32 11/8 @ 1800	488,917	1070.79 9/1 @ 1700	5,604,005

Last Year 2016 Data*

	November 2016		Calendar Year 2016	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	334.48 11/9 @1800	187,996	449.75 7/27 @1700	2,164,733
SVP	472.09 11/8 @1500	292,678	534.21 9/26 @ 1700	3,259,663
MSSA	792.38 11/10 @ 1800	480,674	968.73 7/27 @ 1600	5,424,396

*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	485.85 9/1 @ 1700
SVP	586.59 MW on 9/1/17 @ 1600	586.59 9/1 @ 1600
MSSA	1070.79 MW on 9/1/17 @ 1700	1070.79 9/1 @ 1700

- 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		
	November 2017	Calendar Year 2017
MSSA % Within the Band	98.91%	97.78%

- Spicer Meadows:
 - November 1 – 3, Units 1 & 2 off line for PG&E work on the Salt Springs – Tiger Creek 115kV line. Unit 3 remained on, islanded with station service power supply
- Geothermal Units:
 - November 13 – 14, Unit 1 & 2 off line for scheduled PG&E Geysers 9 – Lakeville 230kV line outage. Outage was scheduled through November 17 but work cancelled and outage ended early due to weather. To be rescheduled in December.
 - November 30 @ 1006, Unit 2 tripped off line due to 13.8kV bus fault. ETR at least 3 weeks.
- Lodi Energy Center:
 - November 16 @ 1323 – 1527, plant tripped due to STG control system logic issue
- Alameda CTs:
 - November 6 – 7, Unit 1 o/s due to failed start, control system trouble
 - November 10 – 30, Unit 1 o/s for repairs to exhaust tunnel seal. ETR mid-December
- Lodi CT:
 - November 1 – 30, unit o/s due to emissions limitation on total annual run hours
 - Unit remains available in the event of CAISO declared Stage or Transmission emergency
- Collierville Units:
 - November 1 – 30, Unit 2 remains derated due stator ground fault repair
 - November 6 – 16, Unit 2 o/s for annual maintenance
- STIG:
 - November 13 - 17, unit o/s for fire protection system upgrade

Pooling & Portfolio Planning & Forecasting

- Actual NCPA Pool load of 184.5 GWh during November was 98% of the pre-month forecast of 189.2 GWh. Pool load, running 38.5 GWh through December 6, may not reach the forecast of 200.3 GWh, with mixed at- and below-normal temperatures forecasted through the balance of the month.
- The Lodi Energy Center (LEC) generated 22,760 MWh for the pool in November, close to the 23,412 MWh forecast, aided by the significant drop in local transport rates. Supply disruptions in SoCal kept implied heat rates well above the norm, adding to run hours. For December, pool share of LEC generation is forecasted at 31,754 MWh and had reached 4,400 MWh by December 6.
- For the month of November, 7.32” of rain was recorded at Big Trees gage. November Big Trees average precipitation is 6.43”.

- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) is being maintained at \$55/MWh.
- NSMR storage as of November 30 was at 88,437 acre feet. The historical average NSMR storage at the end of November is 85,100 acre feet. As of November 14, NSMR storage is 85,565 acre feet. The current NCPA Pool share of NSMR storage is 43,390 acre feet.
- Combined Calaveras Project generation for the Pool in November totaled 11.9 GWh, up from 9.9 GWh in October. The Pool's 11.9 MWh in November exceeded the pre-month forecast of 9.5 GWh. Through December 11, Calaveras generation for the Pool is 4.9 GWh, with the full month forecasted at 12.0 GWh.
- Western Base Resource (BR) Pool delivery in November was 22.4 GWh, or 80% of the forecast of 28.2 GWh. Through December 6, BR pool allocations of 5.9 GWh (1.2 GWh Displacement, which will continue through the winter) should meet the 13-GWh December forecast.
- The PG&E City-Gate gas index traded at just \$2.86/MMBtu for December 8 delivery - compared to an average of \$3.12/MMBtu (and a low of \$2.97/MMBtu) during November. Supply constraints increased prices during early November, but prices now seem to be moderating as temperatures become more seasonal. The PG&E December Bidweek price is \$3.12, 7 cents lower than November's, and December prices have been averaging lower as constraints ease.
- Day-ahead NP15 electricity prices averaged \$39.44 (HLH) and \$32.33 (LLH) during November with the TH_NP15 maximum at \$150.26/MWh.

NCPA Pool Loads & Resources Value Summary								
Peak and Energy Summary Nov-17					Estimated Production Costs		Cost of Serving Demand	
	Coincident		Forecast		NCPA Pool		Totals	Avg (\$/MWh)
	Peak (MW)	Total MWh	Values	Avg. MW	Cost/Revenue (Estimate)	Variable Cost (\$/MWh)		
Demand	320.6	184,467	189,240	255.8	N/A	N/A		
WAPA	-	22,441	28,194	31.1	\$ 833,923	\$ 37.16		
Geothermal	-	28,088	27,540	39.0	533,671	19.00		
Hydro	-	11,900	9,474	16.5	71,400	6.00		
Stig & CTs	-	749	410	1.0	47,772	63.75		
LEC	-	22,760	23,412	31.6	762,009	33.48		
Contracts	247.8	84,973	75,451	117.9	4,406,022	51.85	\$ 7,051,517	\$ 38.23
Market - Net (Net Sales = Negative)	72.8	13,556	24,759	18.8	506,568	37.37		
Net Total	320.6	184,467	189,240	255.8	\$ 7,161,366	\$ 38.94		

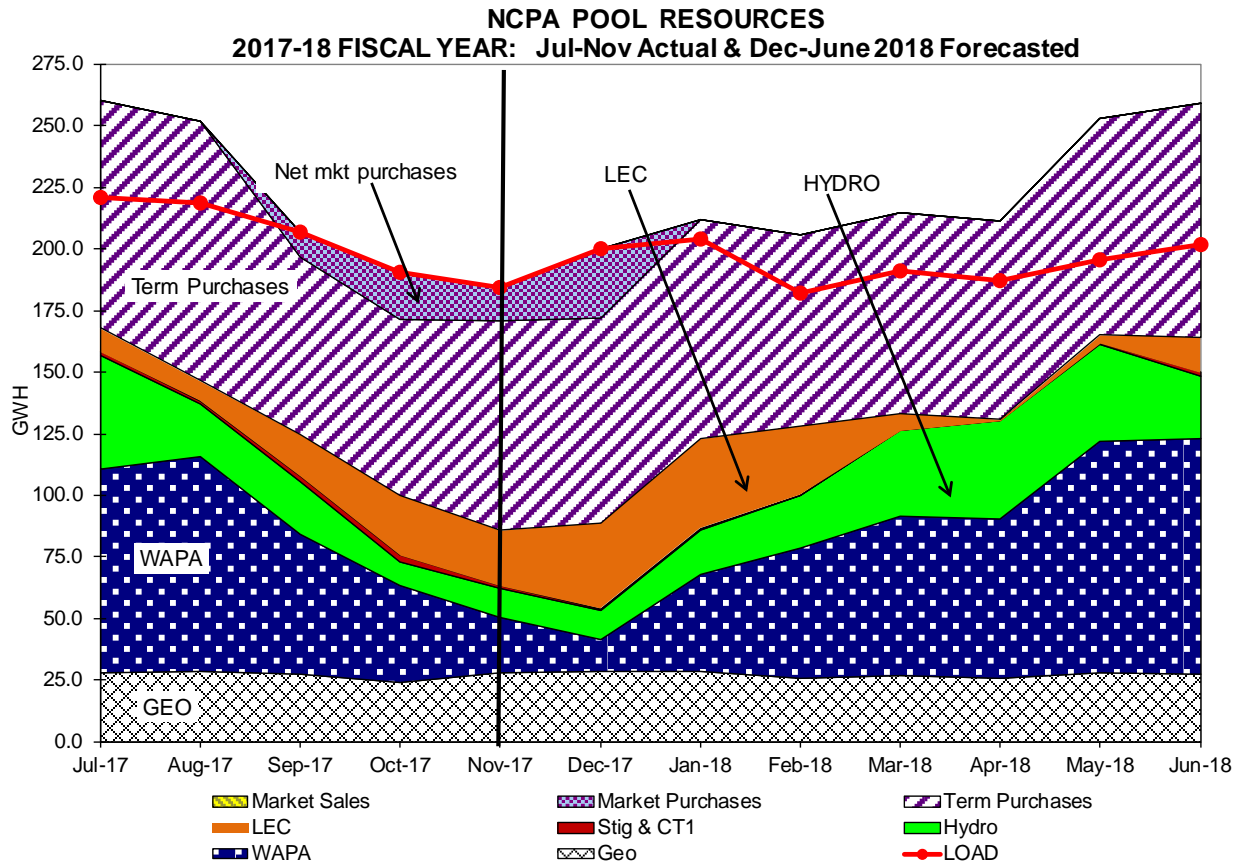
Monthly Market Summary							
	Pool Energy (MWh)	HLH Avg (\$/MWh)	MCP (\$/MWh)	Avg Variable Cost of Pool Generation (\$/MWh)	Forward Prices (EOX NP15 HLH Ask Prices)		
					NP15 11/1/2017 (\$/MWh)	12/6/2017 (\$/MWh)	
Jan-17	205,675	\$ 36.58	\$ 23.70		Dec-17	\$ 42.80	\$ 37.93
Feb-17	178,642	\$ 30.61	\$ 24.41		Jan-18	41.31	36.44
Mar-17	192,408	\$ 23.37	\$ 25.43		Feb-18	40.94	34.62
Apr-17	179,239	\$ 23.39	\$ 31.47		Q1 2018	\$ 38.71	\$ 33.76
May-17	195,573	\$ 31.70	\$ 26.86		Q2 2018	32.50	29.43
Jun-17	206,429	\$ 38.62	\$ 34.25		Q3 2018	41.44	39.94
Jul-17	221,169	\$ 39.42	\$ 36.21		CY2018	\$ 38.53	\$ 36.03
Aug-17	223,320	\$ 51.70	\$ 37.30		CY2019	39.16	38.12
Sep-17	206,930	\$ 45.07	\$ 40.69		CY2020	40.36	39.77
Oct-17	190,730	\$ 44.93	\$ 39.05		CY2021	42.30	41.31
Nov-17	184,467	\$ 38.23	\$ 38.94		CY2022	43.54	42.43
Dec-17					CY2023	44.90	43.49

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 February 2017:
 - Monthly System Resource Adequacy Demonstration (filed December 18, 2017)
 - Monthly Supply Plan (filed December 18, 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.

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	57,011	967	\$1,979,032	\$ 34.71	\$ 0.12	\$ 26.27
Oct-17	33,604	39,352	5,748	\$833,923	\$ 21.19	\$ 0.79	\$ 25.27
Nov-17	19,601	22,441	2,840	\$833,923	\$ 37.16	\$ 0.27	\$ 24.46
Dec-17	15,404	-	(15,404)	\$833,923	\$ 54.14	\$ 0.10	\$ 24.27
Jan-18	7,358	-	(7,358)	\$833,923	\$ 113.34	\$ 0.10	\$ 25.98
Feb-18	13,359	-	(13,359)	\$833,923	\$ 62.42	\$ 0.10	\$ 28.18
Mar-18	30,216	-	(30,216)	\$833,923	\$ 27.60	\$ 0.10	\$ 29.72
Apr-18	50,443	-	(50,443)	\$2,035,038	\$ 40.34	\$ 0.10	\$ 30.65
May-18	66,832	-	(66,832)	\$2,035,038	\$ 30.45	\$ 0.10	\$ 32.94
Jun-18	74,030	-	(74,030)	\$2,035,038	\$ 27.49	\$ 0.10	\$ 33.36
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 savings continue to grow, even during the low-hydro months, with Pool Members' November activity of 5,931 MWhs for an estimated savings of \$34,300, or about \$5.80/MWh.

Debt and Financial Management

- On December 13, 2017, the Federal Reserve, in a widely expected decision, raised its benchmark rate by a quarter of a percentage point, to a range between 1.25 percent and 1.5 percent.
- The Fed also predicted stronger economic growth over the next three years. It forecast 2.5% growth in 2018, well above its previous forecast of 2.1% growth in 2018, which was published in September. The Fed did not give a reason for the change, but it may reflect the Fed's assessment of the likely economic impact of the \$1.5 trillion tax cut legislation that is currently before Congress.
- Two-year Treasury rates rose the most, up 18 basis points (bps) in November. Short-term Treasury yields appear to have already fully priced in three or four Fed rate hikes in 2018, despite Fed funds futures indicating otherwise.
- Both the LEC PPC and the Finance Committee have recommended Commission approval of advance refunding the 2010 Lodi Energy Center, Issue One, Series A bonds. The deal is anticipated to close on December 20th pending Commission approval. Indenture Group A participants are estimated to save over \$2 million in debt service costs with average annual savings of over \$300,000 per year until final maturity in 2025.

Schedule Coordination Goals

Software Development

- The configuration of Scheduling software continues for the PCWA project under the MFP1 SCID. PCWA staff have been provided training on the use of the Scheduling software and testing is ongoing to simulate various scenarios on bidding strategies. Go Live is on 12/31/2017 for the 01/01/2018 operating date.
- NCPA IS staff is assisting Santa Clara to transition its MSS portfolio from scheduling via Web Service into the use of the NCPA Scheduling Suite. Rollout is anticipated for mid-January 2018.
- Various other software development is underway. The Resource Adequacy Compliance App is a tool to manage RA supply planning and compliance tracking. 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 (GHG) Accounting App is a tool for the business user to track GHG transactions by Member. The Shared Services App has three modules about Training, Support Services, and Vendor Contracts. It calculates the billable amount for the Member's portion of the Shared Services.

Network

- Additional collaboration sites are being created to expand the functionality of the Agency's new extranet, "NCPA Connect." This will provide further capabilities to share and edit documents for specific working groups and committees.
- Additional 56k circuit upgrades to T1 at Portola, Ukiah and the Disaster Recovery Center have been successfully completed. Information Services is currently working on upgrading the Ukiah Orchard substation.
- Work continues on streamlining the meetings workflow process using SharePoint to assist in preparing documents and presentations for a variety of NCPA committees. Information Services is anticipating to begin 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 performed a red team assessment at the Roseville office using a company called Rapid 7. This is a type of penetration test that evaluates the physical and network security defenses. Waiting on report from Rapid 7 to review the results.
- Information Services also backfilled their vacant System Administrator position by hiring Dustin Palmer, who has 20+ year's experience in the Information Technology industry.
- Information Services is preparing to implement a new e-mail records management solution for employees starting the first half of 2018. This will help to align our systems with the records retention policy that was approved by the Commission last year.

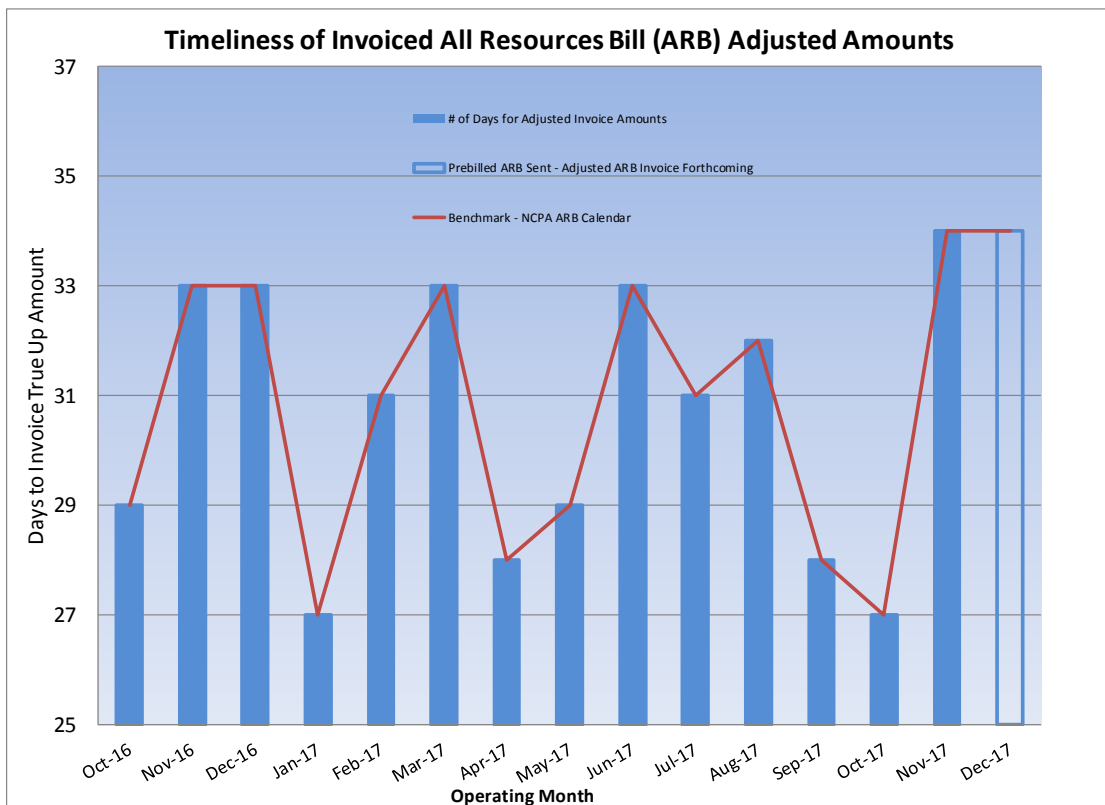
NCPA Bills & Settlements

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 December 2017 NCPA All Resources Bill (ARB) monthly invoice sent to members on November 21, 2017 contains:

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



Legislative & Regulatory

Political Arena State/Federal/Western Programs

- NCPA submitted comments to the Bureau of Reclamation on its draft Notice of Intent (NOI) for the Re-initiation of Consultation on the Long-Term Operations of the Central Valley Project (CVP) and the State Water Project (SWP). Among the recommendations made by NCPA, they included adding the Western Area Power Administration (WAPA) as a cooperating agency whose expertise can assist Reclamation in the studies and analyses for this project, including insights into how power markets in California are changing due to the state's Renewable Portfolio Standards requirements. Also, the comments urged Reclamation to carefully consider the impacts to power delivery, generation and costs under any new agreement. Finally, NCPA suggested that the NOI include consideration of how the proposed environmental and study work will address the ongoing California Waterfix proceedings, and proposed unimpaired flow criteria being developed by the State Water Resources Control Board for the Sacramento and San Joaquin Rivers.

Human Resources

Hires:

Dustin Palmer joined NCPA on November 20, 2017, as a Computer Technology Analyst III at Headquarters in Roseville. Dustin has over 17 years of computer information systems experience having previously worked for Palma GPS Inc. as Director of IT & Operations/Sr. Systems Engineer. In addition, Dustin has a bachelor's degree in Mechanical Engineering from University of Utah, Salt Lake City.

Intern Hires:

None.

Promotions/Position Changes:

None.

Separations:

Mario De Bernardo, Government Relations Representative, resigned his position at Roseville Headquarters. Mario left for another employment opportunity.