

**BOARD ACTION / MINUTE ORDERS: 2/20/2013**

**CONSENT CALENDAR**

**CONSIDERATION OF A RESOLUTION TO ADOPT REVISIONS TO THE DISTRICT'S CONFLICT-OF-INTEREST CODE** This item involves adopting a resolution for revisions to the District's Conflict-of-Interest Code in District Code Title 2.

**CONSIDERATION OF A RESOLUTION ACCEPTING COMPLETION OF THE DISTRICT HIGH EFFICIENCY BOILERS AND AUTHORIZE THE FILING OF A NOTICE OF COMPLETION** This item involves the acceptance of the District High Efficiency Boilers as complete and authorizes the filing of the Notice of Completion.

**CONSIDERATION OF AN ANNUAL CONTRACT FOR THE PURCHASE OF WOOD POLES**  
**This item involves the purchase of wood poles for 2013. MO2013-10**

- Award the contract for the purchase of wood poles to Stella-Jones Corporation for an amount not to exceed \$75,000

**CONSIDERATION OF AN EXTENSION OF UAMPS POOLING APPENDIX CONCERNING STAMPEDE HYDRO AND CITY OF FALLON** This item involves extension of UAMPS Pooling Appendix to extend the agreement between the City of Fallon and TDPUD concerning Stampede Hydro. MO2013-11

- Approve the UAMPS Pooling Appendix concerning the transfer of energy from the Stampede generation from the City of Fallon to Truckee Donner PUD

**CONSIDERATION OF A CHANGE ORDER TO THE MARTIS WELL MAINTENANCE CONTRACT 2013** This item involves additional repairs required to the Martis Well. MO2013-12

- Authorize the Change Order #1 to Layne Christensen Company in the amount of \$29,610 for a new contract total of \$54,735, plus a 10% change order authorization of a total amount not to exceed \$60,210.

Director Laliotis moved, and Director Hemig seconded, that the Board approve the consent calendar. ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**ACTION ITEMS**

**CONSIDERATION OF ADOPTING THE UPDATED MARTIS VALLEY GROUNDWATER MANAGEMENT PLAN** This item involves adoption of the Updated Martis Valley Groundwater Management Plan.

Director Hemig moved, and Director Ellis seconded, that the Board approve Resolution 2013-04 adopting the updated Martis Valley Groundwater Management Plan.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**CONSIDERATION OF WRITE-OFF OF DELINQUENT ACCOUNTS RECEIVABLE** This action requests the Board of Directors to approve the current semi-annual write-off of delinquent account balances for FY12. MO2013-13

Director Laliotis moved, and Director Hemig seconded, that the Board approve the write-off list in the amount of \$34,271.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**CONSIDERATION OF FY12 YEAR-END FINANCIAL RESULTS AND REQUEST FOR TRANSFERS AND BUDGET CARRY-OVERS** This item involves the comparison of the actual year-end financial results to the FY12 Budget; and consideration of transfers and budget carry-overs.

Director Laliotis moved, and Director Ellis seconded, that the Board authorize the following transfers and carry-overs:

- a) Transfer \$1,173,000 from the Electric General Fund to the Electric Capital Replacement Reserve Fund **MO2013-14**
- b) Transfer \$242,000 from the Electric General Fund to establish the new Electric AB32 Cap & Trade Restricted Fund **MO2013-15**
- c) Carry-over \$35,000 from the Water Department's FY12 Budget to the FY13 Budget to fund the Water Pipeline Rehabilitation Project **MO2013-16**
- d) Carry-over \$459,000 from the Water Department's FY12 Water Budget to the FY13 Budget to fund the Water SCADA Replacement Project **MO2013-17**

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**CONSIDERATION OF THE FUTURE ROLE OF ENERGY STORAGE AB 2514 WITHIN THE DISTRICT** This item involves determining if energy storage systems AB 2514 are viable and cost-effective for the District. **MO2013-18**

Director Hemig moved, and Director Laliotis seconded, that the Board:

- a) Find that energy storage systems are not currently viable and cost effective for the District and the District is not adopting procurement targets at this time
- b) Direct staff to reevaluate this issue not less than every three years as required by AB 2514

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**ROUTINE BUSINESS**

**TREASURER'S REPORT: JANUARY 31, 2013 MO2013-19**

**Approval of the fund balances as of DECEMBER 31, 2012:** Director Laliotis moved, and Director Ellis seconded, that the Board approve the treasurer's report for the month ended December 31, 2012.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**Approval of disbursements for January 2013** Director Hemig moved, and Director Laliotis seconded, that the Board approve the January 2013 disbursements report.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**APPROVAL OF MINUTES FOR JANUARY 16 AND 28, 2013 MO2013-20**

Director Ellis moved, and Director Hemig seconded, that the Board approve the minutes of January 16 and 28, 2013.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**CLOSED SESSION**

**CLOSED SESSION PURSUANT TO GOVERNMENT CODE 54956.9, CONFERENCE WITH LEGAL COUNSEL ON PENDING LITIGATION: SIERRA PACIFIC POWER CO/DBA NV ENERGY TRANSMISSION RATE CASE AND SCHEDULE 4 ENERGY IMBALANCE**

There was no reportable action.



11570 Donner Pass Road  
Truckee, Ca. 96161

# Minute Order

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**February 20, 2013**  
**MO 2013 - 10**

## **CONSENT CALENDAR**

**CONSIDERATION OF AN ANNUAL CONTRACT FOR THE PURCHASE OF WOOD POLES** This item involves the purchase of wood poles for 2013.

- Award the contract for the purchase of wood poles to Stella-Jones Corporation for an amount not to exceed \$75,000

Director Laliotis moved, and Director Hemig seconded, that the Board approve the consent calendar.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

## **Fiscal Impact:**

- Funding for wood poles is included in the FY13 operating budget



11570 Donner Pass Road  
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# Minute Order

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**February 20, 2013**  
**MO 2013 - 11**

## **CONSENT CALENDAR**

**CONSIDERATION OF AN EXTENSION OF UAMPS POOLING APPENDIX CONCERNING STAMPEDE HYDRO AND CITY OF FALLON** This item involves extension of UAMPS Pooling Appendix to extend the agreement between the City of Fallon and TDPUD concerning Stampede Hydro.

- Approve the UAMPS Pooling Appendix concerning the transfer of energy from the Stampede generation from the City of Fallon to Truckee Donner PUD

Director Laliotis moved, and Director Hemig seconded, that the Board approve the consent calendar.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

## **Fiscal Impact:**

- The net cost of the Stampede generation transfer is the difference between the Stampede generation and the cost of TDPUD's other resources at UAMPS
  - These costs currently range between \$20 and \$40 per MWh and do not include REC's or transmission

## POOLING APPENDIX

This Pooling Appendix made 5<sup>th</sup> day of February, 2013 between Utah Associated Municipal Power Systems ("UAMPS"), City of Fallon, Nevada ("Fallon") and Truckee Donner Public Utilities District ("Truckee Donner"). UAMPS, Fallon and Truckee Donner are sometimes individually referred to herein as Party and sometimes collectively referred to herein as Parties. The Parties to this Pooling Appendix agree to the following provisions and agree to pay all costs of this transaction through the UAMPS monthly power bill.

### PURPOSE

Fallon and Truckee Donner have entered into a Western Area Power Administration Contract # 07-NSR-01026 for Energy Exchange Services for the Stampede Resource. [Non-UAMPS Project]

### AUTHORITIES AND RESPONSIBILITIES

The Parties have agreed that all of the Stampede Resource will be delivered to Truckee Donner beginning February 1, 2010. In exchange, Truckee Donner will sell 500 kW of its UAMPS resource mix to Fallon at a rate of \$32/MWh, subject to annual true-up below, minus the REC valuation and UAMPS transmission rate. The REC valuation is calculated as the average of the WECC Green-E Wind (wregis) Bid and Offer prices as listed in the bi-annual table attached hereto as Exhibit A. The transmission rate is determined by the UAMPS Board of Directors annually.

Truckee Donner will provide to UAMPS a schedule of output of the Stampede Resource on a prescheduled basis in order to allow UAMPS to meet its obligations to schedule the resource with Sierra Pacific Power Company ("SPPC"). Schedules will be in whole megawatts with the difference between metered generation and schedule accounted for as a metered resource of Truckee Donner subject to such accounting being accepted by SPPC. Truckee Donner shall notify UAMPS of any planned service interruption at least twenty-four hours prior to the interruption occurrence.

The Parties agree that during January of each year, a true up of MWh and dollars will be evaluated and agreed upon by Truckee Donner and Fallon.

### TERM

The term of this Appendix begins January 1, 2014 through December 31, 2018 unless terminated by a Party providing 60 day written notice to the other Parties. Any termination prior to December 31, 2018, will require an agreement of Truckee Donner and Fallon on an energy delivery methodology beginning the first day of the month following the termination date.

### CHARGES

**Administration:** UAMPS will charge and Truckee Donner and Fallon will pay the scheduling and reserve fees as adopted by the Board of Directors, from time to time, for all MWh delivered. The charges will be invoiced to Truckee Donner and Fallon on the UAMPS Power Bill.

**Wheeling:** Truckee Donner and Fallon are providing the transmission service through their respective service agreements under the SPPC OATT.

**Other:** Any other cost incurred by UAMPS due solely to this Pooling Appendix, including REC fees, legal costs or another other costs, with the exception of transmission costs, scheduling costs, power purchase costs and administration costs, will be the responsibility of Truckee Donner and invoiced through the UAMPS Power Bill.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

TRUCKEE DONNER PUBLIC  
UTILITY DISTRICT

CITY OF FALLON

\_\_\_\_\_  
UTAH ASSOCIATED MUNICIPAL POWER  
SYSTEMS



## Voluntary RECs Market

Friday, January 25, 2013

	2013				2014				2015				2016			
	FH Bid	FH Offer	BH Bid	BH Offer	FH Bid	FH Offer	BH Bid	BH Offer	FH Bid	FH Offer	BH Bid	BH Offer	FH Bid	FH Offer	BH Bid	BH Offer
<b>VECC Green-E Wind (wregis)</b>	\$1.00	\$1.50	\$1.00	\$1.50	\$1.25	\$2.00	\$1.25	\$2.00	\$1.00	\$3.00	\$1.00	\$3.00	\$1.50	\$3.50	\$1.50	\$3.50
<b>ational Green-E</b>	\$0.70	\$0.90	\$0.75	\$0.95	\$0.80	\$1.25	\$0.80	\$1.25	\$1.00	\$1.40	\$1.00	\$1.40	\$1.10	\$1.50	\$1.10	\$1.50

This does not constitute a solicitation to buy or sell RECs. Numbers reported are estimates of fair-market value derived from observed market data, and are not necessarily executable prices.

The information contained in this document is provided as a courtesy by the Amerex Brokers LLC ("Amerex"). As a condition of receiving this information, you and any other recipient are deemed by Amerex to have acknowledged and agreed that (a) Amerex has exclusive and valuable property rights in this information, (b) Amerex is making this information available to a restricted group of recipients including certain of its employees, customers and business partners, and you may not distribute it in any form to any other person or entity without the express written consent of Amerex, and (c) you may make use of this information only for your internal business purposes and not for the benefit of any third party. Amerex does not make any representations or warranties, express or implied, with respect to any information contained herein, including without limitation any representation or warranty that the data set forth herein is accurate, complete or timely. Amerex reserves

Below is an extension from the above market amounts, adding \$0.50 per year from 2016

	2017				2018			
	FH Bid	FH Offer	BH Bid	BH Offer	FH Bid	FH Offer	BH Bid	BH Offer
<b>VECC Green-E Wind (wregis) extension</b>	\$2.00	\$4.00	\$2.00	\$4.00	\$2.50	\$4.50	\$2.50	\$4.50



11570 Donner Pass Road  
Truckee, Ca. 96161

# Minute Order

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**February 20, 2013**  
**MO 2013 - 12**

## **CONSENT CALENDAR**

### **CONSIDERATION OF A CHANGE ORDER TO THE MARTIS WELL MAINTENANCE CONTRACT 2013 This item involves additional repairs required to the Martis Well.**

- Authorize the Change Order #1 to Layne Christensen Company in the amount of \$29,610 for a new contract total of \$54,735, plus a 10% change order authorization of a total amount not to exceed \$60,210.

Director Laliotis moved, and Director Hemig seconded, that the Board approve the consent calendar.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

### **Fiscal Impact:**

- Change order adds an additional \$29,610 to the original contract, bringing the total amount of the contract to \$54,735
- Sufficient funds exist within the approved FY13 budget for this contract





WATER MINERAL ENERGY

2/13/13

Mr. Mark Thomas  
Truckee Donner PUD

Dear Mr. Thomas:

Layne Christensen Company is pleased to provide you with the following proposal to perform a deviation survey on the Martis Well, replace worn miscellaneous components, and provide and install a replacement bowl assembly.

1. Additional Labor to Straighten Line Shafts, Machine Lantern Rings, Rebuild Packing Box, and Refurbish Discharge Head. Replacement Components & Freight - \$8,010.00

Machinist Labor (18 Hours)  
 10" X 10' X .279 TNC W.L. Butt Pipe  
 1 15/16" X 10' TNC 416SS Line Shaft (2)  
 1 15/16" X 5' TNC 416SS Line Shaft  
 1 15/16" Retainer Rubber Insert (30)  
 1 15/16" X 64" TNC 416SS Bottom Head Shaft  
 1 15/16"-10THRD 304SS Shaft Coupling (32)  
 Refurbish 12" Discharge Head  
 Rebuild 1 15/16" Packing Box & Machine Lantern Rings  
 3/4" Poly Airline Assembly  
 12" Discharge Gasket

2. Video Well and Perform Deviation Survey - \$4,040.00
3. Christensen 12FDLC-13 Stage Bowl Assembly - \$17,560.00

The total cost of this project has been estimated at \$29,610.00. This proposal is subject to the attached terms and conditions and is valid for 30 days. By signing below, you approve Layne Christensen to complete your project. If you have any further questions, please do not hesitate to contact me. I look forward to working with you on this project.

Sincerely,  
Nathan Anderson

2/21/13

Client

Date

**WATER RESOURCES**



11570 Donner Pass Road  
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# Minute Order

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**February 20, 2013**  
**MO 2013 - 13**

**CONSIDERATION OF WRITE-OFF OF DELINQUENT ACCOUNTS RECEIVABLE** This action requests the Board of Directors to approve the current semi-annual write-off of delinquent account balances for FY12.

Director Laliotis moved, and Director Hemig seconded, that the Board approve the write-off list in the amount of \$34,271.

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

**Fiscal Impact:**

- The remaining budget for FY12 write-offs is \$68,428
- The proposed write-offs of the second half of FY12 total \$34,271

TRUCKEE DONNER PUBLIC UTILITY DISTRICT  
 WRITE OFF OF DELINQUENT ACCOUNTS CLOSED PRIOR TO 06/30/2012

	CUSTOMER NAME	AMOUNT
AGUILAR	CAMILA	\$ 46.05
ALEGRE	DAVID C	43.79
ANDRESEN	ROBERT	530.41
ARNOLD	FABIAN	72.11
BATORY	CASEY	955.44
BLANTON	GAIL	150.63
BRUNO	GREG	820.53
CABLE	CHRISTOPHER	186.80
CARTER	JOEL	317.47
CHAVARRIA	AUDRA	31.18
CHAVEZ	SALLY	276.31
CHIANG	WILSON	201.57
CHODOS	MARK M	293.18
CHODOS	MARK M	124.36
CLINESMITH	JOSHUA	793.54
COSBY	AARON	24.42
DAGHER	MARK	122.91
DAVIS	BRENDA	203.43
DOHERTY	MARK A	773.11
DOWN BY THE RIVER		332.16
ELMENDORF	BYRON	285.78
FOSTER	TIM	867.61
GASTELUM	POMPEYO	87.37
GOGARTY	SEAN	31.15
GUNDER	TERRY	196.75
HARING	HEATHER	877.96
HARTNETT	WAYNE	615.65
HEIL	MICHAEL	353.00
HILL	JANIS	2,637.09
HOAG	TRAVIS	446.24
HUFF	SHERWOOD	275.00
JAHANBIN	STEPHANIE	191.03
JONES	VERONICA	172.34
JORGENSON	ELIZABETH	203.15
KERRIGAN	KEITH	215.53
LAMBERG	ROBERT	252.04
LANG	WILLIAM	575.03
LONG	DANIELLE	67.96
LOVEL	SUNSHINE	801.35
LOW	STACI	789.80
MARIA	DON	269.48
MAYO	MARINA	112.18

TRUCKEE DONNER PUBLIC UTILITY DISTRICT  
WRITE OFF OF DELINQUENT ACCOUNTS CLOSED PRIOR TO 06/30/2012

CUSTOMER NAME		AMOUNT
MCCAULEY	JOHANN	449.75
MEDEFESSER	CHRISTINA	381.79
MORRISETTE	ADRIAN	289.81
NELSON	NIKI	79.16
NELSON	NIKI	69.68
NUNEZ	HERMINIA	24.29
PANIAGUA	SERGIO	91.97
PARAMO	MELISA	120.84
PARKER	MARGIE	1,780.51
PAUL	JASON S	681.67
POOLE	CODY	82.38
PORTER	TOMMY	135.23
PRUNER	GEOFFREY	546.67
RANKIN	NATALIE	43.89
RIVAS	NOHEMY	79.63
ROSA	CHERYL	316.80
RUNNING BEAR TOWING		419.84
RUNNING BEAR TOWING		225.69
SANCHEZ	ANNABELLA	16.37
SCHILDER	JOHN	177.94
SCHILLER	MICHAEL	15.94
SCHRATZ	JOSEPH	860.02
SMITH	RYAN	538.25
STAMM	JANICE L	40.60
SUNDBLAD	MEREDITH	1,048.30
THOMPSON	JILL	179.96
TOLLISON	GREGORY	554.89
TOWN	MICHAEL	146.85
TRUCKEE DONNER PASS LLC		5,703.22
TYSON III	WILLIAM H	578.25
VALDIVIA	GUILLERMO	238.71
VANDERBILT MORTGAGE AND FINANCE		46.85
VITE	DAVID	179.26
WILSON	JARRETT	148.50
WOOD	JOANNE	1,354.70
TOTAL WRITE-OFF		<u>\$ 34,271.10</u>



11570 Donner Pass Road  
Truckee, Ca. 96161

# Minute Order

**February 20, 2013**  
**MO 2013-14, 2013-15, 2013-16, 2013-17**

**CONSIDERATION OF FY12 YEAR-END FINANCIAL RESULTS AND REQUEST FOR TRANSFERS AND BUDGET CARRY-OVERS** This item involves the comparison of the actual year-end financial results to the FY12 Budget; and consideration of transfers and budget carry-overs.

Director Laliotis moved, and Director Ellis seconded, that the Board authorize the following transfers and carry-overs:

- a) Transfer \$1,173,000 from the Electric General Fund to the Electric Capital Replacement Reserve Fund **MO2013-14**
- b) Transfer \$242,000 from the Electric General Fund to establish the new Electric AB32 Cap & Trade Restricted Fund **MO2013-15**
- c) Carry-over \$35,000 from the Water Department's FY12 Budget to the FY13 Budget to fund the Water Pipeline Rehabilitation Project **MO2013-16**
- d) Carry-over \$459,000 from the Water Department's FY12 Water Budget to the FY13 Budget to fund the Water SCADA Replacement Project **MO2013-17**

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

### Fiscal Impact:

- Electric Department
  - Transfer from General Fund to Capital Replacement Reserve Fund \$1,173,000
  - Transfer from General Fund to AB32 Cap & Trade Restricted Fund 242,000
  - \$1,415,000
- Water Department
  - Carry-Over Pipeline Rehabilitation Project from FY12 to FY13 Budget \$ 35,000
  - Carry-Over Water SCADA Replacement Project from FY12 to FY13 Budget 459,000
  - \$ 494,000



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  - \$ 494,000



**Truckee Donner Public Utility District  
FY12 Transfers and Carry-Overs**

**Electric Department**

Transfer from General Fund to Capital Reserve Fund	\$ 1,173,000
Transfer from General Fund to AB 32 Cap & Trade Reserve	<u>242,000</u>
	<u>\$ 1,415,000</u>

**Water Department**

Carry-Over Pipeline Rehabilitation Project (15th Fairway)	\$ 35,000
Carry-Over Water SCADA Replacement Project	<u>459,000</u>
Total Carry-Overs from FY12 to FY13	<u>\$ 494,000</u>



11570 Donner Pass Road  
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# Minute Order

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**February 20, 2013**  
**MO 2013-18**

**CONSIDERATION OF THE FUTURE ROLE OF ENERGY STORAGE AB 2514 WITHIN THE DISTRICT** This item involves determining if energy storage systems AB 2514 are viable and cost-effective for the District.

Director Hemig moved, and Director Laliotis seconded, that the Board:

- a) Find that energy storage systems are not currently viable and cost effective for the District and the District is not adopting procurement targets at this time
- b) Direct staff to reevaluate this issue not less than every three years as required by AB 2514

ROLL CALL: Director Aguera, absent; All other Directors aye, by voice vote. SO MOVED

Fiscal Impact:

- There is no fiscal impact resulting from this action item



## **ACTION**

**To: Board of Directors**  
**From: Stephen Hollabaugh**  
**Date: February 20, 2013**  
**Subject: Consideration of the Future Role of Energy Storage AB 2514 within the District**

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### **1. WHY THIS MATTER IS BEFORE THE BOARD**

AB 2514 requires a Publicly Owned Utility (POU) governing Board to determine if it is viable and cost-effective to procure energy storage systems for their utility.

### **2. HISTORY**

On September 29, 2010, the Governor signed Assembly Bill (AB) 2514 (Skinner, statutes of 2010). This legislation is aimed at encouraging electric utilities to access the appropriate levels of energy storage that may be cost-effectively implemented. Accordingly, pursuant to Public Utilities Code Section 2835(b), each publicly owned electric utility is directed to initiate a process to determine appropriate targets, if any, for the utility to procure viable and cost-effective energy storage systems. If it is determined that there is an appropriate level of viable and cost-effective energy storage systems that can be achieved by December 31, 2016, and a second target by December 31, 2021, the publicly owned utility shall adopt the procurement targets by October 1, 2014.

Energy storage systems are defined in the legislation to mean "commercially available technology that is capable of absorbing energy, storing it for a period of time, and thereafter dispatching the energy." Furthermore, in order to be viable, the energy storage system must "be cost effective and either reduce emissions of greenhouse gases, reduce demand for peak electrical generation, defer or substitute for an investment in generation, transmission, or distribution assets, or improve the reliable operation of the electrical transmission or distribution grid.

### **3. NEW INFORMATION**

Energy storage systems, in order to be viable, must be cost effective and either reduce emissions of greenhouse gases, reduce demand for peak electrical generation, defer or substitute for an investment in generation, transmission, or distribution assets, or improve the reliable operation of the electrical transmission of distribution grid.

Staff has reviewed "Electricity Energy Storage Technology Option - A White Paper

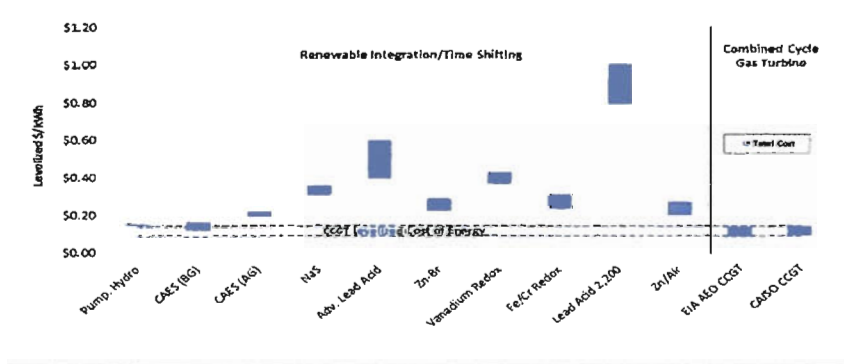
primer on applications, Costs and Benefits" written by the Electrical Power Research Institute (EPRI). This white paper includes an Executive Summary, Introduction, Energy Storage Application Requirements and Benefits, Market Size and Potential, Technology Options: Energy Storage Solutions and System Costs, Discussion and Conclusions, Recommendations for Future Work and Appendix A: Framework and Methodology for Valuation of Energy Storage Applications.

In producing this report, EPRI's Energy Storage Program drew on information from technology assessments, market analysis, application assessments, and input from storage system vendors and system integrators. The paper provides an overview of energy storage applications and technology options, including updated cost and performance estimates for current and near-term options. Longer-term emerging systems are also highlighted. A final goal of the paper is to outline a framework and methodology that electric utilities and industry stakeholders may use in estimating the value of energy storage systems in the following applications:

- Photovoltaic integration
- Wind power integration
- System applications
- Utility transmission and distribution (T&D) asset management
- Commercial and industrial (C&I) applications
- Distributed energy storage near end-user loads
- Residential applications

For each application area, the report presents an overview of the application and relevant energy storage solution options, including:

- A brief description of the technologies
- A summary of technology development status
- Current technology performance and costs, including uncertainties
- Comparative benefit and gap analysis by application
- Major technical issues and future development direction and trends
- Development and commercialization timelines
- Relevant market adoption and business issues
- A framework for economic analysis



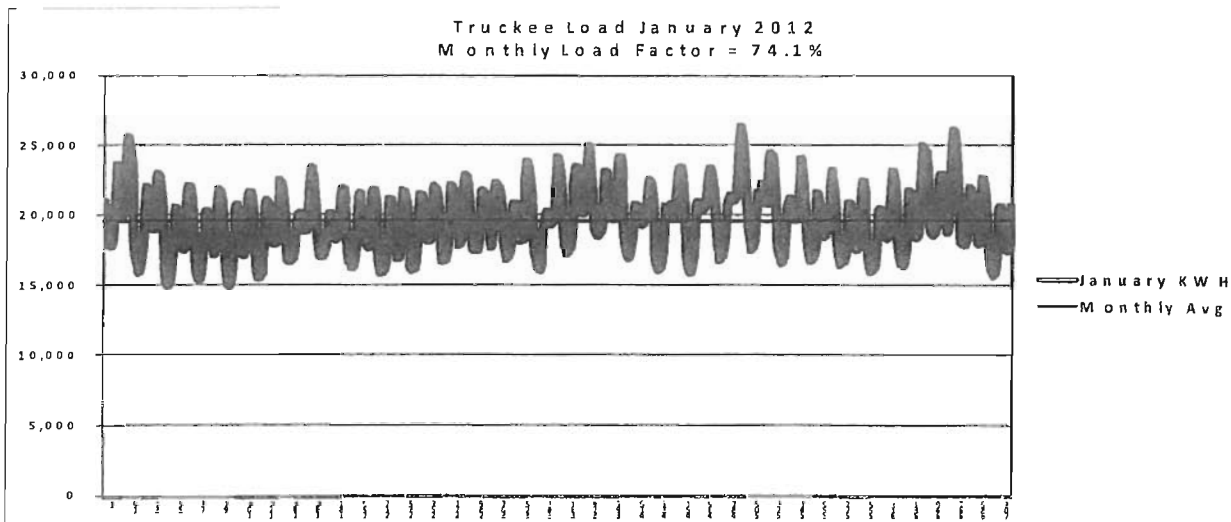
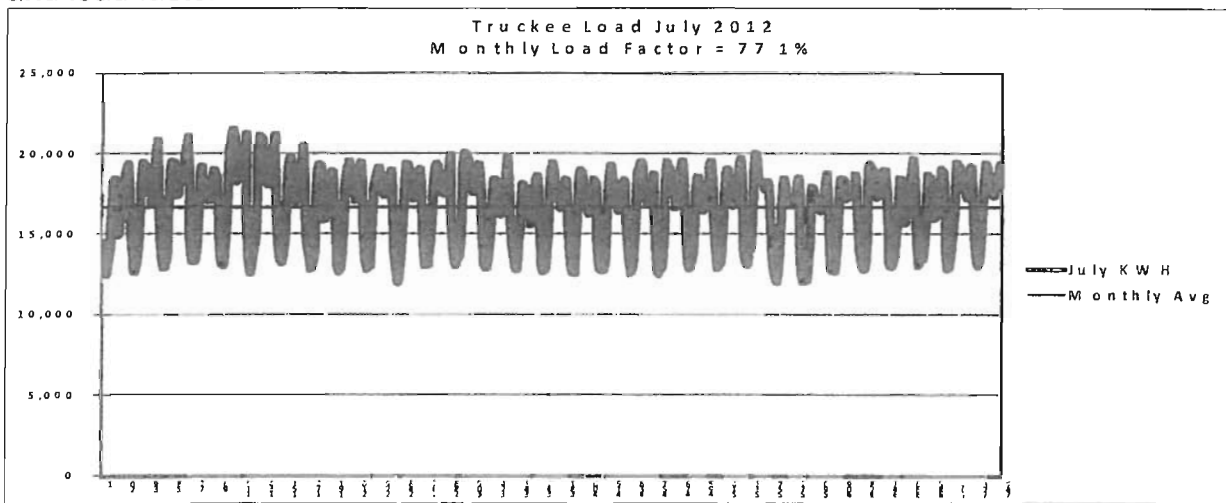
**Figure 15**  
**Levelized Cost of Delivered Energy for Energy Storage Technologies Compared to CCGT.**

Figure 15, from the white paper, shows that the cost of energy from energy storage is much higher than a combined cycle gas turbine. The white paper finds that many of the energy storage options discussed have not been validated in the applications discussed, and are not "grid-ready". The future may have "grid-ready" storage solutions by 2015.

**District Analysis:**

The District looked at our geographic location, load shape, type of customers and existing generation portfolio to do our review of energy storage systems.

**Load Shape:** Below are a summer and winter month of data showing the loadshape and load factor



With such a high load factor and the current low cost of investment in generation, the economics of energy storage for the District are not cost effective.

The District found that given this data along with a high monthly load factor (our peak

load is not significantly higher than our average load), winter peaking load, and the District's load peaks on weekends and holidays, the current cost of investment in carbon-free generation, energy storage systems are not a cost-effective viable source for the District at this time.

#### **4. FISCAL IMPACT**

There is no fiscal impact of finding energy storage systems not viable and cost effective at the current time.

#### **5. RECOMMENDATION**

- a) The Board finds that energy storage systems are not currently viable and cost effective for this District, and the District is currently not adopting procurement targets.
- b) The Board directs staff to reevaluate this not less than every three years as required by AB 2514.



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