

# DASHBOARD

Energy Manager™ by Dude Solutions

Energy Manager - DSI Demo Dashboard

Logout My Account Session

Organization Setup  
Facility Details  
Utility Accounts  
Billing Data  
ENERGY STAR  
Interval Data  
Savings Actions  
Resources  
Reports & Charts  
System Admin  
Help & Contact Info

General Stats Bill Stats Announcements

General Stats

# Facilities:	156
# Vendors:	6
# Accounts:	283
# Meters:	797

System Activity

# Users:	18
# User Types:	4
# Logins - Month:	7
# Logins - YTD:	203

ENERGY STAR

Avg. score:	32
Lowest score:	0
Highest score:	98
# Qualified(75%):	1

Resources

# Documents:	27
# Links:	6
# News sources:	26
# Blog articles:	0

Quick Links User Logins Social Media

Quick Links

- [Historical Average vs. Current](#)
- [Fire Department Chargebacks](#)
- [Facility EUI Ranking Chart](#)
- [Treemap Facility Ranking](#)
- [Year-Over-Year Comparison](#)
- [Side-by-Side Service Graphs](#)
- [Historical Data by Service](#)
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- [Facility EUI Ranking Chart](#)
- [Facility Energy Use Ranking](#)

Energy Water All Utilities Interval Data ENERGY STAR

Monthly Energy Use

Monthly Total Energy Usage

All Facilities -- Apr 2015 - Mar 2016

Month	Last Year (MBtu)	This Year (MBtu)
Apr	6.1	5.8
May	5.4	5.2
Jun	4.9	5.1
Jul	5.1	5.5
Aug	5.0	5.0
Sep	4.7	4.6
Oct	5.5	5.4
Nov	7.2	7.0
Dec	8.5	8.8
Jan	8.5	8.7
Feb	6.7	7.1
Mar	6.8	6.8

Energy Usage (MBtu)

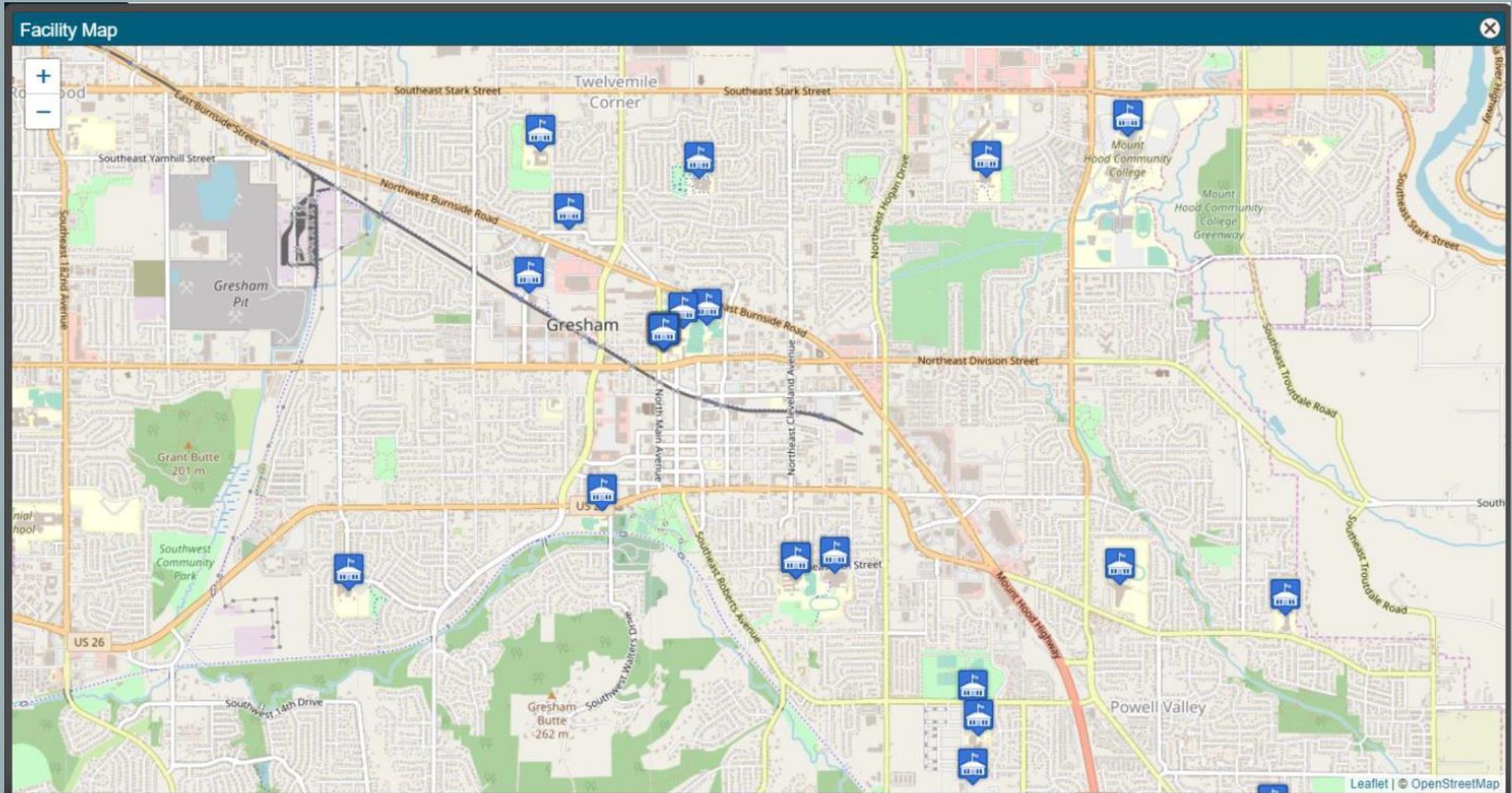
Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

◆ Last Year ◆ This Year

Facilities: All Apr 2015 to Mar 2016 Total Electricity Demand Natural Gas Cost

DSI Demo

# FACILITY > ACCOUNT > METER MAP



# TRACK MULTIPLE SERVICES

Level: **\*\* All Facilities \*\***

Per facility:  (generate a separate report for each facility matching the criteria)

Services:
 

- Electricity
- Natural Gas
- Chilled Water
- Water
- Irrigation

Hide graphs for services with no data in selected time period

Time period: **1 year**

Start date: **May 2016**

End date: **April 2017**

Proration by: **Line Item Dates**

Chart colors: **Customize colors**

3D display:

Chart type:    

Data type:  Energy Use  Energy Cost

Facility spec: **None specified**

[Refresh Report](#)



# TRACK SUB-METERS AGAINST MASTER

Energy Manager – Sam Houston State University  
**Accounts & Meters**

Menu

**+ Add Account**

Facility: **\*\* ALL Facilities \*\***

Vendor: **\*\* ALL Vendors \*\***

141046342  Count: **(446)**

- Energy 141046342 Electricity
- Energy 141046342-0197-S Electricity
- Energy 141046342-02&03 Electricity
- Energy 141046342-0278-1 Electricity
- Energy 141046342-0282-1 Electricity
- Energy 141046342-0283-1 Electricity
- Energy 141046342-10 Electricity
- Energy 141046342-102 Electricity
- Energy 141046342-102wcp Electricity
- Energy 141046342-103-1 Electricity
- Energy 141046342-103-2 Electricity
- Energy 141046342-103wcp Electricity
- Energy 141046342-104 Electricity

Energy Manager – Sam Houston State University  
**141046342**

Expand

Logout My Account

General Address Memos Meters **Allocations** Funding Sources

Allocation type(s): *Master Account*

**Subsidiary Accounts**

**+ Add Subsidiary**

Search:

Facility	Subsidiary Account	Service	Allocation
ACADEMIC BLDG III	<a href="#">141046342-8</a>	Electricity	Meter Readings
ACADEMIC BLDG IV	<a href="#">141046342-10</a>	Electricity	Meter Readings
ACADEMIC BUILDING I	<a href="#">141046342-39</a>	Electricity	Meter Readings
ART COMPLEX (NEW)	<a href="#">141046342-380</a>	Electricity	Meter Readings
AUSTIN & PEABODY	<a href="#">141046342-02&amp;03</a>	Electricity	Meter Readings
BALDWIN-CREAGER HOUSE	<a href="#">141046342-130_131</a>	Electricity	Meter Readings
BASEBALL SOFTBALL PRACTICE FACILITY	<a href="#">141046342-289</a>	Electricity	Meter Readings
BEARKAT VILLAGE A APTS A101-A306	<a href="#">141046342-273</a>	Electricity	Meter Readings
BEARKAT VILLAGE C APTS C101-C306	<a href="#">141046342-275</a>	Electricity	Meter Readings
BEARKAT VILLAGE D APTS D101-D312	<a href="#">141046342-276</a>	Electricity	Meter Readings
BEARKAT VILLAGE F APTS F101-F312	<a href="#">141046342-278</a>	Electricity	Meter Readings
BEARKAT VILLAGE I APTS I101-I306	<a href="#">141046342-281</a>	Electricity	Meter Readings
BEARKAT VILLAGE J APTS J101-J306	<a href="#">141046342-282</a>	Electricity	Meter Readings
BEARKAT VILLAGE K APTS K101-K308	<a href="#">141046342-283</a>	Electricity	Meter Readings
BELVIN HALL	<a href="#">141046342-103-1</a>	Electricity	Meter Readings
BERNARD G JOHNSON COLISEUM	<a href="#">141046342-48</a>	Electricity	Meter Readings
BOBBY K. MARKS ADMINISTRATION BUILD	<a href="#">141046342-5</a>	Electricity	Meter Readings
BUCHANAN HALL	<a href="#">141046342-103-2</a>	Electricity	Meter Readings
CHEMISTRY AND FORENSIC SCIENCE	<a href="#">141046342-300</a>	Electricity	Meter Readings
CJC COMPLEX	<a href="#">141046342-46</a>	Electricity	Meter Readings
COLLEGE OF HUMANITIES & SOCIAL SCIE	<a href="#">141046342-314</a>	Electricity	Meter Readings
COLLEGE OF HUMANITIES & SOCIAL SCIE FOOD POD	<a href="#">141046342-314-1</a>	Electricity	Meter Readings
DAN RATHER COMMUNICATIONS BUILDING	<a href="#">141046342-51</a>	Electricity	Meter Readings

**\*\* Required field**

# VALIDATE UTILITY BILLS

Energy Manager  
Menu **Bill Validation**

Level: **\*\* All Facilities \*\***

Vendor: **\*\* All Vendors \*\***

Service: **\*\* All Services \*\***

Account: **\*\* All Accounts \*\***

Batch ID: **\*\* None \*\***

Time period: **1 year**

Start date: **February 2019**

End date: **January 2020**

Date type: **Bill Date**

Method: **Historical Average**

Demand:  (show variances for Billed and Actual demand)

Errors only:

Flag errors: **25** % below expected  
**25** % above expected

**How are errors identified?**

[Refresh Report](#)

Energy Manager **Bill Validation** Expand

Logout My Account Session

Export to:

Saved Report: **\*\* New Report \*\*** [Add](#) [?](#)

**Bill Validation**  
All Facilities -- 02/2019 to 01/2020 -- Method: Historical Average

Display **15** rows Search:

h	Bill Date	Esti- mated?	Over- lap?	Bill Days	Average Bill Days	% Variance	Usage	Average Usage	Units	% Variance	Cost	Average Cost	% Variance
	08/18/2019			28	28		4	0	Therms	+2300%	\$19	\$11	+69.9%
	05/16/2019			31	29		837	46	kWh	+1729.5%	\$113	\$22	+412%
	08/18/2019			29	29		31	4	Therms	+780%	\$45	\$15	+196.7%
	07/08/2019			28	29		69	8	ccf	+762.5%	\$625	\$91	+590.6%
	07/20/2019			30	29		39	5	Therms	+646.9%	\$53	\$17	+220.1%
	10/19/2019			62	57		8	1	ccf	+481.8%	\$42	\$22	+86.5%
	08/04/2019			56	59		96	17	Gallons	+479.3%	\$686	\$447	+53.5%
	08/04/2019			56	59		96	17	ccf	+479.3%	\$3,639	\$3,388	
	07/21/2019			30	30		23	5	Therms	+385.5%	\$38	\$17	+125%
	10/18/2019			29	28		1,581	335	kWh	+372.1%	\$77	\$48	+60%
	11/16/2019			31	28		438	96	kWh	+356.3%	\$34	\$23	+44.3%
	08/21/2019			63	59		48	11	Gallons	+354.1%	\$287	\$130	+121.3%
	09/17/2019			30	30		4,602	1,047	kWh	+339.5%	\$190	\$123	+53.9%
	09/17/2019			30	29		2,025	463	kWh	+337.5%	\$93	\$62	+51.2%
	04/15/2019			29	28		21	5	kWh	+330.8%	\$25	\$18	+40.3%

Showing 1 to 15 of 1,332 entries 
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# MEASURE PROJECT SAVINGS

Energy Manager -- DSI Demo  
**Capital Projects**

Menu

**+ Add Project**

Facility: **\*\* All facilities \*\***

Search text. Count: (8)

- BSC Weatherization
- City Hall Heat Recovery Chiller
- City Hall Waterside Economizer
- Crossroads Solar Array
- Fire Station HVAC Rooftop Unit Replacements
- LED Lighting upgrade**
- Pneumatic Upgrade to DDC
- Window Replacement Test

Project Description Measures Docs & Photos

**\*\* Project name:** LED Lighting upgrade

**\*\* Description:** Installation of (86) 270 Watt modules – 23.62 kW, (3) Itek Theia 4400 inverters and (3) Itek Theia 2900 inverters.

Project mgr: Emma Johnson

Master project: ESCo contract with DES

Facilities: Belle Service Center

Project start: 06/14/2014

Substantial Completion: 08/06/2014

Project end: 08/08/2014

Project cost: \$151,920

Grants & rebates: \$113,982

Net cost: \$37,938

Annual utility savings: \$2,070

Annual maintenance savings: \$0

Annual other savings: \$1,941

Total annual savings: \$4,011

Payback - Utility savings: 18 yrs 3 mths

Payback - Total savings: 9 yrs 5 mths

Project status: **Completed**

**ANNUAL PROJECT UTILITY SAVINGS**

Service	Use Savings	Units	Cost Savings
Electricity	23,000	kWh	\$2,070
<b>All Services</b>			<b>\$2,070</b>

**TOTAL PROJECT UTILITY SAVINGS (17 YEARS 1 MONTH)**

Service	Use Savings	Units	Cost Savings
Electricity	393,070	kWh	\$46,896
<b>All Services</b>			<b>\$46,896</b>

**\*\* Required field**

Save  Cancel  Delete

Export to:

# SET BENCHMARKING TARGETS

Energy Manager – Dude Campus  
**Facility EUI Ranking Chart**

Menu

Level: **\*\* All Facilities \*\***

End date: April 2015

Max count: 20  No max

Proration by: Line Item Dates

Targets: 1. 40 (kBtu/SqFt/Yr)  
 2. 80 (kBtu/SqFt/Yr)  
 3. 160 (kBtu/SqFt/Yr)

Chart colors: **Customize colors**

3D display:

Bar colors:  Use first series color only  
 Alternate bar colors

Rank:  Top  Bottom

Flag missing data  (exclude facilities with missing data)

Facility spec: **None specified**

[Refresh Report](#)



# CALCULATE AVOIDED COSTS

Energy Manager  
Cumulative Avoided Use & Cost Graph

Menu

Level: Single Facility

Facility: Sam Dude Residence ...

Per facility:  (generate a separate report for each facility matching the criteria)

Service: Electricity

Time period: 1 year

Start date: February 2019

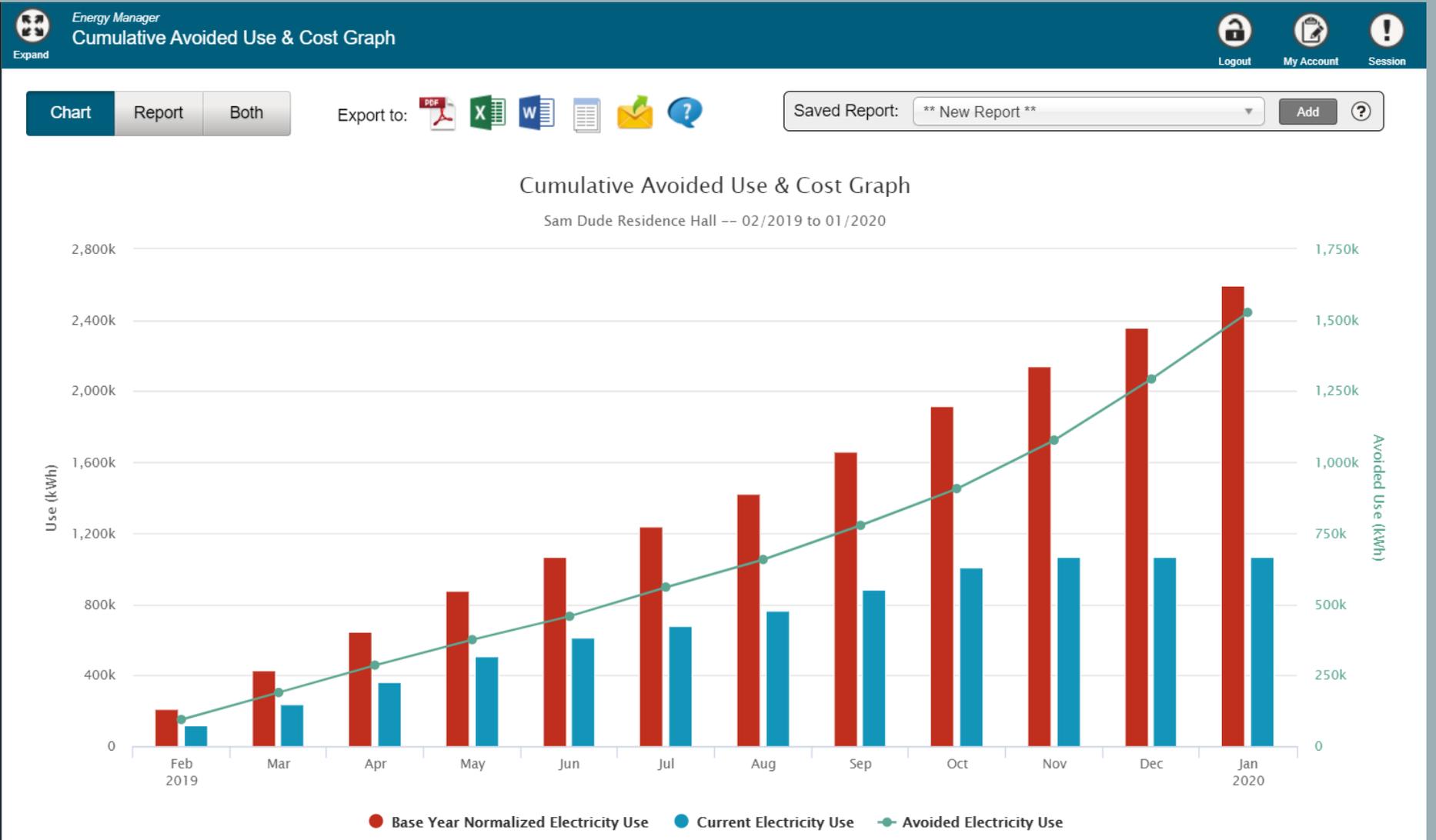
End date: January 2020

Chart colors: [Customize colors](#)

3D display:

Data type:  Avoided use  Avoided cost

[Refresh Report](#)



# TRACK CARBON EMISSIONS

Energy Manager -- Local Government  
CO2 Avoided Emissions Ranking

Menu

Level: All facilities

Service: Electricity

Time period: 1 year

Start date: February 2015

End date: January 2016

[Refresh Report](#)

Energy Manager -- Local Government  
CO2 Avoided Emissions Ranking

Expand

Logout My Account Sessk

Export to:

Saved Report: \*\* New Report \*\* [Add](#)

## CO2 Avoided Emissions Ranking

All Facilities -- 02/2015 to 01/2016 -- Service: Electricity

Display  rows

Search:

Facility	Base Year Normalized CO2 Emissions (Tons)	Current CO2 Emissions (Tons)	Reduced CO2 Emissions (Tons)	% CO2 Emissions Reduced	# of Cars off the Road	# of Trees Planted
City Hall	890	774	117	13.1%	17	583
Downtown Park - Canal - Quailing Pond	85	49	37	42.9%	5	183
Surrey Downs	52	21	31	60.3%	4	157
Davis Slough - Bluberry Farm Bldg	21	5	16	74.5%	2	78
South Bellevue Community Center	57	43	14	24.9%	2	71
Aquatic Center Building	99	85	14	14.3%	2	70
Station 3	28	16	12	43.4%	1	60
Botanical Garden - Shorts Visitor Center	18	9	9	50.4%	1	44
Mt. Garfield Elementary School Buildings	21	13	8	39.5%	1	41
Station 1	30	25	5	16.4%	0	24
Ballet Building	5	1	4	82.5%	0	21
Old Safeway site	12	9	2	20.4%	0	11
Robinswood Park - House,Cabana,Pump	9	7	2	19.0%	0	8
Crossroads Substation OLD	2	0	2	83.2%	0	8
Belle Service Center	161	159	2	1.0%	0	8
Municipal Golf Course - Maint Shop	7	5	2	23.3%	0	7
Station 2	20	19	1	6.3%	0	6
Highland Parks & Community Center	23	21	1	5.1%	0	5
Clear Creek Park Education Barn	7	6	1	14.4%	0	4
Station 5	9	8	1	10.6%	0	4

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# RECORD 15-MIN INTERVAL DATA

Energy Manager -- Dude Campus  
IDR Graphs - Single Meter

Center For Advanced Learning

Period: **Daily** Weekly Monthly

Beginning: December - 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Graph options

Data type: Demand (kW)

Estim. data: Show

Graph type: Line

Weather data: None

Interval: 15-minute

Target base load: 20 (max kW unoccupied)

Date achieved: 10/11/2016

Energy Manager -- Dude Campus  
IDR Graphs - Single Meter

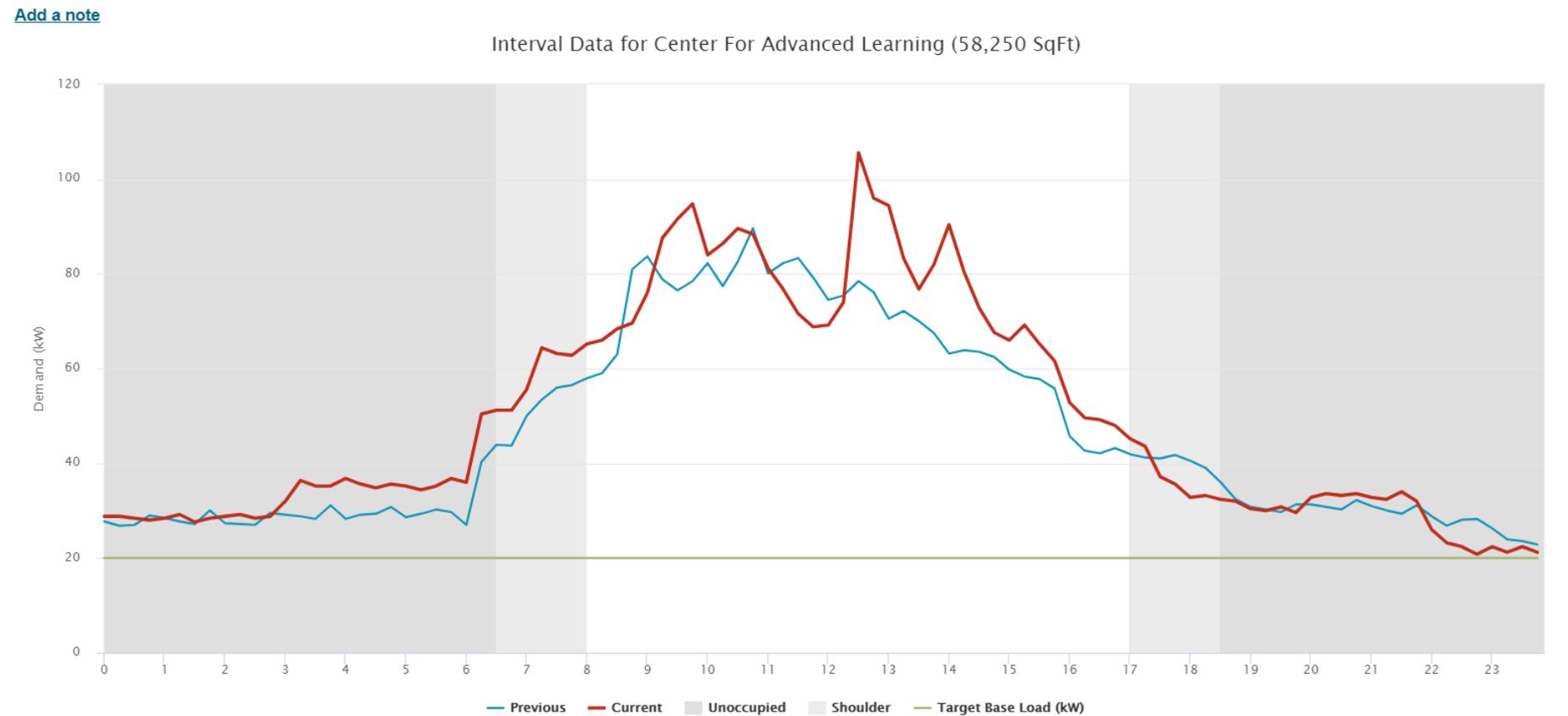
Logout My Account Session

Chart Report Both

Export to: PDF Excel Word Print Mail Help

Calendar Events IDR Alarms

Saved Report: \*\* New Report \*\* Add ?



◀ Wed, 12/09/2015  
1,107 kWh  
High: 59F, Low: 47F

\$10 (87 kWh) lost Vs. Last Year  
\$14 (130 kWh) lost Vs. Target Base Load  
Cost lost based on 11 cents/kWh

Highcharts.com  
Wed, 12/07/2016  
1,194 kWh  
High: 40F, Low: 27F ▶

# MANAGE UTILITY BUDGETS

Energy Manager - DSI Demo  
**YTD Budget Assessment**

Menu

Level:

Facility:

Per facility:  (generate a separate report for each facility matching the criteria)

Services:

- Electricity
- Natural Gas
- Water
- Irrigation
- Wastewater

Budget year:

Include missing:

YTD:

Proration by:

Aggregate data:

[Refresh Report](#)

Energy Manager - DSI Demo  
**YTD Budget Assessment**

Expand

Logout My Account Session

Export to:

Saved Report:  [Add](#)

**YTD Budget Assessment**  
 Aquatic Center Building

Display  rows Search:

Facility	Service	Units	Period	Budgeted Use	Actual/Projected Use	Use % Variance	Budgeted Cost	Actual/Projected Cost	Cost % Variance
Aquatic Center Building	Electricity	kWh	01/2016	55,049	66,768	21.3%	\$5,160	\$6,315	22.4%
			02/2016	49,575	52,022	4.9%	\$4,669	\$5,135	10.0%
			03/2016	51,729	50,985	-1.4%	\$4,826	\$5,093	5.5%
			04/2016	45,525	44,063	-3.2%	\$4,063	\$4,198	3.3%
			05/2016	45,572	43,619	-4.3%	\$3,955	\$4,038	2.1%
			06/2016	42,910	41,068	-4.3%	\$3,711	\$3,740	0.8%
			07/2016	44,890	43,635	-2.8%	\$3,937	\$3,933	-0.1%
			08/2016	38,368	38,368	0.0%	\$3,454	\$3,454	0.0%
			09/2016	31,798	31,798	0.0%	\$2,977	\$2,977	0.0%
			10/2016	45,511	45,511	0.0%	\$4,402	\$4,402	0.0%
			11/2016	50,284	50,284	0.0%	\$4,787	\$4,787	0.0%
			12/2016	55,315	55,315	0.0%	\$5,051	\$5,051	0.0%
	<b>Total</b>			556,526	563,436	1.2%	\$50,994	\$53,123	4.2%
Aquatic Center Building	Natural Gas	Therms	01/2016	5,928	4,362	-26.4%	\$4,774	\$3,026	-36.6%
			02/2016	5,416	3,803	-29.8%	\$4,533	\$2,749	-39.4%
			03/2016	5,606	3,839	-31.5%	\$4,750	\$2,819	-40.6%
			04/2016	4,815	3,116	-35.3%	\$4,151	\$2,410	-41.9%
			05/2016	4,052	2,964	-26.8%	\$3,682	\$2,437	-33.8%
			06/2016	3,302	2,759	-16.5%	\$3,072	\$2,217	-27.8%
			07/2016	2,620	2,453	-6.3%	\$2,604	\$1,830	-29.7%

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# INTUITIVE REPORTING

- ▶ Billing Data
- ▶ ENERGY STAR
- ▼ Interval Data
  - IDR Meters
  - IDR Alarms
  - IDR Graphs - Single Meter
  - IDR Graphs - Meter Aggregation
  - IDR Graphs - Meter Comparison
  - Import Data
  - IDR Data Review
- ▶ Savings Actions
- ▶ Resources
- ▼ Reports & Charts
  - ▶ Use and Cost
  - ▶ ENERGY STAR
  - ▶ Carbon Emissions
  - ▶ Bill Review
  - ▶ Budget Data
  - ▶ Savings Actions
  - ▶ Avoided Cost
  - ▶ Weather Data
  - ▶ Miscellaneous
  - ▶ Custom Reports
  - ▶ Saved Reports

General Stats | Bill Stats | Announcements

<b>General Stats</b>	<b>System Activity</b>
# Facilities: 156	# Users: 18
# Vendors: 6	# User Types: 4
# Accounts: 283	# Logins - Month: 7
# Meters: 797	# Logins - YTD: 203

<b>ENERGY STAR</b>	<b>Resources</b>
Avg. score: 32	# Documents: 27
Lowest score: 0	# Links: 6
Highest score: 98	# News sources: 26
# Qualified(75%): 1	# Blog articles: 0

Quick Links | User Logins | Social Media

**Quick Links** Edit List

- [Historical Average vs. Current](#)
- [Fire Department Chargebacks](#)
- [Facility EUI Ranking Chart](#)
- [Treemap Facility Ranking](#)
- [Year-Over-Year Comparison](#)
- [Side-by-Side Service Graphs](#)
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- [Facility Energy Use Ranking](#)

Energy | Water

**Monthly Energy Use**

Month	Blue Line (MBtu)	Red Line (MBtu)
Apr	6.1k	5.8k
Ma	5.5k	5.4k

Facilities: [All](#) | Apr: