



Energy WorkSite

# Energy Expert

## Getting Started

### Logging In

Access [www.energyworksites.com](http://www.energyworksites.com)

Enter User Name and Password

Select **Energy Expert** from the **Tools** menu

*Note: First time users need to sign up for an account via their Administrator or NorthWrite Customer Service personnel.*

### NorthWrite Energy Expert

[www.energyworksites.com](http://www.energyworksites.com)

#### Customer Support

[customersupport@northwrite.com](mailto:customersupport@northwrite.com)

1-877-743-4232

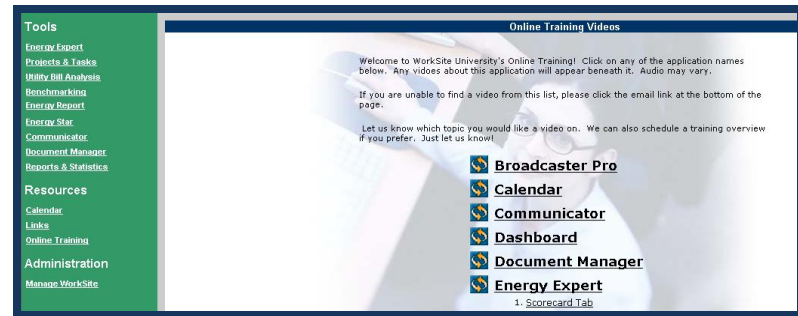
#### Order Information

[sales@northwrite.com](mailto:sales@northwrite.com)

612-238-1054

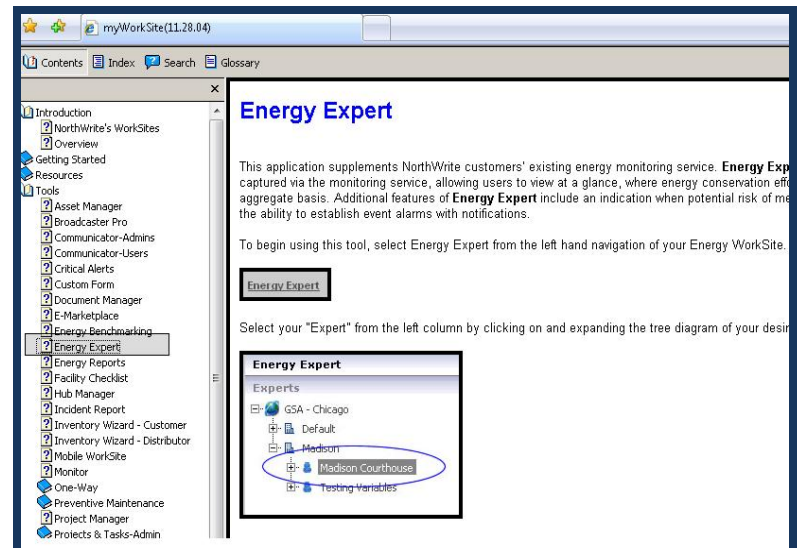
## Need More Help?

### Online Training



A series of videos providing explanation of the various tabs and functionality is available online by clicking on the **Online Training** link from the **Resources** menu.

### Support



#### Online

Use the Help menu at the top right of your WorkSite to access detailed instructions.

Chat online with NorthWrite Customer Support using the **Live Support** link.

#### Email

Send questions or problems to [customersupport@northwrite.com](mailto:customersupport@northwrite.com).

#### Phone

Contact NorthWrite at 1-877-743-4232.

[www.energyworksites.com](http://www.energyworksites.com)

# Using Energy Expert

## Navigating in Energy Expert

Energy Expert Results for: Feb 1, 2009 - Feb 24, 2009

Location/Expert Name	High Demand	Actual Consumption	Expected Consumption	Consumption Δ	Savings (\$)	Low	OK	High
Minneapolis Office Experts: 1	137	49,139	48,134	-1,005	-80	0	23	1
Portland Office Experts: 4	11	3,256	3,053	-203	-16	0	72	0
<b>Totals:</b>		<b>52,395</b>	<b>51,187</b>	<b>-1,209</b>	<b>-97</b>	<b>0</b>	<b>95</b>	<b>1</b>

On the left panel is a tree diagram of each monitored location. If the organization has multiple Energy Experts, an Enterprise Report is the default view on the right panel.

Energy Expert Results for: Feb 1, 2009 - Feb 24, 2009

Location/Expert Name	High Demand	Actual Consumption	Expected Consumption	Consumption Δ	Savings (\$)	Low	OK	High
Minneapolis Office Experts: 1	137	49,139	48,134	-1,005	-80	0	23	1
Demo Energy Expert	137	49,139	48,134	-1,005	-80	0	23	1
Portland Office Experts: 4	11	3,256	3,053	-203	-16	0	72	0
Suite A	11	1,094	1,014	-80	-06	0	24	0
Suite B	06	799	806	07	01	0	24	0
Suite C	07	1,363	1,233	-130	-10	0	24	0
Server Room Sub-meter	NoData							
<b>Totals:</b>		<b>52,395</b>	<b>51,187</b>	<b>-1,209</b>	<b>-97</b>	<b>0</b>	<b>95</b>	<b>1</b>

To hide the left panel, click on the dotted portion of the vertical separation bar.

**Energy Expert** 2/25/2009

Details: ScoreCard | Calendar | Chart | **Reports** | Admin

Enterprise | Daily | Roll-Up

Report Template: Expert Report Per Location | Period Type: This Month | Run Report

1 of 1 | 100% | Find | Next | Select a format | Export

**Energy Expert Results for: Feb 1, 2009 - Feb 24, 2009**

Location/Expert Name	High Demand	Actual Consumption	Expected Consumption	Consumption Δ	Savings (\$)	Low	OK	High
<b>Minneapolis Office Experts: 1</b>	137	49,139	48,134	-1,005	-80	0	23	1
Demo Energy Expert	137	49,139	48,134	-1,005	-80	0	23	1
<b>Portland Office Experts: 4</b>	11	3,256	3,053	-203	-16	0	72	0
Suite A	11	1,094	1,014	-80	-06	0	24	0
Suite B	06	799	806	07	01	0	24	0
Suite C	07	1,363	1,233	-130	-10	0	24	0
Server Room Sub-meter	NoData							
<b>Totals:</b>		52,395	51,187	-1,209	-97	0	95	1

Page 1

To view details of a specific Energy Expert, click on the Expert name in the location diagram or within the Enterprise Report summary.

**Energy Expert**

Details: ScoreCard | Calendar | Chart | Reports | Admin

**Energy Expert ScoreCard for : Suite B**

Date: 2/24/2009

February 2009

12 AM 1 2 3 4 5 | Sun Mon Tue Wed Thu Fri Sat | 4 5 6 7 8 9 10 11 12

46 °F

Calculated Savings / (Cost)

Tue 8 9 10 11 12 13 14

Prior 30 Days: \$ 0

Year-To-Date: (\$ 3)  
Prior 12 Months: (\$ 2)

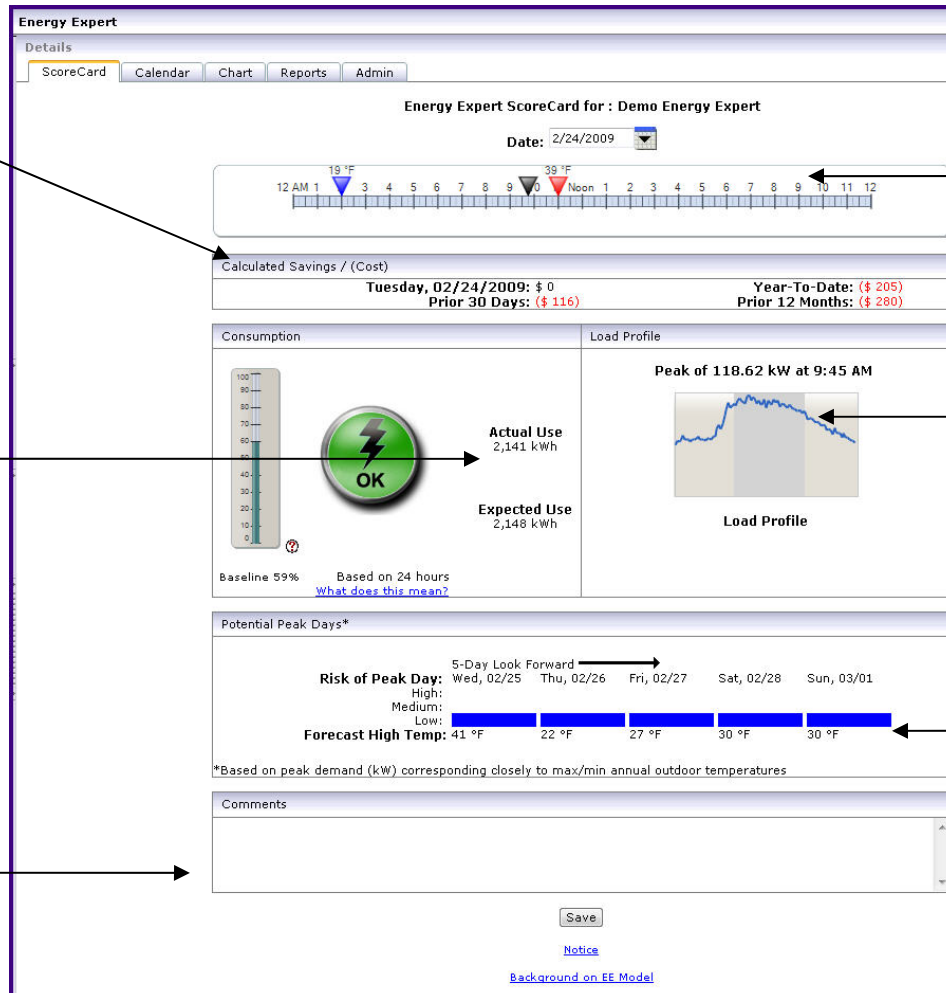
To select an alternate date to review, click on the calendar icon and select the month and day.

## Energy Expert Scorecard Tab

Calculated energy savings/costs for the day and cumulative days

Actual and expected consumption values with corresponding color-coded box indicating high, low, or within expected range of energy consumption

Comments box for recording explanation of data



Timeline at the top of the screen indicates when high/low temps occurred and when the peak electric demand occurred

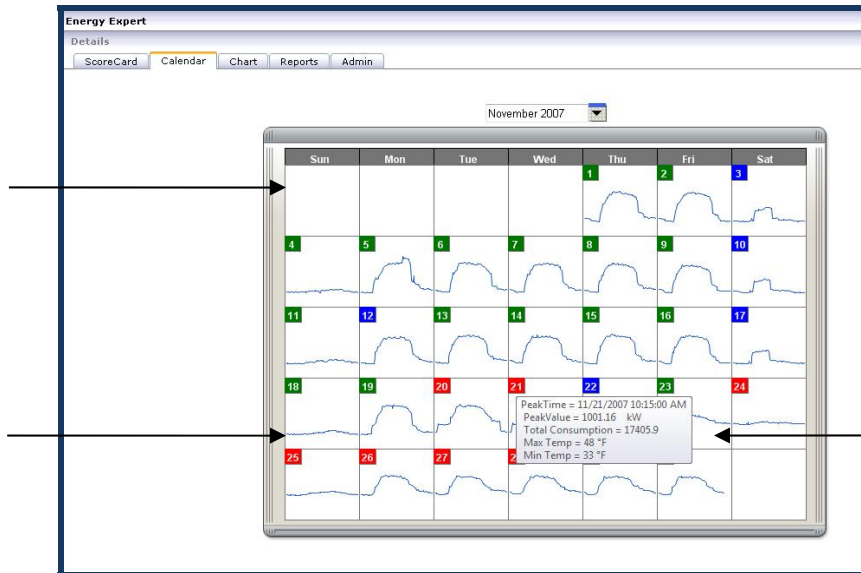
Graph of energy demand over time with shaded area representing building occupancy

Five day forecast predicting potential for peak consumption days

## Energy Expert Calendar Tab

Summary of load profiles recorded for selected month; dates are color coded according to energy consumption levels as provided on the Scorecard tab

Clicking on a particular date in the calendar navigates the user to the Chart tab for that day



Upon rollover, daily statistics appear providing peak time, peak value, total consumption and max/min temps.

## Energy Expert Chart Tab

### Load Profile Sub-Tab

Load Profile sub-tab is the default view on Chart tab

Compare the day's electric demand (kW) profile to selected historical data such as weekday/weekend average; prior week(s) demand and recorded temps

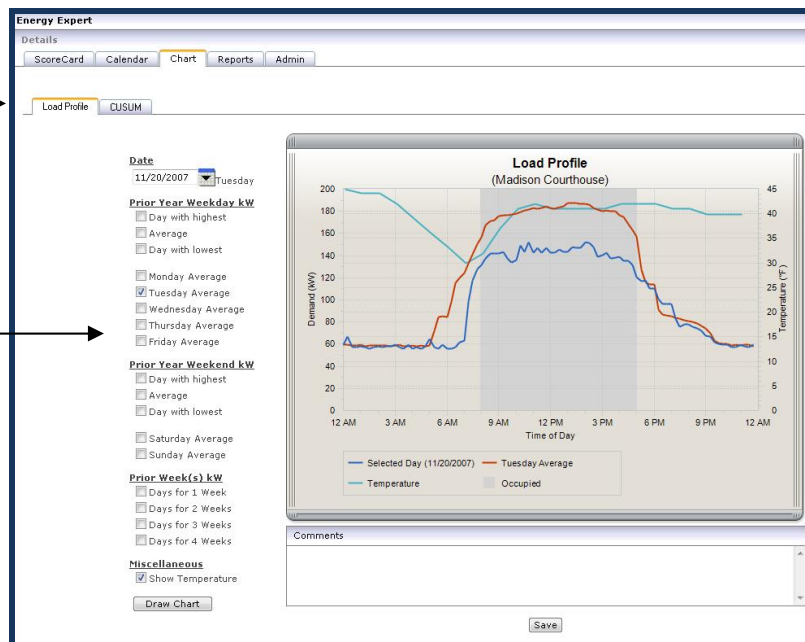


Chart with color-coded load profiles allows for analysis of a building's energy demand over time

### CUSUM Sub-Tab

Select the start and end dates to include in energy and cost savings calculations

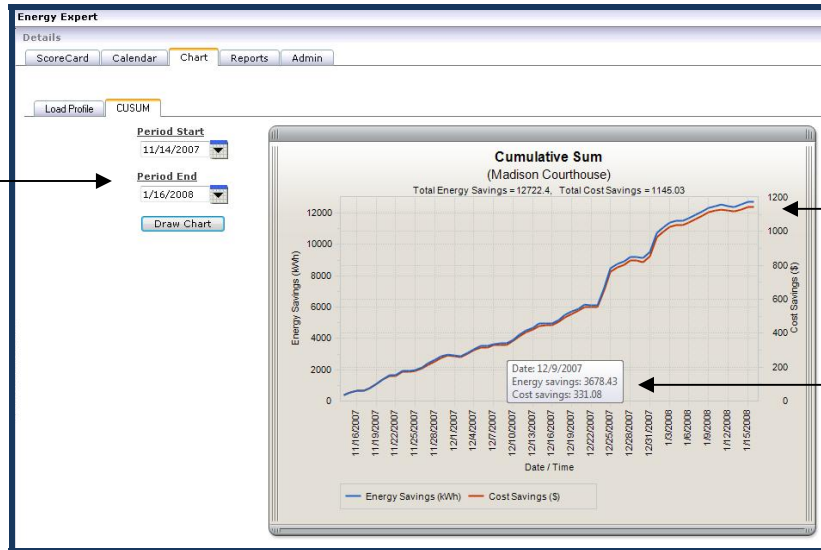


Chart shows energy savings in blue and cost savings in red with cumulative totals at the top of the chart

Upon rollover of any point on the graph, the date, energy savings and cost savings are displayed

### Energy Expert Reports Tab

#### Daily Sub-Tab

Daily sub-tab is default view on Reports tab

Weather data; high/low temps and time of day recorded

Summary of current and cumulative financial data

Status summary of Energy Savings Measures (ESM) implemented

**Energy Expert: Madison Courthouse**  
Date: 11/20/2007

Weather	
Weather Station :	(KMSN)
Maximum Outdoor Temperature :	44 °F @ 12:06 AM
Minimum Outdoor Temperature :	30 °F @ 07:06 AM

Financial*	
Blended Electric Rate :	\$0.09
Saving/Cost 11/20/2007 :	\$26.03
Saving/Cost Last 30 days :	\$583.76
Saving/Cost Year to Date :	\$830.12
Saving/Cost Last 12 Months :	\$830.12
Saving/Aggregate :	\$0

\*Costs are represented in parenthesis

Electric Demand	
Peak Demand :	152.4 kW Time: 02:00 PM Date: November 20, 2007 Type: Tuesday
Prior 30-Days Peak :	204 kW Time: 11:30 AM Date: October 31, 2007 Type: Wednesday
Prior 12-Months Peak :	260 kW Time: 02:00 PM Date: September 04, 2007 Type: Tuesday
Year-To-Date Peak :	980 kW Time: 02:00 PM Date: July 13, 2005 Type: Wednesday

Electric Consumption (Daily):	
Total Consumption :	2344.3 kWh Date: November 20, 2007 Type: Tuesday
Max Prior 30-Days :	2682.7 kWh Date: October 30, 2007 Type: Tuesday
Max Prior 12-Months :	3665.4 kWh Date: July 30, 2007 Type: Monday
Max Year to Date :	4504.9 kWh Date: July 18, 2005 Type: Monday
Prior 30-Day Average :	2084.16 kWh
Prior 12-Month Average :	2373.22 kWh
Max Year-to-Date Average :	2534.25 kWh

Energy Savings Measures (ESM)		#	Estimated
Completed - Prior 30 Days :	0		
- Last 30 Day Savings Percentage :	0%		
- Last 30 Day Savings Consumption :			
Completed - Prior 12 Months :	0		
- Prior 12 Months Savings Percentage :	0%		
- Prior 12 Months Savings Consumption :			
Completed - Year to Date :	0		
- Year to Date Savings Percentage :	0%		
- Year to Date Savings Consumption :			
Completed - Aggregate :	0		
- Aggregate Savings Consumption :			
Total - Open :	0		
Total - Open Past Due :	0		

Current and historical peak electric demand values with corresponding time/day recorded

Current and historical electric consumption values with corresponding day recorded

### Roll-Up Sub-Tab

Select date range to include in report

Select variables for report customization

Results of report query; shown here: days within date range recording high usage

The screenshot shows the 'Energy Expert' interface with the 'RollUp' sub-tab selected. The 'Choose Date Range' is set from 8/1/2007 to 12/13/2007. Under 'Show the following', 'Days with high usage' is checked. The table below displays the results of the query:

EE Result	Date	Savings/Cost (\$)	Δ Consumption (k-Wh)	ESM(s) Closed	Comments	Edit Comments
High	09/04/2007	\$33.79	375.4			Edit
High	08/13/2007	\$33.99	377.7			Edit
High	08/12/2007	\$27.13	301.5		Document the cause of the peak load between 4:30 - 6:30 AM on a Sunday	Edit
High	08/11/2007	\$26.01	289.0		enter the reason for the peak usage between 4 and 6 AM on Saturday's	Edit
High	08/07/2007	\$22.8	253.4			Edit
High	08/03/2007	\$31.9	354.5			Edit
High	08/02/2007	\$47.26	525.1			Edit
High	08/01/2007	\$20.98	233.1			Edit

Edit link allows adding/editing comments to multiple days

### Energy Expert Admin Tab\*

\* NorthWrite Support or your Service Provider can assist you in setting up this portion of Energy Expert.

### Normal Schedule Sub-Tab

Normal Schedule sub-tab is default view on Admin tab

The screenshot shows the 'Energy Expert' Admin tab with the 'Normal Schedule' sub-tab selected. It features a weekly schedule grid with days of the week on the y-axis and time of day on the x-axis. The grid shows occupancy bars for each day, with a 'Save/Chart' button below it.

Enter time of day building is open/closed each day of the week

Graph displays normal building occupancy schedule for the week

## Exception Schedule Sub-Tab

Click on days throughout the year that the Normal Schedule for the building does not apply

## Edit Expert Sub-Tab

Edit Energy Expert variables such as baseline period, blended energy rate, cost deviation and demand/consumption alarm thresholds