

# E-Mon D-Mon<sup>®</sup>

## Web-Mon Screen Reference Guide



# Screen Reference

The screenshot shows the E-Mon D-Mon web application interface. At the top, there is a navigation bar with five items: Home, Health, Charts, Total Emissions Dashboard, and Setup. Below this is a banner for E-Mon D-Mon with the tagline "Leading the industry for over 25 years." Underneath the banner is a table of meters with columns for Meter {status}, Address, Live Demand, Peak Demand Today, and Consumption Today. Below the table is contact information for E-Mon, including address, phone numbers, and email. At the bottom of the page is a footer with "E-Mon | Logout".

Click any row to view the meter dashboard

Meter {status}	Address	Live Demand	Peak Demand Today	Consumption Today
MAIN POWER PANEL "P" {ok}	1A1	22.32	22.7	131.11
HVAC PANEL "P" {ok}	1B1	8.76	6.2	21.15
LIGHTING PANEL "B" {ok}	0A1	5.59	4.9	20.62
LIGHTING PANEL "A" {ok}	0A2	4.47	3.6	12.91
HOT WATER HEATER PANEL "A" {ok}	0A3	4.49	1.5	2.97

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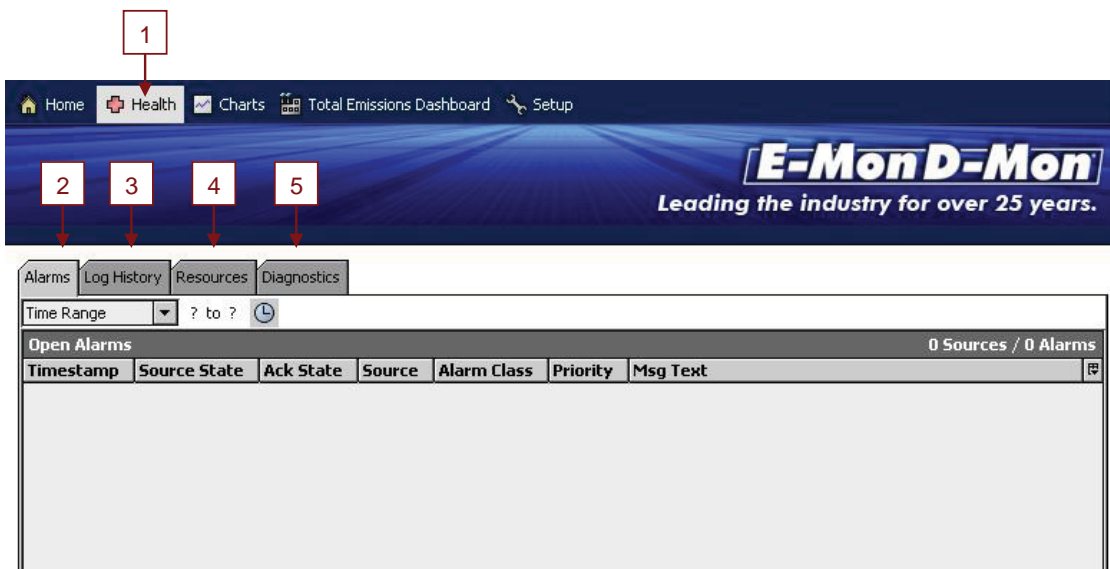
E-Mon | Logout

1. Home — Link to this page.
2. Health — Link to health and diagnostics. This link will blink when there are open alarms.
3. Charts — Link to comparison charts.
4. Total Emissions Dashboard — Link to the emissions dashboard for all meters in system.
5. Setup — Link to the setup screen. Only available to administrative users.
6. Meter title — Each row represents a meter and links to a meter dashboard. This column displays the title and status of the meter. The following are possible status values:
  - a. OK — The meter has no problems.
  - b. Fault — There is an error condition.
  - c. Disabled — The meter has been disabled in this application.

- d. Down — Communications with the meter are down.
  - e. Alarm / Unacked Alarm — The meter has an alarm on the alarm console. Unacked means an alarm is unacknowledged.
7. Address — The E-Mon address of the meter.
  8. Live Demand — The approximate real time demand.
  9. Peak Demand Today — The peak demand of the day.
  10. Consumption Today — Total consumption for the day.

## Health

The Health page provides information that can be used to diagnose problems with your Web-Mon.



1. Health — The health link will blink with red text when there are open alarms. An alarm is “open” if it is unacknowledged or is still in an abnormal state.
2. Alarms — The alarm console.
3. Log History — The system event log.
4. Resource — Resource utilization such as memory and CPU.
5. Diagnostics — Information about integrated hardware such as IO Modules and meters.

## Alarms

The alarm console allows you to view everything that is, or was an abnormal condition. The main intent of the page is to alert you to the fact that something is wrong. All you need to do on this page is acknowledge alarms to close them out.

Each row represents the most recent alarm from a single source. If there are multiple alarms for a single source, double clicking the row will show all of the alarms. Double clicking a single alarm will then show more details about a specific alarm.

The screenshot shows the Alarms console interface. At the top, there are tabs for Alarms, Log History, Resources, and Diagnostics. The Alarms tab is selected. Below the tabs, there is a header for 'Open Alarms' with a sub-header '5 Sources / 500 Alarms'. The main area contains a table with the following columns: Timestamp, Source State, Ack State, Source, Alarm Class, Priority, and Msg Text. The table lists five alarms, each with a green icon (normal state) or a red icon (abnormal state). Below the table, there are seven numbered callouts (4-10) pointing to the Source State column. At the bottom, there are five numbered callouts (11-15) pointing to the Acknowledge, Hyperlink, Notes, Silence, and Filter buttons.

Timestamp	Source State	Ack State	Source	Alarm Class	Priority	Msg Text
16-Feb-09 2:40:55 PM PST	Normal	0 Acked / 496 Unacked	Class 3000 1A	defaultAlarmClass	255	Ping Success
16-Feb-09 3:07:30 PM PST	Offnormal	0 Acked / 1 Unacked	IO Board 4	defaultAlarmClass	255	Ping Fail
16-Feb-09 3:07:29 PM PST	Offnormal	0 Acked / 1 Unacked	IO Board 3	defaultAlarmClass	255	Ping Fail
16-Feb-09 3:07:27 PM PST	Offnormal	0 Acked / 1 Unacked	IO Board 2	defaultAlarmClass	255	Ping Fail
16-Feb-09 3:07:24 PM PST	Offnormal	0 Acked / 1 Unacked	IO Board 1	defaultAlarmClass	255	Ping Fail

1. Alarms — The alarm console is accessible on the Alarms tab on the Health page.
2. Green Icon — The alarm source has returned to a normal state.
3. Red Icon — The alarm is in an abnormal state.

4. **Timestamp** — The time the alarm was created. If a row represents multiple alarms, it is the time of the most recent alarm.
5. **Source State** — Whether or not the alarm source has returned to a normal state.
6. **Ack State** — How many alarms have been acknowledged, or not, for the alarm source.
7. **Source** — The source of the alarm.
8. **Alarm Class** — At this time, only default Alarm Class is used.
9. **Priority** — This will always be 255.
10. **Msg Text** — Description of the most recent alarm in the row.
11. **Acknowledge Button** — Use this to acknowledge alarms. Acknowledged alarms will remain in the alarm console if they are still in an abnormal condition.
12. **Hyperlink Button** — Always disabled at this time.
13. **Notes** — Notes can be added to alarms.
14. **Silence** — Silences continuous sounding alarms. This application does not have any at this time.
15. **Filter** — Can be used to clear up the console, but shouldn't be necessary at this time.

## Log History

The log history table contains significant events which could be useful when trouble shooting problems.

Alarms
Log History
Resources
Diagnostics

Double-click a row for detailed information.

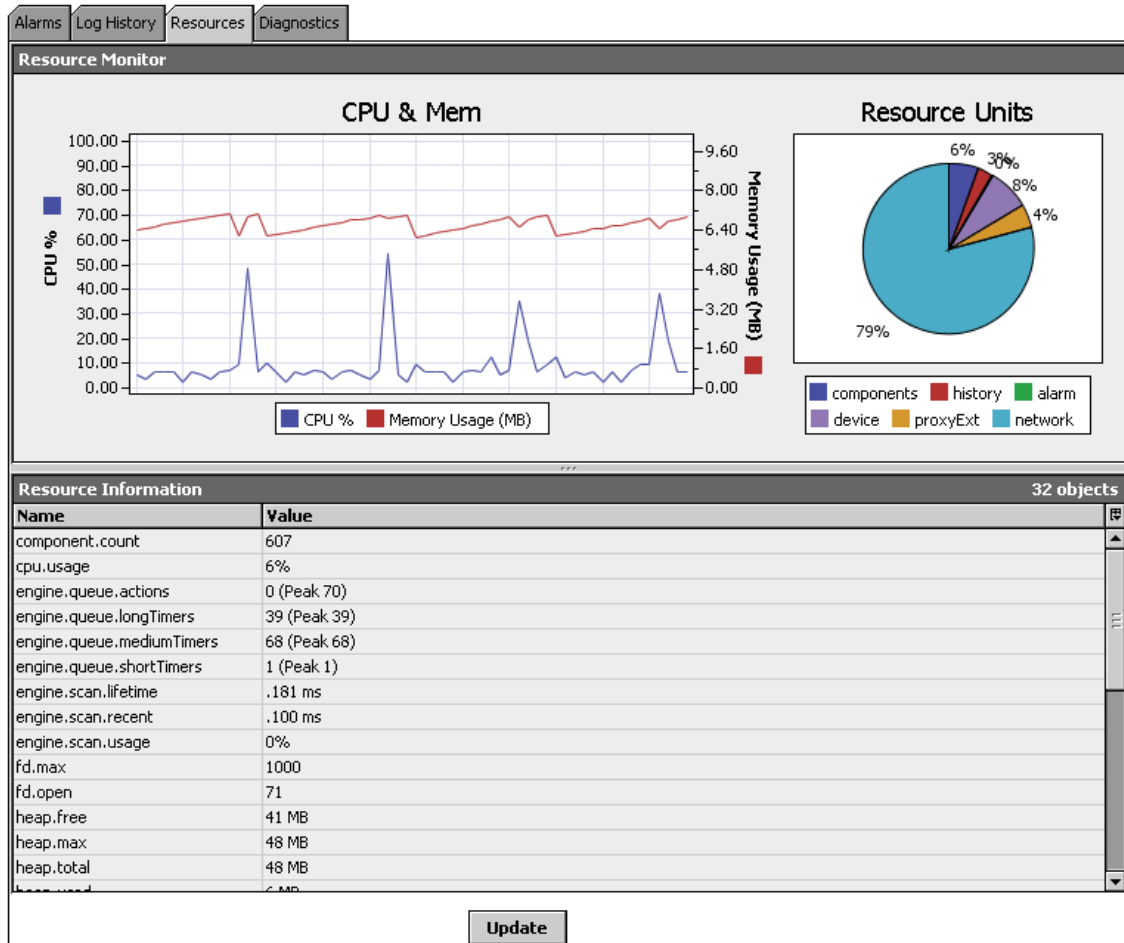
If there are problems with the application, the log history table may contains clues about the problem.

Time Range
05-Feb-09 7:18 AM PST to ?

/WebMon/LogHistory				473 records
Timestamp	Log Name	Severity	Message	
15-Feb-09 2:42:29 PM PST	sys	1	Saving station...	
15-Feb-09 2:42:32 PM PST	history.db	1	Saved history archive (1211ms)	
15-Feb-09 2:42:33 PM PST	sys	1	Saved /ffs0/niagara/stations/WebMon/config.bog (4651ms)	
16-Feb-09 9:10:50 AM PST	console	1	Quit	
16-Feb-09 9:10:50 AM PST	sys	1	Saving station...	
16-Feb-09 9:14:12 AM PST	ndio	3	Unable to init ndio device at ioPort <1>	
16-Feb-09 9:14:13 AM PST	ndio	3	Unable to init ndio device at ioPort <2>	
16-Feb-09 9:14:14 AM PST	ndio	3	Unable to init ndio device at ioPort <3>	
16-Feb-09 9:14:14 AM PST	ndio	3	Unable to init ndio device at ioPort <4>	
16-Feb-09 9:14:16 AM PST	web.server	1	HTTP Server started on port 80	
16-Feb-09 9:14:17 AM PST	fox	1	Service started on port 1911	
16-Feb-09 9:14:17 AM PST	sys	1	nre.version: 3.4.43	
16-Feb-09 9:14:17 AM PST	sys	1	*** Station Started (9074ms) [103650ms total] ***	
16-Feb-09 9:20:09 AM PST	fox	2	Closing session [0: Server 71.140.196.97:2684 doesn't match opened session [null]]	
16-Feb-09 9:20:11 AM PST	fox	1	Opened: 1 <- 3 :: Workbench [admin] @ CONTROLCO-30	
16-Feb-09 9:51:47 AM PST	console	1	Quit	
16-Feb-09 9:51:47 AM PST	sys	1	Saving station...	
16-Feb-09 9:53:55 AM PST	ndio	3	Unable to init ndio device at ioPort <1>	
16-Feb-09 9:53:56 AM PST	ndio	3	Unable to init ndio device at ioPort <2>	
16-Feb-09 9:53:56 AM PST	ndio	3	Unable to init ndio device at ioPort <3>	
16-Feb-09 9:53:56 AM PST	ndio	3	Unable to init ndio device at ioPort <4>	
16-Feb-09 9:53:59 AM PST	web.server	1	HTTP Server started on port 80	
16-Feb-09 9:53:59 AM PST	fox	1	Service started on port 1911	
16-Feb-09 9:54:00 AM PST	sys	1	nre.version: 3.4.43	
16-Feb-09 9:54:00 AM PST	sys	1	*** Station Started (9457ms) [76445ms total] ***	
16-Feb-09 9:59:47 AM PST	fox	2	Closing session [0: Server 71.140.196.97:3135 doesn't match opened session [null]]	
16-Feb-09 9:59:49 AM PST	fox	1	Opened: 1 <- 5 :: Workbench [admin] @ CONTROLCO-30	

## Resources

This tab displays information such as CPU and memory utilization.



## Diagnostics

This tab displays the status of integrated hardware such as meters and IO modules.

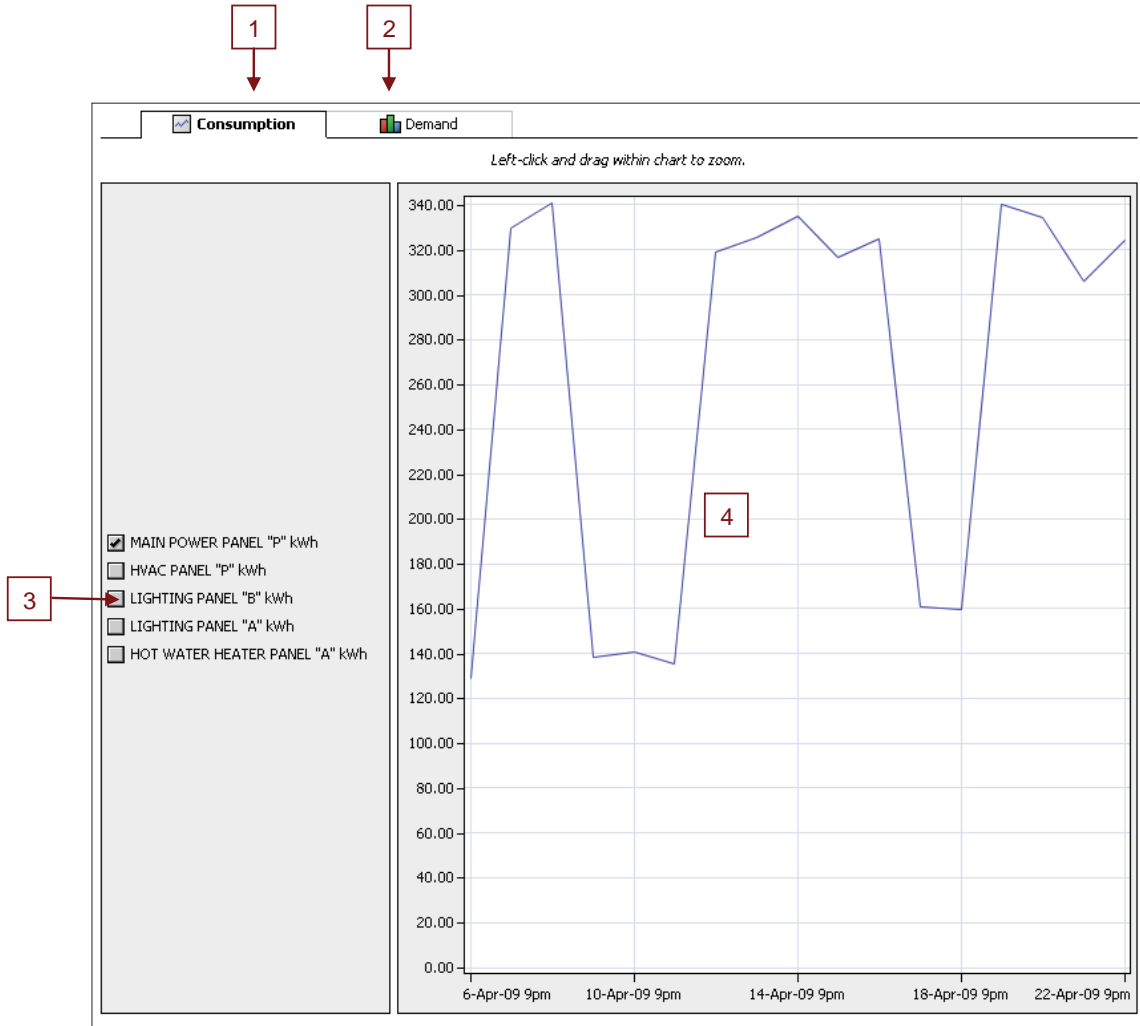
The screenshot shows a web interface with a navigation bar at the top containing 'Alarms', 'Log History', 'Resources', and 'Diagnostics'. The 'Diagnostics' tab is active, displaying a list of hardware components and their status. Each component has a title bar and a table of details.

Component	Status	Other Details
EZ-7 Serial Network	{ok}	Last Ping OK: 16-Feb-09 11:13 AM PST; Last Ping Fail: 13-Nov-08 11:08 AM PST; Last Ping Fail Cause: java.lang.NullPointerException; Serial Port: COM2; Serial Port Status: {ok}
Meter 1A	{ok}	Last Ping OK: 16-Feb-09 11:13 AM PST; Last Ping Fail: 16-Feb-09 3:08 AM PST; Last Ping Fail Cause: No response for 1A*.RL
IO Network	{disabled}	Last Ping OK: null; Last Ping Fail: null; Last Ping Fail Cause: null
IO Board 1	{disabled}	Last Ping OK: null; Last Ping Fail: null; Last Ping Fail Cause: null
IO Board 2	{disabled}	Last Ping OK: null; Last Ping Fail: null; Last Ping Fail Cause: null

# Charts

## Consumption

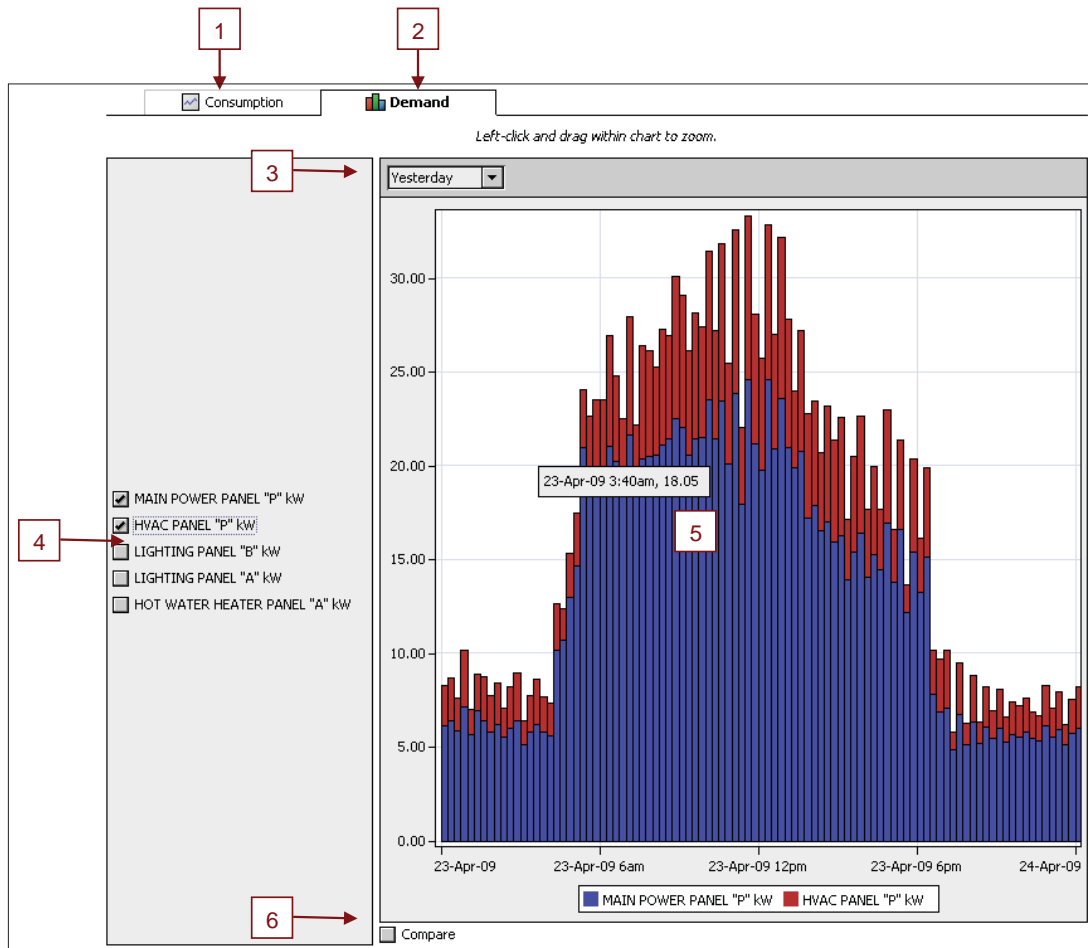
This chart allows you to compare the daily consumption of selected or all meters. The chart shows all data available; left-click within the chart to zoom.



1. Consumption — The current page.
2. Demand — Links to demand comparison chart.
3. Meters — Check or uncheck meters to draw them on the chart. The consumption units are added to the meter title.
4. Chart — Left-click and drag to zoom in the chart.

## Demand

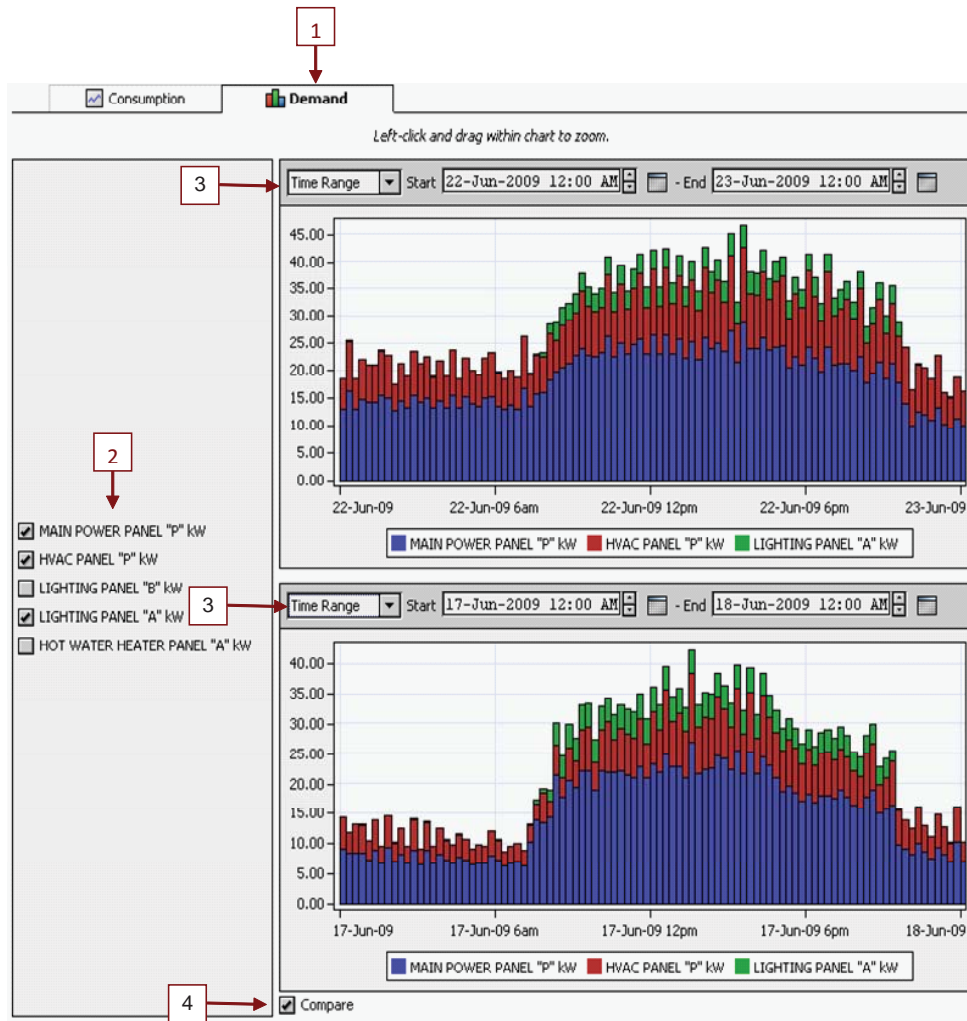
This chart allows you to view demand of one meter or coincidental demand for multiple meters.



1. Consumption — Links to the consumption comparison chart.
2. Demand — The current page.
3. Time Range — Many time range options are available in this drop down.
4. Meters — Check or uncheck meters to include them on the chart. The demand units are added to the meter title.
5. Chart — Left-click and drag to zoom in the chart.
6. Compare — Checking this will display another chart allowing you to compare the same set of meters, but for different time range.

## Demand Cont'd

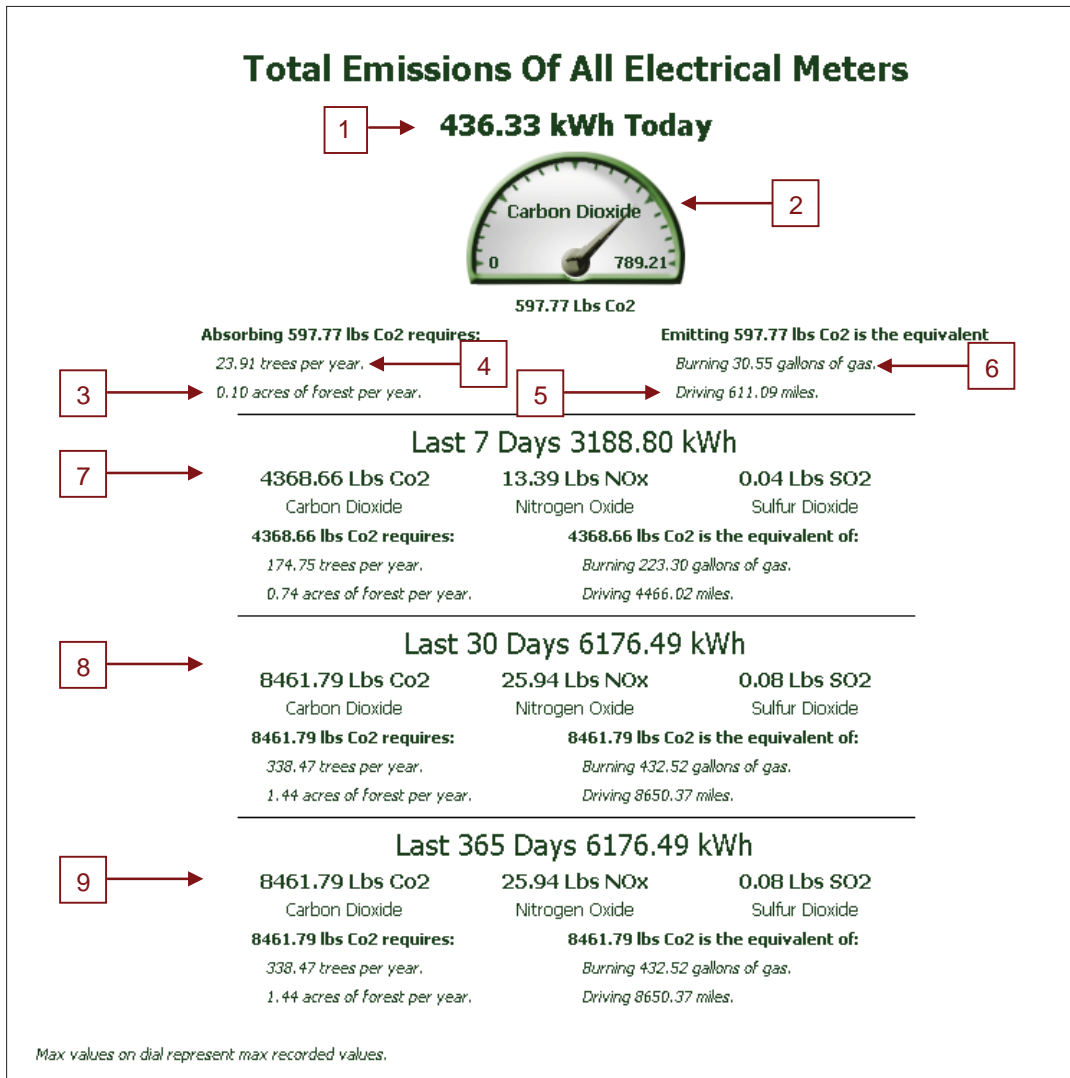
Checking the compare box at the bottom of the demand chart screen will display two charts allowing you to compare the same set of meters but for different time ranges.



1. Demand — The current page.
2. Meters — Check or uncheck meters to include them on the chart.
3. Time Range — Many time range options are available in the drop down.
4. Compare — Checking this will allow you to compare the same set of meters but for different time ranges.

## Total Carbon Footprint Emissions

This page allows you to view the environment impact of all the electrical meters being monitored by Web-Mon.

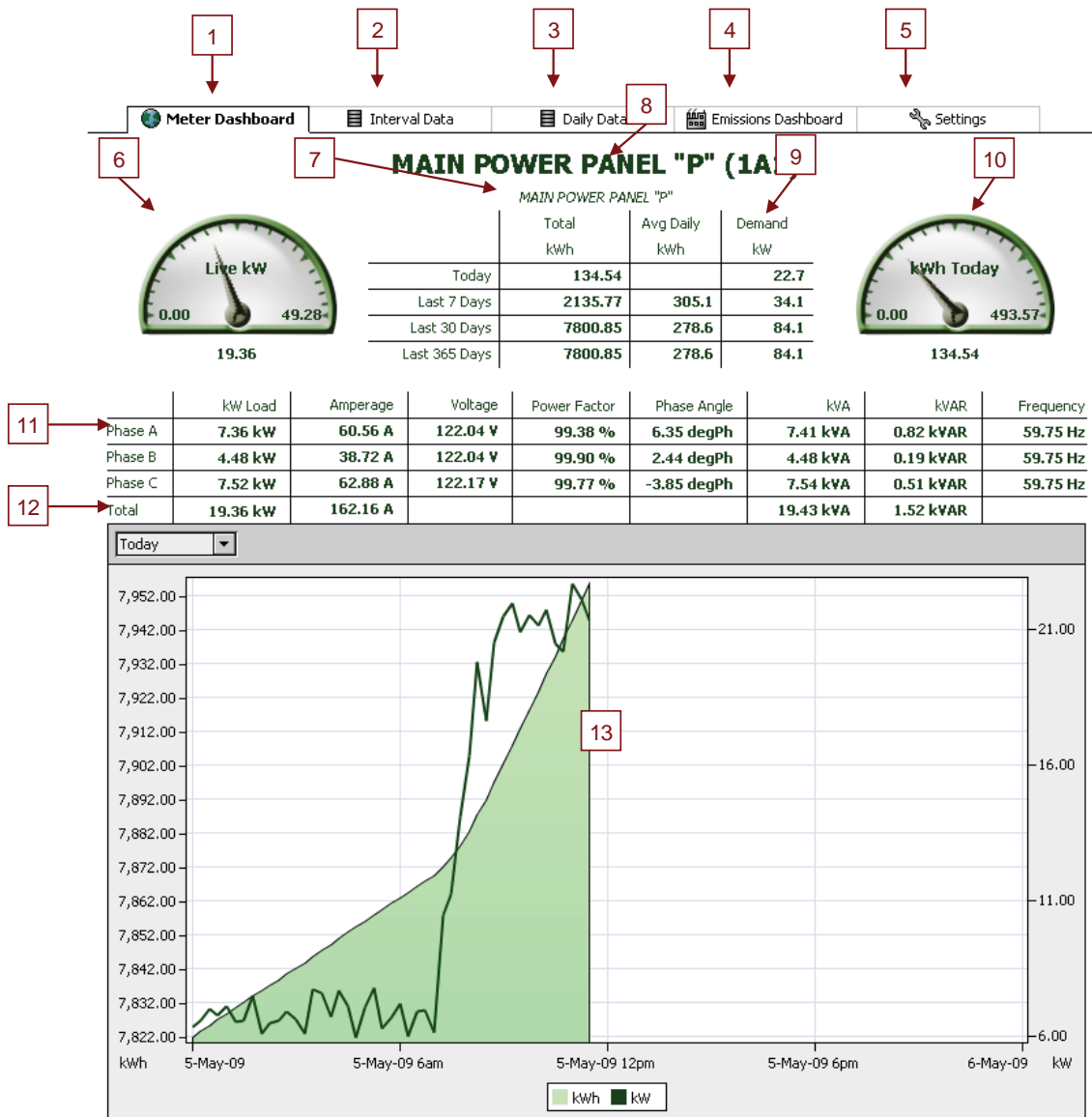


1. kWh Today — Consumption of all electric meters for the current day. Meters not designated as “electric” in their setup screen are ignored.
2. Carbon Dioxide Dial — The equivalent Carbon Dioxide emissions for the day. The max value represents the max value ever recorded. Right click on the max value to reset it.
3. Forest Acres — Acres of forest required to absorb the Carbon Dioxide in one year.
4. Trees — Number of trees required to absorb the Carbon Dioxide in one year.

5. Driven Miles — The Carbon Dioxide emissions are the equivalent to driving this number of miles.
6. Gallons of Gas — The Carbon Dioxide emissions are the equivalent to burning this number of gallons of gas.
7. Last 7 Days — The emissions statistics for the consumption of only the electric meters for the last seven days, not including the current day.
8. Last 30 Days — The emissions statistics for the consumption of only the electric meters for the last thirty days, not including the current day.
9. Last 365 Days — The emissions statistics for the consumption of only the electric meters for the last three hundred and sixty five days, not including the current day.

## Meter Dashboard

This page provides a snapshot view of a single meter in both tabular and graphic formats. To view a meter dashboard, go to the Home page and click the desired meter to view.



1. Meter Dashboard — This page.
2. Interval Data — Link to 15 minute interval data table.

3. Daily Data — Link to daily data table.
4. Emissions Dashboard — Link to the emissions data for the specific meter. Only available for electrical meters.
5. Settings — Link to settings page for the meter. Only available to admin level users.
6. Demand Dial — Real-time demand of the meter. The max value is the max ever recorded. Right-click the max value to reset it.
7. Description — On the settings page, this is the description field of the meter.
8. Meter Title — This is the title field from the meter setup page. The E-Mon address of the meter is automatically appended in parentheses.
9. Statistics Table — The “Last X Days” do not include the current day. The Demand column is the peak 15 minute average.
10. Consumption Dial — Daily consumption of the meter. The max value is the max ever recorded. Right-click the max value to reset it.
11. Meter Power Quality Table — Additional data available only to Class 3000, Class 5000 and V-Class meters.
12. Time Period — Many standard time period options are available along with user defined options in this drop down. The difference between the “previous” and “current” options is that current includes the current day; previous does not.
13. Chart — Consumption is represented by the shaded area. Demand is represented by the line.

## Interval Data

This page displays a table of 15 minute interval records containing the demand, consumption and VARH (when applicable). The time range of the table is customizable and the data can be exported in a variety of formats.

The screenshot shows the 'Interval Data' page for 'MAIN POWER PANEL "P" (1A1)'. The page features a navigation bar with tabs for 'Meter Dashboard', 'Interval Data', 'Daily Data', 'Emissions Dashboard', and 'Settings'. Below the navigation bar, the main title 'MAIN POWER PANEL "P" (1A1)' is displayed, followed by a sub-title 'MAIN POWER PANEL "P"'. A date selector is set to 'Today'. The main content is a table with 47 records, showing columns for 'Timestamp', 'Demand', 'Consumption', and 'Varh'. The table data is as follows:

Timestamp	Demand	Consumption	Varh
05-May-09 12:00:00 AM EDT	6.31	7821.81	994.04
05-May-09 12:15:00 AM EDT	6.59	7823.46	994.18
05-May-09 12:30:00 AM EDT	7.02	7825.21	994.35
05-May-09 12:45:00 AM EDT	6.75	7826.90	994.49
05-May-09 1:00:00 AM EDT	7.11	7828.68	994.66
05-May-09 1:15:00 AM EDT	6.53	7830.31	994.79
05-May-09 1:30:00 AM EDT	6.58	7831.96	994.91
05-May-09 1:45:00 AM EDT	7.47	7833.82	995.13
05-May-09 2:00:00 AM EDT	6.11	7835.35	995.21
05-May-09 2:15:00 AM EDT	6.47	7836.97	995.34
05-May-09 2:30:00 AM EDT	6.59	7838.62	995.46
05-May-09 2:45:00 AM EDT	6.92	7840.35	995.62
05-May-09 3:00:00 AM EDT	6.61	7842.00	995.75
05-May-09 3:15:00 AM EDT	6.08	7843.52	995.83
05-May-09 3:30:00 AM EDT	7.72	7845.45	996.09
05-May-09 3:45:00 AM EDT	7.58	7847.34	996.36
05-May-09 4:00:00 AM EDT	6.72	7849.02	996.57
05-May-09 4:15:00 AM EDT	7.67	7850.94	996.82
05-May-09 4:30:00 AM EDT	7.08	7852.71	997.01
05-May-09 4:45:00 AM EDT	5.97	7854.20	997.09
05-May-09 5:00:00 AM EDT	7.03	7855.96	997.25
05-May-09 5:15:00 AM EDT	7.77	7857.90	997.42
05-May-09 5:30:00 AM EDT	6.27	7859.47	997.52
05-May-09 5:45:00 AM EDT	6.67	7861.14	997.65
05-May-09 6:00:00 AM EDT	7.20	7862.94	997.84
05-May-09 6:15:00 AM EDT	6.02	7864.44	997.94
05-May-09 6:30:00 AM EDT	6.89	7866.16	998.11
05-May-09 6:45:00 AM EDT	6.97	7867.91	998.29
05-May-09 7:00:00 AM EDT	6.14	7869.44	998.39
05-May-09 7:15:00 AM EDT	10.45	7872.05	998.53
05-May-09 7:30:00 AM EDT	11.25	7874.87	998.68
05-May-09 7:45:00 AM EDT	14.08	7878.39	998.86
05-May-09 8:00:00 AM EDT	16.33	7882.47	999.18
05-May-09 8:15:00 AM EDT	19.81	7887.42	999.53
05-May-09 8:30:00 AM EDT	17.64	7891.83	999.73
05-May-09 8:45:00 AM EDT	20.53	7896.96	1000.01

1. Meter Dashboard — Link to the meter dashboard.
2. Interval Data — Table of 15 minute interval data.
3. Daily Data — Link to daily data table.
4. Emissions Dashboard — Link to the emissions data for the specific meter. Only available for electrical meters.
5. Settings — Link to settings page for the meter. Only available to admin level users.
6. Time Period — Many standard time period options are available along with user defined options in this drop down. The difference between the “previous” and “current” options is that current includes the current day; previous does not.
7. Meter Description — This is the description field from the meter setup page.
8. Meter Title — This is the title field from the meter setup page. The E-Mon address of the meter is automatically appended in parentheses.
9. Table Export — This button gives you the option to export the table in various formats.
10. Data Table — 15 minute interval data. The VARH column only has values for Class 3000, 5000 and V-Class meters.

## Daily Data

This page displays a table of daily records containing the total consumption of each day, the peak demand and the timestamp of the peak demand. The time range of the table is customizable and the data can be exported in a variety of formats.

**MAIN POWER PANEL "P" (1A1)**

MAIN POWER PANEL "P"

Time Range: 07-Apr-09 12:00 AM EDT to ?

/WebMon/Daily\_1A1 28 records

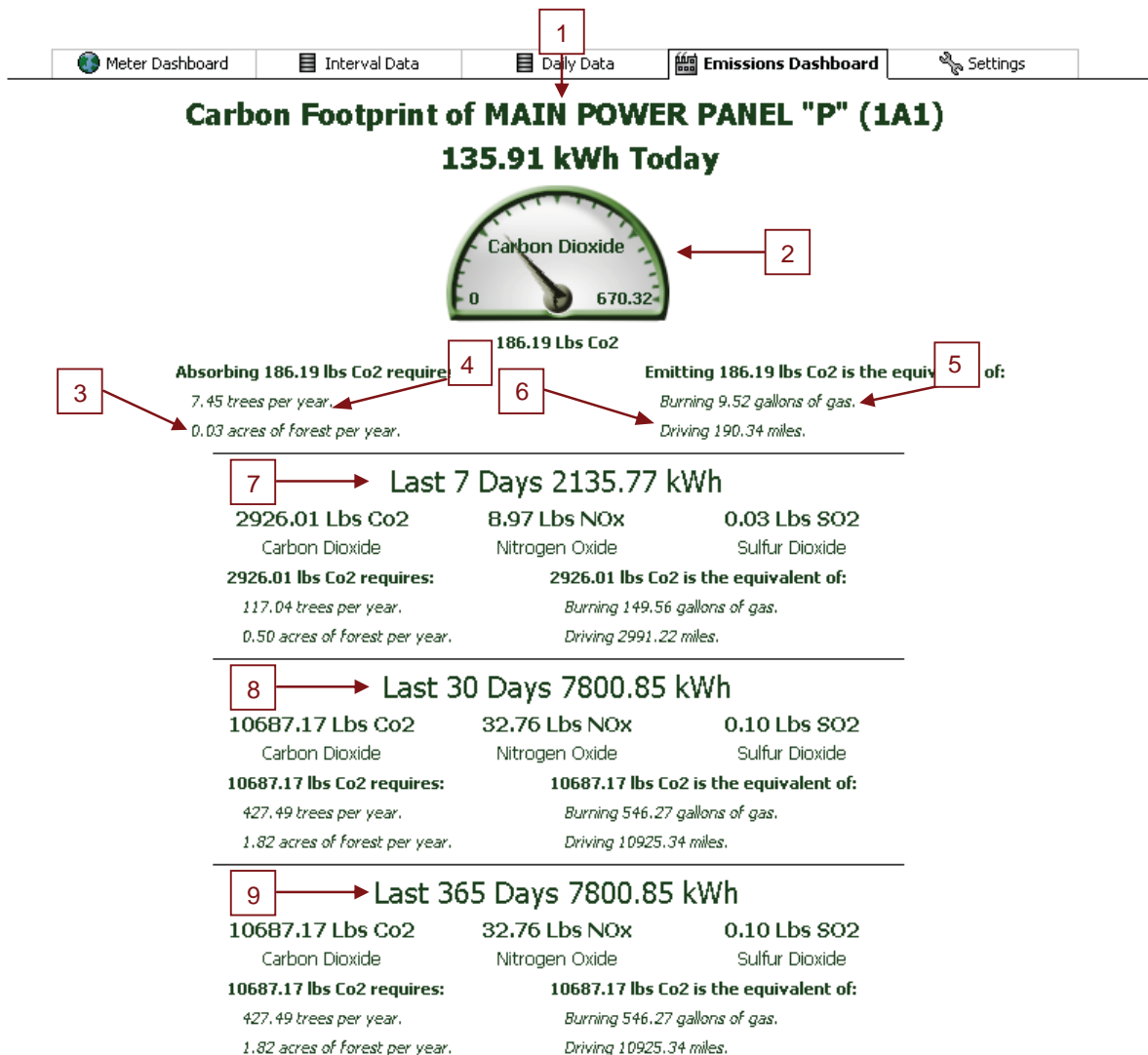
Timestamp	Consumption	Peak Demand	Peak Timestamp
07-Apr-09 12:00:00 AM EDT	128.55	84.06	07-Apr-09 5:00:00 PM EDT
08-Apr-09 12:00:00 AM EDT	329.60	25.80	08-Apr-09 2:15:00 PM EDT
09-Apr-09 12:00:00 AM EDT	341.17	27.28	09-Apr-09 3:00:00 PM EDT
10-Apr-09 12:00:00 AM EDT	138.12	8.83	10-Apr-09 3:45:00 PM EDT
11-Apr-09 12:00:00 AM EDT	140.75	7.44	11-Apr-09 9:30:00 PM EDT
12-Apr-09 12:00:00 AM EDT	135.19	7.62	12-Apr-09 5:00:00 PM EDT
13-Apr-09 12:00:00 AM EDT	319.17	25.44	13-Apr-09 12:45:00 PM EDT
14-Apr-09 12:00:00 AM EDT	325.66	24.30	14-Apr-09 12:15:00 PM EDT
15-Apr-09 12:00:00 AM EDT	335.10	44.88	15-Apr-09 12:15:00 PM EDT
16-Apr-09 12:00:00 AM EDT	316.85	24.34	16-Apr-09 3:00:00 PM EDT
17-Apr-09 12:00:00 AM EDT	324.69	24.31	17-Apr-09 1:30:29 PM EDT
18-Apr-09 12:00:00 AM EDT	160.83	11.03	18-Apr-09 11:00:00 AM EDT
19-Apr-09 12:00:00 AM EDT	159.43	9.61	19-Apr-09 6:15:00 PM EDT
20-Apr-09 12:00:00 AM EDT	340.57	26.38	20-Apr-09 3:15:30 PM EDT
21-Apr-09 12:00:00 AM EDT	334.30	23.14	21-Apr-09 3:00:00 PM EDT
22-Apr-09 12:00:00 AM EDT	306.11	21.81	22-Apr-09 1:30:00 PM EDT
23-Apr-09 12:00:00 AM EDT	324.51	24.58	23-Apr-09 2:30:00 PM EDT
24-Apr-09 12:00:00 AM EDT	317.75	23.52	24-Apr-09 10:15:00 AM EDT
25-Apr-09 12:00:00 AM EDT	177.69	13.20	25-Apr-09 6:45:00 PM EDT
26-Apr-09 12:00:00 AM EDT	219.75	14.36	26-Apr-09 3:30:00 PM EDT
27-Apr-09 12:00:00 AM EDT	489.29	56.98	27-Apr-09 1:00:00 PM EDT
28-Apr-09 12:00:00 AM EDT	476.95	34.09	28-Apr-09 4:15:00 PM EDT
29-Apr-09 12:00:00 AM EDT	365.88	23.78	29-Apr-09 1:45:00 PM EDT
30-Apr-09 12:00:00 AM EDT	310.06	23.09	30-Apr-09 1:00:00 PM EDT
01-May-09 12:00:00 AM EDT	331.55	24.55	01-May-09 3:45:00 PM EDT
02-May-09 12:00:00 AM EDT	179.65	12.61	02-May-09 10:30:00 AM EDT
03-May-09 12:00:00 AM EDT	138.85	6.98	03-May-09 9:00:00 PM EDT
04-May-09 12:00:00 AM EDT	332.83	26.38	04-May-09 4:00:30 PM EDT

1. Meter Dashboard — Link to the meter dashboard.

2. Interval Data — Link to Interval Data page.
3. Daily Data — Table of daily data including consumption, peak demand and peak time stamp.
4. Emissions Dashboard — Link to the emissions data for the specific meter. Only available for electrical meters.
5. Settings — Link to settings for the meter. Only available to admin level users.
6. Time Period — Many standard time period options are available along with user defined options in this drop down. The difference between the “previous” and “current” options is that current includes the current day; previous does not.
7. Meter Description — This is the description field from the meter setup page.
8. Meter Title — This is the title field from the meter setup page. The E-Mon address of the meter is automatically appended in parentheses.
9. Table Export — This button gives you the option to export the table in various formats.
10. Data Table — 15 minute interval data. The VARH column only has values for Class 3000, 5000 and V-Class meters.

# Meter Carbon Footprint Emissions Dashboard

This page allows you to view the environmental impact of a specific meter based on consumption.



1. kWh Today — Consumption of specified electric meters for the current day. Only available for electric meters.
2. Carbon Dioxide Dial — The equivalent Carbon Dioxide emissions for the day. The max value represents the max value ever recorded. Right click on the max value to reset it.
3. Forest Acres — Acres of forest required to absorb the Carbon Dioxide in one year.
4. Trees — Number of trees required to absorb the Carbon Dioxide in one year.

5. Gallons of Gas — The Carbon Dioxide emissions are equivalent to burning this number of gallons of gas.
6. Driven Miles — The Carbon Dioxide emissions are equivalent to driving this number of miles.
7. Last 7 Days — The emissions statistics for electric consumption for the last seven days, not including the current day.
8. Last 30 Days — The emissions statistics for electric consumption for the last thirty days, not including the current day.
9. Last 365 Days — The emissions statistics for electric consumption for the last three hundred and sixty five days, not including the current day.

## Notes

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