



Intuitive solutions for energy conservation

USER GUIDE:

**myIHD.com**

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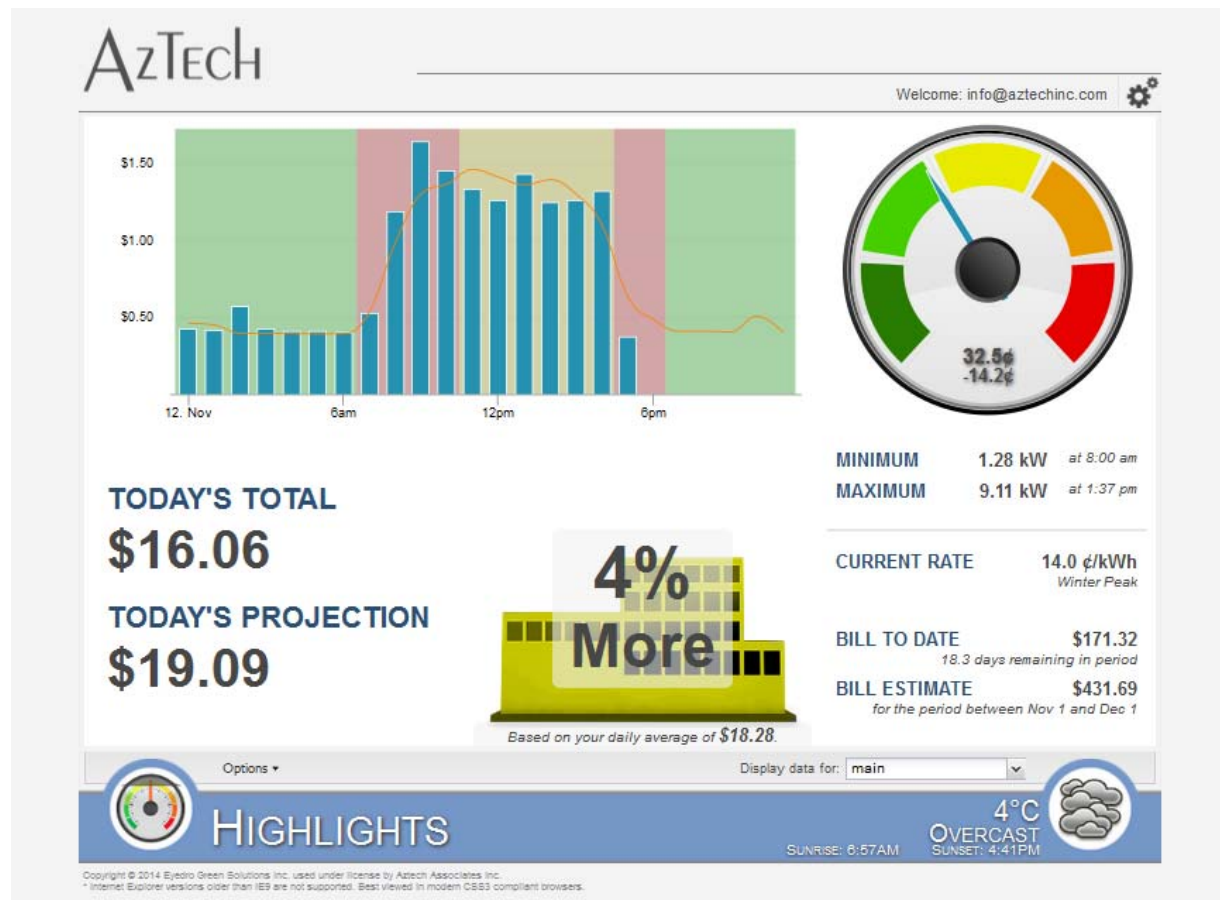
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## USER GUIDE: MYIHD.COM

The first step to reducing your electric utility bill is to understand your electricity usage. Actually seeing when electricity is being used and which systems and appliances are responsible is the key to **actionable cost savings**.



**myIHD.com** is a real-time electricity monitoring website. It provides business owners with a portal to measure, monitor and plan electricity usage.

**myIHD.com** has been designed to be compatible with today's most popular internet browsers: Chrome, Safari, Firefox, Internet Explorer (v9+), and Opera.

All instructions in this manual require a computer with internet access. Instructions will assume that your computer is turned on and you have used your web browser to go to: [myIHD.com](http://myIHD.com) to create and/or access your account.

## USER GUIDE: MYIHD.COM

MYIHD.COM IS INTENDED TO BE USED TO PROVIDE VISIBILITY AND INCREASE AWARENESS OF ELECTRICITY CONSUMPTION WITHIN THE BUILDING AND AS AN ADDITIONAL RESOURCE TO APPROXIMATE UTILITY COSTS. IT IS NOT INTENDED TO REPLACE THE UTILITY BILL NOR IS ANY HARDWARE ASSOCIATED WITH YOUR ACCOUNT INTENDED TO REPLACE THE ELECTRICITY METER FOR THE BUILDING, UNLESS OTHERWISE EXPLICITLY STATED.

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## ACCOUNT ACCESS

### CREATING AN AZTECH USER ACCOUNT

**AzTECH**  
ASSOCIATES INC.

### Create a new Aztech account

Email address:

Please confirm email:

Password:

Please confirm password:

☐ Remember me on this computer

By selecting "I accept" you are agreeing to the [Terms of Use](#) and [Privacy Policy](#)

☐ I Accept

I already have an account... [Sign me in >>](#)

1. Go to [myIHD.com](http://myIHD.com) and click on the **Sign up now** link.
2. Create a new user account:
  - A. Enter a valid **Email address**.
    - **NOTE:** the email address you enter will become your Aztech myIHD user account name.
  - B. Confirm **Email address**.
  - C. Enter a **Password**.
  - D. Confirm **Password**.
  - E. **Optionally**, select the **Remember me** option and your credentials will be stored as a cookie in your browser for future sessions.
  - F. Click **Create my account**.

**NOTE:** By creating an Aztech myIHD user account you are agreeing to the Terms of Use and Privacy Policy.

3. On successful completion, a welcome message will appear and you will be automatically signed in to your new user account. A welcome email will also be sent to the email specified in the user account.

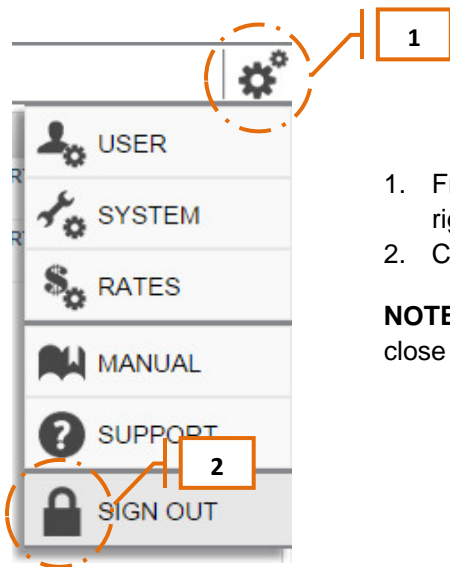
SIGN IN TO MYIHD.COM

The screenshot shows the sign-in page for Aztech Associates Inc. The page title is "Sign in to your Aztech account". The form includes an "Email" input field, a "Password" input field, a "Sign In" button, a "Remember me" checkbox, and a "Forgot password?" link. Below the form, there are links for "New to Aztech? Sign up now >>" and "On a small screen? Try our mobile friendly version >>". Numbered callouts are placed on the page: A and B are in a box next to the Aztech logo; C points to the "Sign In" button; D points to the "Remember me" checkbox; and E points to the "Forgot password?" link.

1. Go to [myIHD.com](http://myIHD.com).
2. Enter your account credentials:
  - A. Enter your **Email** address
  - B. Enter your **Password**
  - C. Click **Sign In**
  - D. **Optionally**, select the **Remember Me** option and your credentials will be stored as a cookie in your browser for future sessions.
  - E. **Optionally**, select the **Forgot password** link to have a temporary password assigned and emailed to your user account email address.

**NOTE:** A user account must have been successfully created, following the instructions outlined in this manual, before you will be able to sign in to myIHD.com.

### SIGN OUT OF MYIHD.COM

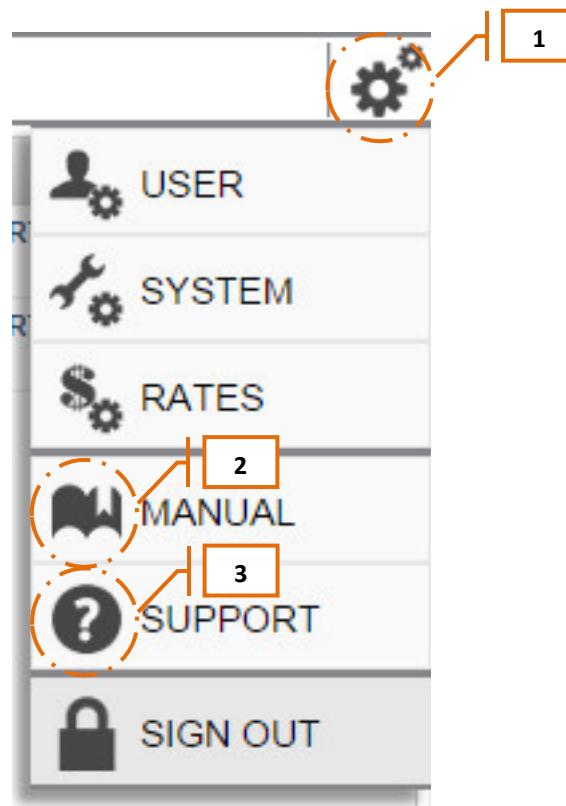


1. From within your Aztech account, hover over the **gears** in the top right corner to display the menu.
2. Click **Sign Out**.

**NOTE:** You will automatically be signed out of your account when you close your browser or after several hours of inactivity.



### ACCESSING HELP AND SUPPORT



1. From within your myIHD user account, hover over the **gears** in the top right corner to display the menu.
2. To access the User Manual (this document), the Product and Installation Guide, and product Quick Start Guides, select **Manuals**. A new tab will open in your browser and you will be securely directed to the Support website.
3. To access the support website, click **Support**. A new tab will open in your browser and you will be securely directed to the Support website.
4. From within Support you will be able to access the CEM and myIHD.com product overview and specifications.

## USER CONFIGURATION

The User page enables you to personalize information, and configure preferences and alert options. Most information required on this page is optional but some is mandatory to enable all features of myIHD.com.

**AzTECH** Welcome: info@aztechinc.com

Email Address: info@aztechinc.com [Change Password](#)

**Regional Info** | Preferences | Contact Info | Alert Options

**REGIONAL INFORMATION**

Regional information is used to display data in your preferred local settings. This data is optional, but by filling it out you can improve your user experience.

Some functionality may be limited (or not available) if this information is not specified.

Time zone: (UTC-05:00) Eastern Time (US & Canada)

Language: English (United States)

Currency: Dollar (\$)

Units of Measure: ☒ Metric ☐ US

Country: Canada

State/Province: Ontario

City: KINGSTON

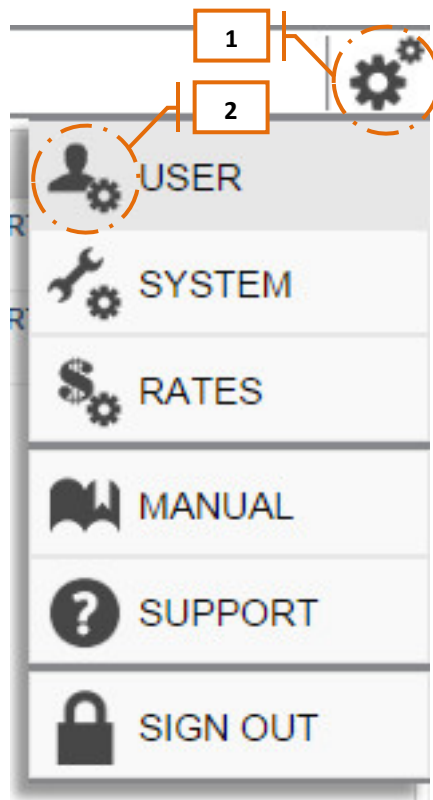
Zip/Postal: K7M 1L2

[Delete User Account](#) [Restore Defaults](#) [Done](#)

**USER SETTINGS**

3°C  
MOSTLY CLOUDY  
SUNRISE: 7:14AM SUNSET: 4:30PM

TO OPEN THE USER CONFIGURATION DIALOG



1. From within your Aztech user account, hover over the gears in the top right corner to display the menu.
2. Click on the **User** menu.

## CHANGING ACCOUNT PASSWORD

The screenshot shows a two-step form for changing a password. The top section is for the current user information, and the bottom section is for the new password. Callouts 1, 2A, 2B, and 2C point to specific elements: 1 points to the 'Change Password' button, 2A points to the 'Email Address' field, 2B points to the 'New Password' field, and 2C points to the 'Save' button. The 'Email Address' field contains 'info@aztechinc.com'. The 'New Password' and 'Confirm New Password' fields are masked with dots. The 'Save' button is highlighted with an orange circle.

1. From within User configuration screen, click on the **Change Password** button in the top right corner.
2. Change your password:
  - a. Enter your New Password in the appropriate field.
  - b. Confirm New Password in the appropriate field.
  - c. Click Save to finalize the change
3. Upon successful completion, you will be signed out of your Aztech account and redirected back to the sign in page.

**NOTE:** You will receive an email indicating that the password has been changed on your user account.

## USER INFORMATION

## REGIONAL INFO TAB

**Regional Information**

Regional information is used to display data in your preferred local settings. This data is optional, but by filling it out you can improve your user experience.

Some functionality may be limited (or not available) if this information is not specified.

Time zone: (UTC-05:00) Eastern Time (US & Canada)

Language: English (United States)

Currency: Dollar (\$)

Units of Measure: ☒ Metric ☐ US

Country: Canada

State/Province: Ontario

City: KINGSTON

Zip/Postal: K7M 1L2

Delete User Account Restore Defaults Done

**USER SETTINGS**

3°C  
MOSTLY CLOUDY  
SUNRISE: 7:14AM SUNSET: 4:30PM

Field	Required	How It's Used
Timezone	Yes	Timezone is used to ensure all readings are correctly converted from UTC time to a user's local time zone.
Language	Yes	Language is used to select the language of the displayed text on the user interface. Defaults to English.
Currency	Yes	Currency is used to select the currency symbol used to display all cost information in the user interface. Defaults to Dollar (\$).
Units of Measure	Yes	Units of Measure are used to select the units used to display temperature and weight values in the user interface. Defaults to Metric.
Country	No	Country is not currently required.*
State/Province	No	State/Province is not currently required.*
City	No	City is not currently required.*

**NOTE: \*Regional information must be provided to enable weather information to be displayed.**

PREFERENCES TAB

Email Address: info@aztechinc.com [Change Password](#)

[Regional Info](#) **[Preferences](#)** [Contact Info](#) [Alert Options](#)

## PREFERENCES

Preferences are used to customize the interface to your preferred settings.

### Correspondence

☐ Send me Aztech News  
☒ Send me Aztech Weekly Reports

### General

☐ Use Dark Chart Theme  
☒ Show Weather on Home Page

### Available Plugins

☒ Highlights ☒ Reports  
☒ Live ☒ Phantom Energy  
☒ Summary ☒ What's it Cost  
☒ Comparison ☐ Net Meter  
☒ Bills

[Delete User Account](#) [Restore Defaults](#) [Done](#)

# USER SETTINGS

-1°C  
RAIN  
SUNRISE: 7:22AM SUNSET: 4:27PM


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 \* Internet Explorer versions older than IE9 are not supported. Best viewed in modern CSS3 compliant browsers.

Field	Required	How It's Used
News	No	If checked, you will occasionally be sent email from myIHD.com.
Weekly Reports	No	If checked, you will automatically receive weekly summary reports for all display groups associated with your user account. This option is checked by default.
Dark Charts	No	If checked, all charts displayed in myIHD.com will use the dark theme. If unchecked, all charts will have a white background (useful if printing screenshots).
Show Weather	No	If checked, current weather information will be displayed on the main client page. <b>This option will only be available if a valid zip or postal code has been specified in your regional settings.</b>
Available Plugins	Yes	Selected plugins will be displayed in the plugins menu. By default, all plugins are checked/enabled.*  Details on available plugins are provided in later sections of this document.

NOTE: Not all plugins will be enabled in all regions, if the service is not supported by your electric utility.

CONTACT INFO TAB

Regional Info
Preferences
**Contact Info**
Alert Options



### CONTACT INFORMATION

Contact information is used to deliver email and text message alerts for specific system events that have occurred.

Aside from the primary email address (which is the same as your user account), this information is optional.

Some functionality may be limited (or not available) if this information is not specified.

#### Email Contacts

Primary Email:

Secondary Email:

#### Phone Contacts (for SMS/Text Message Alerts)


Primary Phone:

Secondary Phone:

Field	Required	How It's Used
Primary Email	Yes	Primary email is used as your login user name. This may also be used for email alert functionality.
Secondary Email	No	Secondary email is not required but can be defined and used for email alert functionality.
Primary Phone	No	Primary phone is not required but can be defined and used for SMS and phone alert functionality.
Secondary Phone	No	Secondary phone is not required but can be defined and used for SMS and phone alert functionality.

## ALERT OPTIONS TAB

Regional Info
Preferences
Contact Info
Alert Options



### CONTACT INFORMATION

Contact information is used to deliver email and text message alerts for specific system events that have occurred.

Aside from the primary email address (which is the same as your user account), this information is optional.

Some functionality may be limited (or not available) if this information is not specified.

#### Email Contacts

Primary Email:

Secondary Email:

#### Phone Contacts (for SMS/Text Message Alerts)

Primary Phone:

Secondary Phone:

Field	Required	How It's Used
Send me Alerts	No	<p>This is the global enable/disable of alerts. If checked, alerts that have been subscribed to will be sent out.</p> <p><b>NOTE:</b> You will still need to subscribe to the individual alerts you wish to receive.</p>
Limit Alert Options	No	<p>If checked, alerts will be sent out at the time of occurrence. If unselected, alerts will only be sent if they occur between the start and end times for the selected days.</p>
Start Time	Yes*	Used to limit when configured alerts are sent. If configured event occurs outside of the allowed range, the event will be logged but no alert will be sent. Defaults to 12:00AM.
End Time	Yes*	Used to limit when configured alerts are sent. If configured event occurs outside of the allowed range, the event will be logged but no alert will be sent. Defaults to 12:00AM.
Days	Yes*	Used to limit when configured alerts are sent. If configured event occurs outside of the allowed range, the event will be logged but no alert will be sent. Defaults to enable alerts every day.
Maximum Email	Yes	Used to limit the maximum number of email alerts sent in a day.
Maximum SMS	Yes	Used to limit the maximum number of SMS (text message) alerts sent in a day.

**NOTE:** \*Only required if the "Do not limit when alerts are sent" option is unchecked.



## SYSTEM CONFIGURATION DIALOG

The System configuration page is used to add, configure, and organize devices and display groups assigned to your user account. It is also used to configure sharing of data between user accounts.

The screenshot displays the AzTech System Settings application. The main window has a title bar with the AzTech logo and a welcome message: "Welcome: info@aztechinc.com". Below the title bar, there are two tabs: "Devices" and "Display Groups". The "Display Groups" tab is active, showing a list of display groups with columns for "Display Group" and "Owner". The groups listed are "both", "main", and "whole", all with "Yes" as the owner. Below the list, there are buttons for "Add Display Group" and "Remove Display Group", and a link "What is a Display Group?".

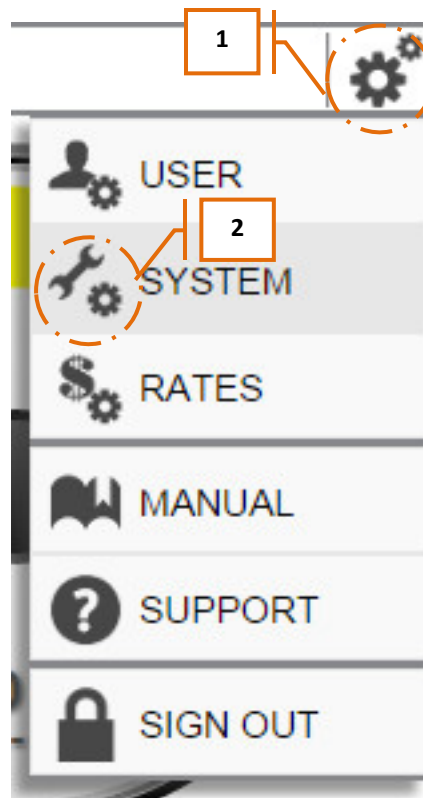
On the right side, there is a "DETAILS FOR: WHOLE" panel. It has three tabs: "Configuration", "Sharing", and "Export". The "Configuration" tab is active, showing a "Display Name" field with the value "whole". Below this is a table titled "Sensors in Display Group:" with columns for "Identifier", "Device", and "Sensor". The table contains three rows of data:

Identifier	Device	Sensor
009-00317	Aztech CEM Wireless Electricity Monitor	all 805 (A)
009-00317	Aztech CEM Wireless Electricity Monitor	all 805 (B)
009-00317	Aztech CEM Wireless Electricity Monitor	all 805 (C)

Below the table, there is a button "Edit Sensors in Display Group". At the bottom of the details panel, there are buttons for "Save Changes" and "Cancel Changes".

The bottom of the application window features a blue bar with the text "SYSTEM SETTINGS". On the right side of this bar, there is a weather widget showing "3°C OVERCAST" and "SUNRISE: 7:25AM SUNSET: 4:27PM". There are also "Refresh" and "Done" buttons.

TO OPEN THE SYSTEM CONFIGURATION DIALOG



1. From within your myIHD user account, hover over the **gears** to display the configuration menu.
2. Click on the **System** menu.

## DEVICES VS DISPLAY GROUPS

Simply put, **Devices** are used to **collect** data and **Display Groups** are used to **display** the collected data.

A Device is a physical or virtual device containing one or more sources of data (i.e. sensors). Devices can be physical devices installed in a building or virtual devices.

A Display Group is a grouping of device data sources (sensors) for display. Display groups provide flexibility when presenting data collected from various sensors. They allow sensors (of the same type) from multiple devices to be separated or combined for presentation in the myIHD.com plugins, and to be shared with other Users.

## DEVICES

The Devices tab is used to add devices, view device status, edit device configuration, and remove devices associated with your user account.

A Device is a physical or virtual device containing one or more sources of data (i.e. sensors). Devices can be physical devices installed in a building or virtual devices, such as data supplied by another source.

The screenshot shows the 'Devices' tab in the myIHD.com interface. It features a table of devices and a detailed configuration panel for a selected device.

Identifier	Device	Status
A 006-00284	805total	ACTIVE
A 005-00137	Aztech CEM Electricity Monitor	ACTIVE
A 009-00317	Aztech CEM Wireless Electricity Monitor	ACTIVE

**DETAILS FOR: AZTECH CEM WIRELESS ELECTRICITY MONITOR** ACTIVE

Device Label: Aztech CEM Wireless Electricity Monitor 70%

Firmware: V2.3.2

Serial Number: 009-00317

☐ Alert Me When...

**PORT A**  
833 W

Sensor Label (used in Display Groups): all 805 (A)

Sensor Type: 600A

Voltage: 120

**PORT B**  
1.70 kW

Sensor Label (used in Display Groups): all 805 (B)

Copy Settings from Port A

Sensor Type: 600A

Voltage: 120

Save Changes

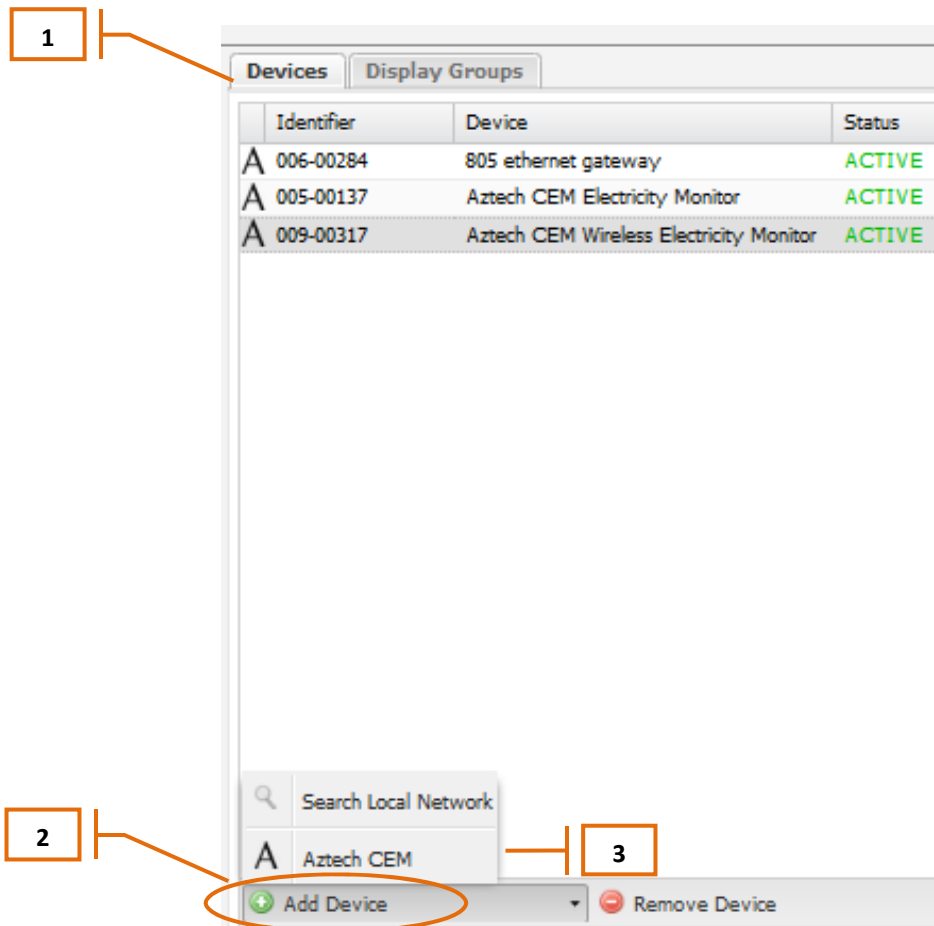
Cancel Changes

[Visit Aztech CEM support](#) ☒ Hide Advanced Settings

Callout boxes A through G point to specific elements: A points to the 'Devices' tab, B points to the table header, C points to a device row, D points to the status column, E points to the 'Add Device' button, F points to the 'Remove Device' button, and G points to the 'Alert Me When...' checkbox.

Function		Description
<b>A</b>	<b>Device List</b>	The list of Devices associated with your user account.
<b>B</b>	<b>Device Identifier</b>	The unique identifier (typically the serial number or MAC Address) of the device. Helps distinguish between devices in the event that they have the same label.
<b>C</b>	<b>Device Label</b>	A label assigned to the device to help identify it. Useful when there are multiple devices under the user account.
<b>D</b>	<b>Device Status</b>	Indicates Active/Inactive status of the device. Active means that the device is actively communicating with the myIHD.com servers. Inactive means the device hasn't communicated for several minutes. NOTE: it takes approximately 5 minutes for a device to go from an active to inactive status.
<b>E</b>	<b>Add Device Button</b>	Click this button to add new devices to your user account.
<b>F</b>	<b>Remove Device Button</b>	Click this button to remove existing devices from your user account.
<b>G</b>	<b>Device Details (and Configuration) Area</b>	Displays details and configuration information for the device currently selected in the Device List. Contents of this area are vendor specific and dependent on the type of device selected from the list. More details regarding configuration and information provided by devices can be found in Appendix B of this document.

## ADDING A DEVICE (MANUALLY)



1. Open the **Devices** tab of the System configuration screen.
2. Click on the **Add Device** button in the bottom left of the device list panel.
3. Choose the device vendor from the Add Device menu.
4. Follow the instructions for adding your desired device from Appendix B of this document.

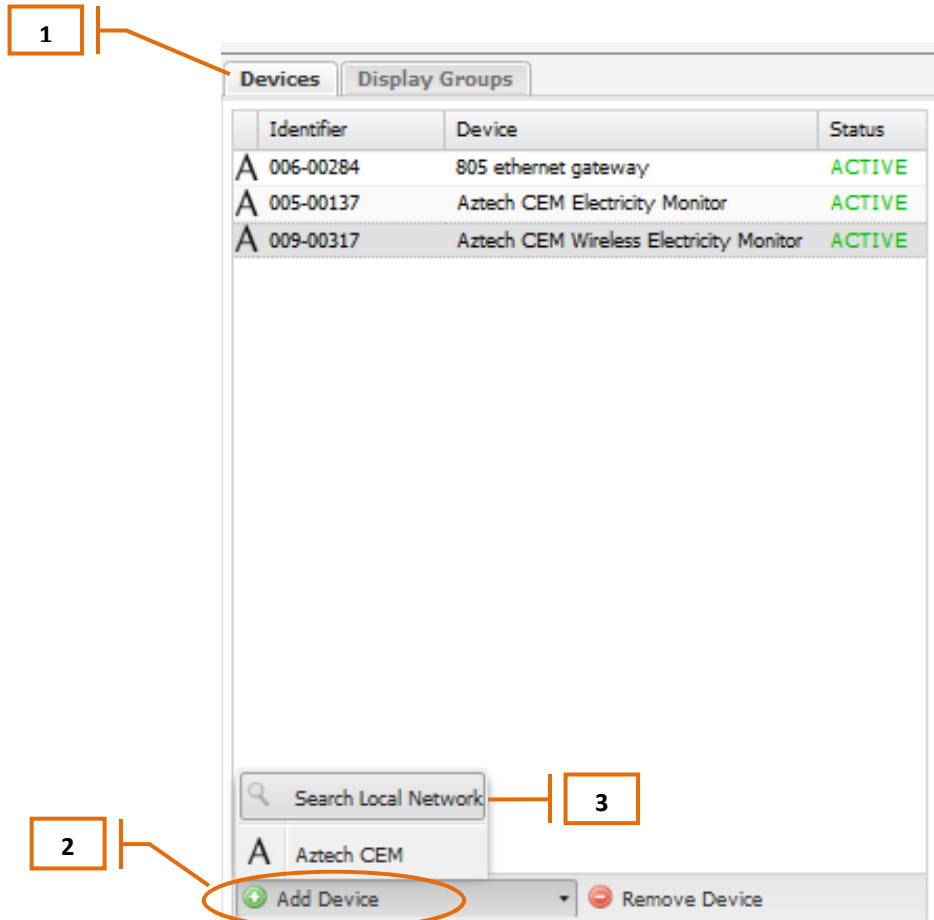
**NOTE:** Devices must be connected to the internet and actively communicating with the myIHD.com servers to add.

**NOTE:** Devices may only be added to one user account. It will not allow you to add a device that is currently claimed under another user account.

**NOTE:** Upon success, the Device List will be refreshed to show the newly added device(s).

**NOTE:** Upon success, a default Display Group will be created containing all sensors of the added device

## ADDING A DEVICE (SEARCHING NETWORK)



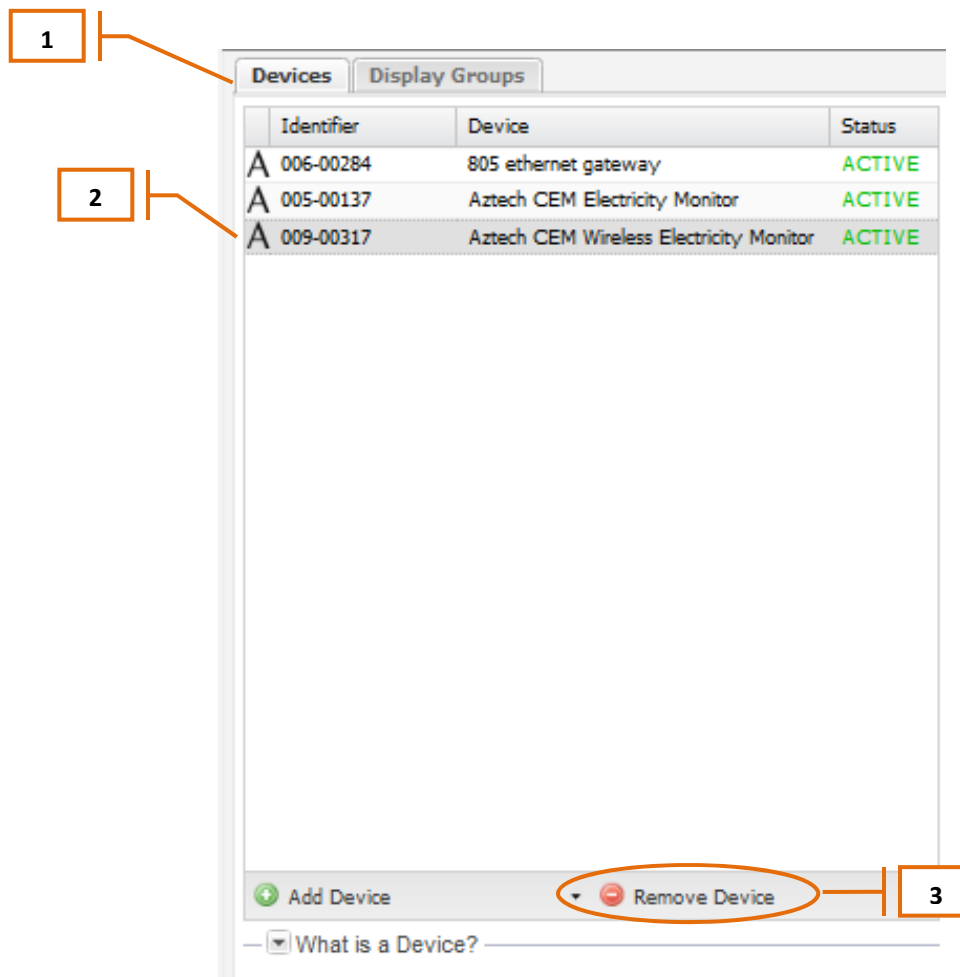
1. Open the **Devices** tab of the System configuration screen.
2. Click on the **Add Device** button in the center left of the System Configuration dialog to expand the panel.
3. **Choose** the **Search Local Network** option from the Add Device menu.
4. Follow the onscreen instructions to search your local network and add any found devices to your user account.

**NOTE:** The search functionality matches the source IP address of the browser session with that of unclaimed devices. It requires that the devices being added and computer currently logged into myIHD.com be on the same network.

**NOTE:** Upon success, the Device List will be updated to show the newly added device(s).

**NOTE:** Upon success, a default Display Group will be created containing all sensors of the added device(s).

## REMOVING A DEVICE



1. Open the **Devices** tab of the System Configuration screen.
2. **Select**, from the list, the **Device** to be deleted.
3. Click **Remove Device** to permanently delete the data source from the user account.
4. Click **Yes** when prompted for removal confirmation

**NOTE:** The Device List will be refreshed and the deleted device will be removed from the list.

**NOTE:** All Display Groups that reference this device or its sensors will also be updated.

**NOTE:** Removal of a device will NOT automatically purge the data for the device and its sensors.

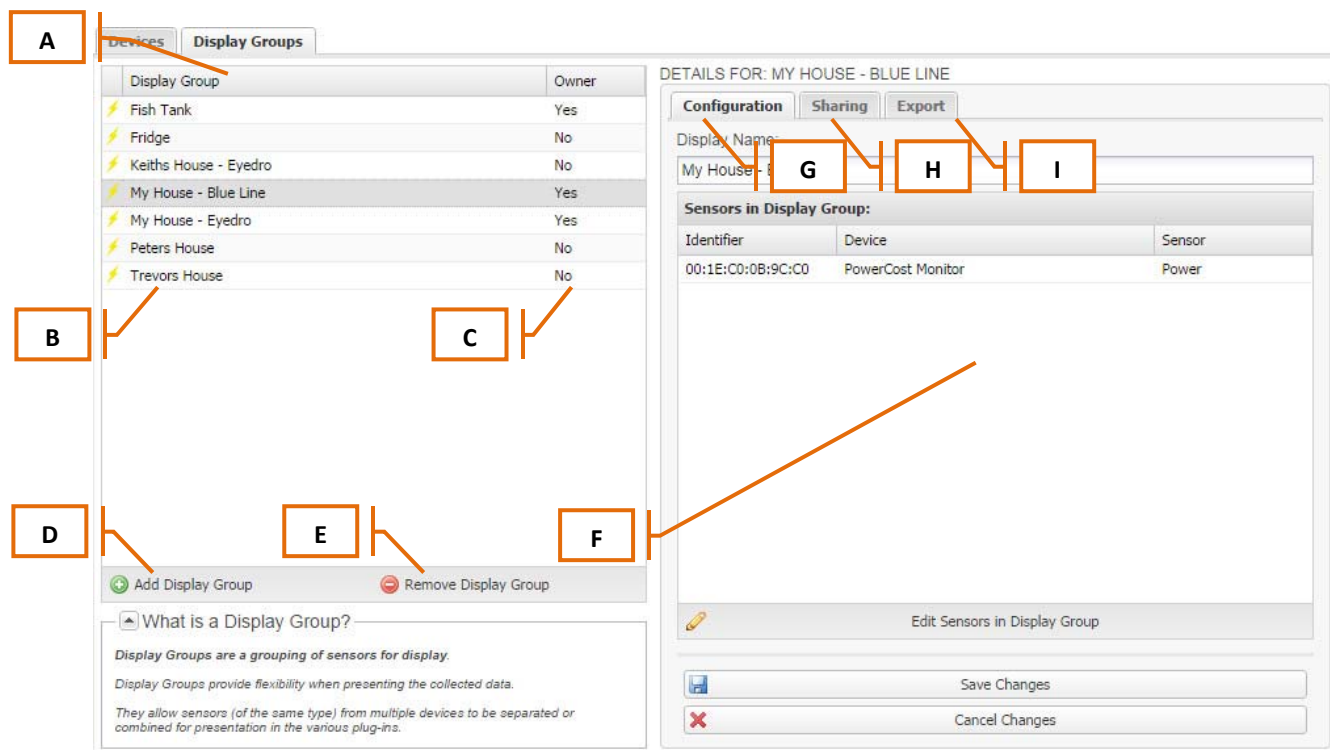
## VIEWING DEVICE DETAILS AND CONFIGURATION

The right side of the device configuration tab contains the details and configuration data for the selected device. These device details and configuration are dependent on the device selected for viewing. Device details can be found in Appendix B of this document.

## DISPLAY GROUPS

The Display Groups tab is used to add, edit, share and export Display Groups associated with your user account.

A Display Group is a grouping of device data sources (sensors) for display. Display groups provide flexibility when presenting data collected from various sensors. They allow sensors (of the same type) from multiple devices to be separated or combined for presentation on myIHD.com.

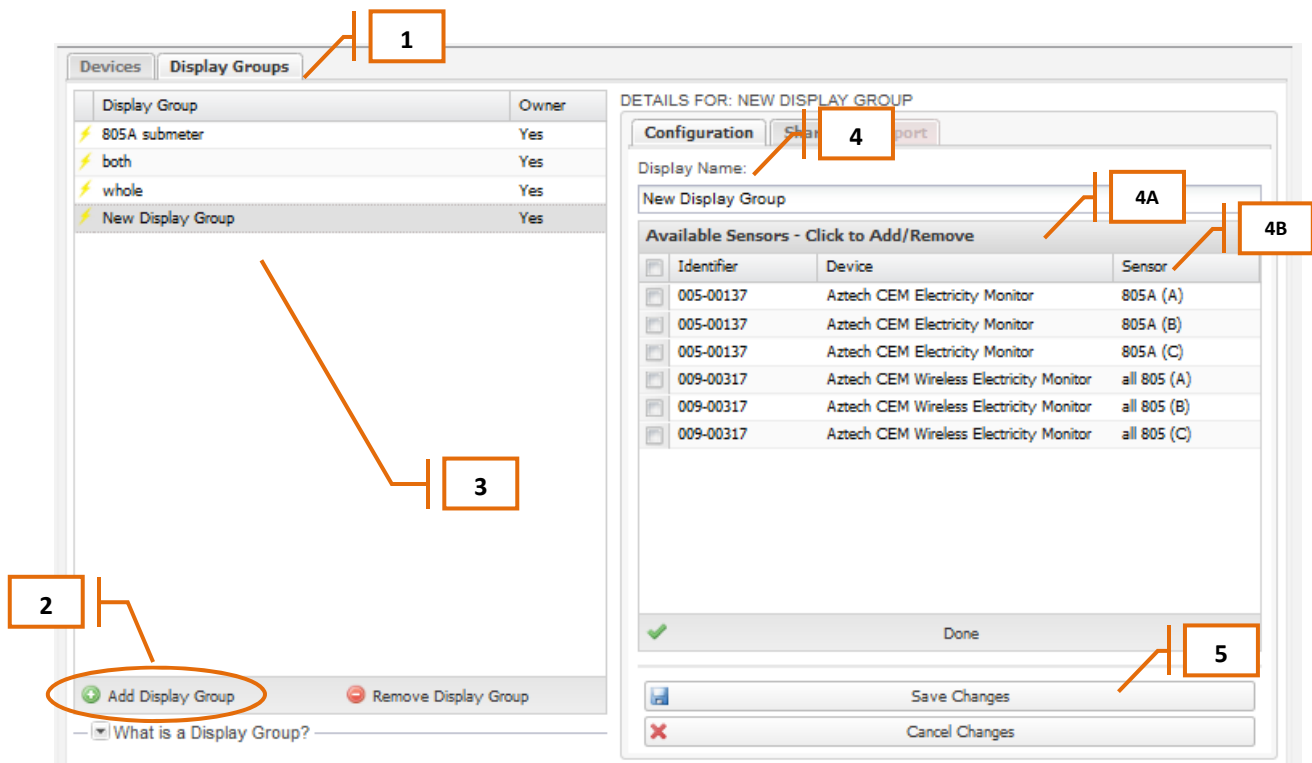


	Function	Description
A	Display Group List	The list of Display Groups associated with your user account.
B	Display Group Label	A label assigned to the display group to identify it. Useful when there are multiple display groups under the user account.
C	Display Group Owner	Indicates display group ownership. Owner=Yes indicates that the display group has been created by this user account. Owner=No indicates that the display group was shared with this user account. Display Groups that are not owned (Owner=No) have limited functionality.



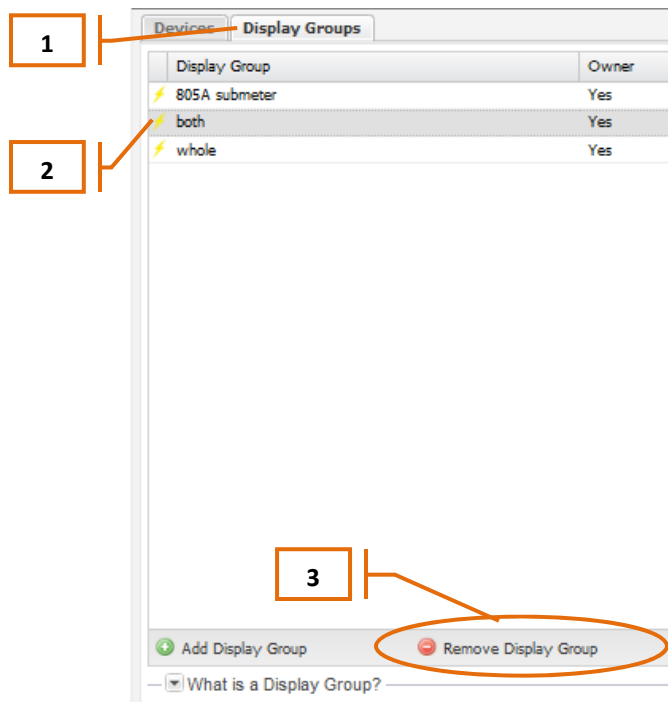
<b>D</b>	<b>Add Display Group</b>	Click this button to add new display groups to your user account.
<b>E</b>	<b>Remove Display Group</b>	Click this button to remove existing display groups from your user account.
<b>F</b>	<b>Display Group Details (and Configuration) Area</b>	Displays details and configuration information for the device currently selected in the Device List. Contents of this area are vendor specific and dependent on the type of device selected from the list. More details regarding configuration and information provided by various devices can be found in Appendix B of this document.
<b>G</b>	<b>Configuration Tab</b>	Contains configuration for the Display Group.
<b>H</b>	<b>Sharing Tab</b>	Contains sharing options for the Display Group.
<b>I</b>	<b>Export Tab</b>	Contains export options for the Display Group.

## ADDING A DISPLAY GROUP



1. Open the **Display Groups** tab of the System Configuration screen.
  2. Click on the **Add Display Group** button in the bottom left of the display group list panel.
  3. A new display group, called "**New Display Group**" will be added to the list and the configuration tab will be pulled to the front.
  4. From the **Configuration** tab, define the configuration for the new display group.
    - a. Enter the **Display Name** for the new group.
    - b. Select the sensors you would like to include in your new alias from the **Available Sensors** list.
- NOTE:** Sensors are added/removed by checking/unchecking the boxes in the left column.
- NOTE:** You can only add sensors from devices that have been claimed under your user account (shown in the Device List from the Devices tab).
5. Click on the **Save Changes** button to add the new display group to the account

## REMOVING A DISPLAY GROUP



1. Open the **Display Groups** tab of the System Configuration screen.
2. **Select**, from the list, the **Display Group** to be removed.
3. Click on the **Remove Display Group** to permanently delete the display group from your user account.

**NOTE:** Upon successful removal, the Display Group List will be refreshed and the deleted group will be removed from the list.

**NOTE:** You can remove both owned and non-owned display groups.

**NOTE:** Deleting a display group that has been shared with others, via sharing or public URL, will result in others no longer having access to it.

## DISPLAY GROUP CONFIGURATION

The screenshot shows the 'DETAILS FOR: BOTH' configuration window. It has three tabs: 'Configuration' (selected), 'Sharing', and 'Export'. Below the tabs is a 'Display Name:' field containing the text 'both'. Underneath is a table titled 'Sensors in Display Group:' with three columns: 'Identifier', 'Device', and 'Sensor'. The table contains six rows of sensor data. At the bottom of the window are three buttons: 'Edit Sensors in Display Group' (with a pencil icon), 'Save Changes' (with a floppy disk icon), and 'Cancel Changes' (with a red X icon). Numbered callouts point to specific elements: '3' points to the 'Configuration' tab; '4A' points to the 'Display Name' field; '4B' points to the 'Edit Sensors in Display Group' button; and '5' points to the 'Save Changes' button.

Identifier	Device	Sensor
005-00137	Aztech CEM Electricity Monitor	805A (A)
005-00137	Aztech CEM Electricity Monitor	805A (B)
005-00137	Aztech CEM Electricity Monitor	805A (C)
009-00317	Aztech CEM Wireless Electricity Monitor	all 805 (A)
009-00317	Aztech CEM Wireless Electricity Monitor	all 805 (B)
009-00317	Aztech CEM Wireless Electricity Monitor	all 805 (C)

1. Open the **Display Groups** tab of the System Configuration screen.
2. **Select** the **Display Group** to be edited from the list.

**NOTE:** The Display Group details will be populated in the Display Group Details Area in the right side of the screen.

3. Select the **Configuration** tab in the Display Group Details (and Configuration) Area.
4. From the Configuration tab, make the desired edits to the Display Group configuration.
  - a. If desired, edit the **Display Name** for the new group.
  - b. If desired, choose **Edit Sensors in Display Group** button to open the sensor editor.
5. Click on the **Save Changes** button to save changes.

### DISPLAY GROUP SHARING

Sharing allows users to share data from their user accounts, in a read-only manner, between each other and with the public. Below are a couple of typical examples of where sharing can be useful:

- Multiple users want to view data for a business
- Property managers want to share data with tenants
- Franchise owners want to share data with corporate headquarters
- Users want to set up a friendly competition
- Users want to allow the public to view their data

There are two methods that myIHD.com allows data to be shared among users; by Direct Share and by creating a Public URL.

### SHARING: DIRECT SHARE METHOD

Typically, the direct share method is used when you are sharing data with an existing myIHD.com user, want to create a new user account or want to share more than one Display Group with another (existing or non-existing) user account.

DETAILS FOR: 805A SUBMETER

Configuration Sharing Export

Share:

Add a Share to share this Display Group, in a read-only manner, with others (if not already existing).

demo@aztechinc.com Add Share

Existing Shares

Remove

Public URL:

Create a Public URL to share this Display Group, in a read-only manner, with others who do not have a Aztech user account.

Create Public URL

1. Open the **Display Groups** tab of the System Configuration screen.
2. **Select**, from the list, the **Display Group** to be shared.

**NOTE:** The Display Group details will be populated in the Display Group Details Area in the right side of the screen.

3. Select the **Sharing** tab in the Display Group Details Area.
4. From the Sharing tab, Enter the account name for which this alias is to be shared with
  - a. Enter **User Name** to share with.
  - b. Click **Add Share** to share the alias.
5. Upon successful completion, the user name will appear in your list of Existing Shares.

**NOTE: Sharing with a non-existent user account will create one.** A welcome email with temporary password will be sent to the email address entered.

**NOTE: All sensors** in the display group will be **shared** with the other user. If there are sensors you do not wish to share it is recommended to exclude these from the display group.

**NOTE:** Display Groups that have been shared with you will appear in your Display Group List with the **Owner** column set to **NO**.

**NOTE:** To remove the Display Group share, select the username from the Existing Shares list and click **Remove**.

### SHARING: PUBLIC URL METHOD

Typically, the Public URL method is used when you desire to create a publicly accessible page for any single Display Group. The generated Public URL can be copied to any web browser address bar and it will automatically log you into a read-only view the data - without the need for login credentials.

The image contains two screenshots of a web interface for creating and managing public URLs. The top screenshot shows a form titled 'Public URL:' with a description: 'Create a Public URL to share this Display Group. In a read-only manner, with others who do not have a Aztech user account.' Below the text is an empty input field and a green button labeled 'Create Public URL'. An orange box with the number '4' points to the 'Create Public URL' button. The bottom screenshot shows the same form after a URL has been generated. The input field now contains the text 'http://myihd.com/p/2456-14e3a486384a20a6'. An orange box with the number '5' points to the URL text. To the right of the input field is a red button labeled 'Delete Public URL'. An orange box with the number '7' points to the 'Delete Public URL' button.

1. Open the **Display Groups** tab of the System Configuration screen.
2. **Select**, from the list, the **Display Group** to be shared.

**NOTE:** The Display Group details will be populated in the Display Group Details Area in the right side of the screen.

3. Select the **Sharing** tab in the Display Group Details Area.
4. From the Sharing tab, click on the **Create Public URL** button.
5. Copy the generated link into your browser address bar to **verify it is functional**.
6. **Send** this URL to anyone you want to give access to – or embed it in an iframe on your website.
7. To delete the Public URL, click **Delete Public URL** button.

**NOTE:** The generated URL is random. No two URLs are the same nor will you be able to recreate one that has been deleted.

## DISPLAY GROUP (DATA) EXPORT

Data from a Display Group can be exported for offline processing in third party applications like Microsoft Excel.

1. Open the **Display Groups** tab of the System Configuration screen.
2. **Select**, from the list, the **Display Group** you wish to export data from.

**NOTE:** The Display Group details will be populated in the Display Group Details Area in the right side of the screen.

3. Select the **Export** tab in the Display Group Details Area.
4. From the Export tab, choose your data export options:
  - a. Select the **Export Period** or specify a custom date range.
  - b. Select the exported **Data Type**.
5. Choose **Export Data** to initiate the export.
6. A file download should begin automatically containing all reading data for the selected display group within the selected export period. Data will be in Comma-Separated Value (.csv) format.

**NOTE:** Not all Data Types are available for all devices.

**NOTE:** Raw Data Types should be limited to short export periods to avoid very large export file sizes.





**NOTE:** When exporting Raw Data Types, it is possible that not all sensors will have the same number of data points or their readings on the same time boundaries. The output format will be dependent on the specific devices.

## RATES CONFIGURATION

The Rate configuration page is used to define the rates your electrical utility charges you for your electricity consumption. The rates entered in this page are used throughout the myIHD.com interface to display and predict cost information.

NOTE: If no rates are defined in this configuration, all cost information in the interface will assume a default **fixed rate** pricing scheme.


Welcome: info@aztechinc.com


**Ontario TOU**



What would you like to call this billing profile?:

What is the start day of your current billing period?:

How often are you billed?:  
☒ Monthly ☐ Bi-Monthly ☐ Quarterly

**RATE/FEE STRUCTURE:**  

Effective Date
May 1, 2014

 Add  Delete

This page is used to define your electricity rates. You need a copy of a **recent electricity bill** to accurately answer some of the questions.

Some electrical utilities do not clearly show rate information on their bills. You may need to visit their website or call for a breakdown of your costs.

**RATE/FEE STRUCTURE DETAILS:**  

**Basic** Winter Summer Other Fees

When do these rates take effect?:

How is electricity consumption charged?:

Do your rates change seasonally? ☒ Yes ☐ No

How many different seasonal rates are you charged?:

Season Name	Start Month	Day	End Month	Day
Winter	November	1	April	30
Summer	May	1	October	31

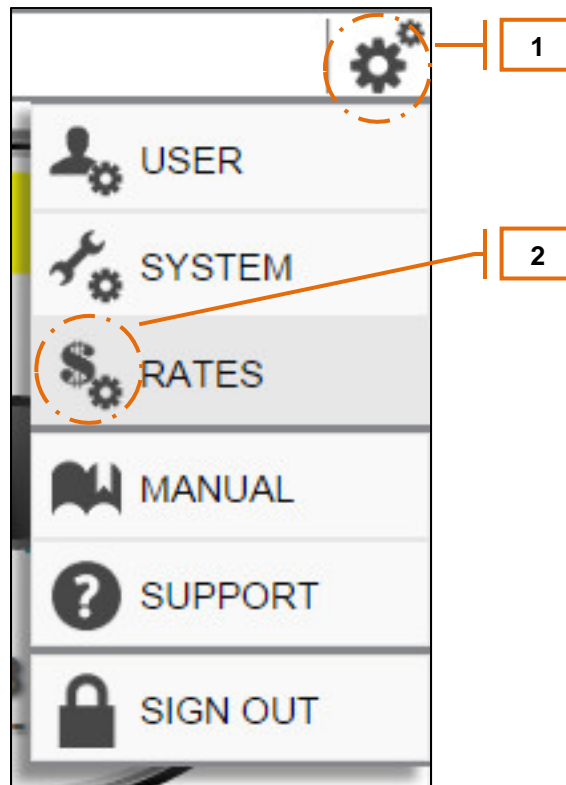

**RATE SETTINGS**

Done



3°C  
OVERCAST  
SUNRISE: 7:29AM  
SUNSET: 4:26PM

TO OPEN THE RATES CONFIGURATION SCREEN



1. From within the myIHD client, hover over the **gears** to display the configuration menu.
2. Click on the **Rates** menu.

## BILL PROFILE

Each user account will have a default Bill Profile created for it. The bill profile provides the rules that myIHD.com uses to compute cost information for presentation.

The screenshot shows the 'Ontario TOU' bill profile setup form. Callout A points to the 'Ontario TOU' tab. Callout B points to the 'What is the start day of your current billing period?' section, which includes a dropdown for 'January' and a text input for '1'. Callout C points to the 'RATE/FEE STRUCTURE:' section, which shows a table with 'Effective Date' as 'May 1, 2014'. Callout D points to the 'RATE/FEE STRUCTURE DETAILS:' section, which includes tabs for 'Basic', 'Winter', 'Summer', and 'Other Fees', and a table for seasonal rates.

**Ontario TOU** | **A**

What would you like to call this billing profile?:  
 Ontario TOU

What is the start day of your current billing period?:  
 January | 1 | **B**

How often are you billed?:  
☒ Monthly ☐ Bi-Monthly ☐ Quarterly

**RATE/FEE STRUCTURE:**  
 Effective Date  
 May 1, 2014 | **C**

**RATE/FEE STRUCTURE DETAILS:**  
 Basic Winter Summer Other Fees

When do these rates take effect?:  
 May 1, 2014

How is electricity consumption charged?:  
 Time of Use

Do your rates change seasonally? ☒ Yes ☐ No | **D**

How many different seasonal rates are you charged?:  
 2

Season Name	Start Month	Day	End Month	Day
Winter	November	1	April	30
Summer	May	1	October	31

**Footer:**  
 This page is used to define your electricity rates. You need a copy of a recent electricity bill to accurately answer some of the questions.  
 Some electrical utilities do not clearly show rate information on their bills. You may need to visit their website or call for a breakdown of your costs.

Function		Description
<b>A</b>	<b>Bill Profile Tab</b>	Each Bill Profile will be represented by a tab. By default, a single bill profile is created for a user account. In the event that you are monitoring multiple properties under a user account, it may be necessary to define multiple bill profiles (assuming all properties aren't using the same electrical utility).
<b>B</b>	<b>Bill Profile General Parameters</b>	Defines the general parameters for your bill profile.
<b>C</b>	<b>Bill Profile Rate/Fee Structure List</b>	List of Rate/Fee structures for the bill profile. As rates change new rate/fee structures can be added to the profile. A bill profile may have many rate/fee structures associated with it (depending on how often your electric utility changes their rates).
<b>D</b>	<b>Rate/Fee Structure Details</b>	Displays details and allows editing of the rate/fee structure selected from the list.

## EDITING A BILL PROFILE

The screenshot shows a web form for editing a bill profile. It includes a header 'Electric Company Ltd.' with a callout '1'. Below it is a text field 'What would you like to call this billing profile?' with the value 'Electric Company Ltd.' and a callout '2A'. The next section is 'What is the start day of your current billing period?' with a dropdown menu set to 'January' and a text field set to '8', with callouts '2B' and '2C'. Below this are radio buttons for 'Monthly', 'Bi-Monthly' (selected), and 'Quarterly', with a callout '2C'. The final section is 'RATE/FEE STRUCTURE:' which contains a table of effective dates from 'January 1, 2010' to 'May 1, 2014'. The table has a callout '2D'. At the bottom of the table are 'Add' and 'Delete' buttons.

1. From the Rates Configuration screen, select the Bill Profile to be edited.
2. Specify the general Bill Profile parameters:
  - a. Enter **Profile Name** to uniquely identify this bill profile.  
**NOTE:** the name on the Bill Profile tab will change to reflect the new name typed in this field.
  - b. Choose the **Start Day** of your current (or recent) billing period.  
**NOTE:** It is possible that this date will move around from bill to bill depending on how your utility operates. Choose an average bill period start date (e.g. 15th of the month).
  - c. Choose **Billing Period**. Monthly, bi-monthly, and quarterly billing periods are supported.
  - d. Add/edit the **Rate/Fee Structure(s)** for the Bill Profile per the instructions in the following sections.

## ADDING A NEW RATE/FEE STRUCTURE

**Electric Company Ltd.**

What would you like to call this billing profile?:  
Electric Company Ltd.

What is the start day of your current billing period?:  
January 8

How often are you billed?:  
☐ Monthly ☒ Bi-Monthly ☐ Quarterly

**RATE/FEE STRUCTURE:**

Effective Date
January 1, 2010
May 1, 2011
November 1, 2011
May 1, 2012
November 1, 2012
May 1, 2013
November 1, 2013
May 1, 2014

**1** Add Delete

This page is used to define your electricity rates. You need a copy of a recent electricity bill to accurately answer some of the questions.

Some electrical utilities do not clearly show rate information on their bills. You may need to visit their website or call for a breakdown of your costs.

**RATE/FEE STRUCTURE DETAILS:**

**Basic** Winter Summer Other Fees

When do these rates take effect?:  
May 1, 2014 **2A**

How is electricity consumption charged?:  
Time of Use **2B**

Do your rates change seasonally? ☒ Yes ☐ No **2C**

How many different seasonal rates are you charged?:  
2 **2D**

Season Name	Start Month	Day	End Month	Day
Winter	November	1	April	30
Summer	May	1	October	31

**2E**

1. Click **Add** from the lower left corner of the Rate/Fee Structure List.

**NOTE:** A New Rate/Fee Structure will appear in the list and it will automatically be selected for editing.

**NOTE:** The Rate/Fee Structure will be copied from the one previously selected.

2. Specify the **Basic** parameters:

- a. Choose **Effective Date** from the date picker.

**NOTE:** This is the date these fees/rates take effect NOT the start of the billing period.

- b. Specify **Rate Plan**. Fixed, Tiered, and Time-of-Use pricing schemes are supported.

- c. If rates vary based on different **Seasons**, choose Yes.

- d. If applicable (Seasons is set to Yes), choose the **Number of Seasons**.

**NOTE:** Choosing 1 is equivalent to setting Seasons to No.

- e. If applicable (Seasons is set to Yes), specify the name, start and end for each season.

**NOTE:** Spring, Summer, Fall and Winter are used by default.

**NOTE:** Adjusting the end date of a season will automatically adjust the start date of the previous season (and vice versa). The seasons **MUST** span the entire year.

3. For each **Season/Rate Tab** (one for each season specified), enter the rate details.

**NOTE:** **Rates** are used to compute cost information between the start and end dates entered. See the following sections for details regarding rates for the different pricing schemes; Fixed, Tiered and Time-of-Use.

## DEFINING FIXED PRICING SCHEME

The screenshot shows a web interface for defining a fixed pricing scheme. At the top, there are four tabs: 'Basic', 'Winter', 'Summer', and 'Other Fees'. The 'Winter' tab is selected. The title 'WINTER FIXED RATES' is circled in orange. To the right of the title, the date range 'NOV-1 TO APR-30' is displayed. Below the title, the 'FIXED RATE:' is set to '10' with a unit of '¢/kWh'. Callout 'A' points to the date range, and callout 'B' points to the fixed rate input field. At the bottom, there are three buttons: 'Previous', 'Next', and 'Save'.

1. For each **Season/Rate Tab** (one for each season specified), define the rate for a **Fixed Pricing** scheme:
  - a. Confirm name and date span match what was entered in the Basic tab.
  - b. **Fixed Rate** is the value charged for all electricity consumption.

**NOTE:** Fixed pricing is the most basic pricing scheme. A single rate is charged for all electricity consumed.

## DEFINING TIERED PRICING SCHEME

1. For each **Season/Rate Tab** (one for each season specified), define the rated for **Tiered Pricing** scheme:
  - a. Confirm name and date span match what was entered in the Basic tab.
  - b. **Number of Tiers** is used to identify the number of different pricing tiers to configure.

**NOTE:** Values of 2 to 4 are supported.

- c. **Rates** define the value charged for electricity consumption for each tier.
- d. **Tiers** are used to define the starting and ending consumption value for each tier.

**NOTE:** As the 'To' value is adjusted, the 'From' value of the next tier will automatically be updated to match.

**NOTE:** As the 'From' value is adjusted, the 'To' value of the previous tier will automatically be updated to match.

**NOTE:** There must always be one tier defined that starts at 0 kWh.

**NOTE:** There must always be one tier defined that starts at 'MAX' kWh.



## DEFINING TIME-OF-USE PRICING SCHEME

1. For each **Season/Rate Tab** (one for each season specified), define the rated for **Time-of-Use Pricing** scheme:
  - a. Confirm name and date span match what was entered in the Basic tab.
  - b. **Number of Rates** is used to identify the number of different rates to configure. Values of 2 to 4 are supported.
  - c. **Rates** are used to define the unique rates to be applied to one or more time bands.
  - d. **Weekend Rates** is used to determine if different time-of-use bands need to be specified for weekdays and weekends.

**NOTE:** if selected, the weekends tab will not appear and the same time bands will be applied to all days.

- e. **Number of Time Bands** is used to specify the number of time bands to apply.

**NOTE:** Values of 1 to 4 are supported.

- f. **Time Bands** are used to specify which rate is to be applied for any given block of time.

**NOTE:** If the 'From' value is adjusted, the 'To' value of the previous band is updated.

**NOTE:** If the 'To' value is adjusted, the 'From' value of the next band is updated.

**NOTE:** The 24hour clock to the right of the time band editor will automatically update to indicate any changes in rate or times. This is a visual aid only.

**NOTE:** Rates must be defined to span the full 24 hour period (from 12am to 12am).

- g. Repeat steps e-f to define time bands for **Weekends** tab (if applicable).

## DEFINING OTHER FEES

**ARE YOU CHARGED...**

**FIXED (PER BILL) FEES:** ☒ 14.99 \$/Bill

**VARIABLE (PER KWH) FEES:** ☒ 3.6 ¢/kWh

**ADJUSTMENT FACTOR:** ☒ 1.02

**VARIABLE (PER KWH) FEES - \*ADJUSTED KWH\*:** ☒ 1.37 ¢/kWh

**TAX:** ☒ 13 %

**REBATE:** ☒ 10 %

1. From the **Other Fees** tab, enter additional fees applied by your electric utility.
  - a. **Fixed Fees** are additional fees applied to your bill regardless of consumption. An example of this would be a monthly administration fee.
  - b. **Variable Fees** are additional fees applied to your bill based on your consumption. Examples are distribution charges or fuel surcharges.
  - c. **Adjustment Factor** is a multiplier that may be applied to your measured/metered consumption to compensate for transmission losses.
  - d. **Variable (Adjusted) Fees** are additional fees applied to your bill based on adjusted consumption (measured/metered consumption x adjustment factor). These only apply if an adjustment factor is specified.
  - e. **Tax** is the rate of tax applied to your bill by your utility. This varies depending on region and is applied as a percentage of the total.
  - f. **Rebate** can be used to apply credits to your bill. An example of this would be a clean energy benefit of 10%.
2. Click **Done** in the bottom right corner of the Rate Configuration dialog to apply changes.

**NOTE:** These 'Other Fees' are added to your consumption charges to make up the total on your Electric bill. These fees are sometimes indicated on the back of your bill. If you are unable to find this information on your bill, it may be available on your electrical utilities website.

**NOTE:** Some utilities have complicated pricing structures made up of multiple fixed and variable fees applied to your bill. Use the information from your utility to configure this to be as close as possible.

## EDIT AN EXISTING RATE/FEE STRUCTURE



1. Select the rate to be edited from the **Rate/Fee Structure List**.
2. Following the same instructions as Adding a New Rate/Fee Structure (*above*), modify the parameters in the Rate/Fee Structure Details panel as required.

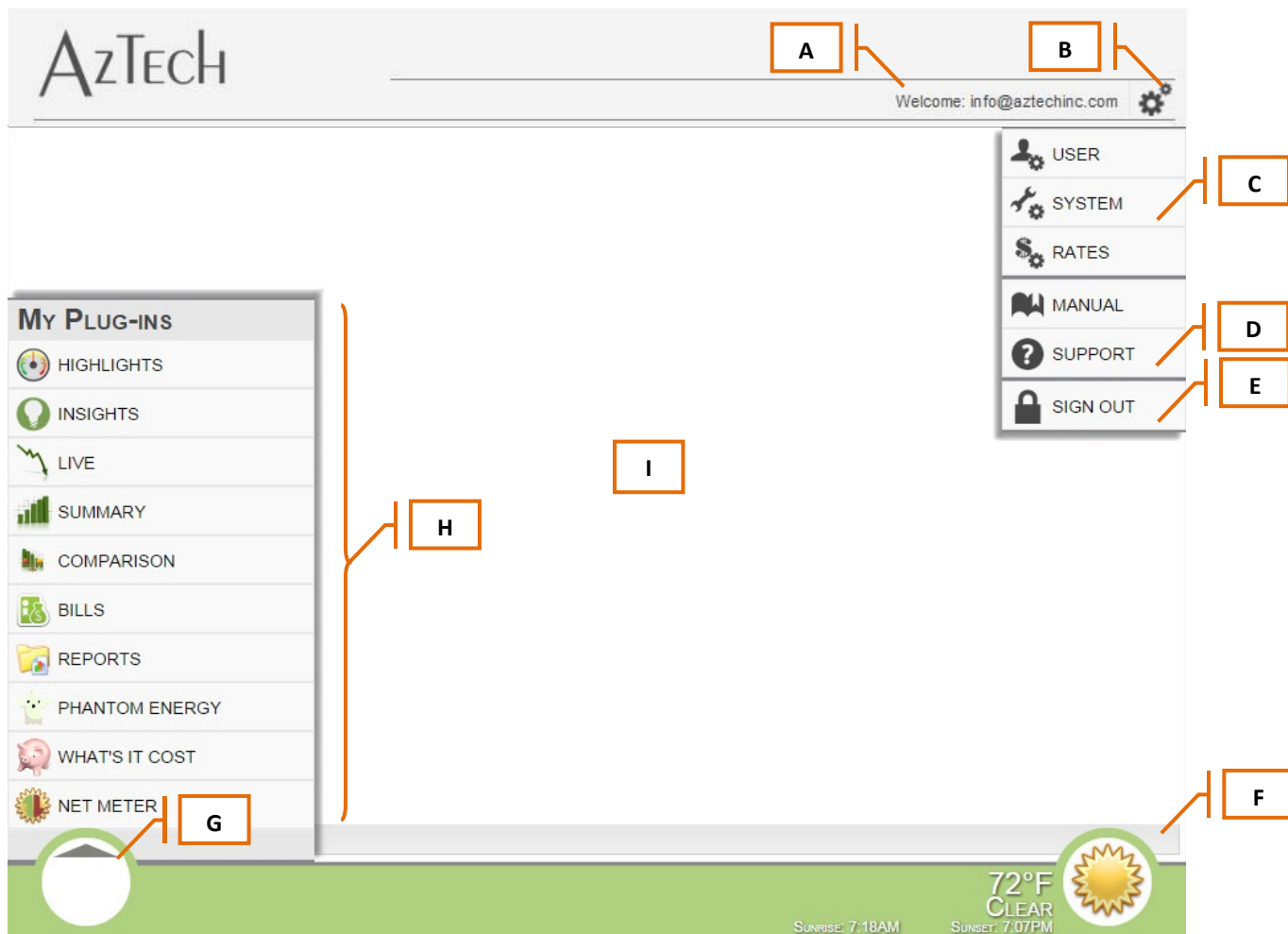
## DELETE AN EXISTING RATE PROFILE



1. Select the rate/fee structure to be deleted from the **Rate/Fee Structure List**.
2. Click **Delete** to permanently delete the rate structure from the list.

## APPENDIX A: PLUGINS

Plugins are used to present data in myIHD.com. Certain plugins will be available or unavailable depending on the types of data sources you have connected to your user account. The diagram below shows the basic navigation of myIHD.com.



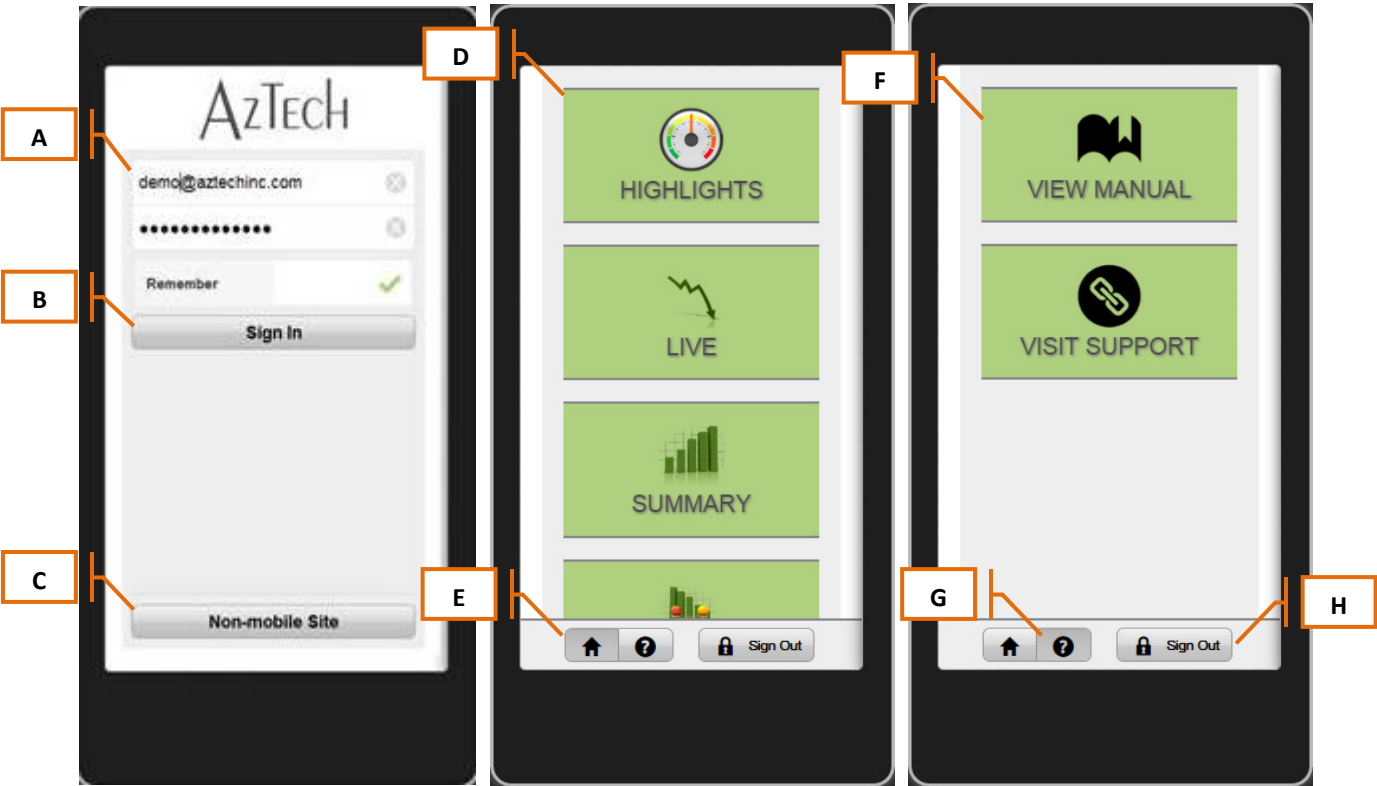
	Function	Description
A	User Name	The user currently logged into the system.
B	Configuration Menu	Access account and system configuration settings.
C	Configuration Options	System configuration options. See details of each in the corresponding sections of this User Guide.
D	Support Resources	Select this menu item to access the myIHD support site for all Manuals, help and support FAQs, and contact information.
E	Sign Out	Sign out of myIHD.com and return to the main sign in page.

USER GUIDE: MYIHD.COM

F	Weather Widget	If enabled, shows current local weather forecast information. Can be enabled or disabled from the User Configuration screen.
G	Plugin Button	Press this button to launch a desired myIHD.com plugin. The icon for the plugin currently running will fill this button and the name of the selected plugin will be displayed to the right of it.
H	Plugin Menu	List of available plugins.
I	Plugin Canvas	Selected plugin will be displayed in the plugin canvas area.

MYIHD MOBILE

The myIHD cloud service also provides a mobile friendly version for users who prefer to access their accounts from their smartphones or other mobile devices. When visiting myIHD.com from a mobile device, you will be automatically redirected to the mobile client (or optionally access directly via <https://myihd.com/mobile/> or by clicking on the link from the non-mobile client sign in page). The images below show the basic navigation of the myIHD.com mobile site.

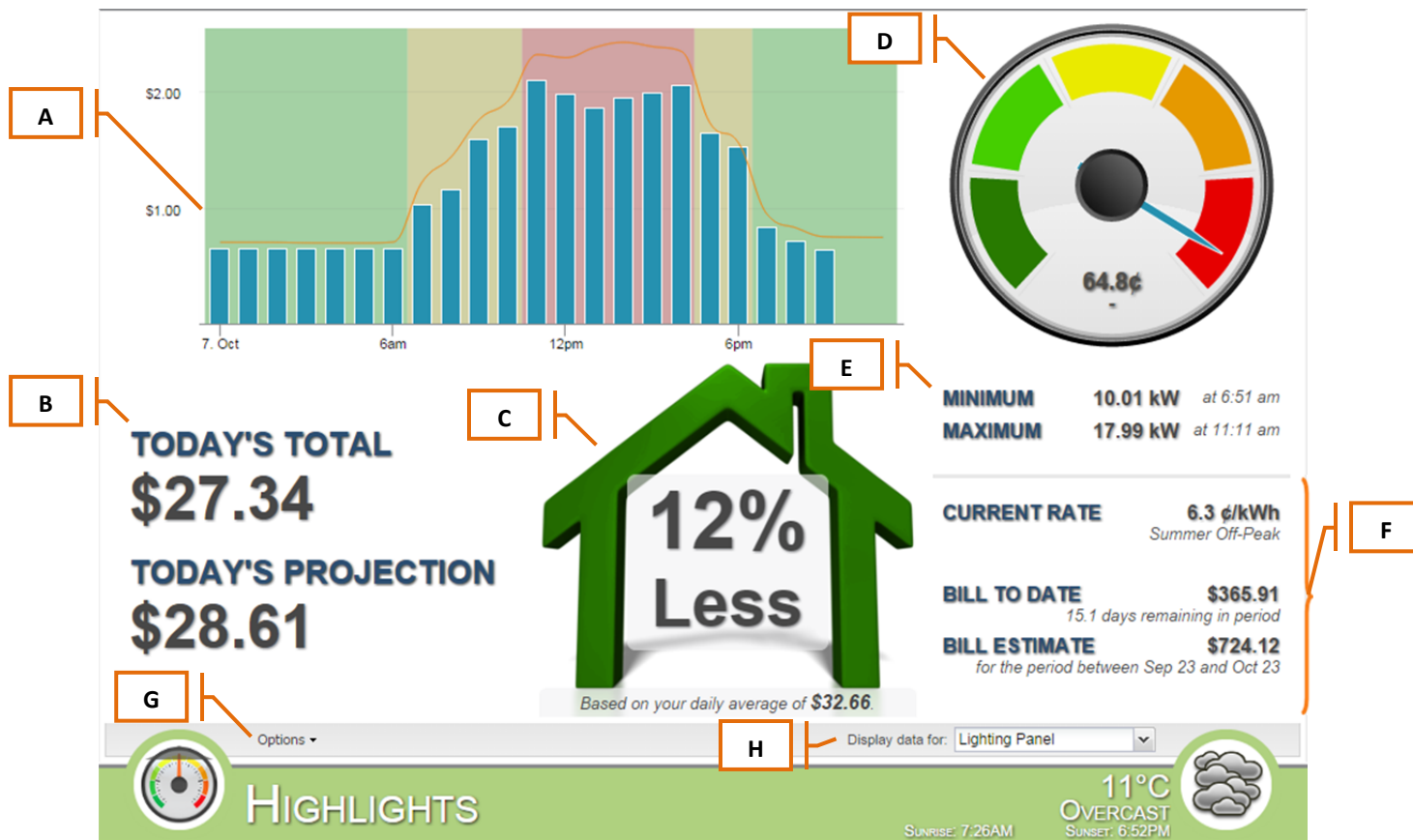


Function	Description
A	Account Credentials
Enter your email address and password to sign in to your user account. Optionally you may select the remember option to store your credentials in a cookie for future visits.	

## USER GUIDE: MYIHD.COM

<b>B</b>	<b>Sign In</b>	Click the Sign In button, once your account credentials have been entered, to access your account.
<b>C</b>	<b>Non-mobile Redirect</b>	Click the Non-mobile Site button if you prefer to access the non-mobile site on your device.
<b>D</b>	<b>Plugin Menu</b>	Displays the list of all available mobile plugins.
<b>E</b>	<b>Plugin Button</b>	Depress this button to display the Plugin Menu.
<b>F</b>	<b>Help Menu</b>	Displays the list of all available help options.
<b>G</b>	<b>Help Button</b>	Depress this button to display the Help Menu.
<b>H</b>	<b>Sign Out</b>	Click the Sign Out button to sign out of your account and return to the Sign In page.

## HIGHLIGHTS



Function	Description
<b>A</b> <b>Hourly Graph</b>	Displays hourly consumption for all sensors in the currently selected display alias.
<b>B</b> <b>Summary</b>	<b>Today's Total:</b> The total cost/consumption of your electricity for today. <b>Today's Projection:</b> The projected cost/consumption of your electricity for today.
<b>C</b> <b>Comparison</b>	How your data from today compares to your daily average. Average is based on a 6 week running average of the current day of the week.
<b>D</b> <b>Current Reading</b>	Displays the total electrical consumption (demand) at the current time and the most recent change in value.
<b>E</b> <b>Min/Max Demand</b>	<b>Minimum:</b> The minimum demand measured since midnight. <b>Maximum:</b> The maximum demand measured since midnight.
<b>F</b> <b>Bill to Date</b>	<b>Current Rate:</b> The current price you are being charged per kilowatt hour. <b>Bill To Date:</b> The total charges estimated for the billing period to date. <b>Bill Estimate:</b> The total charges estimated for the entire current billing period.
<b>G</b> <b>Options</b>	Toggle between cost and consumption; hide the overlay or change the status image between a house or a building.

## H Display Group

If more than one display Group exists, choose which Display Group to show data for.

LIVE



Function	Description
A Detailed Timeline Graph	Shows the real-time (or historical) electrical data for all sensors of a selected display group. Use your mouse to select regions of the graph to zoom in on.
B Detailed Timeline Graph Legend	Used to toggle series on/off in the detailed timeline graph area. Also, displays current readings and most recent changes for all sensors on the selected alias.
C Master Timeline Graph	Shows the aggregate electrical data for the past week. Use your mouse to select area to display details for.
D Date Selector	Choose the date from which to display electrical consumption data. Changing this value will adjust the right most date of the master graph. By default this will be set to the current date.
E Scale Selector	Choose the scale of the detailed timeline graph. This option will also adjust the size of the selection window in the master graph area.
F Options Menu	Used to change display options for the detailed timeline graph. Options are: <ul style="list-style-type: none"> <li>• <b>Area Graph:</b> to toggle between area and line graphs.</li> </ul>



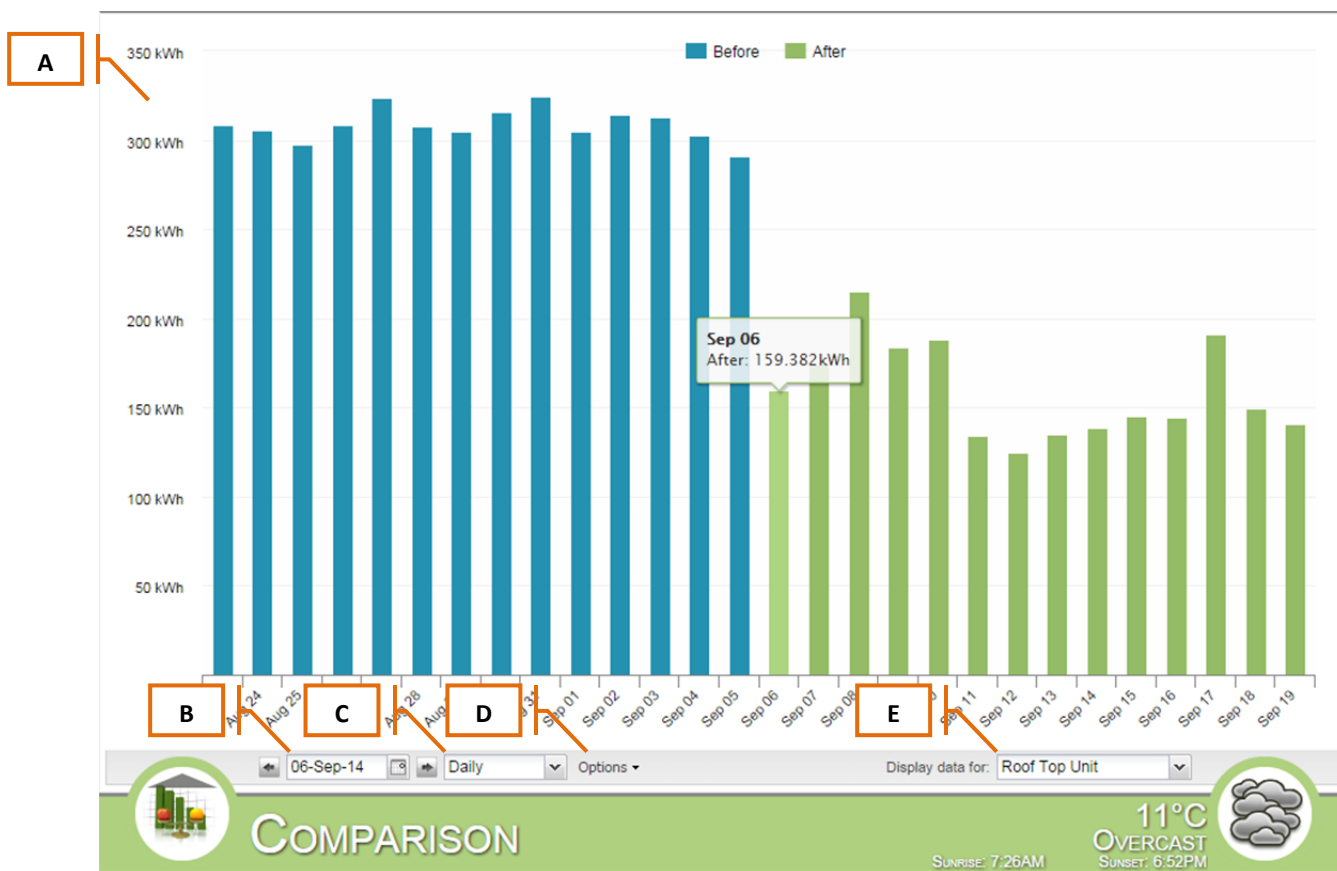
		<ul style="list-style-type: none"><li>• <b>Plot Bands:</b> to toggle rate plot bands on/off. Plot bands are only applicable when the current rate profile is time-of-use.</li><li>• <b>Show Aggregate:</b> Displays data for all sensors in the display group aggregated verses individually.</li></ul>
<b>G</b>	<b>Resume Updates Button</b>	If currently viewing historical data, will force selection window to the current time and resume live updates.
<b>H</b>	<b>Display Group</b>	Display Group to show data for. Only displayed if more than one Display Group exists.

## SUMMARY



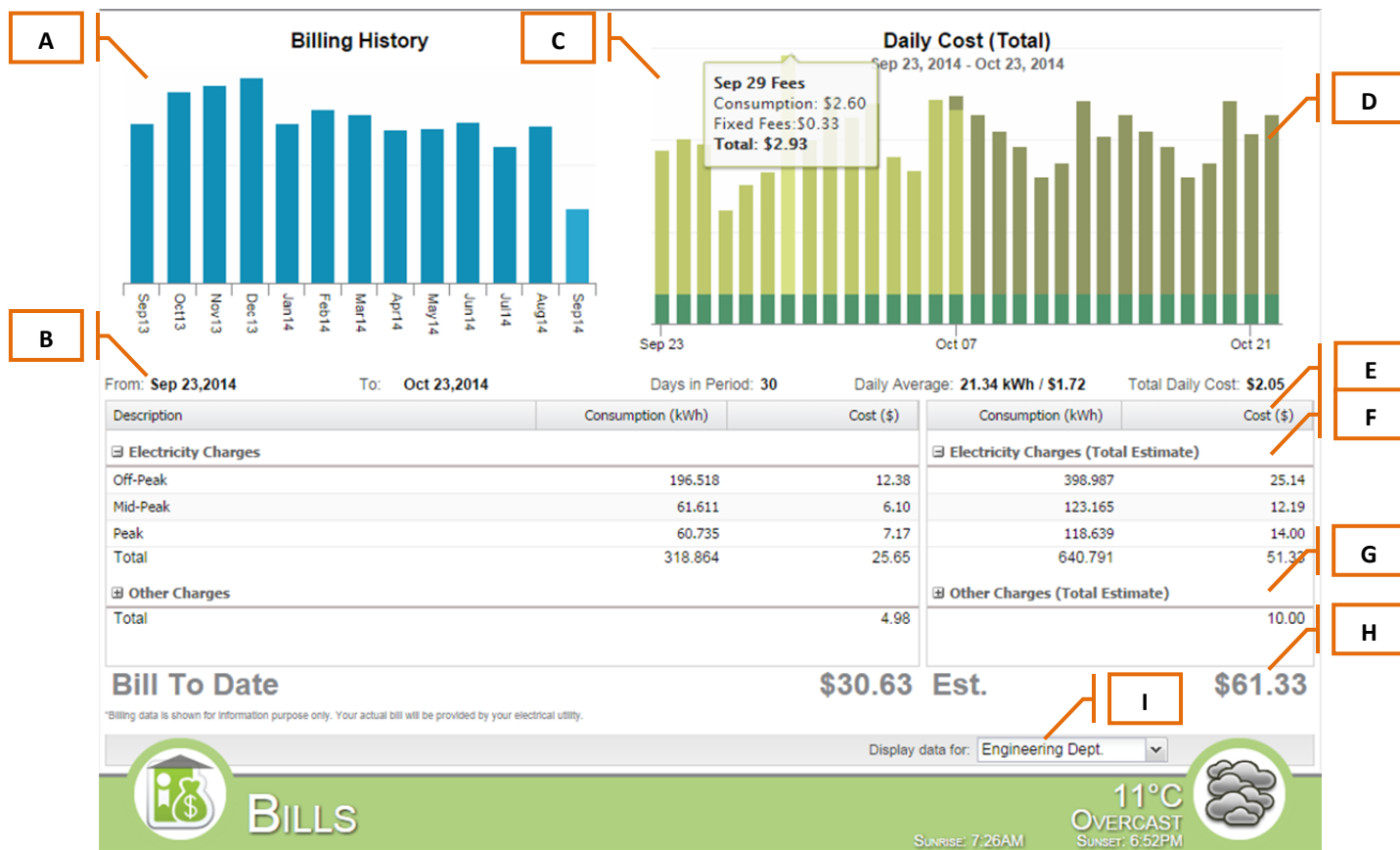
	Function	Description
A	Summary Graph	Shows hourly, daily, weekly, or monthly historical data for all sensors of a selected display alias.
B	Legend	Used to toggle series on/off in the summary graph area. (May be viewed in 'cost (as above) or consumption mode.)
C	Date Selector	Choose the date for which to display data. By default this will be set to the current date.
D	Scale Selector	Choose the scale of the historical graph.
E	Options Menu	Used to change display options for the summary graph. Options are: <ul style="list-style-type: none"> <li><b>Cost/Consumption:</b> Toggle display between cost and consumption</li> <li><b>Stack Columns:</b> Determine if the values for each sensor will be stacked on top of each other or side-by-side. By default, this value is selected.</li> <li><b>Hourly TOU Bands:</b> Displays time-of-use bands when viewing data in hourly (or less) scale.</li> </ul>
F	Display Group	Display Group to show data for. Only displayed if more than one Display Group exists.

## COMPARISON



	Function	Description
A	<b>Comparison Graph</b>	Similar to the summary graph plugin, this plugin shows before and after comparison of hourly, daily, weekly, or monthly historical data for all sensors of a selected display alias – from a selected point of interest.
B	<b>Date Selector</b>	Choose the date for which to display data. By default this will be set to the current date.
C	<b>Scale Selector</b>	Choose the scale of the historical graph.
D	<b>Options</b>	Used to change display options for the comparison graph. Options are: <ul style="list-style-type: none"> <li>• <b>Cost/Consumption:</b> Toggle display between cost and consumption</li> <li>• <b>Before/After:</b> Allows comparison before and after a key date of interest. Useful when trying to quantify and visualize energy savings projects.</li> <li>• <b>Compared To:</b> Allows comparison between two different display groups. Handy when you want to compare consumption between users who have shared their systems with you.</li> </ul>
E	<b>Display Group</b>	Display Group to show data for. Only displayed if more than one Display Group exists.  Note: when <b>Alias to Alias</b> comparison is selected, you will be presented with two alias pickers to choose for your comparison.

# BILLS



Function	Description
<b>A Billing History</b>	Shows the last several billing periods in a column chart. Click on any of the columns to retrieve the details for that period.
<b>B Bill Period</b>	Displays the From and To dates that are currently being used to compute the billing period information shown in the controls on the right side of the page.
<b>C Electricity Cost Graph</b>	Displays total cost information for each day in the billing period. When displaying the current billing period, this graph also shows projected electricity costs.
<b>D Electricity Cost Details</b>	Hover over any of the columns to retrieve the cost breakdown details for that day. Costs information is based on your defined rates.
<b>E Bill Period Statistics</b>	Statistics from the billing period.
<b>F Electricity Charges</b>	Displays electrical consumption totals and costs associated. The costs are calculated based on the period using electricity rates provided in the Rate Configuration dialog. Click on the + button beside the header to expand the Electricity Charges.
<b>G Other Charges</b>	Displays all other charges incurred for the bill period. The costs are calculated based on the period using the Adjustments provided in the Rate

## USER GUIDE: MYIHD.COM

		Configuration dialog. Click on the + button beside the header to expand the Other Charges.
H	<b>Total Charges</b>	Displays the total charges estimated for the billing period.
I	<b>Display Group</b>	Display Group to show data for. Only displayed if more than one Display Group exists.

	Function	Description
A	Selected Report	Displays the currently selected report.
B	Available Reports	Displays the list of all available reports.
C	Print	Prints the currently selected report.

## PHANTOM ENERGY

**A** **PHANTOM ENERGY**

Phantom Energy, Phantom Power, Phantom Load, Vampire Power... whatever you want to call it... is the electricity consumed by appliances when they are turned off.

These "Phantoms" can account for **10% of your annual electricity consumption!**

**HOW DO I IDENTIFY THE "PHANTOMS"?**

- Appliances with remote controls (TV, Video and Audio Equipment)
- Appliances with continuous digital displays (Clock on Stove, Coffee Maker)
- Appliances with rechargeable batteries (Cordless Phones, Laptops)
- Appliances with external power supplies (Cell Phone Chargers, Electronics)

**HOW DO I GET RID OF THE "PHANTOMS"?**

- Plug devices into power strips - and turn them off
- Unplug appliances when not in use
- Use clocks powered by rechargeable batteries
- When buying new appliances, choose appliances with low standby power

**Minimum Demand**  
past 24 hours

**9.72 KW**

that's equivalent to  
**\$7298.37 (85112 kWh)**  
per year

**B**

**C**

Display data for: Lighting Panel

**D**

**PHANTOM ENERGY**

22°C  
CLEAR  
SUNRISE: 7:12AM  
SUNSET: 7:13PM

	Function	Description
A	Phantom Power Tips	Provides useful tips on how to identify and reduce the phantom power load of the building.
B	24 Hour Minimum	The minimum (aggregate) power measurement in the past 24 hours.
C	Minimum Yearly Projection	Projects the 24 hour minimum over the span of an entire year to produce annual consumption and cost. Uses an average hourly rate to project cost.
D	Display Group	Display Group to show data for. Only displayed if more than one Display Group exists.

## WHAT'S IT COST

### WHAT'S IT COST?

Use this tool to estimate what it costs to run typical household appliances.

Common Devices:

Miscellaneous: Motor - 1 hp

How much does it draw:

746

Watts

How long is it on:

15

Minutes

How often is it on:

1

per Hour

Calculate

Daily:

\$0.38 (4.5 kWh) per day

Weekly:

\$2.69 (31.3 kWh) per week

Monthly:

\$11.51 (134.3 kWh) per month

Yearly:

\$140.09 (1633.7 kWh) per year

\*Based on your average hourly rate of 8.57 ¢/kWh



## WHAT'S IT COST

22°C  
CLEAR

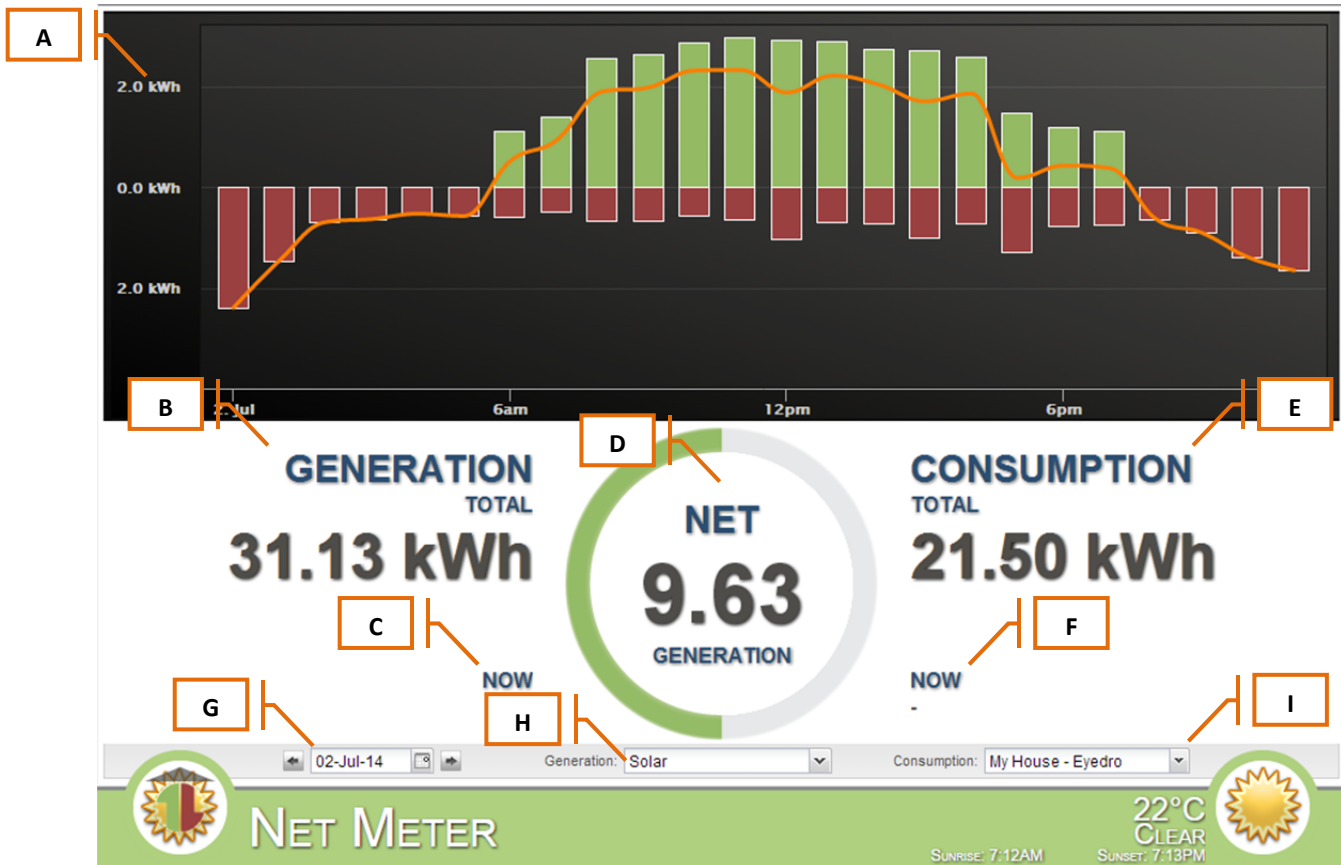
SUNRISE: 7:12AM
SUNSET: 7:13PM

	Function	Description
A	Common Devices	A list of common devices found in buildings and homes. Selecting a device from this list will populate the consumption field.
B	Consumption	Typical consumption for a device selected from the list. Can be manually set and adjusted if your particular device consumption is different.
C	Duration	How long the device is on (typical).
D	Cycle	The number of times the device is on in a given time period (typical).
E	Calculate	Run the calculation based on the information entered into the various parameters.
F	Results	Calculated results for various time spans.



## NET METER

Note: Not supported by all utility companies, including, but not limited to Ontario LDCs.



Function	Description
A Net Graph	Chart displaying the generation (green), consumption (red) and net (orange).
B Total Generation	Hourly summation of the generation over the selected date.
C Current Generation	Current instantaneous generation reading.
D Net	Difference between generation and consumption.
E Total Consumption	Hourly summation of the consumption over the selected date.
F Current Consumption	Current instantaneous consumption reading.
G Date Selector	Choose the date for which to display data. Set to current date by default.
H Gen. Display Group	Display Group to use for the generation series. Only displayed if more than one Display Group exists.

### I Consumption Display Group

Display Group to use for the consumption series. Only displayed if more than one Display Group exists.

## APPENDIX B: SUPPORTED DEVICES

### AZTECH – ELECTRICITY MONITOR (E\*EM1)

#### ADDING AN AZTECH ELECTRICITY MONITOR

The screenshot shows a web form for adding a device. On the left is a device image with a red box labeled 'A' around the 'Serial Number' field. The image text includes: 'Model: EYEDRO-COMB v1.0', 'For: Eyedro Electricity Monitor (E\*EM1-100)', 'Input: 5VDC, 0-350mA', 'Sensor: 0-5VDC, 0-100mA', 'Certified to: CSA#22.2 No 61010-1 UL 61010-1', and 'RoHS Compliant'. On the right, the 'Serial Number' field is populated with '003' and '00000'. Below this is a 'Claim Device' button labeled 'B'. A text box explains: 'The Serial Number is a unique identifier for the Eyedro device. This can be found on the label on the back of each module.'

1. Following the Adding a Device instructions from this document, click on the **Add Device** button and choose Aztech from the list.
2. Add your new hardware to your user account.
  - a. Enter the **Serial Number** from the back of the Aztech Module.

**NOTE:** For wireless installations, only the serial number of the Sensor Module is required for this step.


- b. Click **Claim Device**.

**NOTE:** On successful completion the Add New Hardware dialog will be closed and your new hardware will appear in your Devices list.

**NOTE:** A Display Group will be automatically created from the newly added hardware. This group will consist of all sensors in the new device.



DEVICE DETAILS

DETAILS FOR: AZTECH CEM WIRELESS ELECTRICITY MONITOR

**A** Device Label: **B** Aztech CEM Wireless Electricity Monitor **C**  62%



Firmware: V2.3.2  
Serial Number: 009-00317

☐ Alert Me When...

**D**  **PORT A**  **696 W**

Sensor Label (used in Display Groups): all 805 (A)

Sensor Type: 600A  
Voltage: 120



 **PORT B**  **2.01 kW**

Sensor Label (used in Display Groups): all 805 (B)

Sensor Type: 600A  
Voltage: 120

[Visit Aztech CEM support](#) ☒ Hide Advanced Settings

**F**

**G**  **PORT C**  **1.48 kW**

Sensor Label (used in Display Groups): all 805 (C)

Sensor Type: 600A  
Voltage: 120

Configuration: ☐ 3-Phase Delta ☒ Other (default)

Power Factor: 1  
Multiplier (eg. Feeds): 1

**H** **I** **J** [Visit Aztech CEM support](#) ☐ Hide Advanced Settings **K**

Function	Description
<b>A Device Label</b>	The label that is displayed for the device. By default, this value is set to “Aztech or CEM Electricity Monitor” but can be changed for easier identification.
<b>B Device Attributes</b>	<p><b>Firmware:</b> Displays the current firmware version of the selected device.</p> <p><b>Serial Number:</b> Displays the serial number of the selected device.</p> <p><b>MAC Address:</b> Displays the MAC Address of the device. The MAC Address is only shown for devices with an Ethernet port on it.</p>
<b>C Wireless Status</b>	<p>The most recent wireless signal quality measurement reported from the module.</p> <p><b>NOTE:</b> This section will only be displayed for <b>wireless devices</b>.</p> <p><b>NOTE:</b> This value is <b>signal quality NOT signal strength</b>. If there is no wireless communication between devices, this value will read 0 regardless of signal strength.</p>
<b>D Device Parameters (Advanced)</b>	<p><b>Line Frequency:</b> Do not modify this parameter unless you are in a country/region that has a 50Hz line frequency. <i><b>For North American installations this value should be set to 60Hz.</b></i></p> <p><b>Sample Mode:</b> Changes the method used to sample data. Change of State (COS) only sends data when it detects a change in value. Polled mode sends readings at a fixed interval. The <b>default sample mode is COS</b> and should not be modified unless instructed to do so. If set incorrectly, this setting can have a significant impact on system bandwidth and responsiveness.</p> <p><b>Poll Rate:</b> When Sample Mode is set to Polled, this specifies the polling rate used for all sensors. Valid settings are between 10 and 900 seconds. Default is 30 seconds.</p> <p><b>NOTE:</b> These settings will only be displayed if the <b>Hide Advanced Settings</b> option is <b>unchecked</b>.</p>
<b>E Sensor Status</b>	<p>Displays the most recent measurement for the sensor port.</p> <p><b>NOTE:</b> These sections will only be displayed for <b>devices with sensors</b>.</p>
<b>F Sensor Parameters</b>	<p><b>Sensor Label:</b> The label that is used to uniquely identify the sensor. This label will be visible in all Display Groups that you create. By default, this value is set to “Power (Port A B C)” but can be changed for easier identification.</p> <p><b>Copy Settings From Port A B:</b> Use this button to quickly copy settings from the previous sensor port. All settings except the Sensor Label are copied.</p> <p><b>Sensor Type:</b> Choose the correct sensor type from the drop-down list. This value will impact the readings from the hardware if chosen incorrectly.</p> <p><b>Voltage:</b> This value should be set to your average line voltage. It can be measured with a Multimeter at the time of installation, following the instructions in the Product and Installation Manual, or set to the typical value for your country/region. For typical North American residential and small business installations this value should be approximately 120V. For 3-phase commercial applications, visit the support page to view FAQs for correct voltage settings.</p> <p><b>NOTE:</b> These sections will only be displayed for <b>devices with sensors</b>.</p>

Function	Description
<b>G</b> <b>Sensor Parameters (Advanced)</b>	<p><b>Configuration:</b> Choose between '3-Phase Delta' and 'Other'. If the service or load being monitored is a 3-Phase Delta configuration, choose this option. For all other applications (3-Phase Wye or Single Phase), choose the 'Other' option. 'Other' is selected by default.</p> <p><b>Power Factor:</b> Allows you to specify the power factor that is applied when computing power (from the constant voltage and measured current). Must be a value between 0 and 1 with 0.9 being a typical setting for an average residential application.</p> <p><b>Multiplier:</b> Used to provide an additional multiplier on the computed power. For example, if a sensor is clamped on a single conductor of a parallel feed. This value is set to 1 by default.</p> <p>NOTE: These settings will only be displayed for devices with sensors and if the Hide Advanced Settings option is unchecked.</p> <p>NOTE: Do not modify these values unless you understand their purpose as they will have a direct effect on all measurements reported from that point forward.</p> <p>NOTE: These settings will only be displayed if the <b>Hide Advanced Settings</b> option is unchecked.</p>
<b>H</b> <b>Save Changes</b>	<p>Click this button to apply any changes made.</p> <p><b>NOTE:</b> Some changes will require commands be sent to the device – <b>make sure the device is active before applying changes.</b></p>
<b>I</b> <b>Cancel Changes</b>	<p>Click this button to cancel any changes made. It will reload all the parameters with the last saved values and refresh the display.</p>
<b>J</b> <b>Support Link</b>	<p>Click this link to visit the myIHD.com support site: <a href="https://support.myIHD.com">support.myIHD.com</a></p>
<b>K</b> <b>Hide Advanced Settings</b>	<p>Show/hide the advanced settings.</p> <p><b>NOTE:</b> By <b>default</b> this option is <b>checked</b> so only the most commonly adjusted parameters are displayed.</p>