



DASHBOARD

USER MANUAL

Rev 2.0



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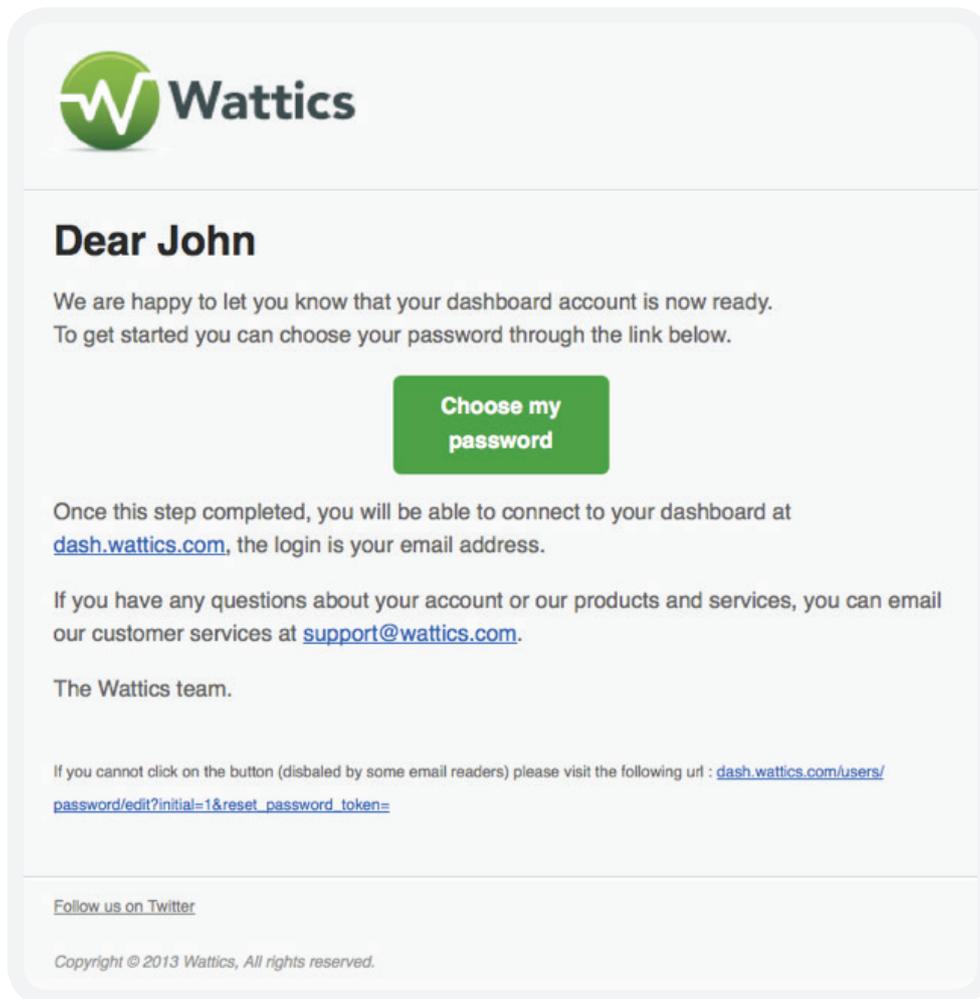
DASHBOARD USER MANUAL

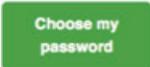
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1. RECEIVING THE CREDENTIALS

Within 4 weeks after system installation, you will receive an email from Wattics asking you to create a private password for your user account.



Please click on  and follow the steps until completion. Please note that your password must have a minimum of 8 digits.

Troubleshooting: The “Choose my password” button may not work with some email-readers. If so, please copy and paste the ‘dash.wattics.com/users/.’ web url displayed in the email body and paste it into your web browser to create your password. **If you require further assistance during the password creation procedure, please send an email to support@wattics.com.**

2. ACCESSING THE DASHBOARD

In order to log in to Wattics dashboard, please direct your browser to <http://www.wattics.com>, and click on the  icon on the top right. You will be redirected to <http://dash.wattics.com> login page.

Alternatively you can bookmark <http://dash.wattics.com> as a Favorite in your web browser.

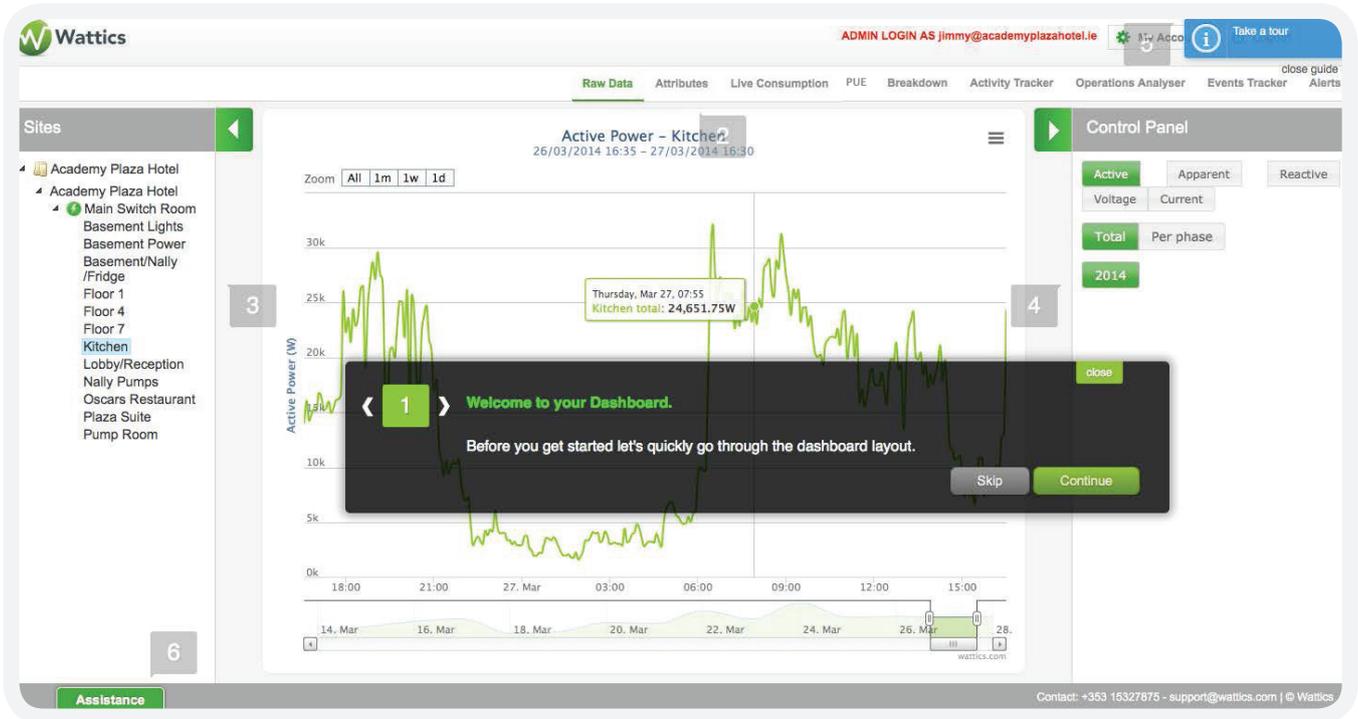


Type in your Email and Password, and press [Enter] in your keyboard or click on . You may tick the 'Remember me' if you wish your credentials to be remembered for next visit.

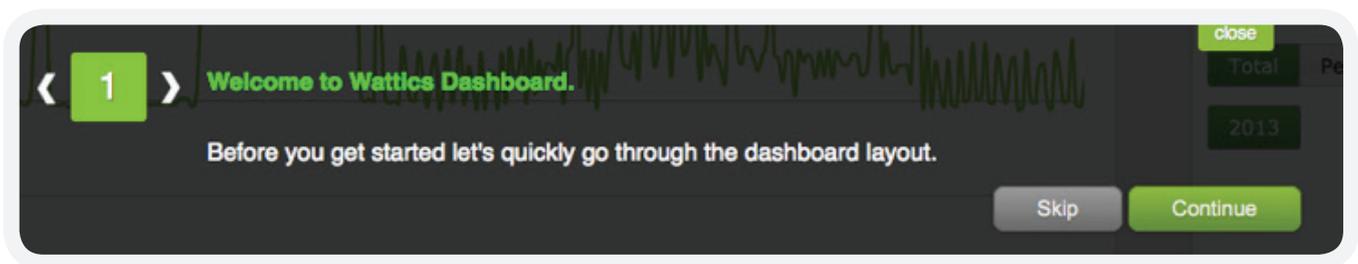
Troubleshooting: If you cannot login because of authentication problems, remember that passwords are case sensitive; in other words, Wattics recognises 'password' and 'PaSsWoRd' as two different passwords. Check if your [Caps Lock] indicator is on.

If you have made the above checks but still cannot log in, or if you have forgotten your password, you can either use the FORGOT YOUR PASSWORD link or send an email to support@wattics.com to request a new password.

3. DISCOVERING YOUR DASHBOARD LAYOUT



When you log in for the first time you will be presented with a pop-up window that will guide you through the main features of your dashboard layout.



The pop-up window is available at any time by clicking on the  icon in the top right corner of the dashboard.

3. DISCOVERING YOUR DASHBOARD LAYOUT

The Wattics Dashboard has three distinct areas:

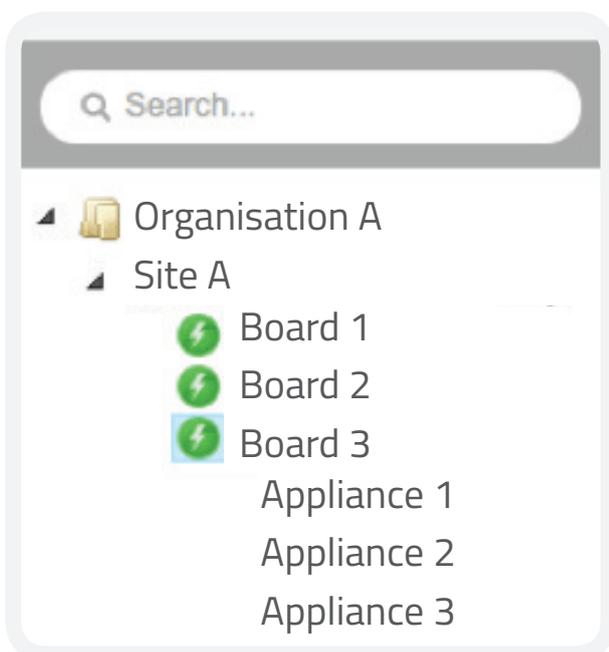
- **Top Menu containing all available tools for analysing your data**



A total of 9 tools are currently available and more will be added in time.

- Raw Data: Visualisation of raw metering data collected by physical meters
- Attributes: Summary of equipment deployed in your premises and tariffs used for cost calculation
- Live consumption: Visualisation of equipment live on/off power states
- PUE
- Breakdown: Breakdown of consumption and cost data per day/month/year
- Activity Tracker: Graphical representation of equipment periods of power activity
- Operations Analyser
- Events Tracker: Monitoring of savings achieved after implementation of energy saving solutions
- Alerts: Settings for email and sms alerts

- **Left Side Panel** containing the units monitored by Wattics and hierarchically organised.



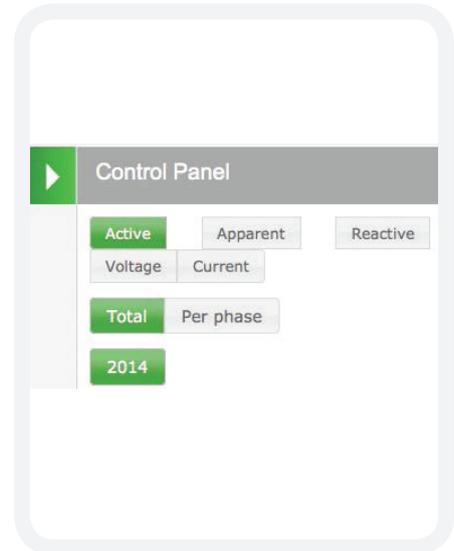
This panel provides access to organisations, sites, boards and appliances monitored.

Mouse clicks on the units will decide which data is shown on the display area. 3 types of icons are used to differentiate electricity, gas and water data.

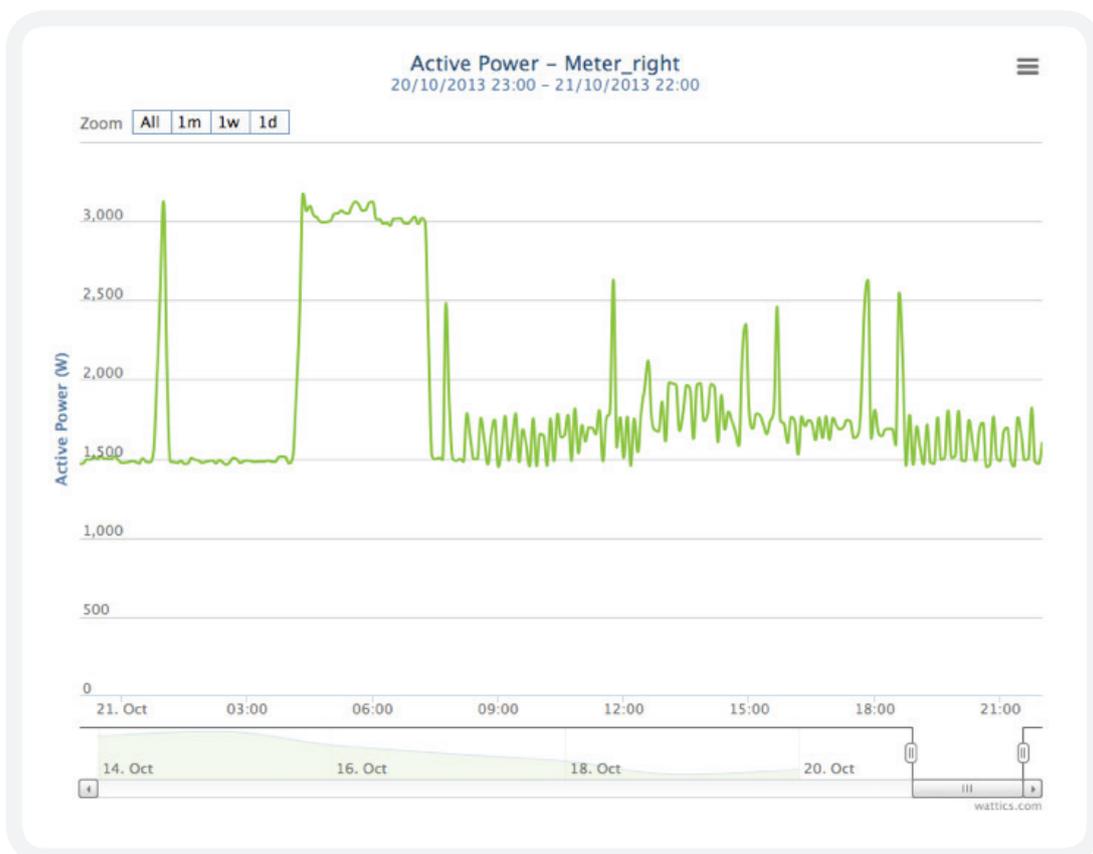
Please note that unit will remain selected unless un-selecting using a mouse left click.

3. DISCOVERING YOUR DASHBOARD LAYOUT

- **Right Side Control Panel** is available in certain features only and allows you to filter different types of data according to different time periods



- **Central area** is the area where data is displayed. Data export functions are always available through the top right icon ☰ of the central area.



3. DISCOVERING YOUR DASHBOARD LAYOUT

You can widen the central area by clicking the  and  buttons.



The Wattics Assistance button at the bottom left is available when assistance is needed. Your request will be immediately sent to the Wattics support team and answered within 24 hours



Wattics assistance ✕

Your satisfaction is our priority!
Please, let us know how we can assist you.

Subject :

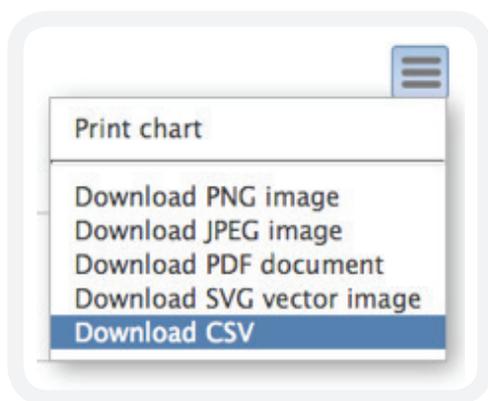
Description :

4. WORKING WITH RAW DATA

High-frequency sampling with our meters allows access and visualization of the wide range of electrical parameters for deep analysis.

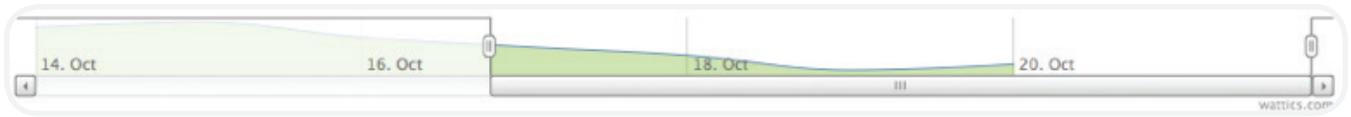


Zoom buttons allow you to zoom in on the last day, week and month of data. Navigating through different periods of time allows you to visualise the latest readings and analyse daily/weekly patterns.

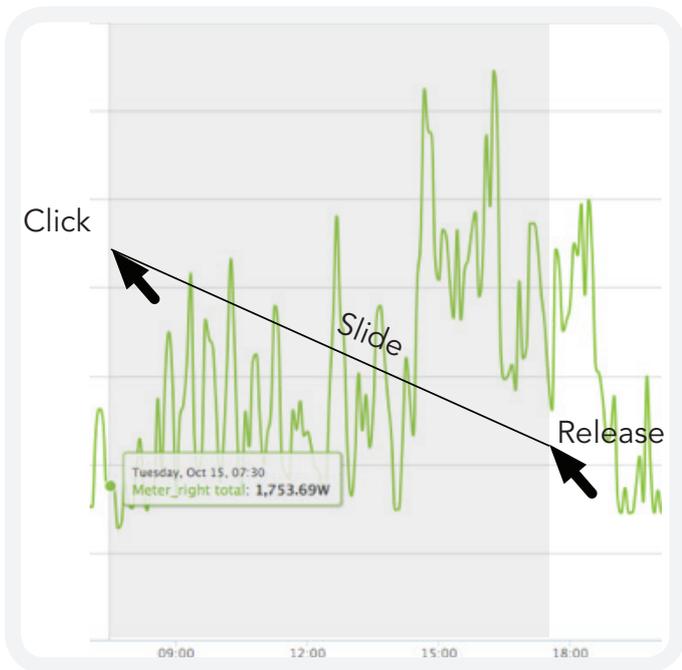


The  Export icon can be used to export data to image, PDF and csv Excel format.

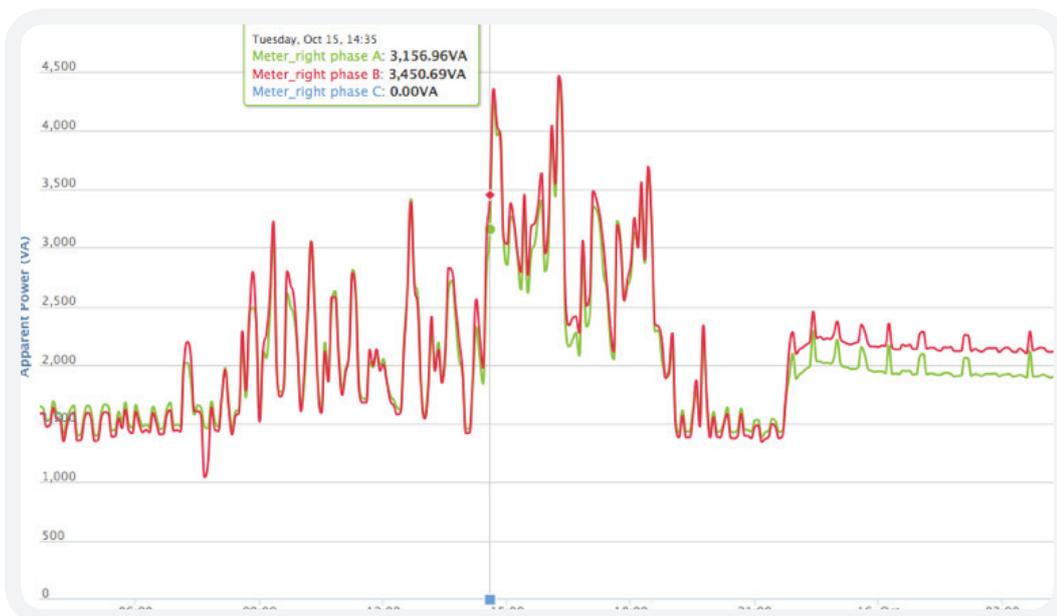
4. WORKING WITH RAW DATA



The time selection tool located at the bottom of the display area can be used to select a custom period of data, allowing quick visualization of data over different periods. This tool is generally useful to analyse and compare power levels over large periods of time.



You can also directly interact with the display area, by selecting with the mouse which time period to zoom in. You need to click at the start of the time period you are interested in, hold the click and slide the mouse to the end of the time period you are interested in. Releasing the mouse click will trigger the display to zoom into the selected time period.

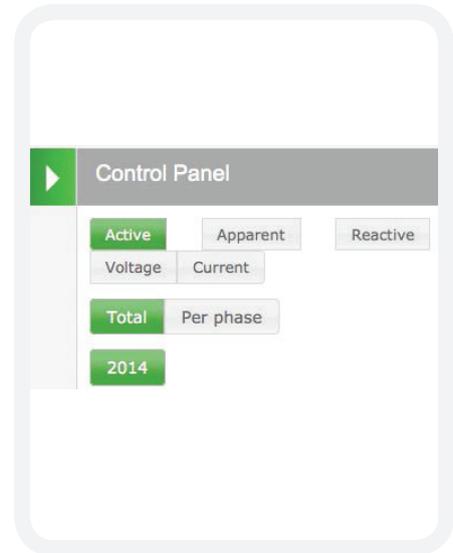


Moving the mouse over the graph also allows you to display exact values for the chosen parameters.

4. WORKING WITH RAW DATA

You can select which parameters to display using the Right Side Control Panel. Parameters available include:

- Active power
- Apparent power
- Reactive power
- RMS current
- RMS voltage
- Voltage harmonics
- Current harmonics



5. VIEWING YOUR SITE ATTRIBUTES

Through the Attributes top menu tab, Wattics dashboard allows you to visualise and edit address, contacts tariff applied and meter deployed for all your sites. You can also set up Energy Performance Indicators (EPI's).

A screenshot of the Wattics dashboard interface. It is divided into several sections:

- Site details:** Name: ABC Lab, Address: 4, JAMESON ST, City: DUBLIN, Country: IRELAND.
- Site contact:** Name: SEAN SMITH, Email: SEAN.SMITH@ABC.COM, Phone: n/a, Mobile: 0842345678. Includes an edit icon and a photo of the site with an 'Update image...' link.
- Measured Values:** A blue info box states 'INFO! There is no Measured Value created yet'. A green 'New Measured Value' button is present.
- Electricity tariffs:** Supplier: Unknown, Plan: Static, Since: 2014-01-01, Night Units: €0.0817/kWh, Summer Day Units: €0.157/kWh, Winter Day Units: €0.1743/kWh, Summer starts: 04/01, Winter starts: 11/01.
- Meters:** A table with columns: Name, Reference, Deployment, Type, Status.

Name	Reference	Deployment	Type	Status
Main Switch Room	33120012	Fri Mar 14 2014		Operational

5. VIEWING YOUR SITE ATTRIBUTES

By clicking on different units monitored in the left side panel you can visualise the operational status for the meters deployed in your sites.

Meter details

Name : Board L-4-2
Reference : 30260006
Type : Electricity meter
Installation : Mon Oct 14 2013

Meter status

Status : The meter is operative and currently sending data
Last data received : Tue, 22 Oct 2013 00:05:00 GMT

Measured values can be inputted in the attributes tab. Measured values allow you to create Energy Performance Indicators (EPI) or normalize data in Breakdown tab.

Name*

Description

Frequency*

Public

Required*

The name and description of the EPI must be entered, as well as how often the EPI will be updated, e.g. daily, monthly or yearly.

HDD Edit Delete

Description: This Measurement values normalises kWh readings

Frequency: daily

Public: true

Created by me

Name*

Description

Frequency*

Public

Required*

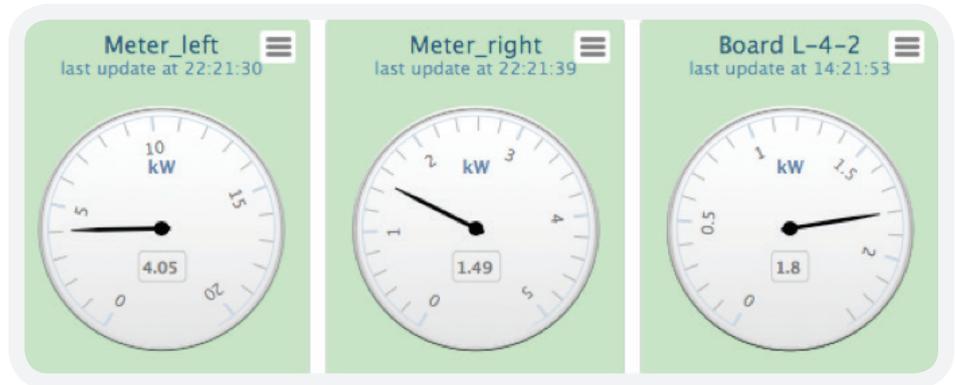
You can create as many EPIs as you want and update settings by clicking on them in the Attribute page.

You will need to click on a measured value box to update values.

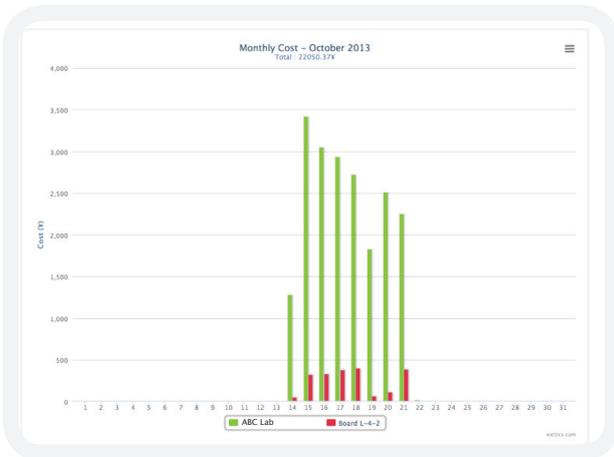


6. GETTING A SNAPSHOT OF YOUR LIVE CONSUMPTION

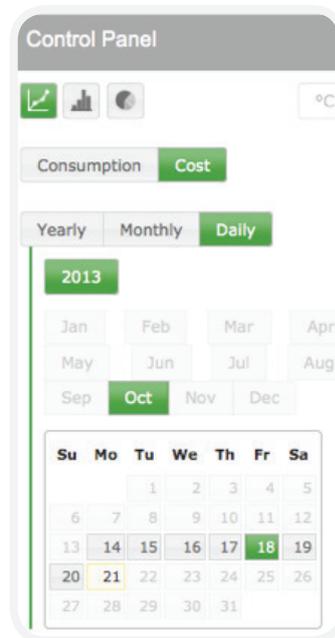
The dashboard Live Consumption tab informs you of the current load demand in your sites and your sub-boards, and when available selected appliances are currently on. By clicking on different units monitored in the left side panel you can navigate through all equipment within your sites. A green coloured background means that equipment is on and that load demand is > 0.



7. ANALYSING THE BREAKDOWN OF YOUR ENERGY USE & SPEND



The dashboard's Breakdown tab allows you to analyse and compare your consumption and associated costs over various periods. You can discover increase/decrease trends over periods and calculate your savings.



The Right Side Control Panel helps you select which data to display, depending on whether you want to compare consumption and cost over hours, days and months.

After setting up measured values in the Attributes tab you can normalise your use or create EPIs and view the results in the Breakdown tab.

Energy Performance Indicator & Normalization

Divide by:



8. USING THE ACTIVITY TRACKER TO FIND PATTERNS AND ANOMALIES

The Activity Tracker tab represents power consumption in a 2D graph where the kWh consumption values for each 30-min time slot are represented as coloured squares.

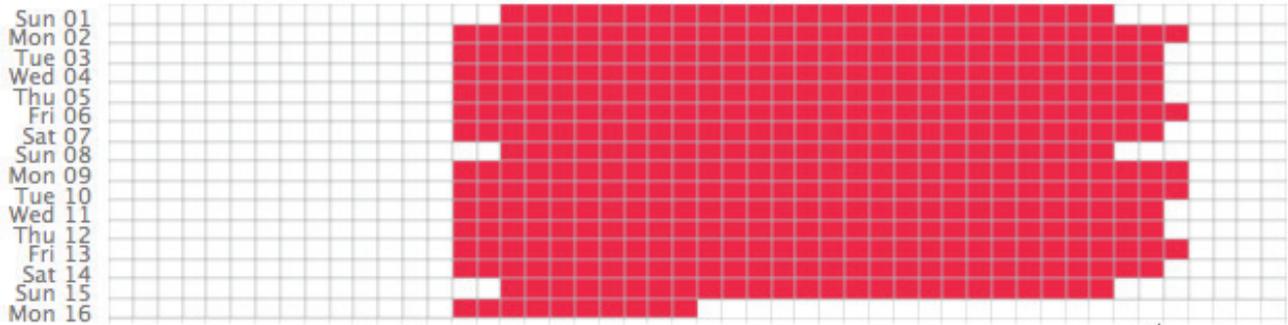
The different colour tints indicate power activity levels including 'low', 'low-medium', 'medium-high' and 'high' for the selected appliance or board.



Such a data representation allows quick evaluation of habits/patterns in power consumption and when load demand is at its maximum. Periods of high power activity can often appear at unexpected times, and prove to be sources of wastage. For instance a piece of equipment left on overnight will generate a dark green tint which will be immediately visible on the Activity Tracker.

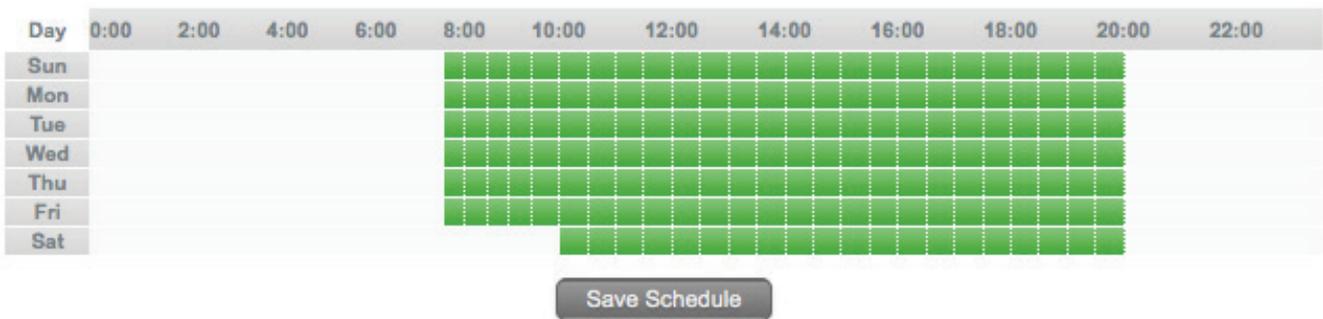
9. ANALYSING YOUR OPERATIONS COST AND OUT OF HOURS WASTAGE

The Operations Analyser tab informs how much you are wasting and helps you investigate how much you could save by implementing better operations schedules.



Select the electrical component you would like to analyse with the dashboard left menu. If no operations schedule is configured you need to set the expected time schedule of this electrical component, e.g. 6am to 11pm for a kitchen extract fan.

Use your mouse to select expected time of use in the scheduler and save Operations schedules.



The Operations electricity cost will be updated and the out-of-hours energy cost will be highlighted. This allows you to fix non-optimised timers, assess the cost of not paying attention to electricity use, and to investigate how much you could save by reducing Operations hours or moving Operations to nighttime tariff.

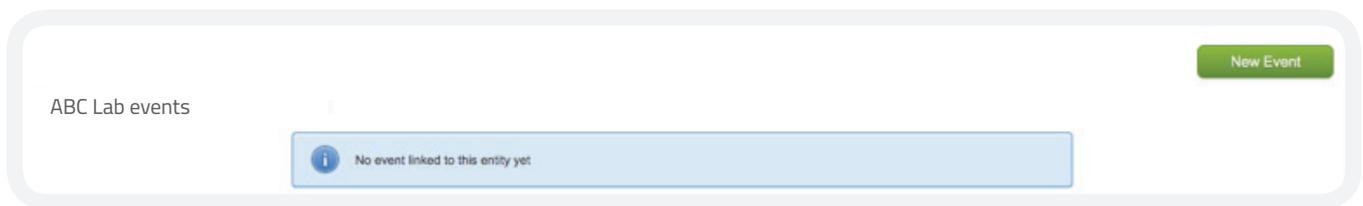


Total monthly cost : 15.42 €
 Operations cost : 13.96 € ?
 Wastage cost : 1.46 € ?

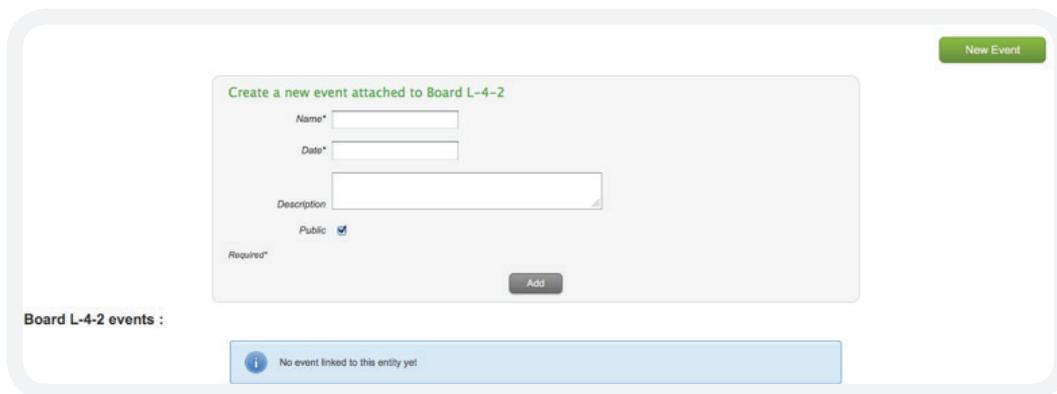
10. USING THE EVENTS TRACKER TO TRACK SAVINGS

Tracking your savings is an important step following implementation of energy efficiency measures.

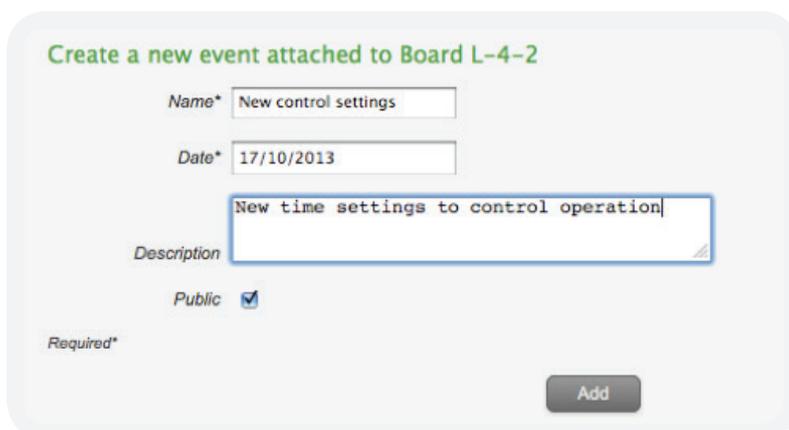
The dashboard's Event Tracker tool allows you to keep track of your energy events and calculate automatically the consumption average daily cost before and after each event, allowing you to know how much money you are saving each day thanks to your modifications.



Initially you will see no events linked to your account. The first step is to identify whether the changes made affect all your sites, a single board or even a single piece of equipment. First you need to select which unit is targeted by this event using the Left Side Panel.



Next, you need to click on  to create a new event connected to the unit selected.



You must enter information related to the event, such as the event name, the date the event took place and a description of the changes for the record.

You can click on the 'Public' button if you want your event to be visible by all users that have access to the site. Do not click this button if you want the event tracker to be private to your account.

10. USING THE EVENTS TRACKER TO TRACK SAVINGS

Board L-4-2 events :

NEW CONTROL SETTINGS

[Edit](#) [Delete](#)

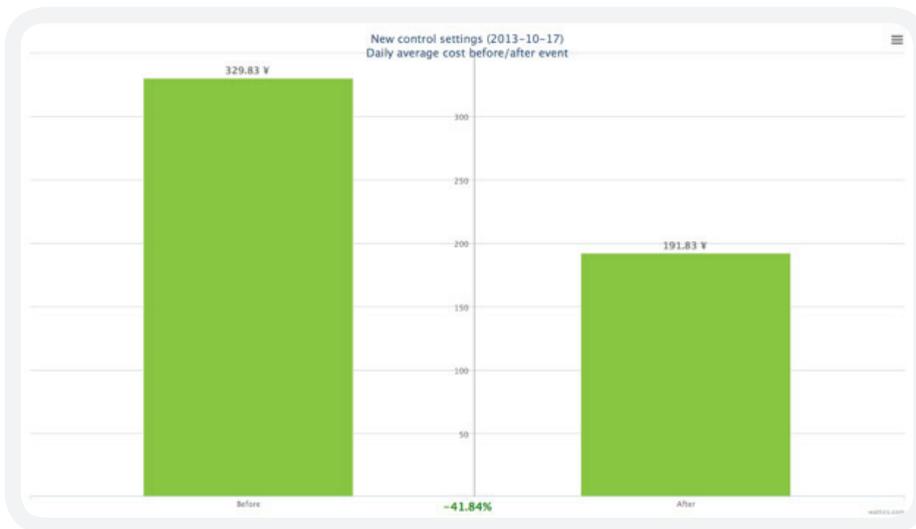
date: 2013-10-17

description: New time settings to control operation

public : true

Created by me

All events created through the Events Tracker will appear as clickable tabs.



By clicking on the tabs you can visualise the daily average cost before and after the event.

Board L-4-2 events :

NEW CONTROL SETTINGS

[Edit](#) [Delete](#)

date: 2013-10-17

description: New time settings to control operation

public : true

Created by me

Are you sure?

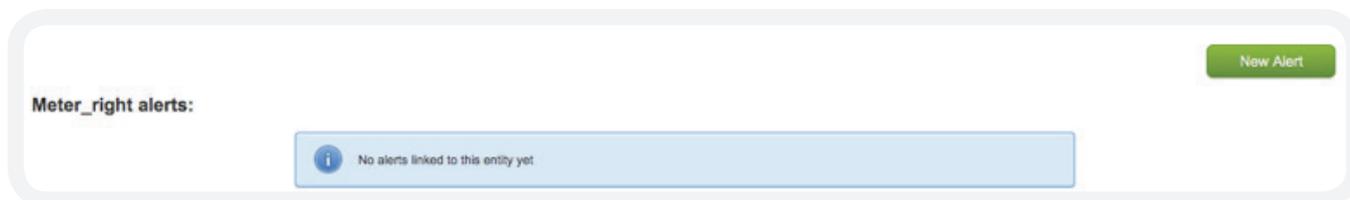
Cancel

OK

Events can also be edited or deleted by the user by clicking on the Edit and Delete buttons.

11. RECEIVING ALERTS WHEN CONSUMPTION IS UNUSUAL

The dashboard's Alerts tab allows you to create alerts to be notified as soon as cost or consumption increases/decreases.



You will initially have no alerts set up and you need to click on **New Alert** button to create a new email or sms alert.

Create a new alert for Meter_right

Alert type : Percentage Threshold

Send **SMS** to **Ireland +353** **845566778**

if Meter_right **cost** **increase** by **10** % over a **month**

Add

Create a new alert for Meter_right

Alert type : Percentage Threshold

Send **SMS** to **Ireland +353** **845566778**

if Meter_right **consumption** is over **10** kWh on a **daily** base

Add

Create a new alert for Chiller 1

Alert type : Percentage Threshold Window

Send **E-mail** to **customer@xyz.com**

if Chiller 1 is **ON** between **22** and **05** h

Add

You can choose between alerts based on percentage increases/decreases, alerts based on thresholds comparison, and alerts based on power activity between time windows (only for appliances).

Select the unit you are interested in (site/board/appliance) and click 'Add' to register and activate your alerts.

When returning to the Alerts tab you will find a log of all alerts sent, and you can edit, delete or add new alerts.