

Energia Connect360

Smart Energy Analytics

Connect360 Process



Connect360: Your Welcome Package

- You will receive a package with your devices.
- This will contain the below:

1 x IoT Gateway



1 x 3 Phase Clamp (630A)



1 x Single Phase Clamp (150A)

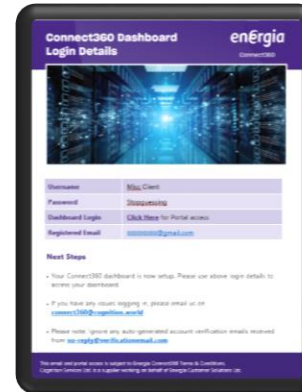


Connect360: Your Welcome Email

- You will receive an email with instructions and guidance.
- Introductory video can be found [here](#)

Welcome Email:

Portal Log In Details



Installation instructions



Connect 360: IoT Device

- IoT Device takes data from your site to monitor usage
- Plug in the Gateway within close range of good Wi-Fi signal.
- Follow these [instructions](#) for how to connect the Gateway with your Wi-Fi signal
- Never plug out the Gateway - otherwise data will be lost.
- 20+ sensors can connect per Gateway
- If you weren't sent a Gateway, skip this step. If you don't have one, please [contact us](#).



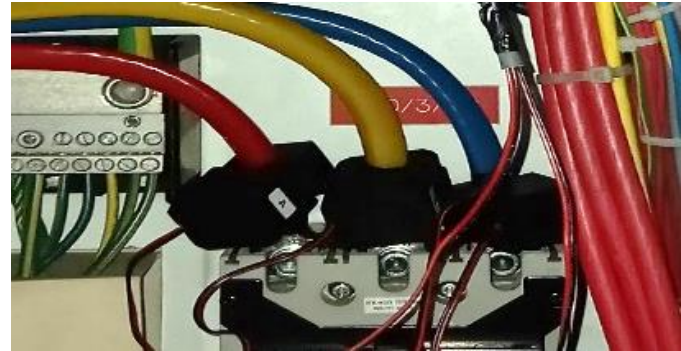
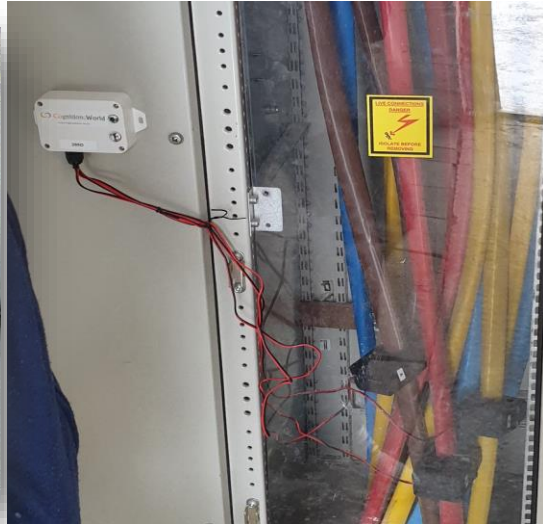
Slide the 3 pin plug into the transmitter

Connect360: Install Monitoring Sensors

- **3 Phase Large Clamps (630A)**
 - Connect the 3 clamp sensor to 3 live wires on the MAINS electricity incomer
 - Alternatively if you can't find your mains or you have a different monitoring requirements you can connect the sensor to either:
 - A 3 phase high consuming machine or 3 machines
- **1 Phase Clamp (150A)**
 - Connect the 1 clamp sensor on the live wire of an machine.
 - Alternatively use it as a roaming clamp to test consumption levels of various machines across your site.

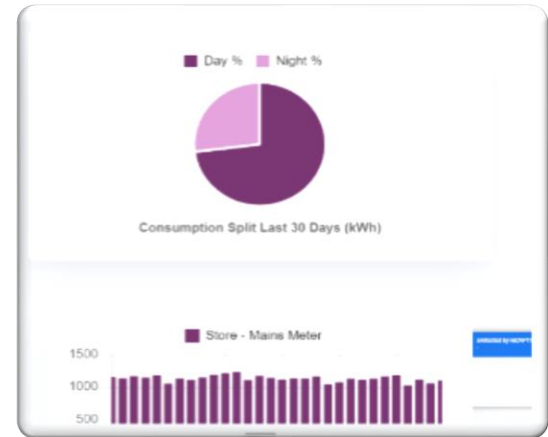


Connect360: Connecting Monitors



Connect360: Monitor Your Data

- Monitor **out of hours** activity
- Understand **main** consumers of electricity
- Evidence based **metrics** for management meetings
- Capture **fluctuations** in weather temperatures
- Understand daily **consumptions**
- Track **savings** related to the install of new equipment
- **Verify** proposed savings from machinery manufacturers
- Track the difference from staff / processes
- Track supplier **movements** in and out of your site
- Understand impact of **weather** on your site




Full week	Full month
Last week vs previous week	November vs October
Coolock - Chadwicks : 2%↓	Coolock - Chadwicks : 34.7%↑
Walkinstown - Chadwicks : 2%↓	Walkinstown - Chadwicks : 1.8%↓
Sallynoggin - Chadwicks : 1%↓	Sallynoggin - Chadwicks : 27.6%↑

Connect360: Overview

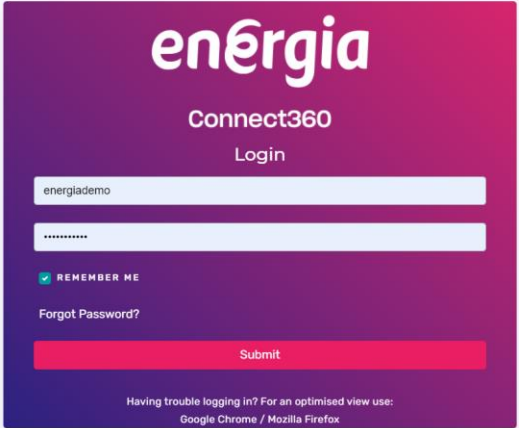
1. Getting Your Credentials & Gaining Access
2. Logging In Via The Login Page
3. Understanding The Dashboard On The Welcome Page
4. Understanding The Sidebar
5. Understanding Modules
6. Live Sensor Status
7. Tailoring Your Data
8. Tracking Your Totals
9. The Interrogation Centre
10. The Alert Centre
11. Your Individual Modules
12. A More Detailed Look At Modules
13. FAQs

Connect360: Getting Your Log In Details

- You will receive your login details confirmation via email
- Go to the “Dashboard Login” to access the Portal
- You will then receive an authentication email from reply@verificationemail.Com
- Only once you have authenticated via the confirmation link will you be able to access the portal
- If you have any questions email: connect360@cognition.World

1	Device Delivery Information:
Delivery Address	Daniel Horgan, Energia HQ, Blanchardstown, Dublin
Package Type	1 x Elec Mains Monitor (clamps) 1 x Elec Sub Meter 1 x IoT Network Wifi Mini-Gateway
Tracing Number	Tracking Number
2	Portal Login Details:
Username	Test.daniel
Password	Test.daniel123!
Dashboard Login	Click here for portal access
3	Support & Guidance:
Guidance Document here	
Installation Guidance Video:	
	

Connect360: Logging In



The screenshot shows the Connect360 login interface. The page has a purple and blue gradient background. At the top, the 'enÉrgia' logo is displayed in white, followed by 'Connect360' and 'Login' in a smaller white font. Below this, there are two white input fields: the first contains 'energiademo' and the second contains a masked password '*****'. A green checkmark icon is next to the text 'REMEMBER ME'. Below the input fields is a link that says 'Forgot Password?'. At the bottom of the form is a red 'Submit' button. Annotations with arrows point to these elements: 'Username here' points to the first input field, 'Password here' points to the second, and 'Forgotten your password? Click here' points to the 'Forgot Password?' link. At the very bottom of the page, there is a small line of text: 'By inputting your data into this portal you are aware of, and authorise for, Cognition (Services) Ltd to use cookies to deliver our service to you. If you do not authorise this please do not continue or for more information [click here](#) CONTACT US'.

Access Issues?

- Please only use latest version of Chrome/Firefox/Microsoft Edge for best results.
- Please check with your IT team that your organisation is not using older versions of a browser.
- Please be aware that your organisation may have a firewall in place which will block access to unfamiliar website.
- Please contact your IT team for resolution to determine the above prior to contacting the Connect 360 Helpdesk.

Connect360: The Welcome Page

The screenshot displays the Connect360 dashboard interface. On the left is a sidebar with navigation options: Dashboard, Your Profile, Alert Centre, Interrogation Center, Sustainability, Activity, Quality, Asset Management, and Compliance. The main dashboard area shows energy consumption data for a factory in Dublin City, where the temperature is 9.0°C. It features three charts: a line chart for 15-minute consumption today, a bar chart for weekly consumption, and a pie chart for consumption split by day and night. A 'Support Icons' box with links for FAQs, Helpdesk, and Logout is located in the top right. A 'Details Page or Landing Page' label is on the right side of the dashboard area.

The Sidebar

- en^{er}gia
- Connect360
- Dashboard
- Your Profile
- Alert Centre
- Interrogation Center
- Modules:
 - Sustainability
 - Activity
 - Quality
 - Asset Management
 - Compliance

Support Icons

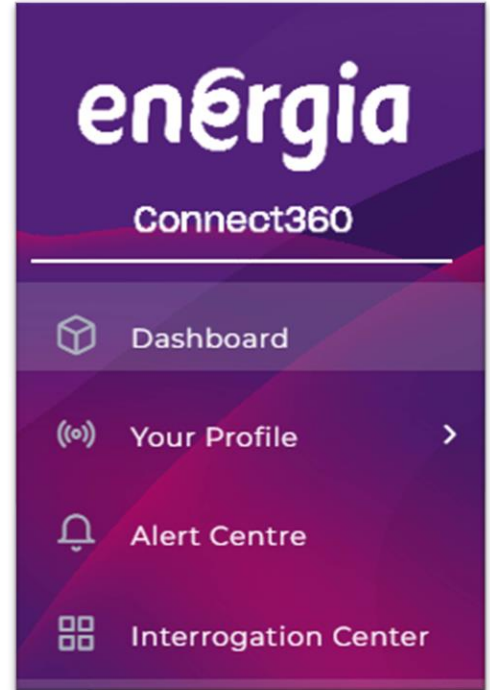
- FAQs
- Helpdesk
- Logout

Details Page or Landing Page

Connect360: The Sidebar

Smart Site Management Modules

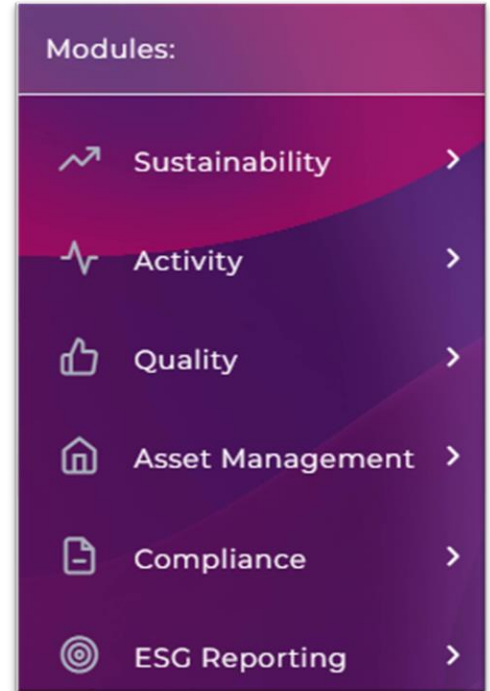
- Dashboard:
 - Shows the near real-time performance (KPI's) of the organisation. The page is divided as per the number of client sites which summarises daily and the weekly average consumption of energy and cost.
- Your Profile:
 - Your Sensors: lists the status of all live sensors and the ability download monthly sensor data in CSV format.
 - Your Information: a periodic report detailing the weekly totals of your site over the last month
 - Your notes: a place to manually enter any notes you wish to have associated with your data
- Alert Centre:
 - Gives the overview and the detailed information of the alarms or alert generated by the sensors.
- Interrogation Centre:
 - Slice and dice your data to discover any patterns, correlation or causation from your data



Connect360 Sidebar: Modules

Individual Operations Modules

- **Sustainability:**
 - Targets KPI's crucial to monitor sustainability goals: electricity, gas, water, LPG, diesel & oil
- **Activity:**
 - Shows data about the activities being performed or triggered: motion, luminosity and door openings.
- **Quality:**
 - Shows data on assets which can affect production quality such as temperature, humidity, CO2 and waste. The pages show real-time data and alerts divided by the sensors installed on the site.
- **Asset Management:**
 - How your assets are performing as per the Machine Utilisation, Maintenance and Vehicle tracking.
- **Compliance:**
 - Fill in details for your compliance reporting. Status on current report generation and accessing previously developed reports for audit purposes is provided in this section. The user is provided with a report template where data is auto-generated for audit purposes and free text areas are provided to complete the narrative details on compliance activities.
- **ESG Reporting:**
 - Manually enter all sustainability data to log and report monthly performance.



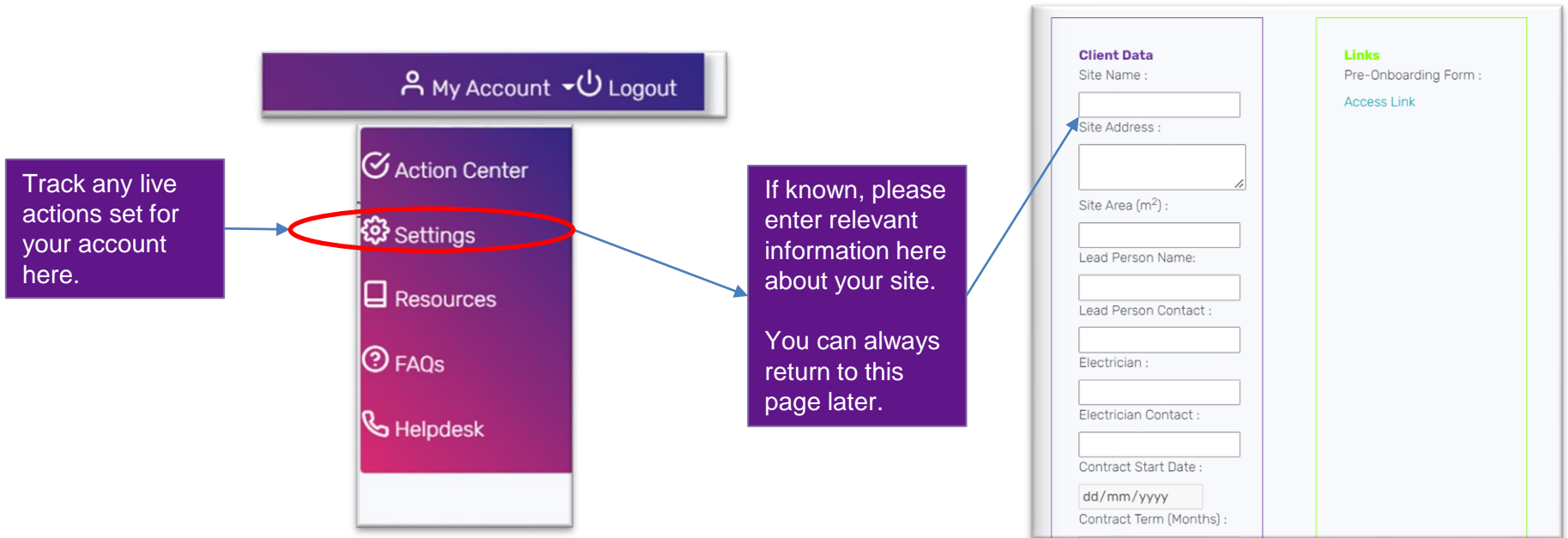
Connect360: Live Sensor Status

- Accessed your sensors here on the sidebar

1. Check the status of your sensors
 - a. Green is live, red is not broadcasting
2. Select the sensor you want to get the data from
3. Select your month and click download to get your CSV file

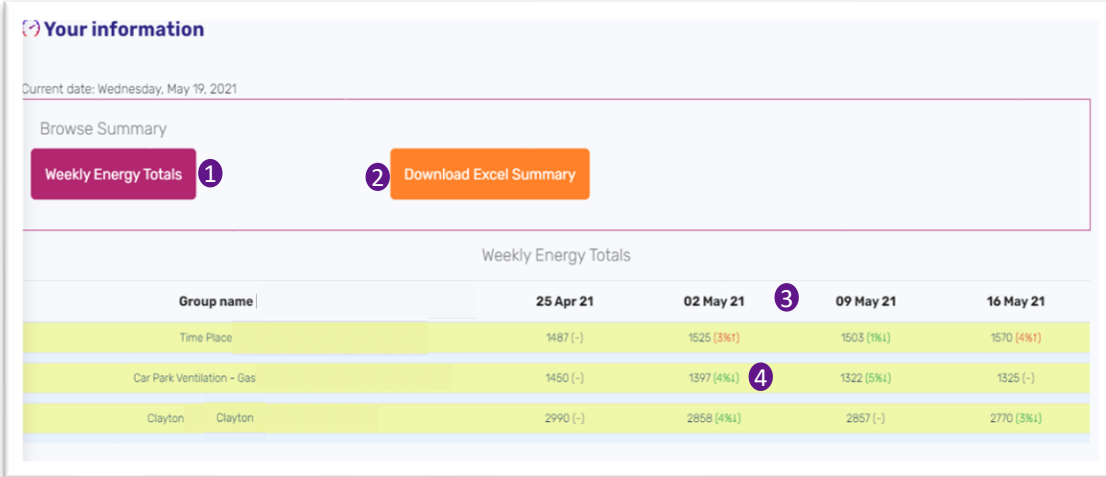
Status	Device Type	End User Site	Device Location	Asset	Last Seen	Device EUI	Select Device
1	Elec Mains Meter	Chadwicks	Walkinstown - Chadwicks	Walkinstown - Chadwicks	19 May 10:17 PM	2D437B	2
	Elec Mains Meter	Chadwicks	Coolock - Chadwicks	Coolock - Chadwicks	19 May 11:26 PM	1C06AE	Select
	Elec Mains Meter	Chadwicks	Sallynoggin - Chadwicks	Sallynoggin - Chadwicks	19 May 10:50 PM	2D966C	Select

Connect360 My Account: Tailor Your Data



Connect360: Tracking Your Totals

- Accessed via “Your Profile” on sidebar
 1. Select report types available
 - a. For Example kWh, Carbon, Temperature
 2. Download your monthly report
 3. Track the totals from last month
 4. See % change over previous week
- Your information allows you to see the trend in your weekly totals over the last month
- Download a copy of this data for further bespoke analysis



The screenshot shows the 'Your information' dashboard. At the top, it says 'Current date: Wednesday, May 19, 2021'. Below that is a 'Browse Summary' section with two buttons: 'Weekly Energy Totals' (marked with a circled 1) and 'Download Excel Summary' (marked with a circled 2). Below this is a table titled 'Weekly Energy Totals' with columns for 'Group name', '25 Apr 21', '02 May 21' (marked with a circled 3), '09 May 21', and '16 May 21'. The table has three rows of data, with the second row 'Car Park Ventilation - Gas' marked with a circled 4.

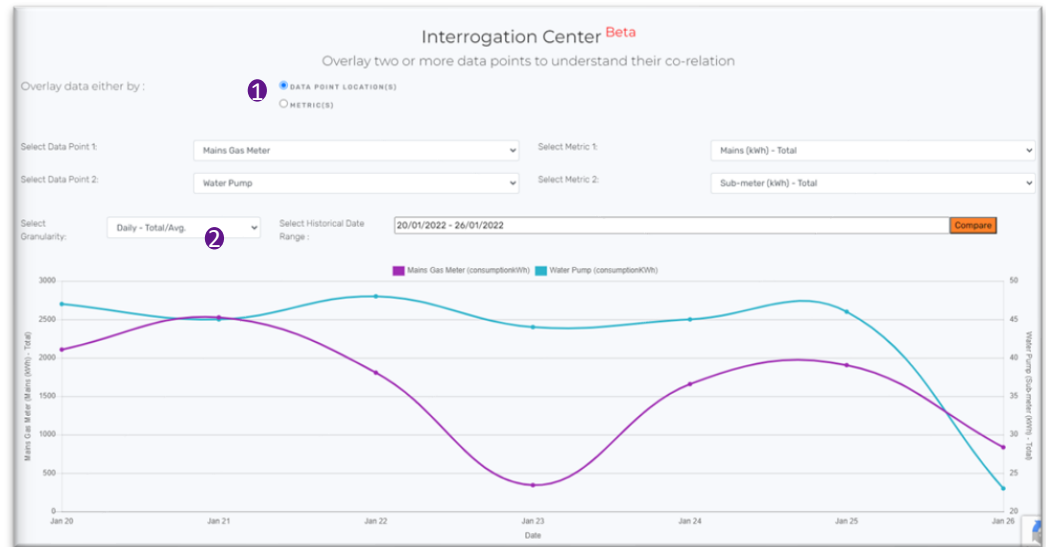
Group name	25 Apr 21	02 May 21	09 May 21	16 May 21
Time Place	1487 (-)	1525 (3%↑)	1503 (1%↓)	1570 (4%↑)
Car Park Ventilation - Gas	1450 (-)	1397 (4%↓)	1322 (5%↓)	1325 (-)
Clayton Clayton	2990 (-)	2858 (4%↓)	2857 (-)	2770 (3%↓)

Connect360: Interrogation Centre

- Accessed via “Interrogation Centre” on sidebar
- Uses a dual-axis display for visual representation
- Interrogation centre allows you to validate your own hypotheses to allow you to understand causation and get smarter in how you understand performance.

1. Choose your comparison type
 - a. By Asset or Process
 - b. By Metric

2. Visualise the data by day or by week



Connect360 Alert Centre

- Accessed via “Alert Centre” on sidebar
- Alerts are generated when either our generic, or pre-agreed, calculated tolerances are inputted into our database
- Set as tight or as loose a parameter as you require

1. What is the alert

2. How much above the tolerance

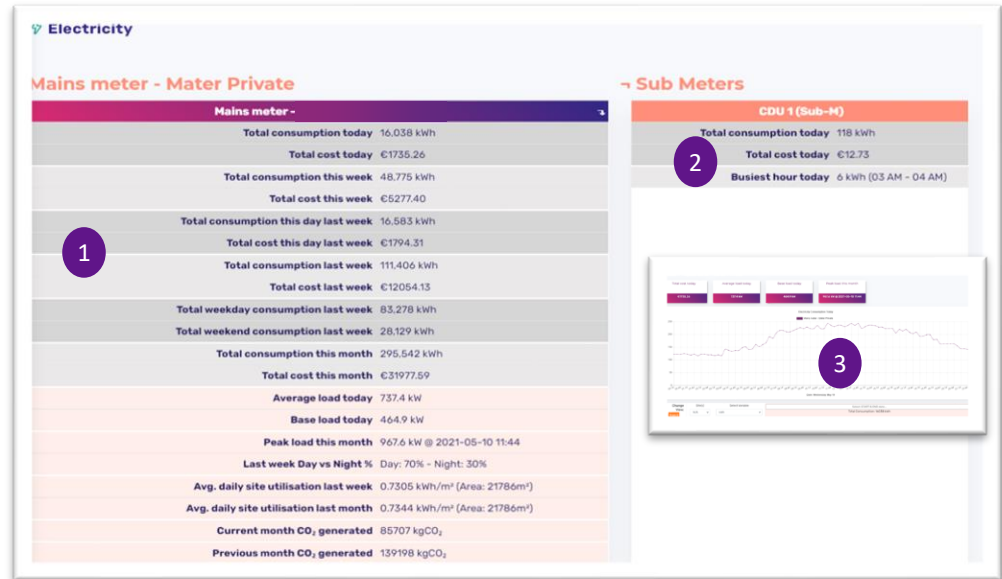
Alerts Landing Page

ALERTS IN THE LAST 24 HOURS

Time	Type	Asset	Extra € Incurred	Metric	Above Expected	Note
19-May 21:56	Elec	Twinner 1	0.12	1.6kWh	112%	
19-May 21:56	Elec	Strander 31	0.02	0.3kWh	128%	
19-May 21:46	Elec	Twinner 1	0.13	1.6kWh	113%	
19-May 21:46	Elec	Strander 30	0.18	2.3kWh	114%	
19-May 21:46	Elec	Strander 31	0.02	0.3kWh	128%	
19-May 21:36	Elec	Twinner 1	0.13	1.6kWh	113%	
19-May 21:36	Elec	Strander 30	0.24	3.1kWh	151%	
19-May 21:36	Elec	Strander 31	0.02	0.3kWh	125%	
19-May 21:26	Elec	Strander 30	0.24	3.1kWh	149%	
19-May 18:16	Elec	Strander 32	0.07	1kWh	124%	
19-May 18:06	Elec	Strander 32	0.15	1.9kWh	241%	

Connect360: Accessing the modules

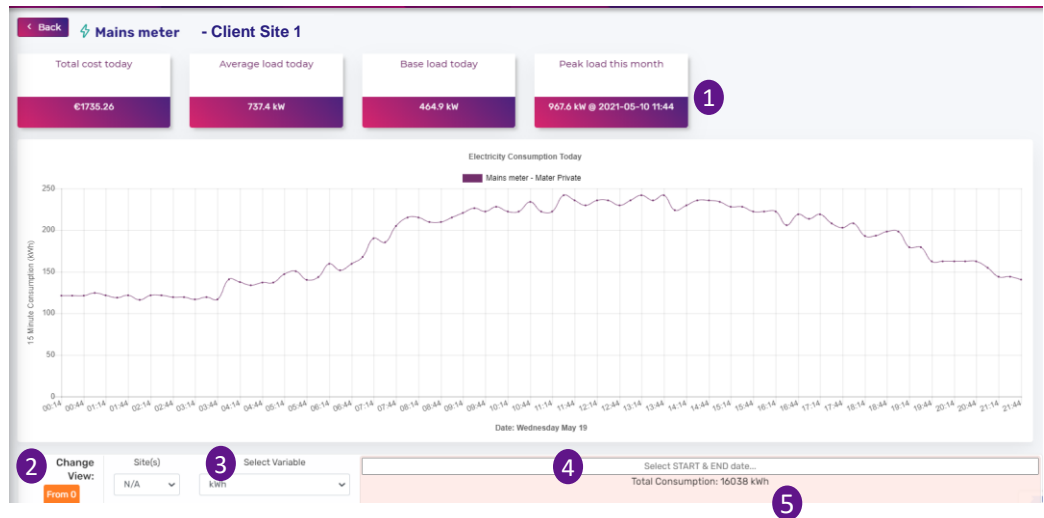
- Accessed via “Electricity” under “Sustainability” on sidebar.
 - Can also view gas and water if connected.
 - “Electricity” shows all mains and sub-meter data
1. All mains data appears here
 2. All sub-meter data appears here
 3. If you click on the boxes, you will see a more detailed graph for that meter. See next slide for more info.



Connect360: More Detailed Modules

- Accessed by clicking on the tables in the “Electricity” module.
- Give a more detailed view to see 15 minute trends.

1. Your KPIs are set here
2. Smooth the graph
3. Switch between €, KW or kWh
4. Click to access historic data by selecting a date range
5. Your total consumption





Connect360

FAQs

1. Devices & Hardware Portal Issues
2. Maintenance Support & Updates
3. Log-In Issues
4. Portal Issues

Email: connect360@cognition.world

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 **Cognition World**

Devices & Hardware

- **My device(s) looks broken or has stopped working?**
 - Please contact us as early as possible using the ‘helpdesk’ button on top of the page.
- **I suspect the batteries on a device(s) are running low?**
 - Please do not move or tamper with the device without prior consent. Please contact us through helpdesk immediately for direction. **Warning: tampering with any of the devices will void all warranties and may incur damage charges.**
- **How can I change the batteries of the device?**
 - Please do not move or tamper with the device without prior consent. Please call the helpdesk for authorisation in advance of touching any device. **Warning: tampering with any of the devices will void all warranties and may incur damage charges.**
- **How can I configure my device?**
 - All devices are pre-configured prior to arriving on site. You are not authorised to configure or change the workings of the device. We will mail any manuals / installation guidelines shortly after the device have been ordered. You can request additional copies from the Helpdesk.

Devices & Hardware

- **How long is the warranty period for the devices?**
 - We provide a minimum 1-year warranty on all devices. In some cases, we may provide a 2-year warranty. Please contact the Helpdesk or your account manager for more details.
- **Where can I find my device warranty details?**
 - Please contact the Helpdesk or your account manager for more information.
- **How can I verify the device is functioning optimally?**
 - Always ensure the device is in an open, unobstructed environment away from draughts & any moisture and in a place where it can receive adequate radio signal. Please also ensure any gateway(s) have not been accidentally plugged out, lost Wi-Fi signal (appropriate) or the site hasn't been subject to a power cut.

Maintenance, Support & Updates

- **How do I receive updates?**
 - Our portal is frequently updated to provide an enhanced service.
 - We make sure to deliver any updates during the night so disruptions to our service is minimised.
- **When do you conduct maintenance?**
 - We will typically notify you 24 hours before any planned maintenance outage.
- **How do I solve service issues?**
 - Our FAQ and knowledge-base sections are designed to solve straight-forward queries but please contact our Helpdesk when you can't find an answer to your problem.
 - On the top right corner of the screen select the 'helpdesk' button, fill the form & submit your query. You can also email us at:
 - connect360@ cognition.world (for Energia customers only)
 - info@cognition.world (for all other customers)
- **How can I verify if my support issue has been received?**
 - You should receive an email response from our system within 60 minutes. If not please email:
 - connect360@ cognition.world (for Energia customers)
 - info@cognition.world (for all other customers)

→ Sub Meters

Key Lighting - Shop Floor (Sub-M)	
Total consumption today	88 kWh
Total cost today	€10.14
Busiest hour today	1 kWh (04 AM - 05 AM)
Oven - Deli (Sub-M)	
Total consumption today	24 kWh
Total cost today	€2.76
Busiest hour today	1 kWh (07 AM - 08 AM)
Hot Counter - Deli (Sub-M)	
Total consumption today	26 kWh
Total cost today	€3.17
Busiest hour today	1 kWh (08 AM - 09 AM)
Small Oven - Bakery (Sub-M)	
Total consumption today	26 kWh
Total cost today	€2.83
Busiest hour today	2 kWh (06 AM - 07 AM)
Small oven - Deli (Sub-M)	
Total consumption today	0 kWh
Total cost today	€0.00
Busiest hour today	0 kWh (07 AM - 08 AM)
Frank & Honest coffee dock (Sub-M)	
Total consumption today	5 kWh
Total cost today	€0.53

Login Issues

- **What are the credentials to access the portal?**

- The credentials to your account will be emailed upon the start of the service. Please check your spam folder for the email if you do not see the verification email in your inbox. If you didn't receive the email, please contact our Helpdesk.

- **I have forgotten my password?**

- Go to the login page select “Forgot password?”. Enter your registered email and you will short receive a request code. Insert the details in the reset password form and complete the procedure.

- **Where can I find information about my sensors?**

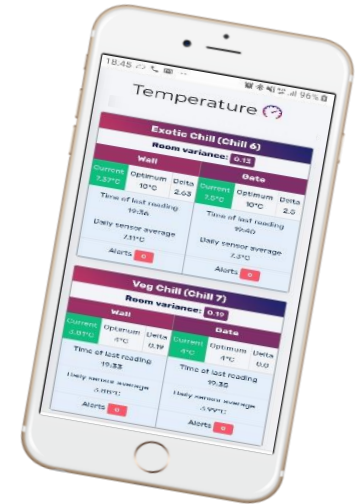
- The status of all the IoT devices installed on your site can be found on the “Your Sensors” link, available under the “Your Profile” section. If you cannot see the live status of the devices connected within your site please contact our Helpdesk’.

Login Issues

- **Where can I download the data from devices?**
 - In “Your Sensors” option, select the sensor, choose the month from the date picker you wish to download and click the ‘Download’ button. The data will be downloaded in CSV format.
- **What is the ‘timestamp’ in my CSV download?**
 - The Epoch Timestamp (also known as a Unix timestamp) is a universal standard for digitally recording date and time in an encoded format.
- **How can I view and manage alerts?**
 - The Alert Centre provides the current alarm status of the monitored assets/areas and overview of all the alarms within the business operations for the past 24 hours. These alerts will have been pre-determined by the Helpdesk.
- **Can I change the alerting thresholds on my own?**
 - No, you cannot change the alerting thresholds on your own. Please contact the Helpdesk.

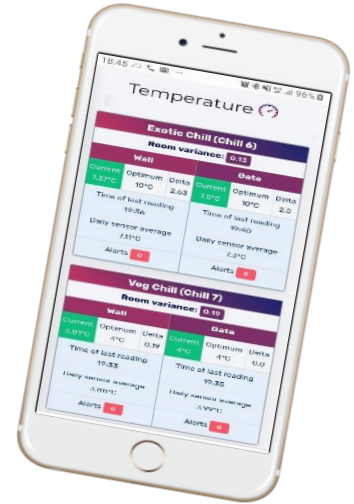
Portal Issues

- **I can't see the data I was expecting?**
 - Please check the sensors are online from the “Your Sensors” section. Please note that from midnight, if no new data has been broadcast, this may not appear on the screen. If the problem persists, please contact us at the Helpdesk.
- **I want to access more functionality or make changes in the portal. How do I do that?**
 - Please convey the details to the Helpdesk. You will be contacted (within 12 hours on business days and 24 hours on non-business days) by the team.
- **Why is the device showing an error?**
 - Errors can show when no data from the day is recorded. When the day changes, between 12 and 12:15, no data is recorded as per the interval set for devices. Also, if there is no activity of the door, the door sensor will display error in the alert section.
- **How are the KPI's arranged on the portal?**
 - The KPIs are configured by the Helpdesk



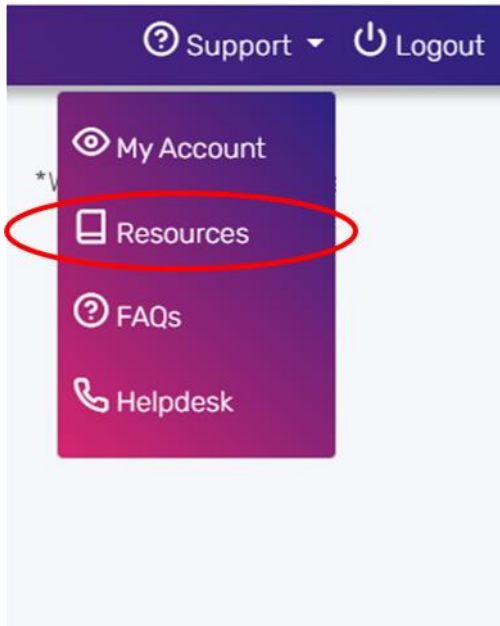
Portal Issues

- **How is my data used?**
 - Cognition World provides the information in near real-time about the energy consumption as well as asset and environmental based collected from the IoT devices. We do not share the data with any third-party agencies. For more information see our terms and condition.
- **How to renew/cancel my subscription?**
 - Please contact the Helpdesk
- **What happens to the lost or incorrect data?**
 - The data that has been lost or calculated incorrectly is backfilled based on past consumption.



The Resource Centre

From the top bar click support and select resources



Here you can access all the installation and tech sheets and supporting guides to help you.

The screenshot displays the 'Resources' page. It features a section titled 'Installation & Technical Sheets' with a table of documents. Each row includes 'Document Type', 'Category', 'Title', and a 'Download' button. Below this is a section titled 'Safety Sheets & Battery' with a similar table structure.

Document Type	Category	Title	Download
Instructions	CogPortal	Instructions to install the Cognition World portal as a shortcut on to a mobile phone	Download
Instructions	Elec Sub Meter - Wireless Clamp	Changing the Batteries on: Wireless Current Meter with CT (1 or 3 Clamp)	Download
Instructions	LoRa	How does LoRa work	Download
User Guide	Gateway	Indoor LoRa Gateway AP Version	Download
Installation Guide	Mini Wifi Gateway	LoRa Mini Gateway Plug In (LGW-MinI)	Download
Installation Guide	Analog Transmitter 4-20 mA interface	LoRa Analog Transmitter - with 4/20 mA interface	Download
Installation Guide	Elec Sub-Metering - Regowski Coils	Elec Sub-Metering using Regowski Coils Installation Guide	Download

Document Type	Category	Title	Download
Safety Sheet	Aerial Antenna	Elec Monitoring Transmission Unit Antenna Safety Sheet	Download

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Connect360

Thank you.

Email: connect360@cognition.world

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