



WINNER
Technical Innovation
of the Year – Product



**POWERING
THE FUTURE**

CONNECTED POWER

Socket level control, enabling total energy management locally or through the Honeywell cloud solution



ENERGY
Complete monitoring and control



CONVENIENCE
Multi-site supervision and remote management



SAFETY
Temperature monitoring and power alarming



CRITICAL ASSETS
Key equipment security and visibility



COMPLIANCE
Helping to meet efficiency targets and regulation

WHAT IS THE CONNECTED POWER SOLUTION?

DESIGNED TO REDUCE PLUG-IN ENERGY CONSUMPTION IN COMMERCIAL BUILDINGS

In three steps, Connected Power brings full visibility to monitor and control to the buildings plug-in equipment whether utilising local or cloud based control:

- 1 Replace traditional mechanical switch sockets with a range of intelligent networked electronic sockets



Logic Plus™



Metalclad Plus™



For use in MK Floorboxes

- 2 Wirelessly link the new intelligent sockets to a Connected Power Hub, and hardwire back to the on-premise supervisor or through the internet to a cloud supervisor



HUB

- 3 Control, monitor and gain actionable insights from all plug-in equipment across your estate, within your Building Management System dashboards.



TOTAL ENERGY MONITORING IS NOW POSSIBLE.

A TRUE STEP CHANGE IN POWER MANAGEMENT

50 Connected Power sockets incorporating innovative secure Mira mesh technology interlink wirelessly into a HUB.

Up to 50 HUBs can run from any single Connected Power System, re-using existing IP infrastructure, to give a maximum system capability of up to 2500 sockets or 5000 individual outlets.

The Building Management System Supervisor displays collective or granular information regarding plug load usage across the estate.

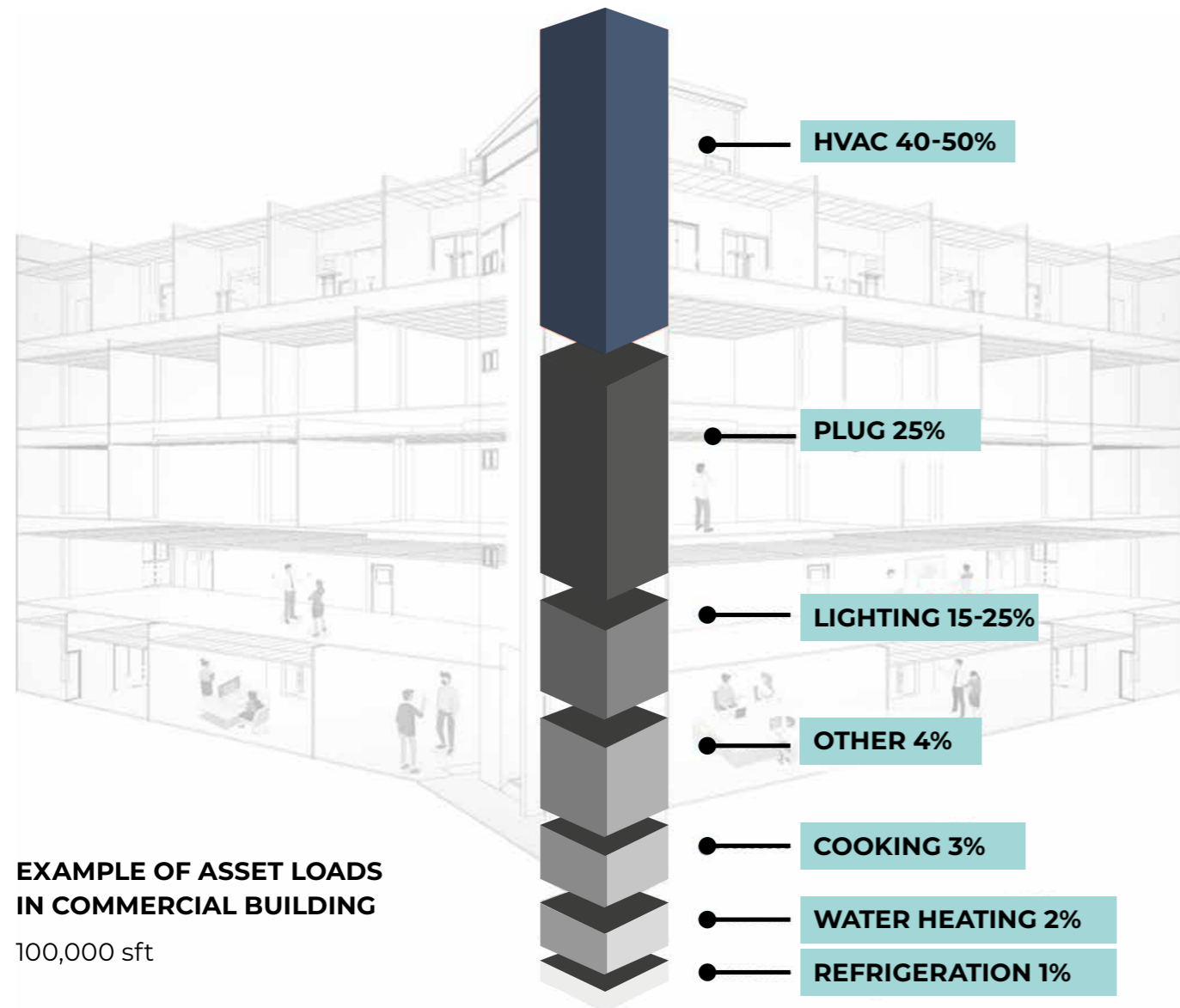
The user can then control, monitor and set alerts related to power usage for all plugged in devices, either locally or centrally utilising cloud connectivity.

WHY IS CONNECTED POWER ESSENTIAL?

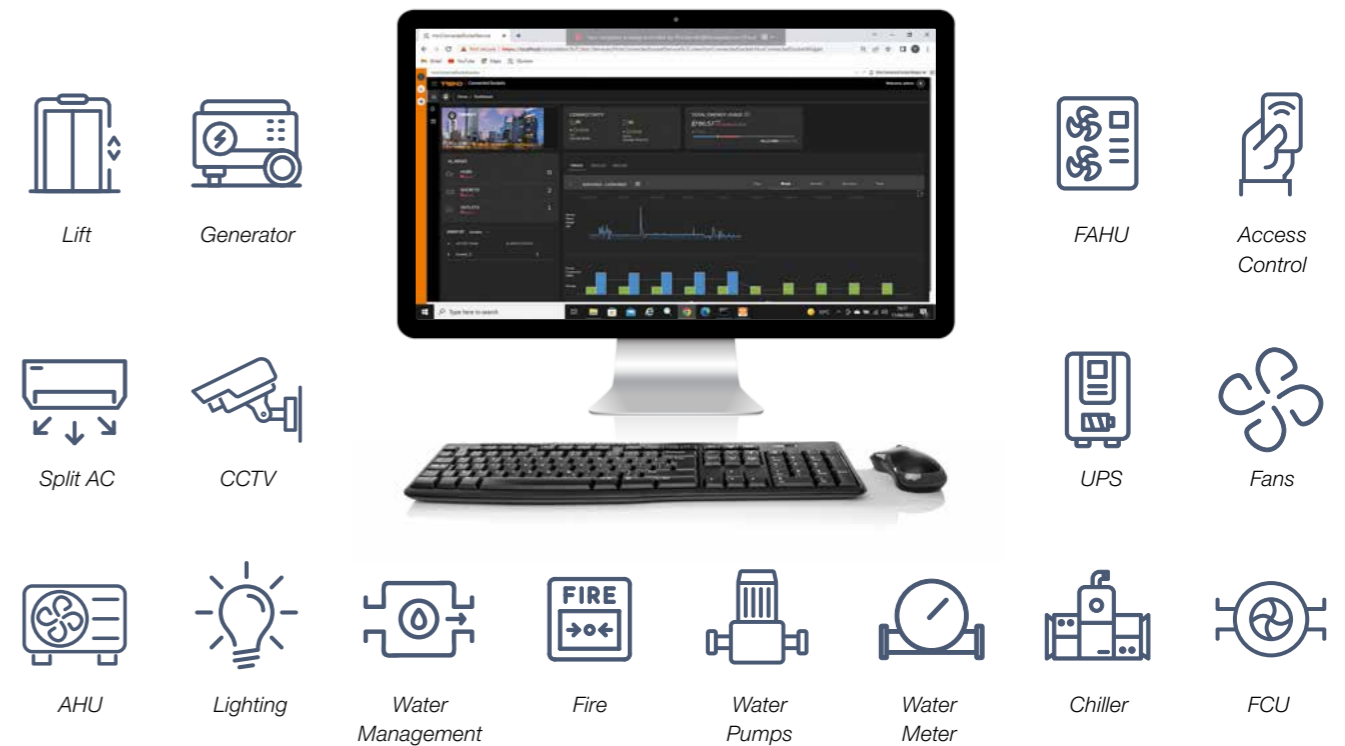
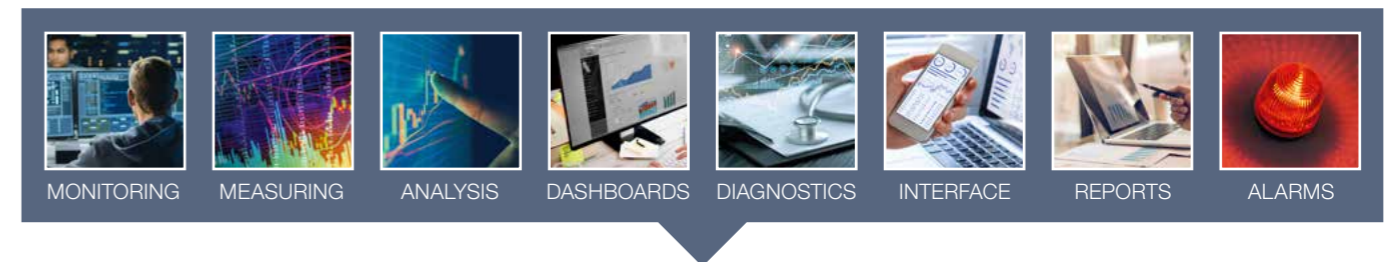
PLUG LOADS >25% OF A COMMERCIAL BUILDING'S ELECTRICAL USAGE

1 SMALL POWER ACCOUNTS FOR OVER 25%* OF ELECTRICAL USAGE IN COMMERCIAL BUILDINGS

Plug loads often remain unaddressed, leading to high amounts of wasted power from idle devices and standby loads.



2 THE CAPABILITY DOES NOT CURRENTLY EXIST TO CONTROL, MONITOR AND UNDERSTAND PLUG-IN ENERGY USAGE THROUGH A COMMERCIAL BUILDING MANAGEMENT SYSTEM STRUCTURE BELOW



*Plug & Process Loads | Better Buildings Initiative (energy.gov).
Poll, S. and C. Teubert 2012. Data referenced by US General Data Administration.

WHO VALUES CONNECTED POWER?

ENERGY MANAGERS

who have HVAC and lighting under control and are looking for that next energy saving opportunity.



- Hit aggressive energy reduction targets
- Find new tech innovations to use in response to Energy Saving Opportunity Scheme (ESOS) audits

FACILITIES MANAGERS

who need to ensure their building operates with minimum disruption.



- Turn equipment off remotely when it is not being used
- Monitor and be alerted to gradual increases in equipment energy usage prior to failure

SENIOR MANAGEMENT

who want to provide a safe and secure environment for all staff and visitors.



- Automatically turn off overloaded or overheating sockets
- Be alerted when staff use unauthorised equipment e.g. fan heaters



ESOS

THE ENERGY SAVING OPPORTUNITY SCHEME

ESOS is a mandatory energy assessment scheme, introduced by the UK Government to make sure large enterprises in the UK (that meet qualification criteria) are energy efficient. Under the scheme, large organisations are required to assess their energy usage every 4 years and to find new ways to save energy.

Please ask your Honeywell representative for more information and guidance.

HOW HAVE WE DESIGNED CONNECTED POWER?

STAGE 1

SITE SURVEY

Work with our dedicated team to highlight what is right for your installation.



STAGE 2

SPECIFICATION

We will provide a tailored list of what is needed for your project.



STAGE 3

INSTALLATION

Once approved, the sockets and HUBs will be installed by your electrical contractor.



STAGE 4

COMMISSIONING

The electrical contractor will build the system virtually linking HUBs and sockets using our portable app.



STAGE 5

SUPERVISOR CONNECTION

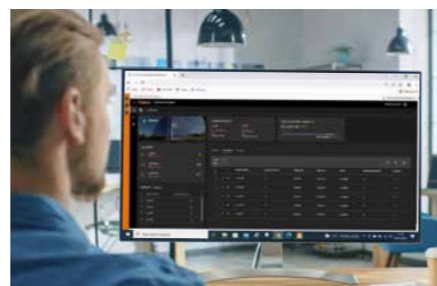
The system integrator will discover the network within either the on-premise or cloud-based Supervisor.



STAGE 6

CONFIGURATION

The system integrator will configure the system to your exact requirements.



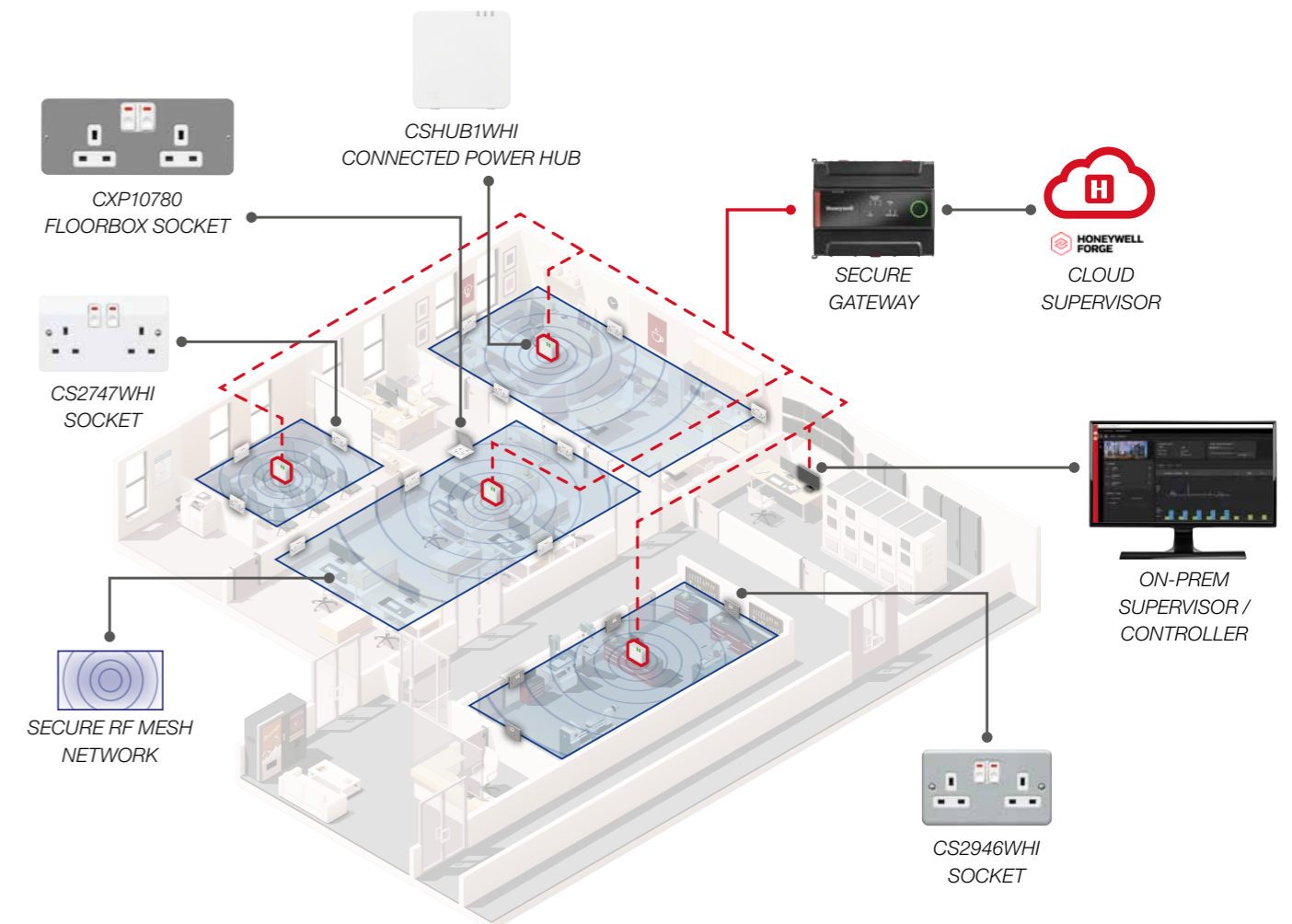
INSTALLATION ARCHITECTURE

Honeywell's Connected Power solution utilizes the building's existing electrical infrastructure and wiring. With a combination of secure connectivity using innovative Mira mesh technology and Honeywell hardware, the solution provides complete control of plug-in equipment across the building or estate.

Traditional Building Management Systems (BMS) are typically installed on-site (locally) and require dedicated hardware and software infrastructure to effectively manage functions like heating, ventilation, air conditioning (HVAC), lighting, security, and other building systems.

Honeywell offers the user two invaluable options to monitor and control all estate functions: either on-premise (locally) through full BMS integration or remotely through a unique cloud-based Supervisor - Remote Building Manager (RBM).

Honeywell's cloud-based RBM extension gives Connected Power users access to additional benefits including remote access to the system centrally, accessibility from any device with an internet connection, scalability to accommodate the needs of buildings of various sizes and complexities, reduced infrastructure costs, and the additional analytics and insights provided by utilizing the extended RBM dashboards.



CONNECTED POWER KEY SYSTEM FUNCTIONALITY



GROUPING

Outlets can be grouped together by location or equipment type for benchmarking and data analysis.



SCHEDULES

Outlets can be scheduled individually or by group.



CONTROL

Outlets can be set to turn ON, OFF or LOCKED ON or LOCKED OFF. When ON or OFF, outlets can also be controlled using the button on the outlet as you would do normally.



ENERGY MONITORING

The energy consumption of each outlet is continually monitored and reported into the system at regular intervals.



TEMPERATURE MONITORING

The internal temperature of each socket is continually monitored for conditions resulting in excessive heat.



ALERTS

Alerts can be set to any outlet and can be related to power levels rising above or falling below a threshold or the internal socket temperature rising above a particular setpoint.



RESPONSE TO ALERTS

On screen notices and emails can be generated. Outlets can be forced to change state automatically to the needs of the customers.



DISPLAY AND ANALYSE

Through unique Connected Power dashboards user will be able to visually display all levels of energy usage and data for outlets, groups and the entire system - drilling down to understand the detail as needed.

SCHOOL ENERGY MANAGEMENT

CUSTOMER PROBLEM

Plugged in equipment is rarely turned off and often left to run or 'on standby' 24/7.

We saw Energy Efficiency in a number of different building locations.



KITCHEN

Turned OFF all possible equipment when service had finished and turned on again the next day ready for use.



MUSIC ROOM

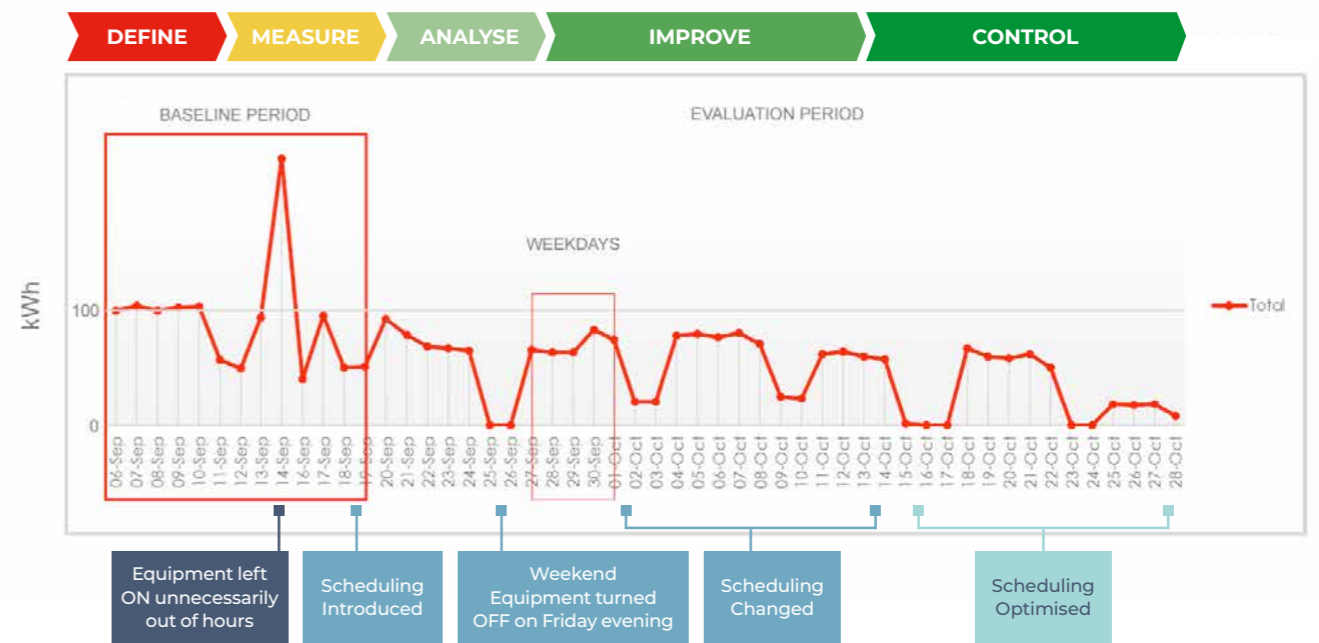
Turned OFF all electronic equipment at the end of the school day. Pupils would need to turn on again when needed.



GYMNASIUM

Monitored granular energy consumption for usage with intent of turning OFF when machines were left unused for 10 minutes or longer.

ENERGY USAGE BY DAY THROUGH BASELINE AND EVALUATION PERIODS



TRUSTED PROVIDERS

The leading HONEYWELL brand MK Electric offers the first fully integrated building small power management system. Ideal for both new build or retrofit, this market changing innovation enables both on-premise and cloud based Building Management Systems to automatically monitor and control centrally or at an individual plug, helping to support safer and more energy efficient buildings.

Contact your Systems Integrator for more information and to book your free site visit now or speak to the Connected Power technical team direct - 01268 563720



MULTI-AWARD WINNING SOLUTION



TECHNICAL INNOVATION OF THE YEAR – PRODUCT



COMMERCIAL PRODUCT OF THE YEAR & INDUSTRIAL PRODUCT OF THE YEAR



PHYSICAL TECHNOLOGY OF THE YEAR – OTHER



SMART BUILDINGS PRODUCT OF THE YEAR

[Hwll.co/discoverconnectedpower](https://www.hwll.co/discoverconnectedpower)
[#discoverconnectedpower](https://twitter.com/discoverconnectedpower)



POWERING THE FUTURE