

The Energy Crisis

**In times of uncertain
global supply and high costs**

**We need to help everyone make the most of their
Energy and increase Sustainability**



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Analyse energy usage and reduce waste

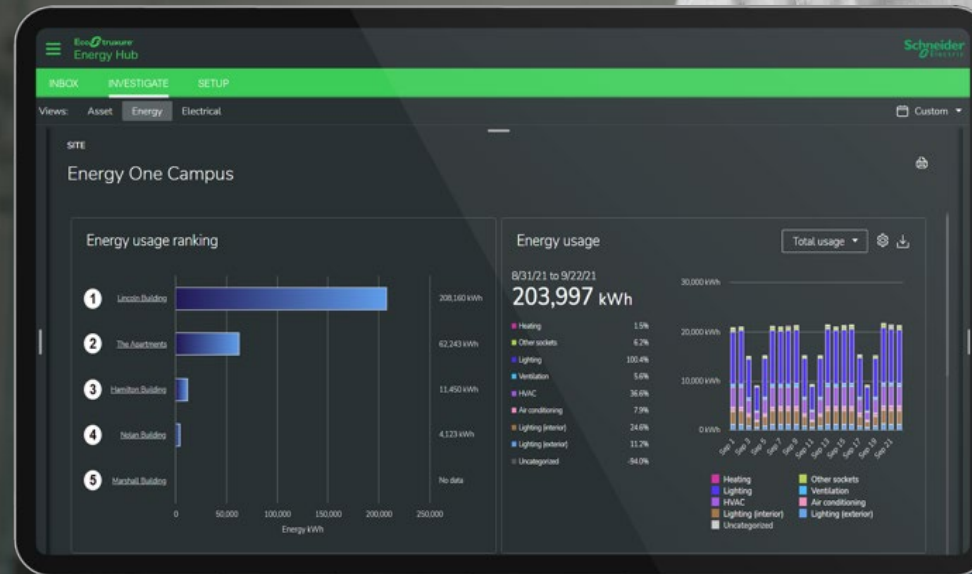
Life Is On

Schneider
Electric



Gain energy awareness, baseline energy usage, identify areas to focus, set targets and take action.

- Track usage by load type (HVAC, lighting, and plug loads)
- Aggregate energy by site, building, floor, area, and zones
- Report energy usage monthly, daily, and hourly



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Two scalable, off-the-shelf solutions with a common goal

Ecostruxure Sustainability Portal

Ecostruxure Energy Hub



INSTALL

Install



MEASURE

Understand the
baseline measurements
of the data



ANALYZE

Interpret the data



TAKE ACTION

Select what actions will
have the biggest impact
on Return On Investment



IMPLEMENT

Deploying the actions
required to make a
difference



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Helping Customers to understand their Energy usage and make informed decisions

Ecostruxure Sustainability Portal

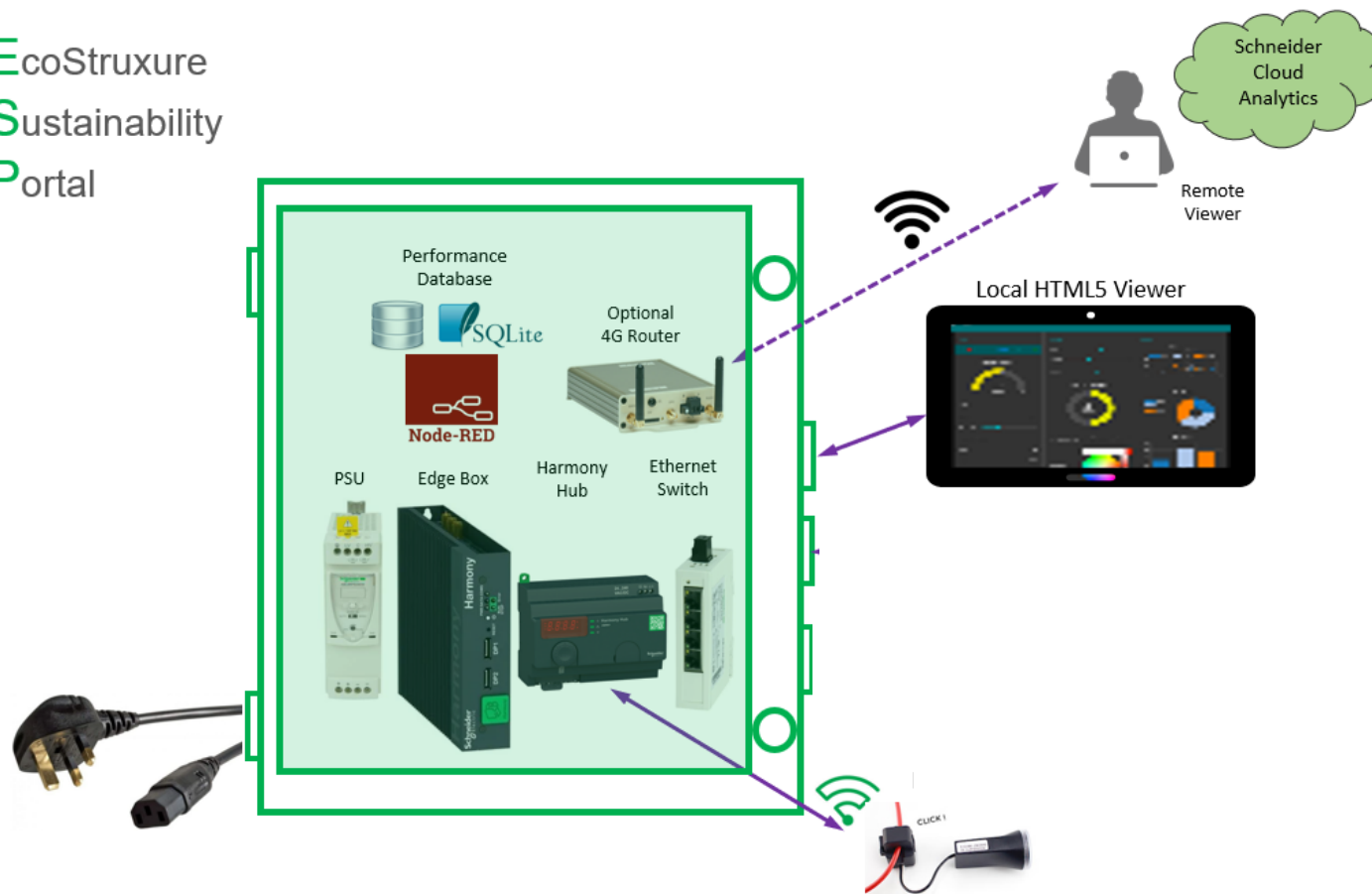
- Low cost – typically £4k-£6k....
- Fixed cost, no subscription
- Easy to install – plug and play
- Independent of Customer networks
- Inherently Cyber Secure
- Configurable
- Mobile/bench mounted
- Fix-the-basics approach
- Expandable

Ecostruxure Energy Hub

- Subscription based, OPEX solution
- Pay for what you use-modules and connected device-based pricing.
- Fast to deploy-Cloud hosted-no server or software install required
- No programming required (online, drag and drop configuration)
- Validated device-to-cloud integration
- Automatic cybersecurity & feature updates
- Flexible single or multi-site organisation

The ESP

EcoStruxure
Sustainability
Portal



Sensing

- Wireless clip-on energy sensors
- Wide energy sensing from 0.5-180A
- No additional power supply
- Up to 100m range
- Initially up to 10 channels

Edge Box

- Configuration screens
- Instantaneous Current and kW
- Aggregated kWh display
- Trending graphs

Display

- HTML5 wired or wireless browser

Connectivity

- Wired ethernet
- Optional wireless and 4G/5G comms

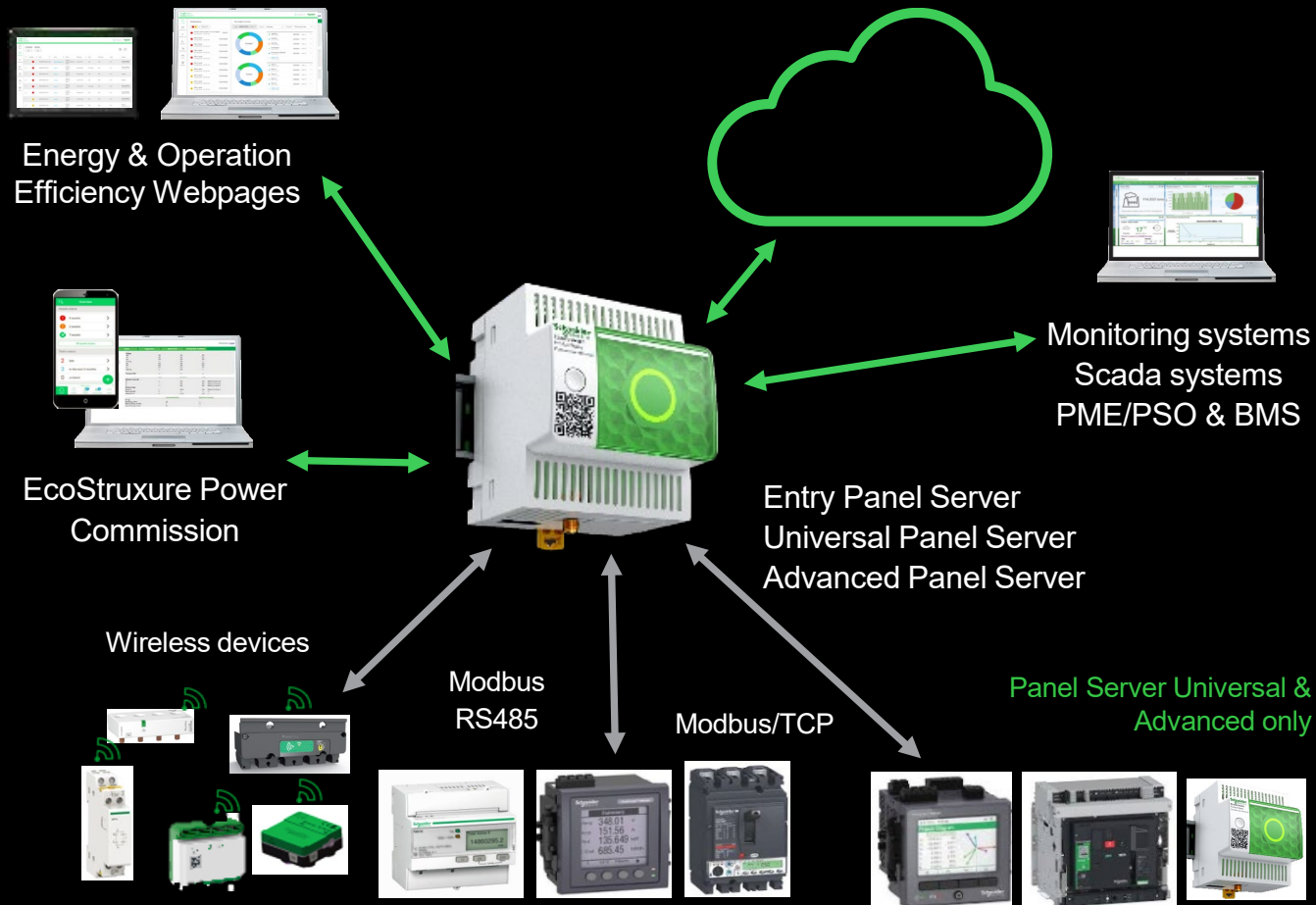
Expandability

- Cloud analytics
- OEE Analysis
- Digital Gateway



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Panel Server – Feature Overview

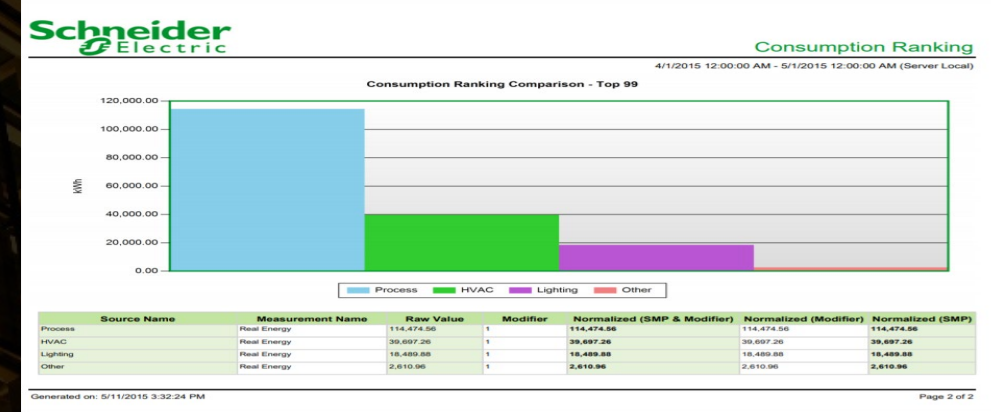
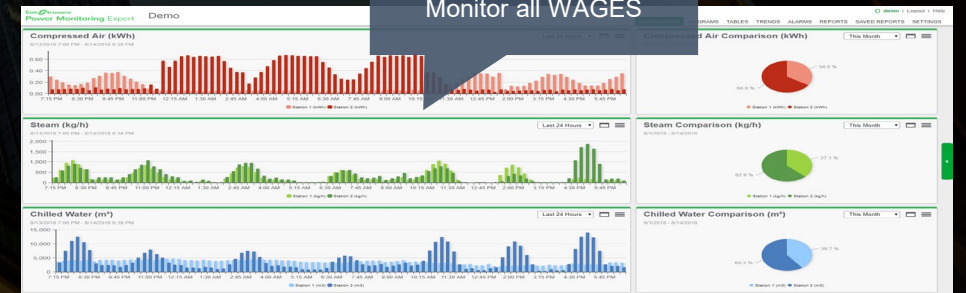
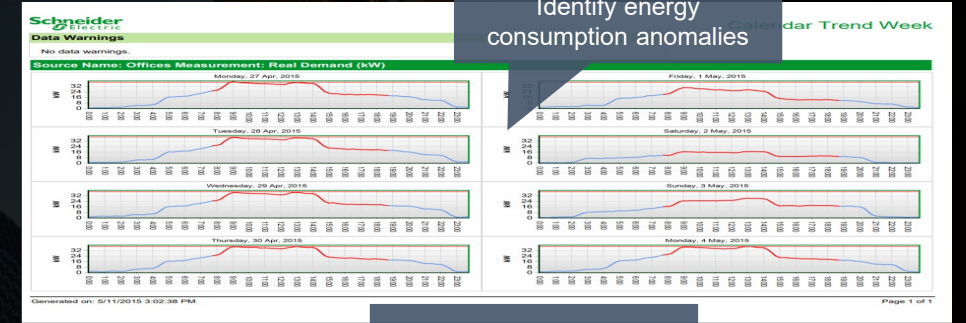
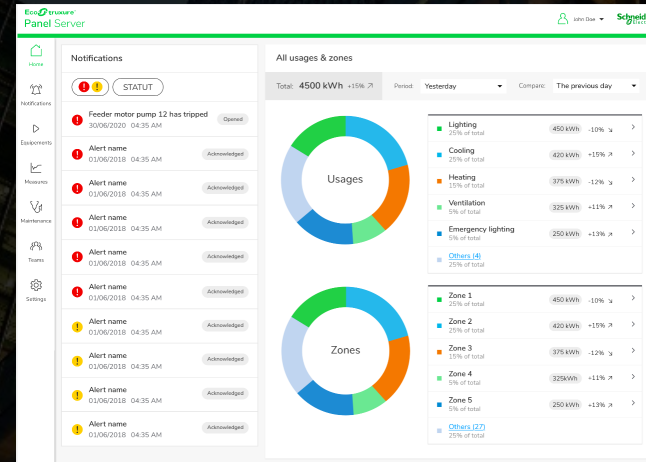
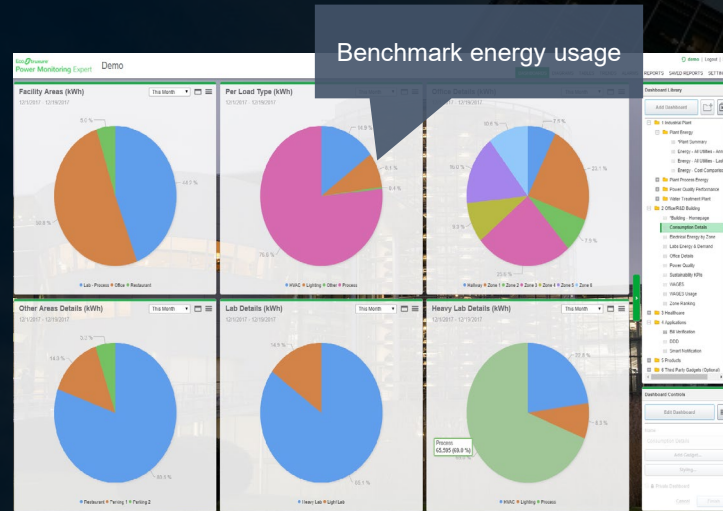


- WiFi / Ethernet / Bluetooth
- External 4G Router available as an option
- Schneider cloud applications connector
- Edge connector (Modbus TCP)
- EPC Mobile & EPC Desktop for plug & play Panel Server commissioning and easy cloud connection
- Application / Device cloning (for OEM repetitive business)
- Predefined devices & events (wireless devices, Modbus RS485, Modbus/TCP) equivalent to Com'X & PowerTag Link support:
 - PowerTag, PowerTag Rope, PowerTag Control, PowerTag Ambient, PowerTag NSX & MTZ, SmartLink Modbus, NS/NSX OF/SD, Acti9 Active, CL110, TH110, Eliwell sensors, HeatTag, iEM2xxx, iEM3xxx, PM51xx, PM53xx, PM55xx, PM8000, ION9000
 - Compact NSX, Compact NS, Masterpact, MTZ, Sepam relay, Easergy P1/P3/P5
 - Wireless devices Modbus virtualisation consistent with PowerTag Link
- Custom devices & events (tool & library)
- 3 years data logging on Advanced Panel Server
- CSV export
- Embedded webpages for energy & operation efficiency

Energy Management Solution

Reduce energy usage and costs

- Determine how much energy is consumed by the various load types or areas to identify where to focus energy conservation initiatives
- Understand energy usage patterns and find energy waste
- Compare energy usage by normalising consumption with respect to area / production volume or other drivers.
- Analyse what factors contribute most to energy usage
- Assess energy usage by process area or by product output
- Benchmark energy usage with respect to other buildings / plants / process lines
- Multi-site visualisation enables benchmarking across multiple sites from a centralised location
- Gain understanding what makes an energy efficient facility use less energy than an inefficient facility



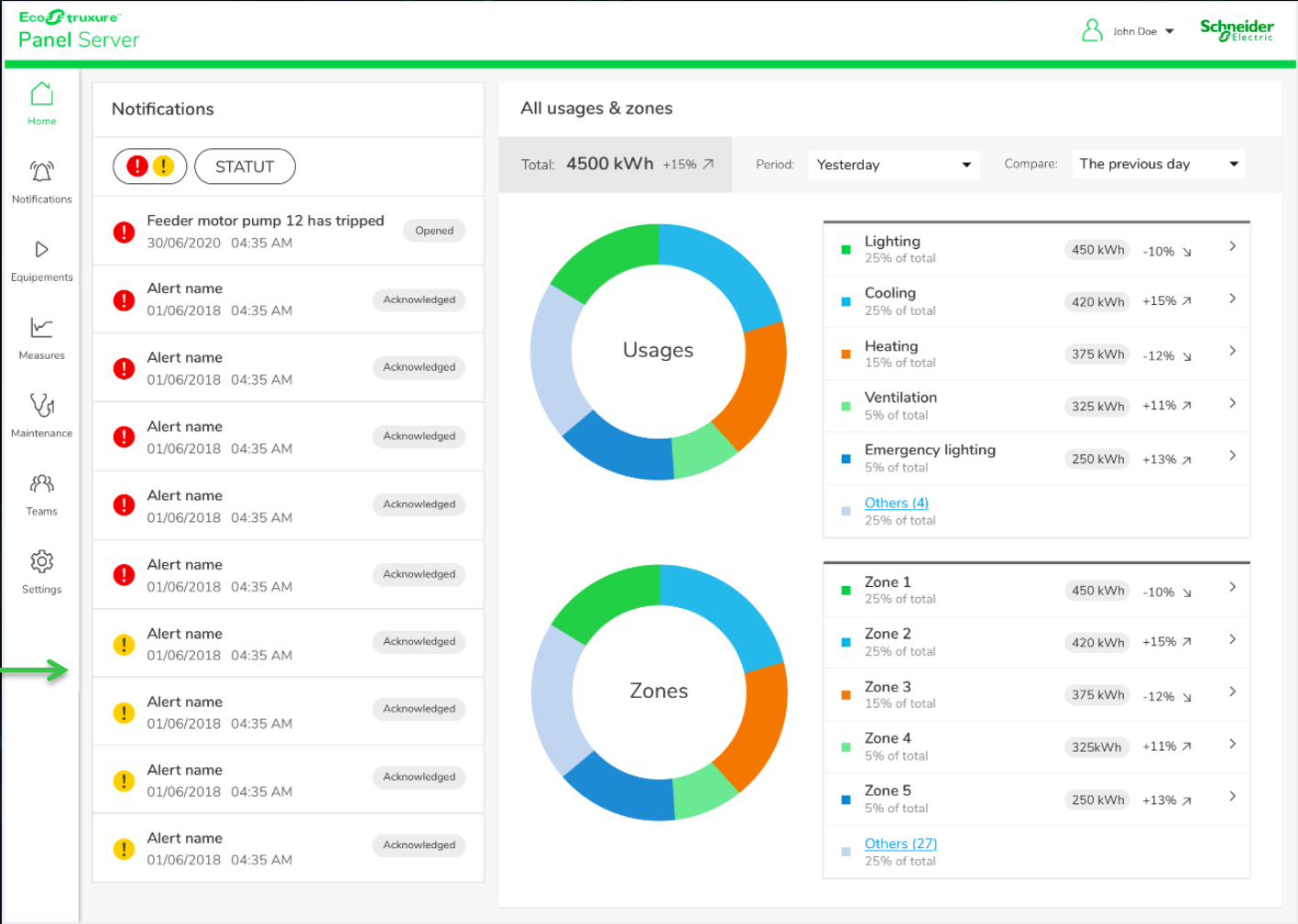
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Home Page

Left bar for navigation through the main menus (see next slides)

Summary of the latest notifications



Energy Consumption Summary
Compare by Usage and Zone
Select Period

Measures View

Site View

Note:
Measures View with **historical data** is only available with the **Advanced Panel Server**, which provides up to 3 years of historical data

Select Data to display in the chart

Usages (15)	
Lighting	<input checked="" type="checkbox"/>
Cooling	<input type="checkbox"/>
Heating	<input type="checkbox"/>
Ventilation	<input type="checkbox"/>
Emergency lighting	<input type="checkbox"/>
Usage 6	<input type="checkbox"/>
Usage 7	<input type="checkbox"/>
Usage 8	<input type="checkbox"/>
Usage 9	<input type="checkbox"/>

Select Parameters to display

Parameters (3)	
Current	<input type="checkbox"/>
Active power	<input type="checkbox"/>
Accumulated active energy	<input checked="" type="checkbox"/>

Export data
CSV download or
sent via email

Select Interval

Chart view
with dynamic scales

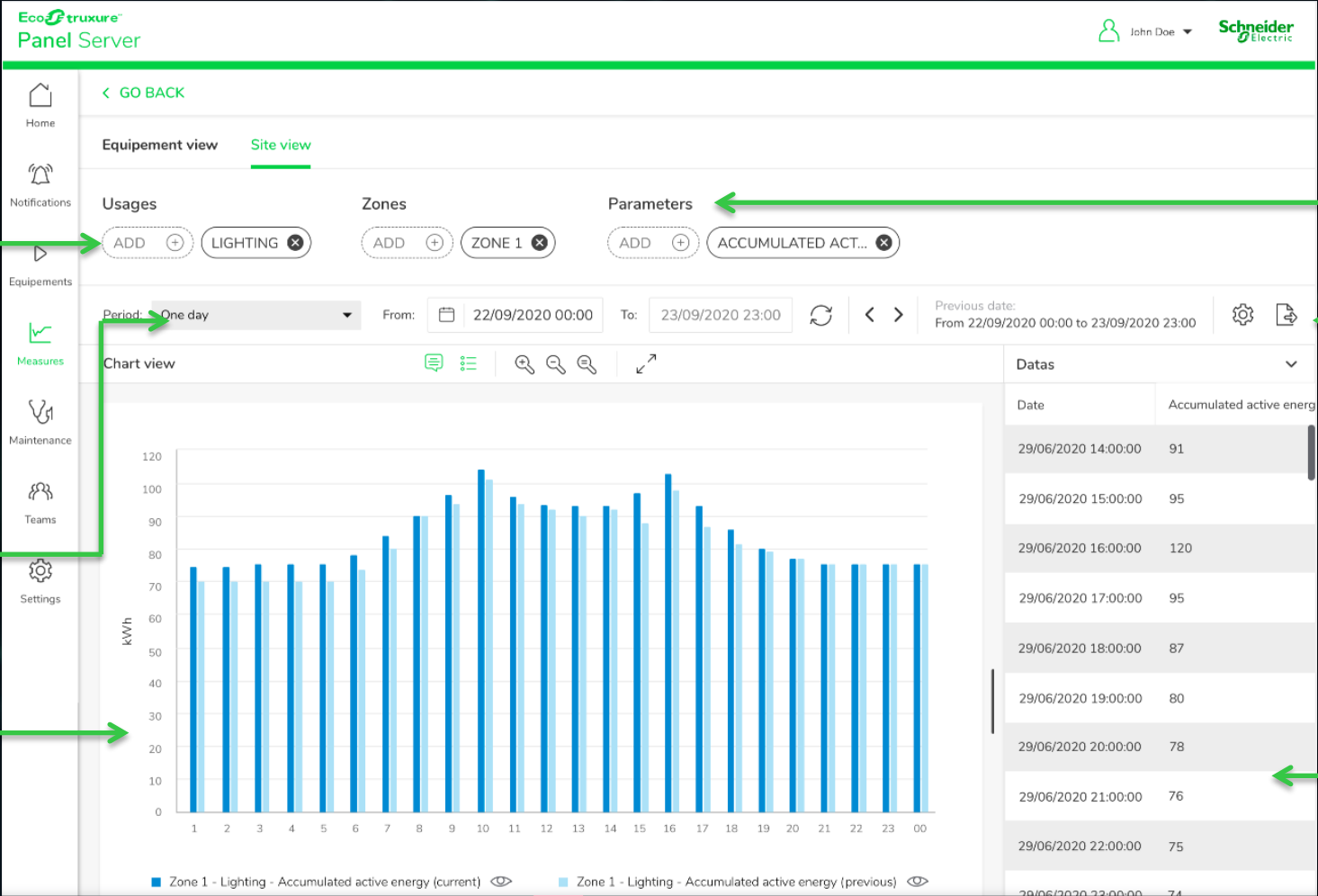


Table view

Key Points to our Energy Management Offer

Ecostruxure Server panel & Ecostruxure Panel Server

2 different solutions to meet Energy Management demands .

ESP Panel for Temporary Solution on Site

Panel Server for fix and Permanent Solution on Site

Scalability: Moving from Temporary solution project to Permanent Offer

Ability to trial and test Energy consumption with the ESP Panel

Compatibility to existing and new project

Cost-Effective Solution

Generate revenue from installing ESP Panel

How many ESP Panels do you required for your various Site? Your Order Number Please !!!

