

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



Analyse energy usage and reduce waste

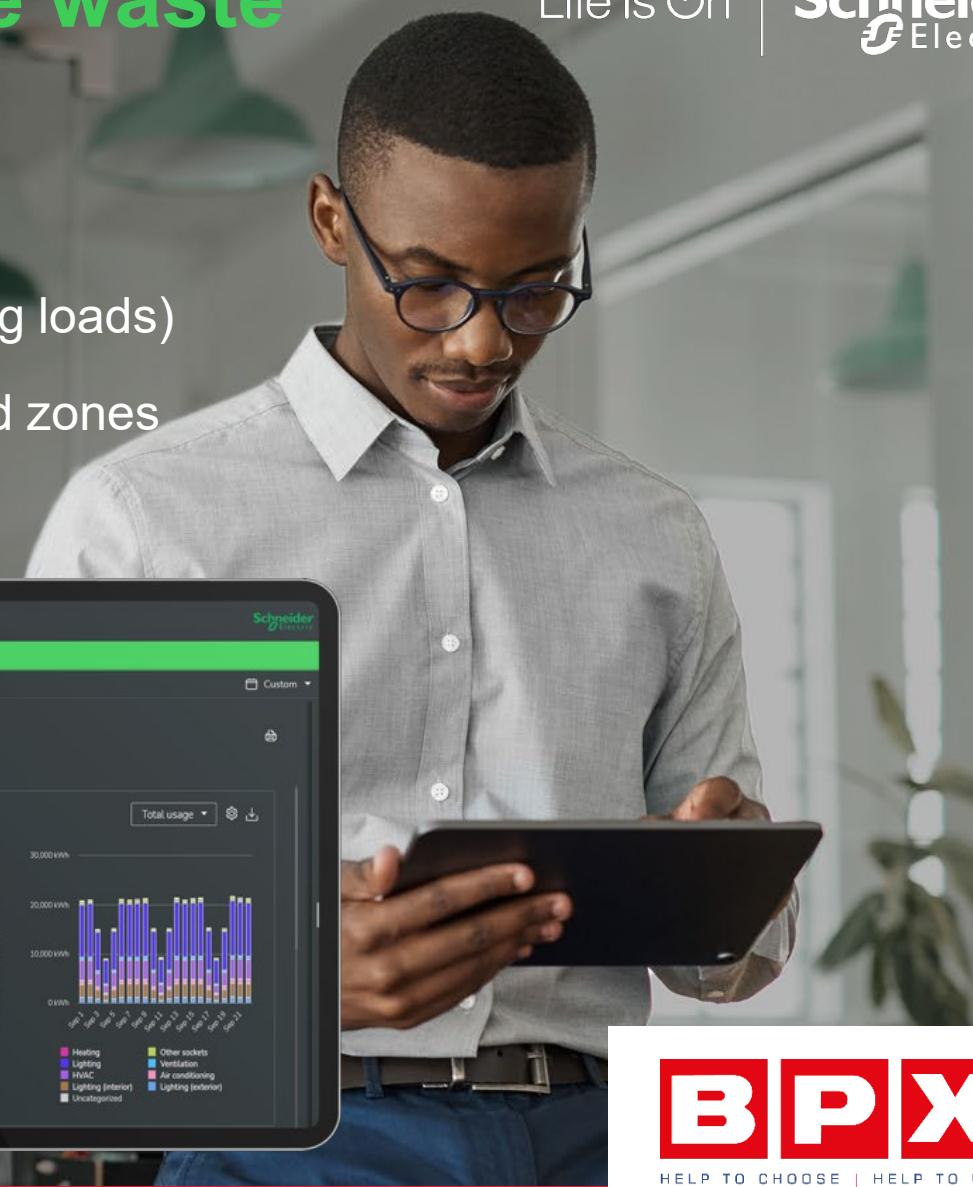
Life Is On

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



INSTALL

Install



MEASURE

Understand the
baseline measurements
of the data



ANALYZE

Interpret the data

Ecostruxure Energy Hub



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

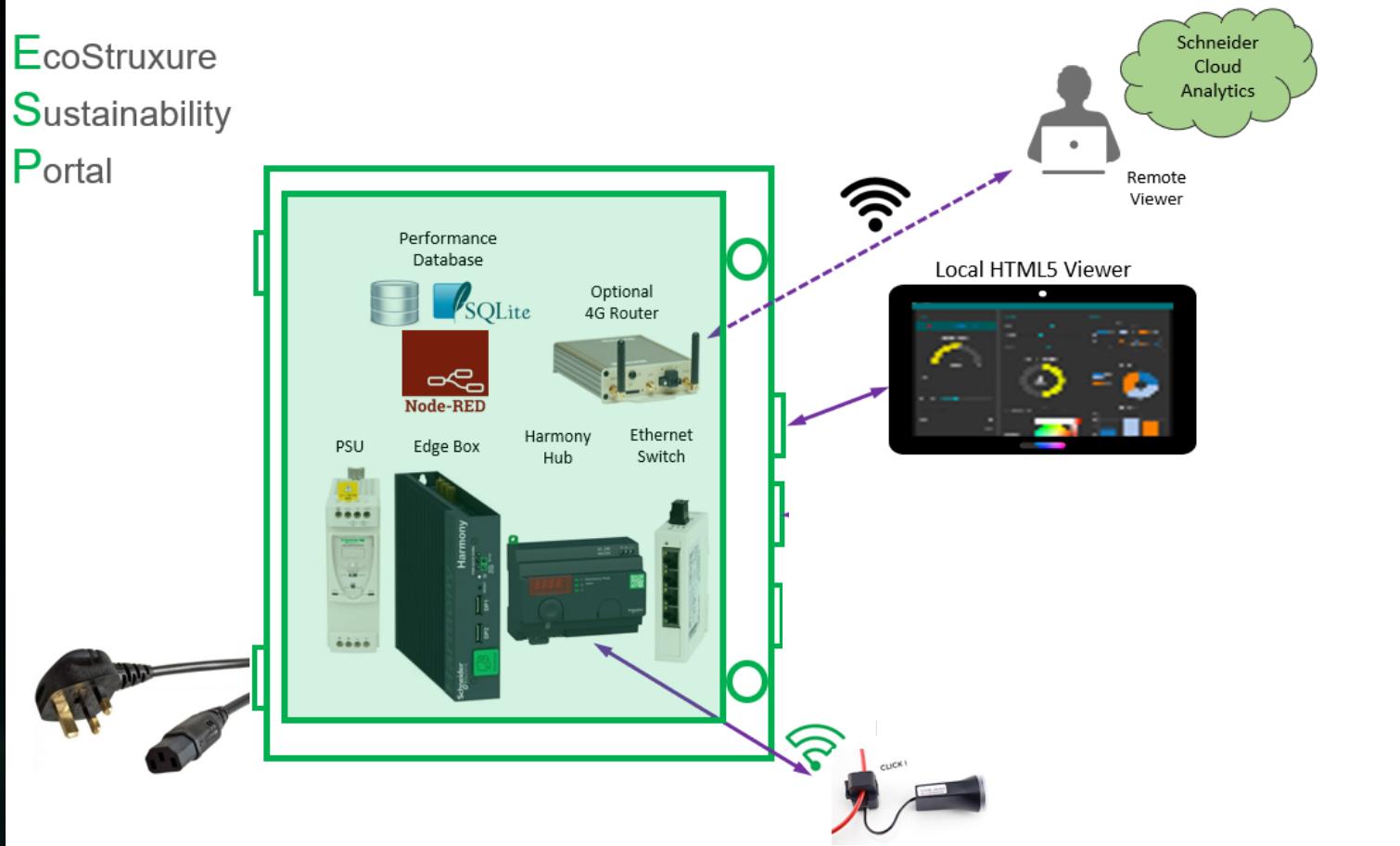
Ecostruxure Energy Hub

- 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

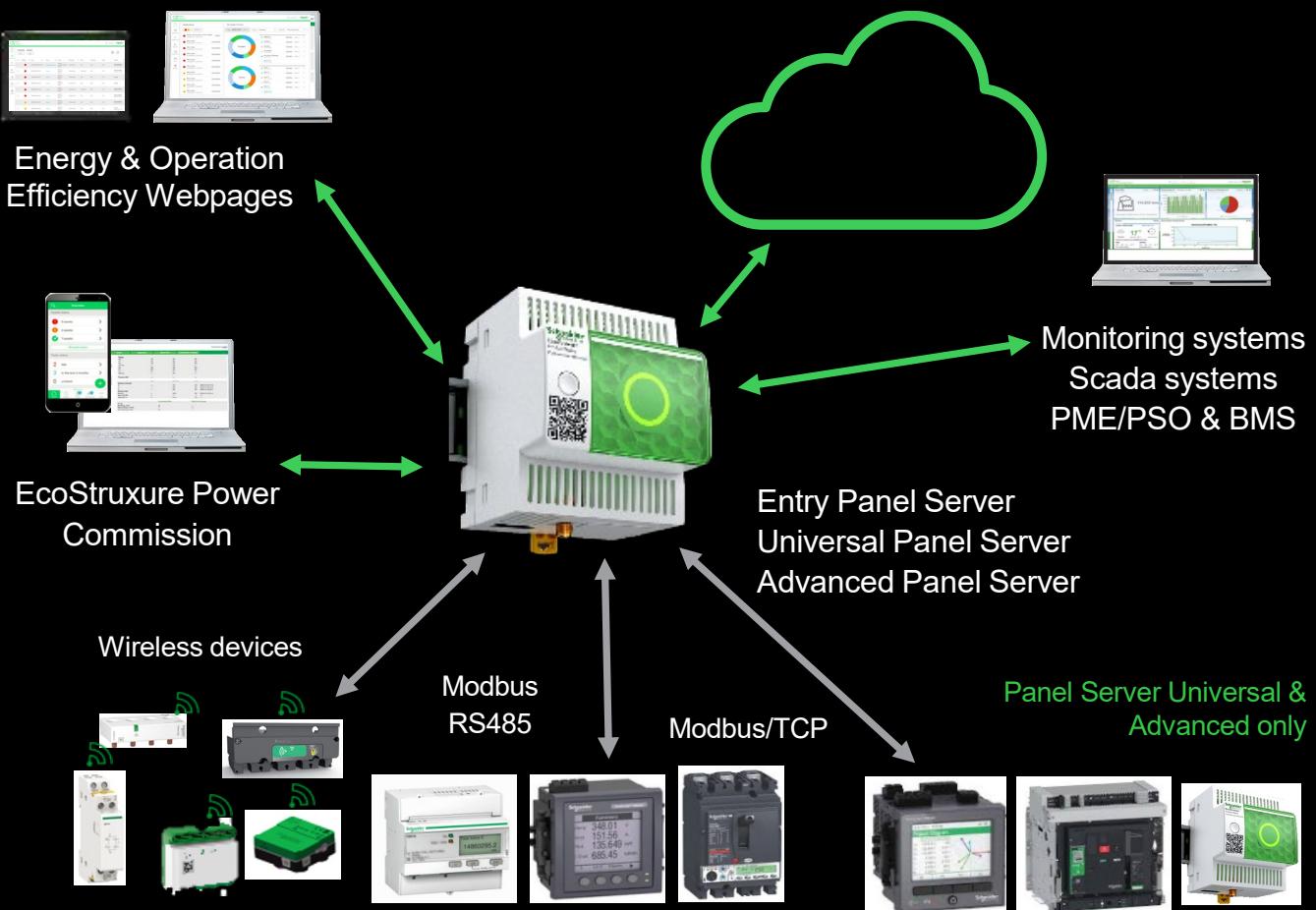
Wired ethernet
Optional wireless and 4G/5G comms

Expandability

Cloud analytics
OEE Analysis
Digital Gateway



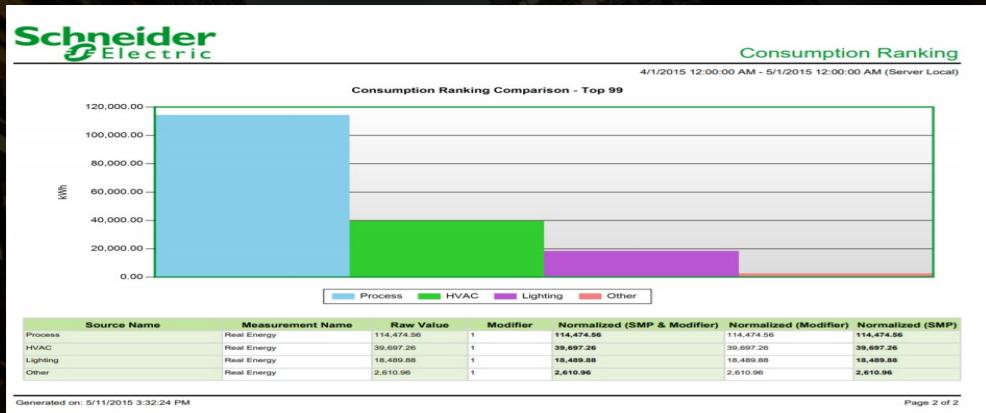
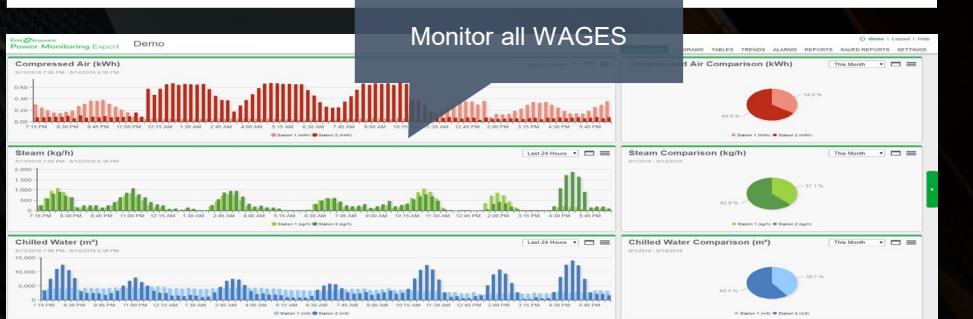
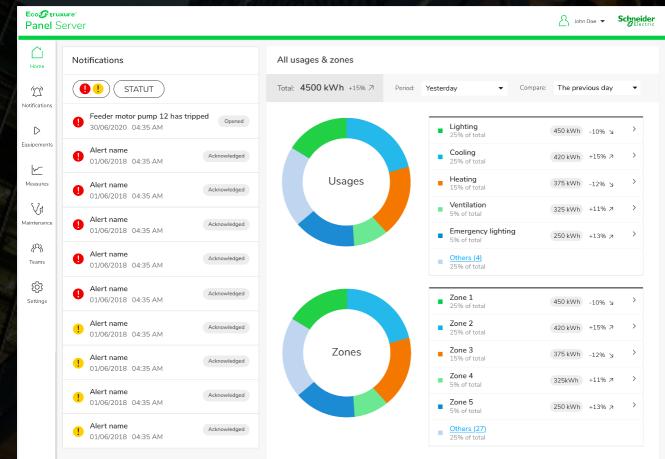
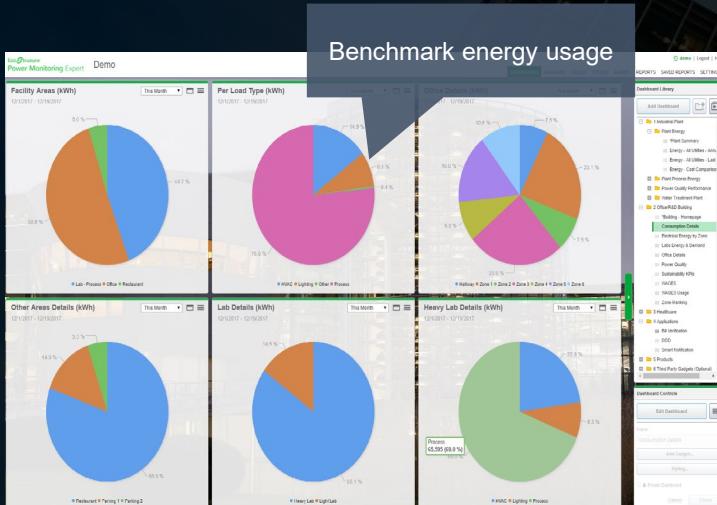
Panel Server – Feature Overview



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)

EcoStruxure® Panel Server

John Doe Schneider Electric

Notifications

STATUT

Feeder motor pump 12 has tripped
01/06/2018 04:35 AM
Opened

Alert name
01/06/2018 04:35 AM
Acknowledged

All usages & zones

Total: 4500 kWh +15% ↗ Period: Yesterday Compare: The previous day

Usages

Lighting 25% of total 450 kWh -10% ↘

Cooling 25% of total 420 kWh +15% ↗

Heating 15% of total 375 kWh -12% ↘

Ventilation 5% of total 325 kWh +11% ↗

Emergency lighting 5% of total 250 kWh +13% ↗

Others (4) 25% of total

Zones

Zone 1 25% of total 450 kWh -10% ↘

Zone 2 25% of total 420 kWh +15% ↗

Zone 3 15% of total 375 kWh -12% ↘

Zone 4 5% of total 325 kWh +11% ↗

Zone 5 5% of total 250 kWh +13% ↗

Others (27) 25% of total

Energy Consumption Summary
Compare by Usage and Zone
Select Period

Summary of the latest notifications



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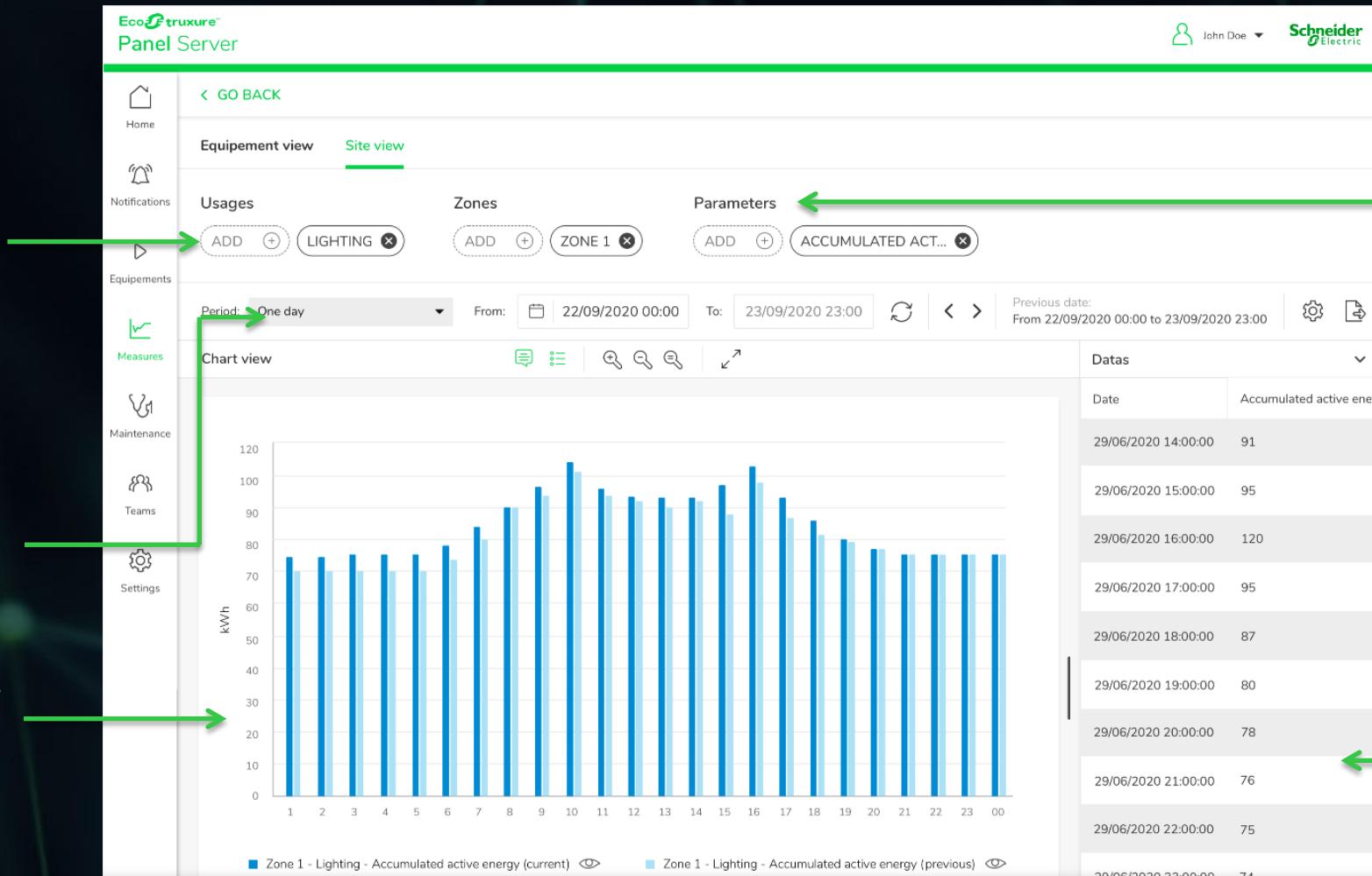
Measures View

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
 - Cooling
 - Heating
 - Ventilation
 - Emergency lighting
 - Usage 6
 - Usage 7
 - Usage 8
 - Usage 9



Select Interval

Chart view with dynamic scales

Select Parameters to display

Parameters (3)

- Current
- Active power
- Accumulated active energy

Export data
CSV download or sent via email

Table view



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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 !!!

