

Avertissement



Les informations fournies dans ce document sont confidentielles et la propriété de Schneider Electric, et toute modification ou utilisation de tout ou partie du contenu de ce document sans l'accord exprès et écrit de Schneider Electric est strictement interdite. L'absence de réponse à une demande d'autorisation ne peut en aucun cas être interprétée comme une autorisation tacite d'utilisation. Toute référence à la conformité aux normes, aux performances ou aux fonctionnalités mentionnées dans le présent document doit être validée et confirmée par Schneider Electric avant d'être mise en œuvre dans le cadre de projets spécifiques.

© Schneider Electric Canada Inc



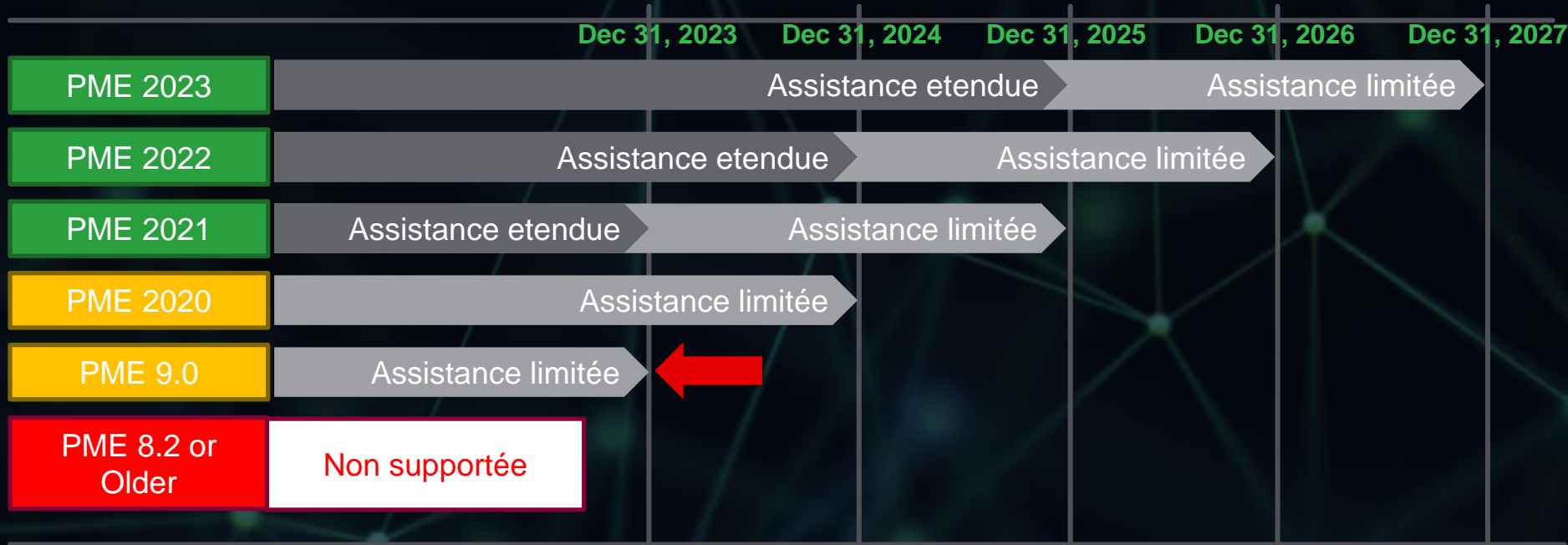
EcoStruxure Power Monitoring Expert

2020 - 2023

Quoi de neuf?

PLUG Montréal 2023

Assistance pour chaque version PME



Assistance étendue :

Enquête technique et assistance pour les problèmes des clients, y compris la création de correctifs critiques jugés nécessaires par l'usine

Assistance limitée :

Enquête technique et assistance pour les problèmes des clients, mais pas de nouveaux correctifs pour les problèmes.
Fournir des informations sur la migration vers une version de produit plus récente bénéficiant d'une assistance complète.

PME Mise à jour des versions depuis 2020

2020

Applications Thin Client

Configuration, gestion du système à partir de n'importe quel navigateur web

ION Analytics

Innovations uniques et différenciatrices en matière de qualité de l'énergie grâce à la technologie ION

Interopérabilité

Intégrer le PME dans d'autres systèmes

Conformité TI

Conformité avec la sécurité cybernétique et avec les politiques TI

Multi-Site avec contrôle d'accès base sur les rôles (RBAC)

2021

Gestion des licences améliorée

Simplification des licences

Amélioration des applications PQ

Multi-site, analyse de la forme d'onde, SARFI

Analyse énergétique étendue

Alarme d'enregistrement des données, gadgets améliorés, agrégation et calcul des données en temps réel

Intégration avec plus d'équipements et nouvelles applications

Protection d'arc, Conformité NRG

Amélioration du performance et de la cybersécurité

2022

Connectivité ouverte

Connexion avec d'autres systèmes grâce aux extensions Smart Connector

PQ Analytics

PQ Analyse avec caractérisation de la forme d'onde

Intégration avec BMS

Intégration simplifiée avec EBO

Plus Sécuritaire

Communication sécurisée avec équipements ION

2023

Graphiques modernes avec TGML

Graphiques dynamiques pour améliorer l'interface utilisateur et réduire le coût de possession

Surveillance de la charge des VE

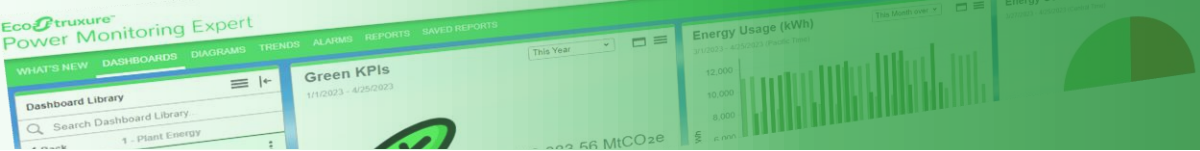
Intégration de l'infrastructure électrique moderne

Outils pour optimiser la consommation

Mieux gérer l'électricité en cas de crise énergétique

Communication Cryptée

Protéger les données en transit grâce à des communications cryptées (ION et Modbus).

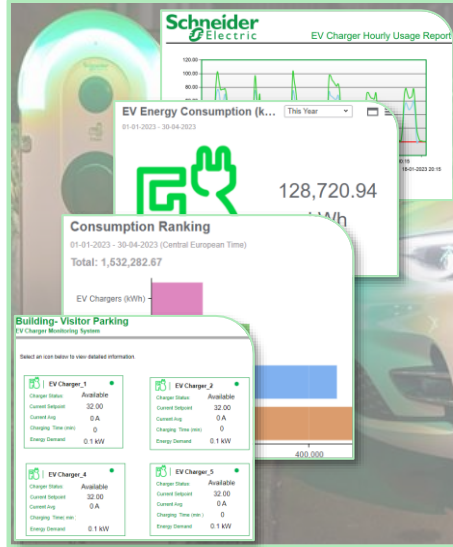


EcoStruxure Power Monitoring Expert

Des graphiques dynamiques pour améliorer l'expérience utilisateur et réduire le coût d'implémentation



Améliorer la durabilité grâce à la surveillance de la recharge de VE

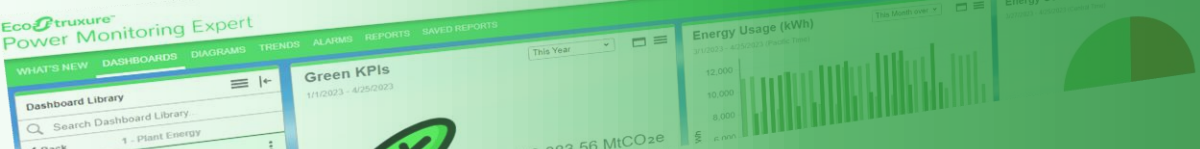


Mieux gérer l'électricité en période de crise énergétique



Protéger les données en transit grâce à une communication cryptée entre les appareils





Graphiques modernes avec TGML

Qu'est-ce que le TGML ?

Inspiré par le langage SVG (*Scalable Vector Graphics*) basé sur XML, le TGML (TAC Graphics Markup Language) est un langage déclaratif basé sur XML pour les graphiques dynamiques en 2D

```
<?xml version="1.0"?>
<?TGML Version="1.2"?>

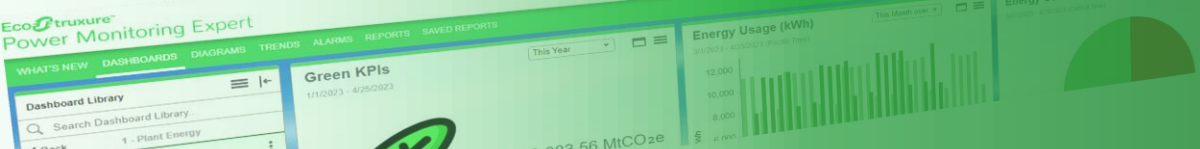
<TGML Width="800" Height="600" Stretch="Uniform" Background="#FFFFFF">
  ...
</TGML>
```

Le TGML spécifie une hiérarchie d'objets d'exécution avec un ensemble de propriétés et de logique.

Chaque élément (élément XML) représente un objet TGML qui peut être modifié ou configuré dans un éditeur graphique.

Le modèle d'objet TGML est basé sur le modèle d'objet de document (DOM) du W3C.

Les éléments graphiques TGML sont accessibles aux applications à travers les interfaces TGML DOM exposées.

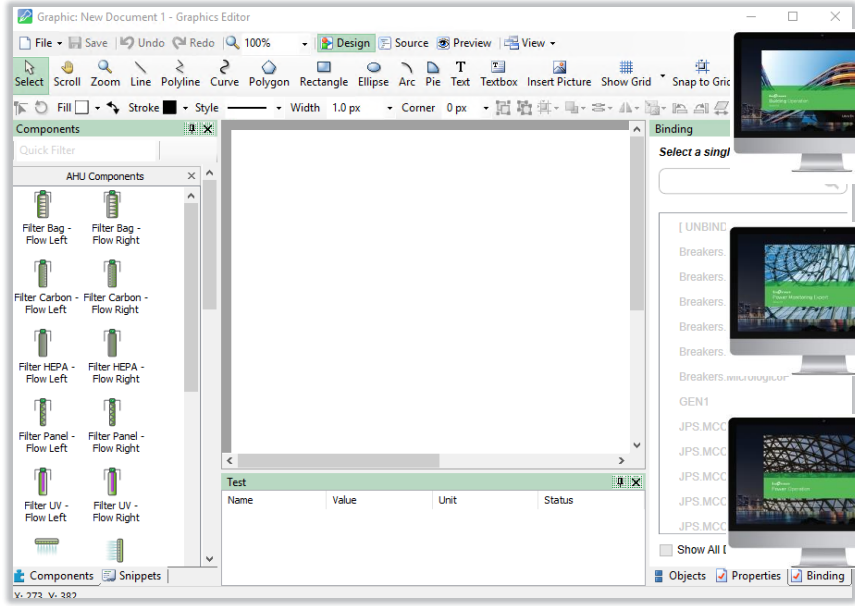


EcoStruxure Power Monitoring Expert

Graphiques modernes avec TGML

Pourquoi TGML?

- Même moteur graphique et même éditeur graphique dans EBO, EPO et PME
- Flux de travail commun pour la création de graphiques
- Bibliothèque complète de composants pour la création de diagrammes
- Une apparence et une convivialité cohérentes
- Rationalisation du déploiement
- Extensible



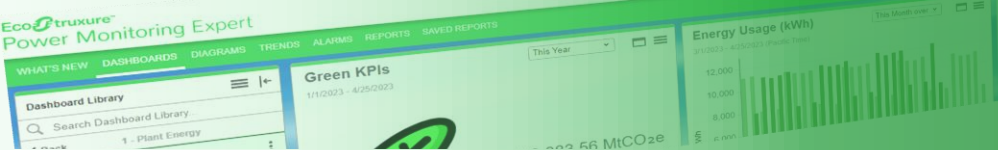
EcoStruxure
Building Operation



EcoStruxure Power
Monitoring Expert



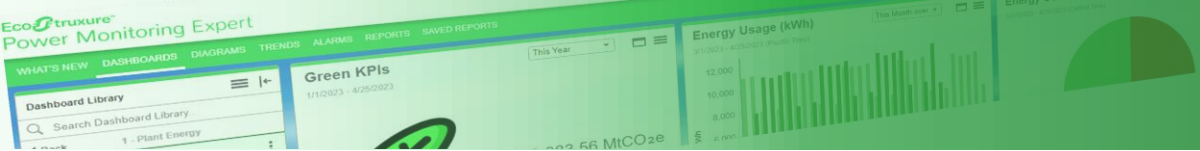
EcoStruxure Power
Operation



Graphiques modernes avec TGML

TGML vs Vista

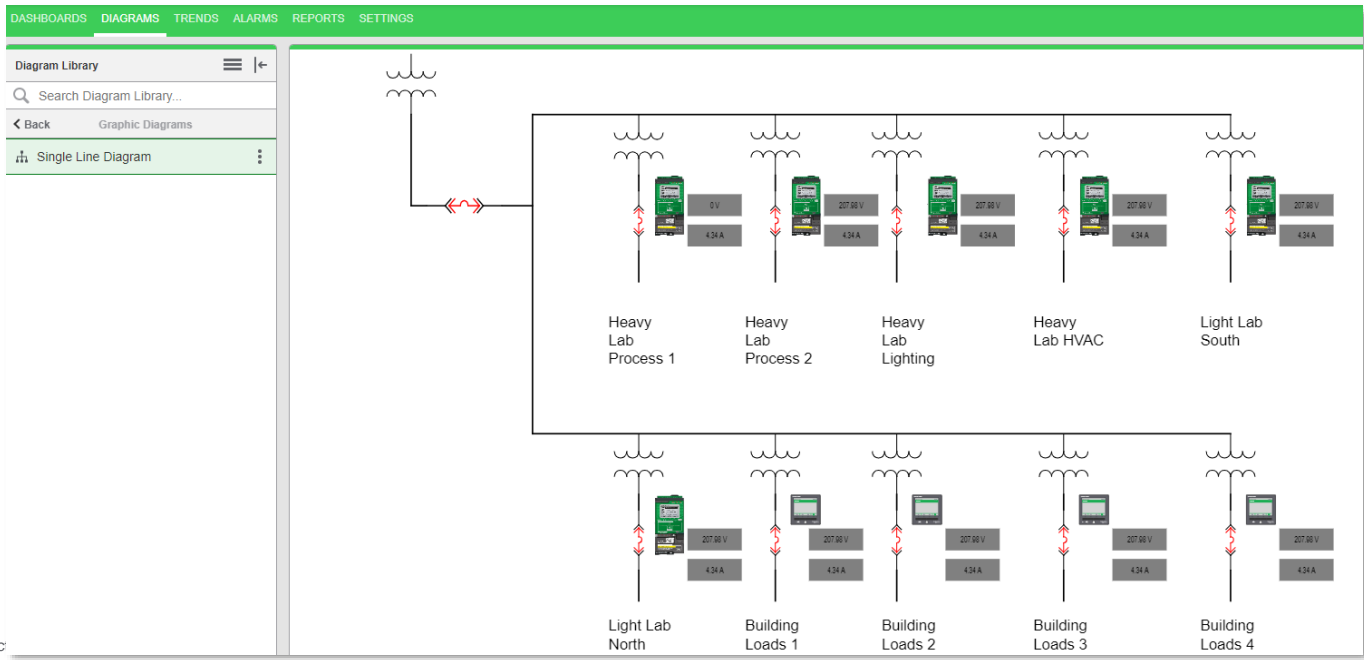
TGML	Vista
Basé sur XML	Basé sur XML
Scalable Vector Graphics (SVG) supporté	SVG pas supporté
Industrialisation et mise à jour continue	Pas de mise à jour
De nouveaux composants peuvent être créés par les utilisateurs	Aucun objet ne peut être créé par les utilisateurs
Scripting	Pas de scripting
Module d'animation	Pas d'animation
Panoramiques et zoom	Pas de Panoramiques et zoom
Editeur graphique unique pour créer des diagrammes	Potentiellement besoin d'utiliser d'autres outils
Focalisé pour BMS et besoin d'adaptation au domaine de l'électricité	Polyvalent et orienté pour les applications électriques



EcoStruxure Power Monitoring Expert

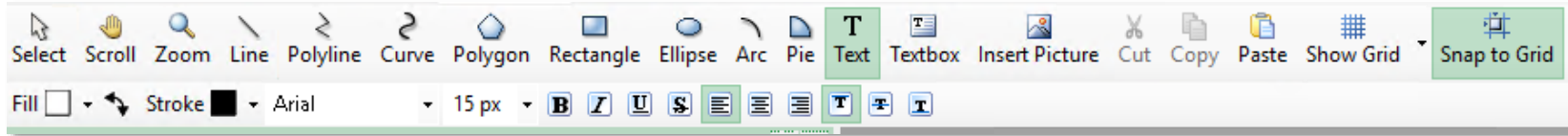
Graphiques modernes avec TGML → Création du SLD avec TGML

 66 minutes au total pour créer l'échantillon SLD



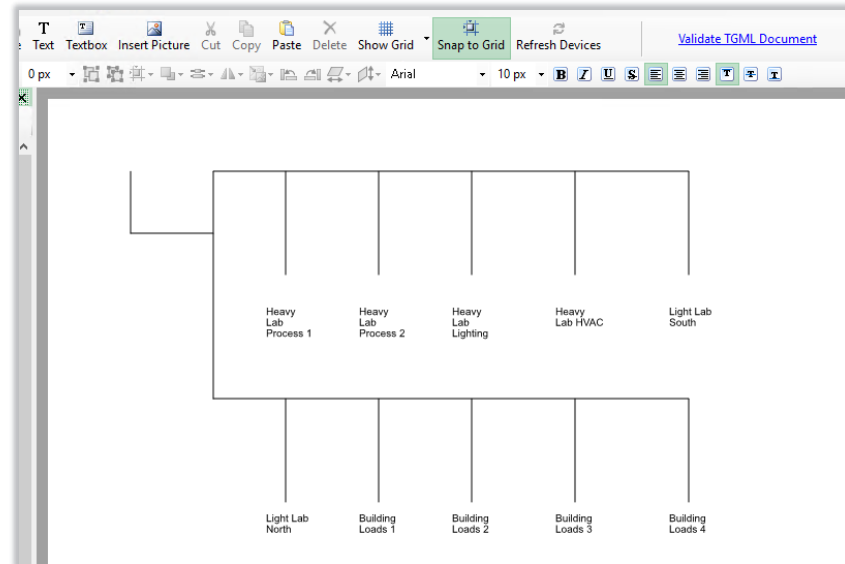
Graphiques modernes avec TGML

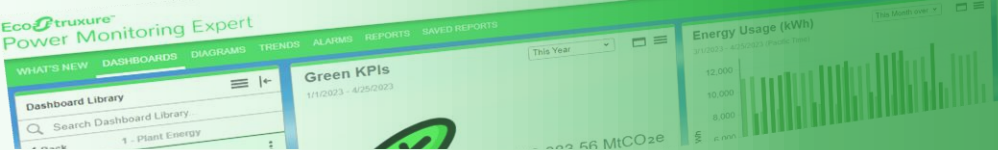
Création du SLD avec TGML



2 minutes pour dessiner la base de l'échantillon du SLD

- L'éditeur graphique TGML est livré avec une liste de composants de dessin permettant de créer un diagramme unifilaire (SLD) sans avoir besoin d'utiliser d'autres outils tels que Visio.
- Avec les lignes et les boîtes de texte, la base du SLD peut être dessinée en quelques minutes.
- Il faut deux minutes pour dessiner cet exemple de diagramme avec le copier-coller.

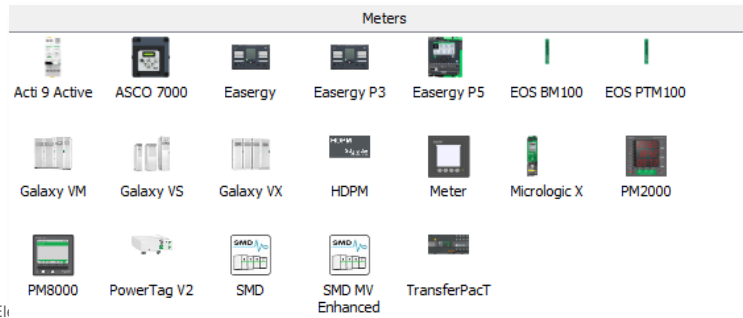
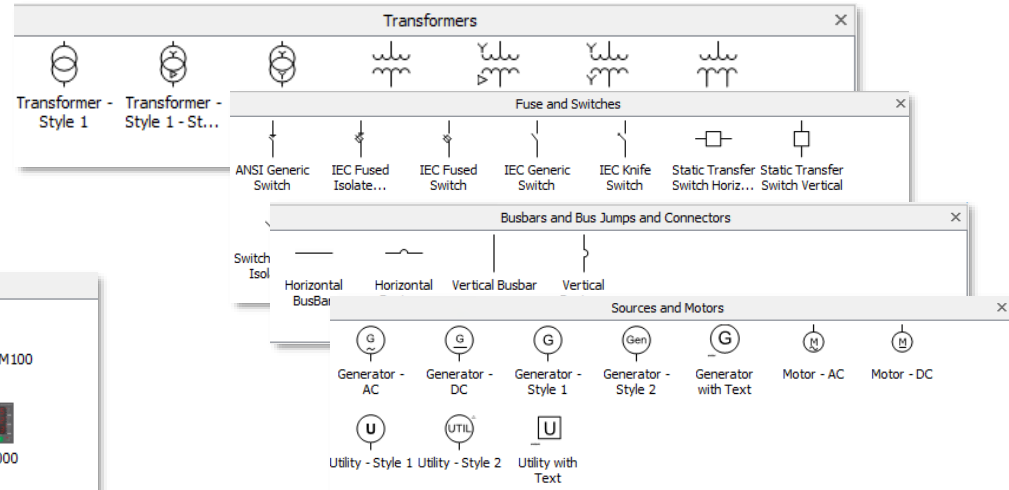
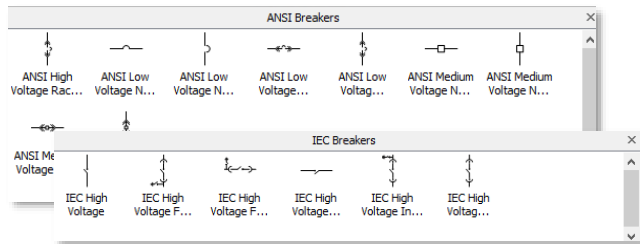


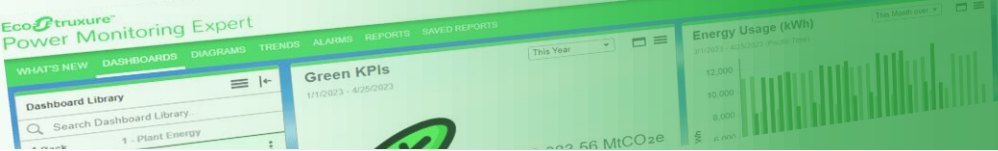


Graphiques modernes avec TGML

Création du SLD avec TGML

Alors que les composants TGML d'origine sont centrés sur la GTB, nous avons créé des composants de réseau électrique pour simplifier la création de diagrammes SLD.





Graphiques modernes avec TGML

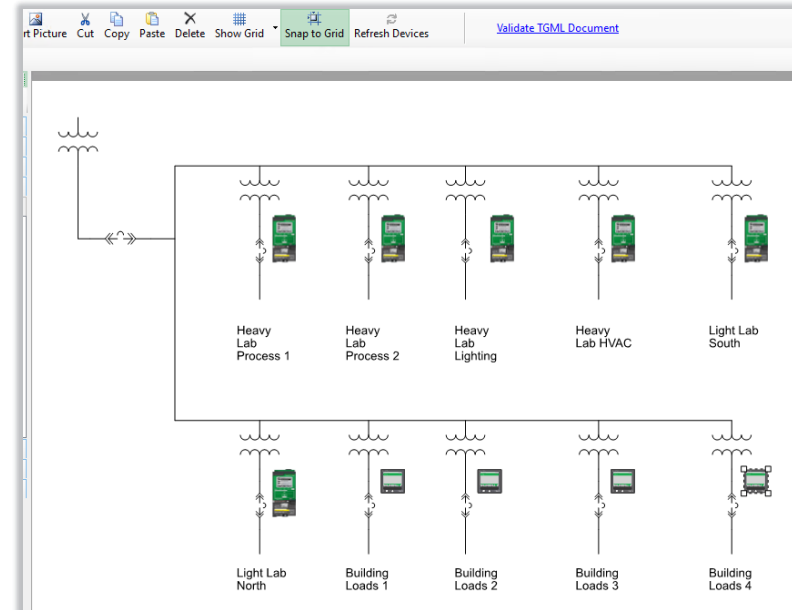
Création du SLD avec TGML

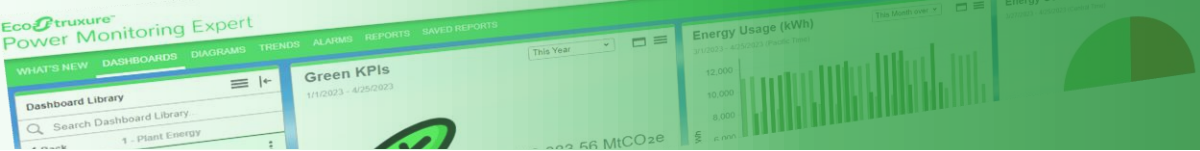
Alors que les composants TGML d'origine sont centrés sur la GTB, nous avons créé des composants de réseau électrique pour simplifier la création de diagrammes SLD.



12 minutes pour ajouter des composants à l'échantillon du SLD

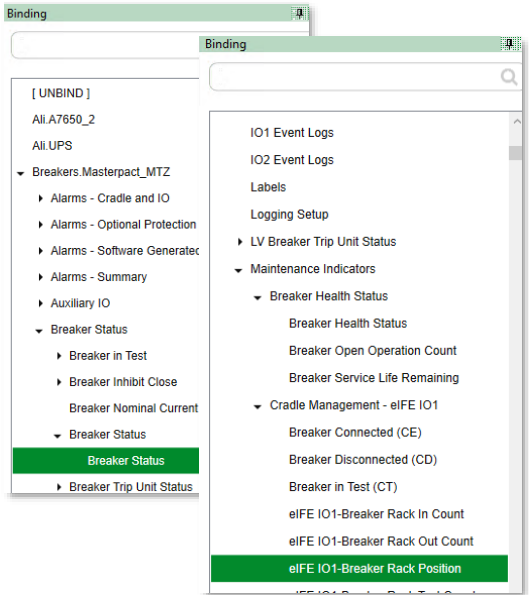
- L'option d'alignement sur la grille permet d'aligner facilement et automatiquement les composants.
- Les composants, tels que les transformateurs, les disjoncteurs et les compteurs, sont glissés et déposés sur un diagramme TGML et peuvent être redimensionnés si nécessaire.
 - 5 minutes pour 11 transformateurs
 - 5 minutes pour 11 disjoncteurs
 - 2 minutes pour 10 compteurs



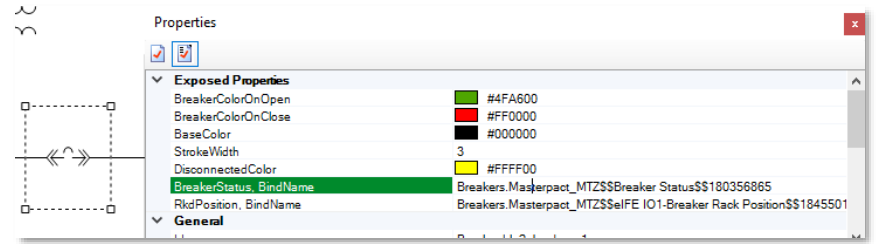


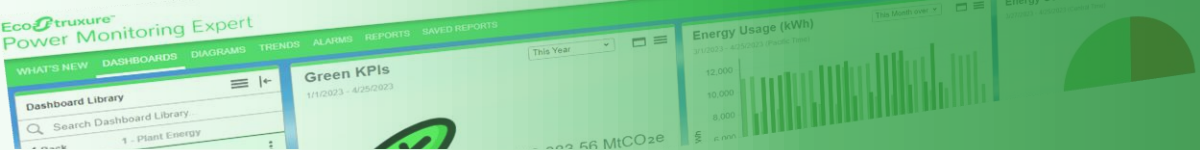
Graphiques modernes avec TGML > Création du SLD avec TGML

Les composants TGML peuvent être liés à des registres ION pour afficher des données provenant d'appareils, de la même manière que les objets sont liés à des registres ION dans Vista.



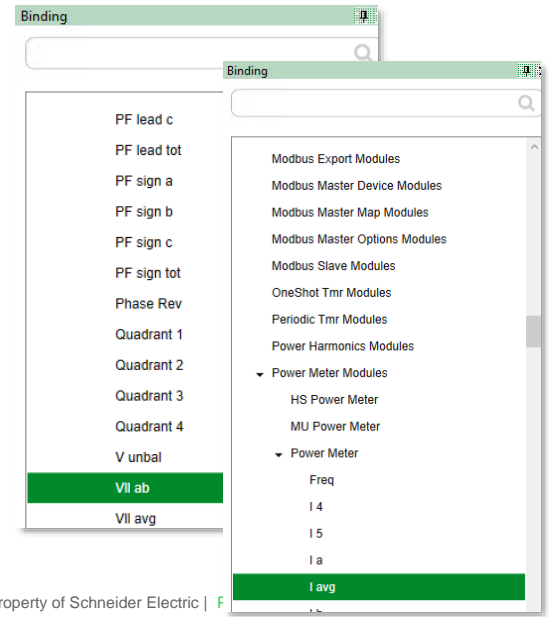
Lier les registres d'état du disjoncteur et de position du rack aux propriétés du composant Disjoncteur pour indiquer l'état du disjoncteur sur le SLD.



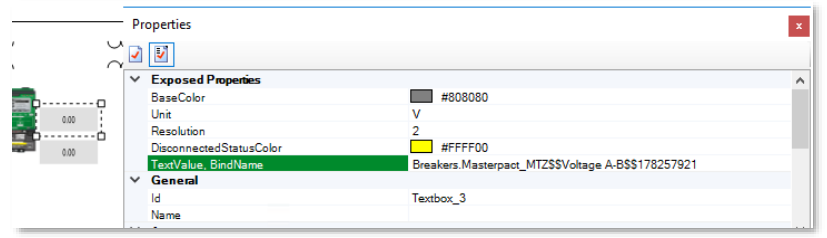


Graphiques modernes avec TGML > Création du SLD avec TGML

Les composants TGML peuvent être liés à des registres ION pour afficher des données provenant d'appareils, de la même manière que les objets sont liés à des registres ION dans Vista.



Bind data registers to TextBox components to show device data on SLD in real time





Graphiques modernes avec TGML

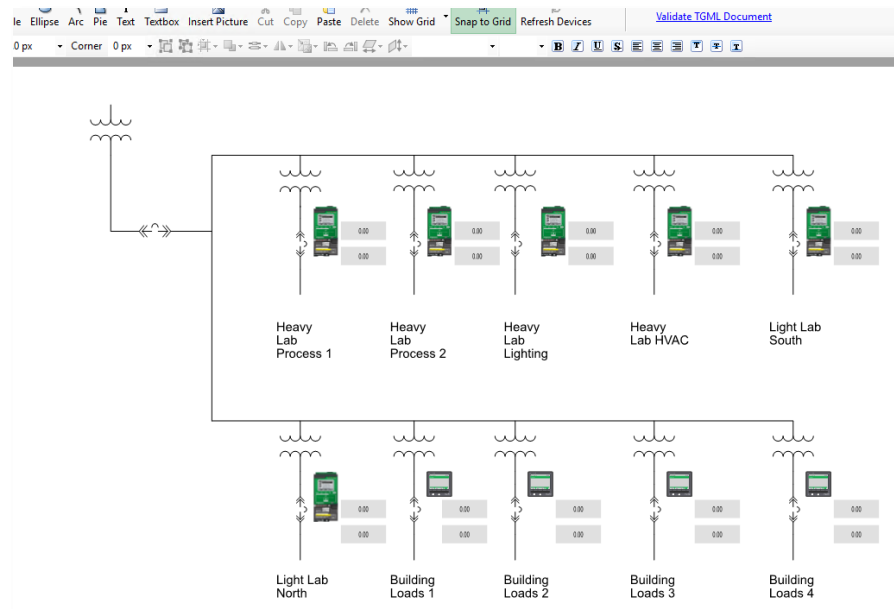
Création du SLD avec TGML

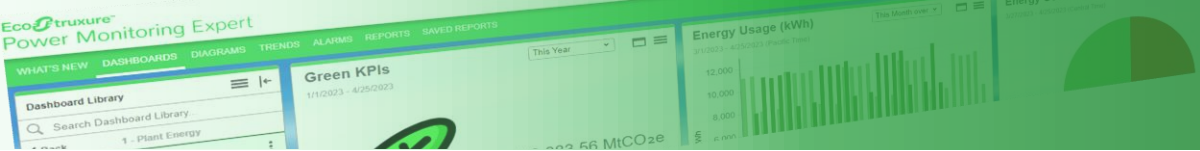
Les composants TGML peuvent être liés à des registres ION pour afficher des données provenant d'appareils, de la même manière que les objets sont liés à des registres ION dans Vista.



42 minutes pour lier les composants
aux registres ION

- Chaque composant doit être lié au bon dispositif et au bon registre en conséquence.
 - Disjoncteur : 2 minutes chaque
 - TextBox : 1 minute chaque
- Des propriétés supplémentaires peuvent être configurées pour les composants, telles que BaseColor, DisconnectedStatusColor, Unit, etc.





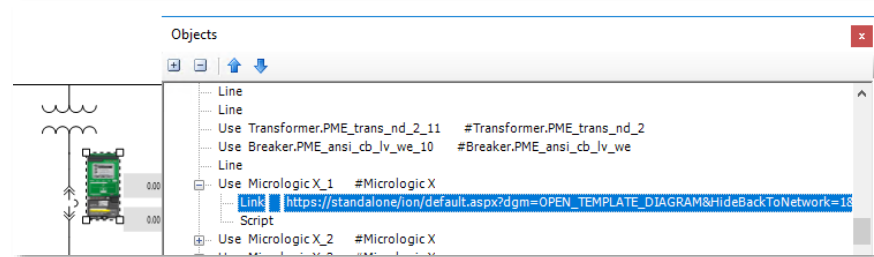
Graphiques modernes avec TGML

Création du SLD avec TGML

Les TGML Snippets sont des fonctions standardisées et prédéfinies pour un usage défini. L'extrait Popup peut être utilisé pour ouvrir un diagramme Vista à partir d'un diagramme TGML.

Basic Functions	
Name	Description
Blink	Starts and stop...
DynamicText	A Text element ...
Execute	Starts a Windo...
FlowX	An animated tr...
FlowY	An animated tr...
Link	
NewTab	
NewWindow	
OpenFile	Opens a file wh...
Pop-Up	
RotationClockwise	Starts and stop...
Sequence	Drop this on a g...
Status(Fill)	Indicates the v...
Status(Stroke)	Indicates the v...
Tooltip	Attaches a stati...

Ajouter un snippet Pop-up à un composant et fournir un lien vers le snippet afin que le TGML puisse ouvrir le lien dans une fenêtre pop-up.





Graphiques modernes avec TGML

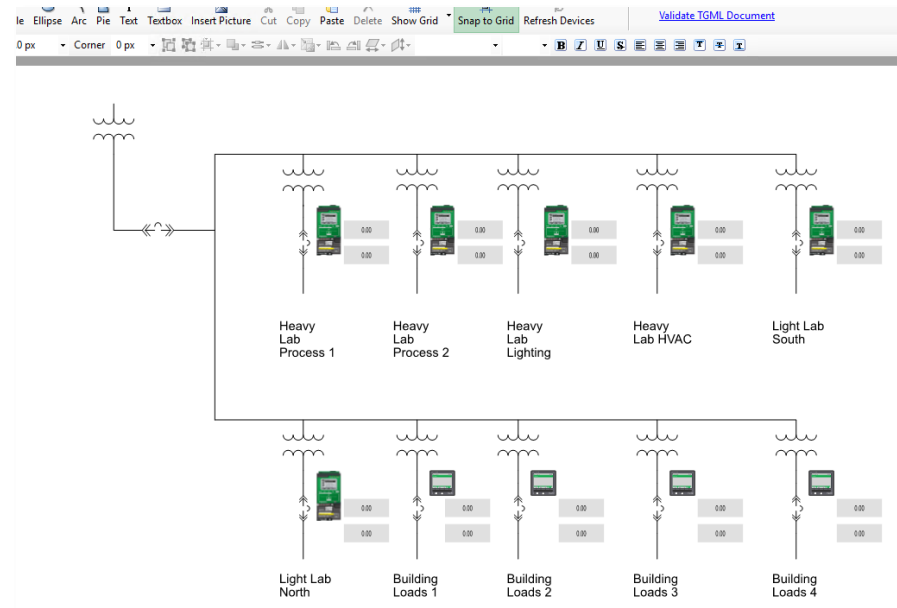
Création du SLD avec TGML

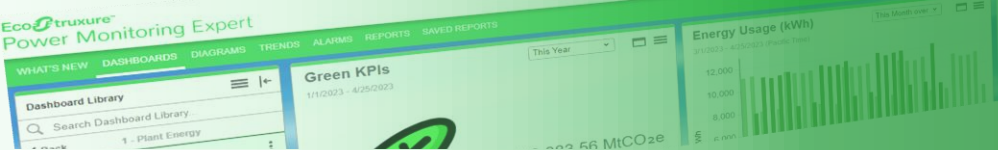
Les composants TGML peuvent être liés à des registres ION pour afficher des données provenant d'appareils, de la même manière que les objets sont liés à des registres ION dans Vista.



10 minutes to configure pop-up for each component

- Le lien vers le diagramme Vista de l'appareil peut être obtenu à partir de l'application web Diagrammes.
- Ajouter un snippet Pop-up à chaque appareil sur le SLD pour que le TGML ouvre le lien vers le diagramme de l'appareil dans une fenêtre pop-up.

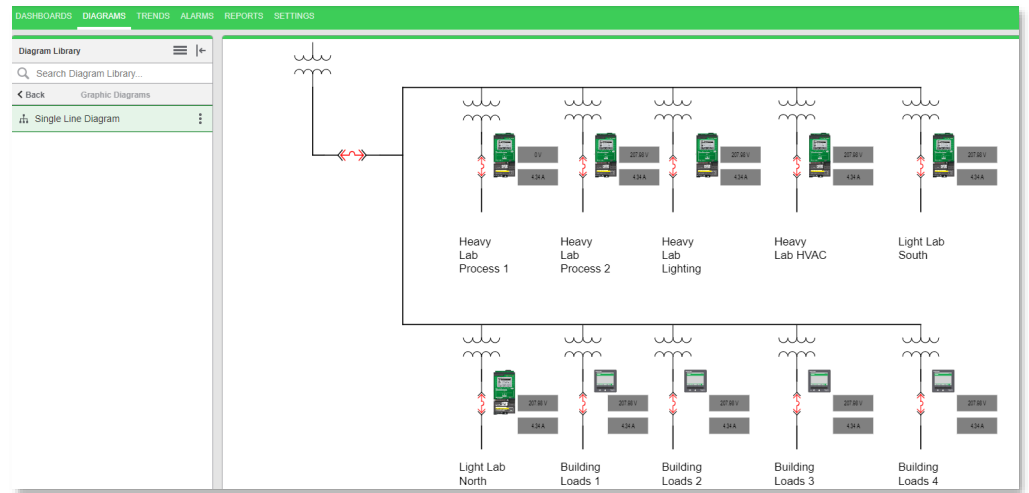
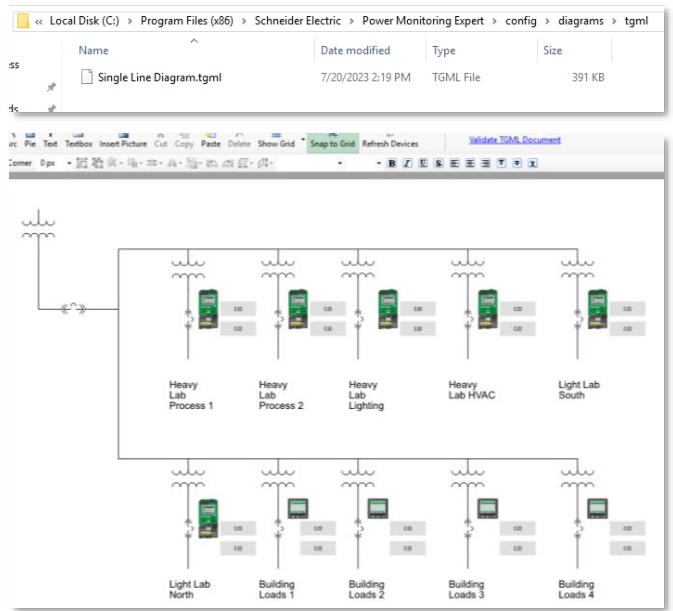




Graphiques modernes avec TGML

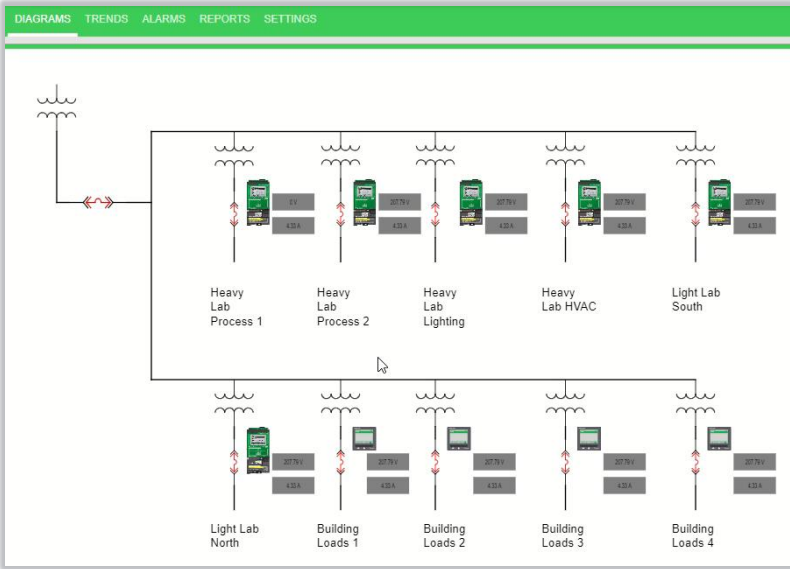
Création du SLD avec TGML

Diagrammes TGML enregistrés automatiquement inclus dans l'application web Diagrams

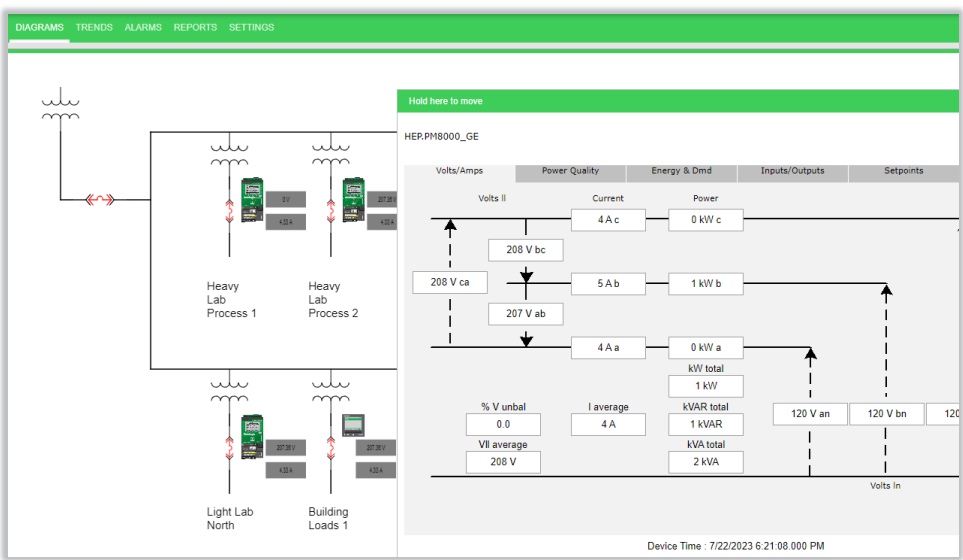


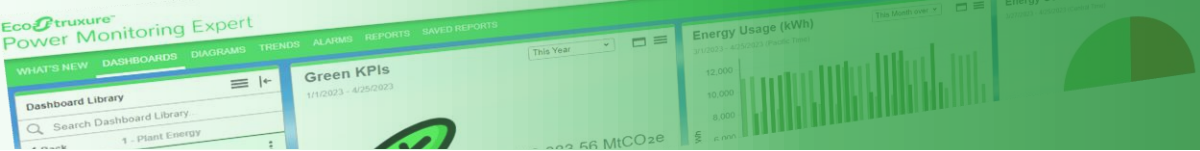
Graphiques modernes avec TGML > Visualiser le TGML dans l'application web Diagrams

Naviguer dans le SLD pan / zoom

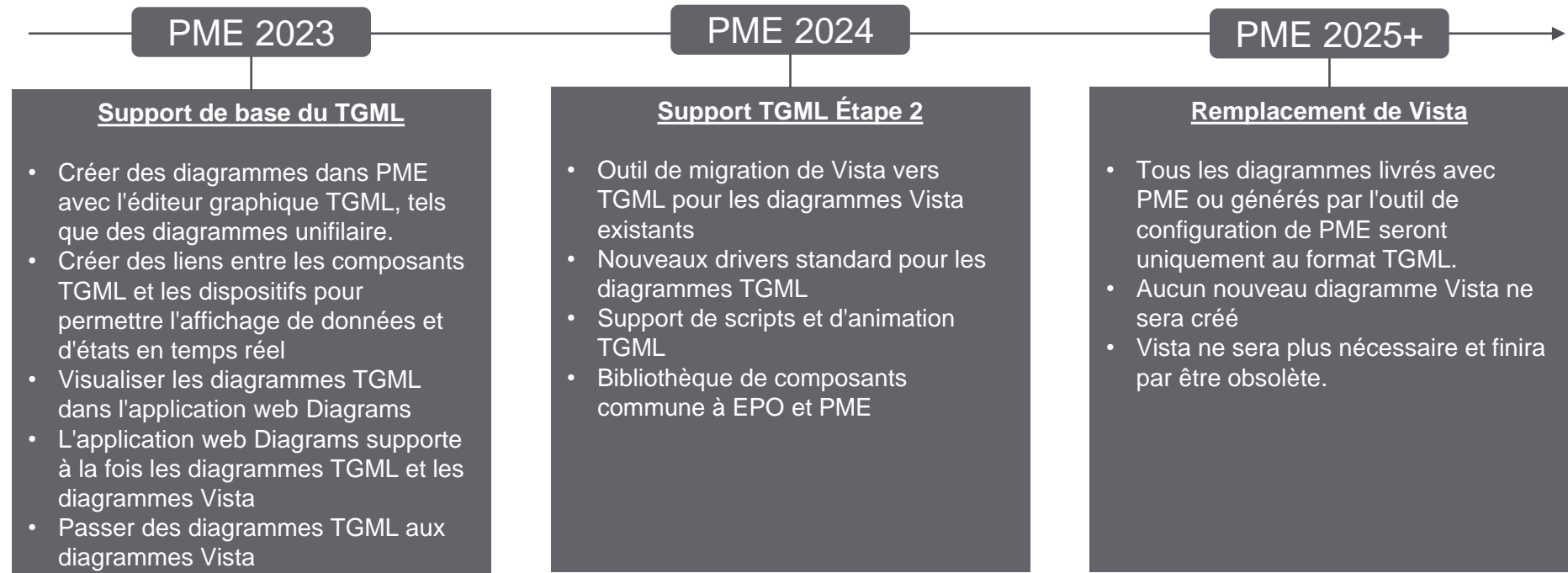


Afficher le diagramme de l'appareil





Graphiques modernes avec TGML → Prise en charge du TGML par phases



Support de base du TGML

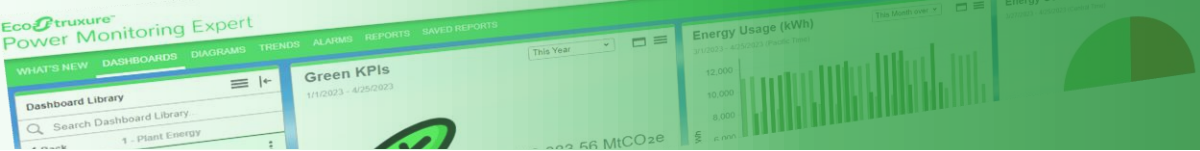
- Créer des diagrammes dans PME avec l'éditeur graphique TGML, tels que des diagrammes unifilaire.
- Créer des liens entre les composants TGML et les dispositifs pour permettre l'affichage de données et d'états en temps réel
- Visualiser les diagrammes TGML dans l'application web Diagrams
- L'application web Diagrams supporte à la fois les diagrammes TGML et les diagrammes Vista
- Passer des diagrammes TGML aux diagrammes Vista

Support TGML Étape 2

- Outil de migration de Vista vers TGML pour les diagrammes Vista existants
- Nouveaux drivers standard pour les diagrammes TGML
- Support de scripts et d'animation TGML
- Bibliothèque de composants commune à EPO et PME

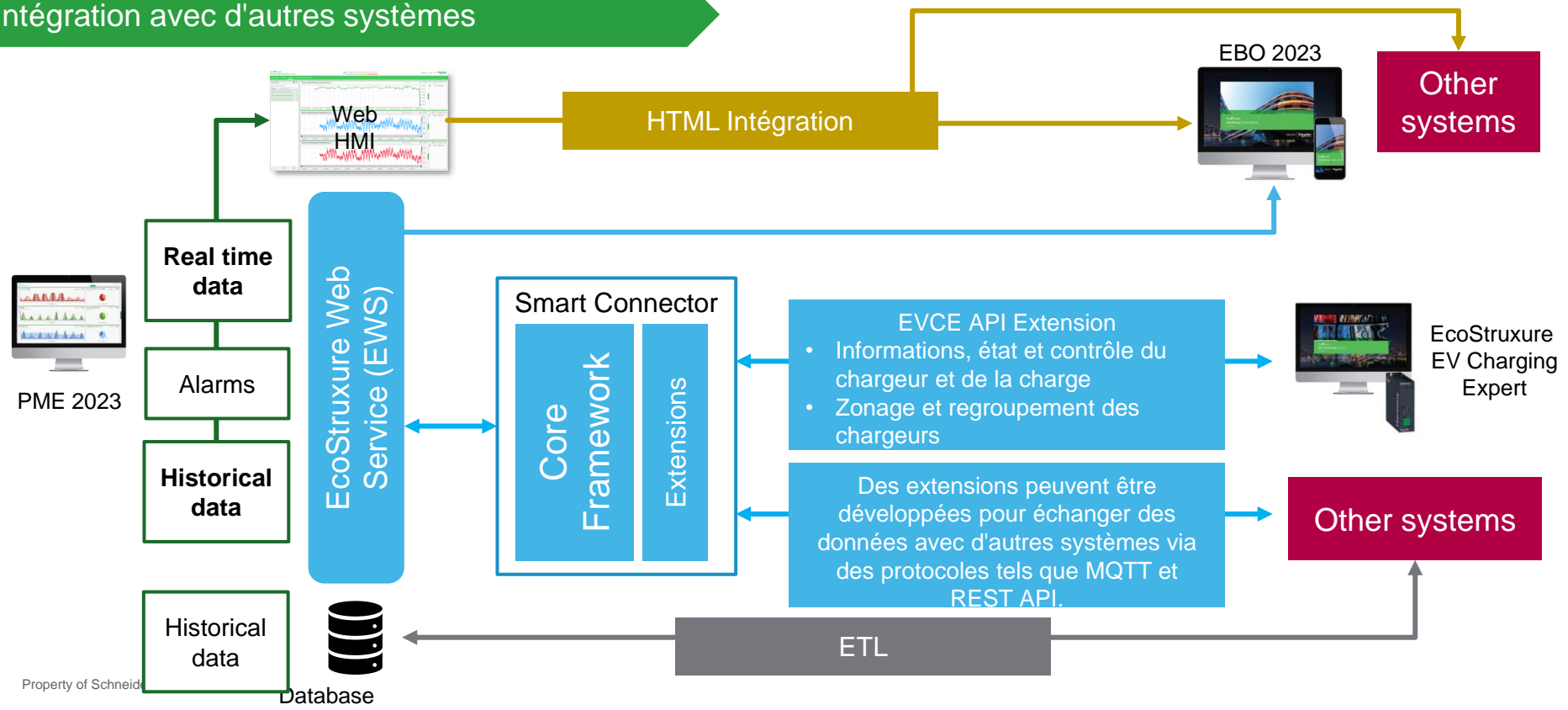
Remplacement de Vista

- Tous les diagrammes livrés avec PME ou générés par l'outil de configuration de PME seront uniquement au format TGML.
- Aucun nouveau diagramme Vista ne sera créé
- Vista ne sera plus nécessaire et finira par être obsolète.



EcoStruxure Power Monitoring Expert

Intégration avec d'autres systèmes



Mieux gérer l'électricité

Intégration avec Ecowatt API

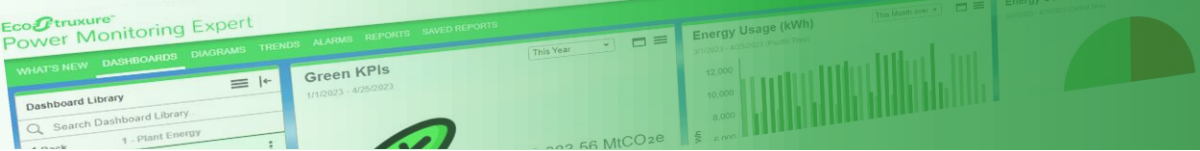


Objectif : aider la France à mieux consommer l'électricité en période de crise énergétique

Fournit le niveau de consommation de la France en temps réel et en prévisions

En connaissant les prévisions de consommation de la France, les entreprises peuvent planifier leurs opérations afin d'assurer un bon approvisionnement en électricité pour tous et d'éviter les coupures de courant.

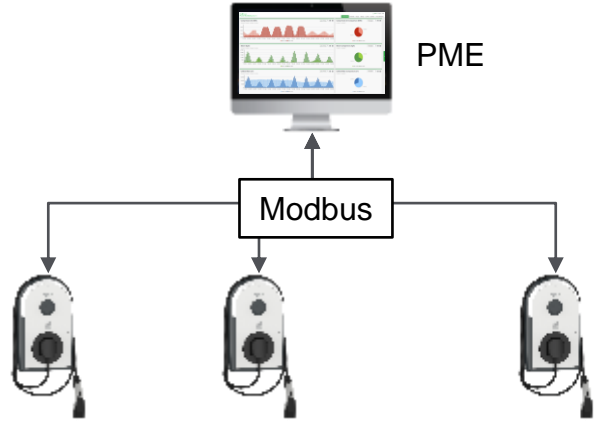
Fournit une API permettant aux abonnés d'être alertés du niveau de consommation horaire pour aujourd'hui et les trois prochains jours.



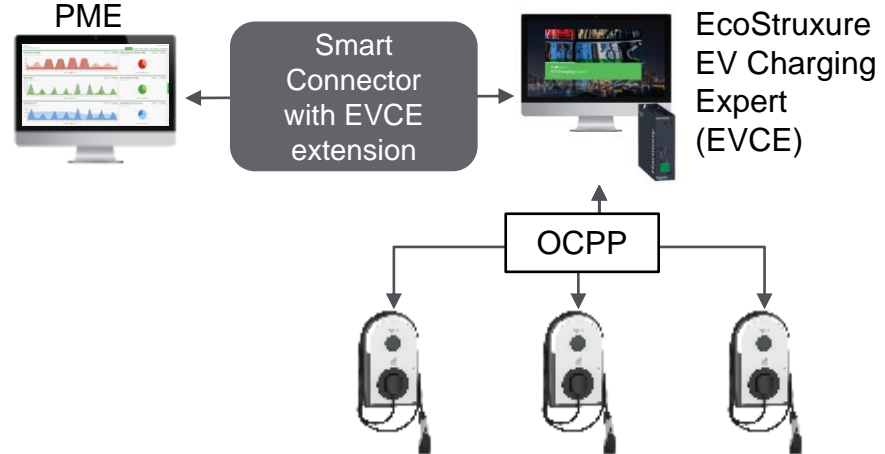
Efficacité à travers la surveillance des chargeurs pour les VE

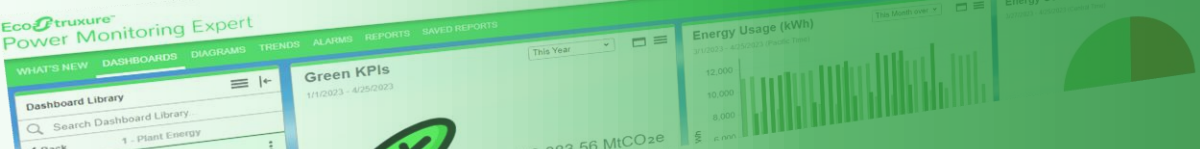
Intégration avec EV Charging Expert (EVCE) API

System without EV Charging Expert



System with EV Charging Expert





EcoStruxure Power Monitoring Expert

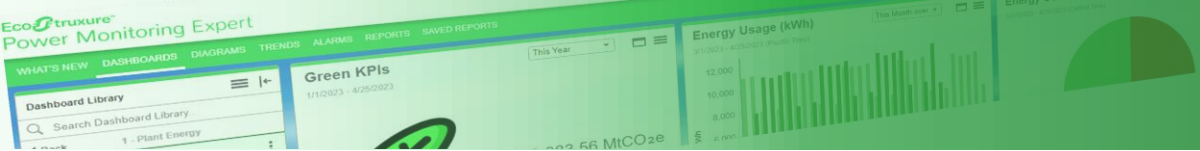
Smart Connector

Formation pour le développement du connector

Formation en ligne sur [Smart Connector extension development training](#)

Chapter 1: Intro	
Intro To SmartConnector	Start
Chapter 2: Data Flows	
Common Data Flows	Start
Chapter 3: Initial Setup	
Setup Development Environment	Start
Chapter 4: Setup Processor Configuration	
Setup Processor Config	Start
Chapter 5: Setup Processor	
Setup Processor Development Part 1	Start
Setup Processor Development Part 2: Custom Code	Start
Chapter 6: Setup Processor (Cont.)	
Setup Processor: Creating Objects	Start
Setup Processor: Creating Objects (Cont.)	Start
Setup Processor: Getting Forecast Data	Start

Chapter 7: Update Processor	
Update Processor Part 1: Refactoring	Start
Update Processor Part 2	Start
Update Processor Part 3	Start
Chapter 8: Customizing our EWS Server	
Custom EWS Server	Start
Chapter 9: Testing	
Unit Testing	Start
Chapter 10: Deployment	
Deploying Your Extension	Start
Chapter 11: Licensing	
How to License your Extension	Start
Chapter 12: Quiz!	
SmartConnector Final Quiz	Start

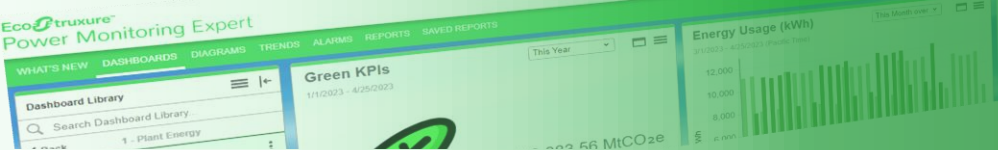


Smart Connector Communauté d'experts

Accès à des ressources et à une communauté d'experts prêts à répondre à vos questions sur Smart Connector on [Smart Connector Forum](#)

The screenshot shows the SmartConnector Forum interface. On the left, there is a sidebar with a list of forums: EcoStruxure Building Operation Forum, SmartConnector Forum (highlighted), Field Devices Forum, TAC Vista Forum, SpaceLogic for Niagara, EcoStruxure Security Expert Forum, and a 'View More' link. Below the forums list is a 'Top Experts' section featuring three users: JeffBowman (164 Solutions), ardak (34 Solutions), and sesa180908_brid (34 Solutions). The main content area is titled 'SmartConnector Forum' and includes a 'Sort By' dropdown, 'Start a Topic' button, and 'Subscribe' button. Three forum posts are visible:

- Post 1:** User Tus_bms-Tech_co asks about a 'Hilton OnQ integration issue' where room occupancy state is 1 in occupied mode but null in unoccupied mode. It has 80 views and 0 replies.
- Post 2:** User PiotrJakubczyk asks about 'smart connector 2.5.4 not able to use other SQL user than sa'. It has 103 views and 0 replies.
- Post 3:** User Sascha_dubach_b asks about 'EWS RESTful Gateway documentation for SmartConnector v2.5'. It has 2 unread replies.

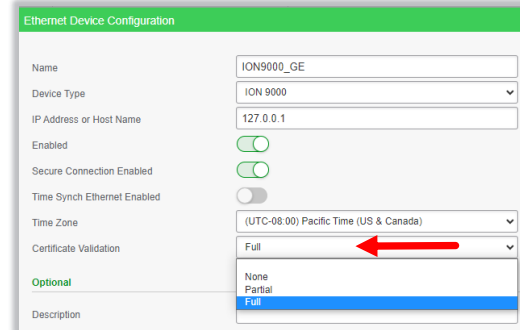
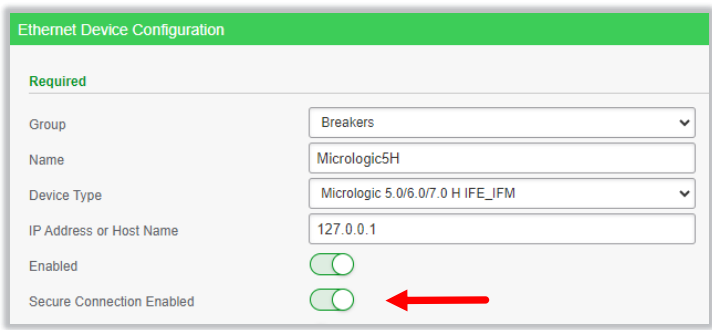


Communication sécurisée des appareils ➤ Cryptage des données en transit via ION et Modbus



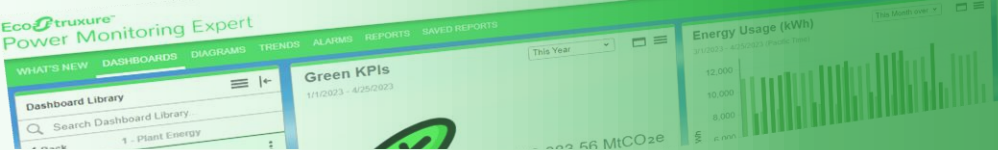
1 Activer la connexion sécurisée sur l'appareil supporté

2 Configurer l'option de validation du certificat



Option de validation de la certification :

- Complète : bloque la communication en cas de problèmes de certification
- Partielle : avertissement en cas de problèmes de certification
- Aucune : pas de vérification de la certification



Analyse de l'énergie flexible

Analyser la consommation avec des journées personnalisées

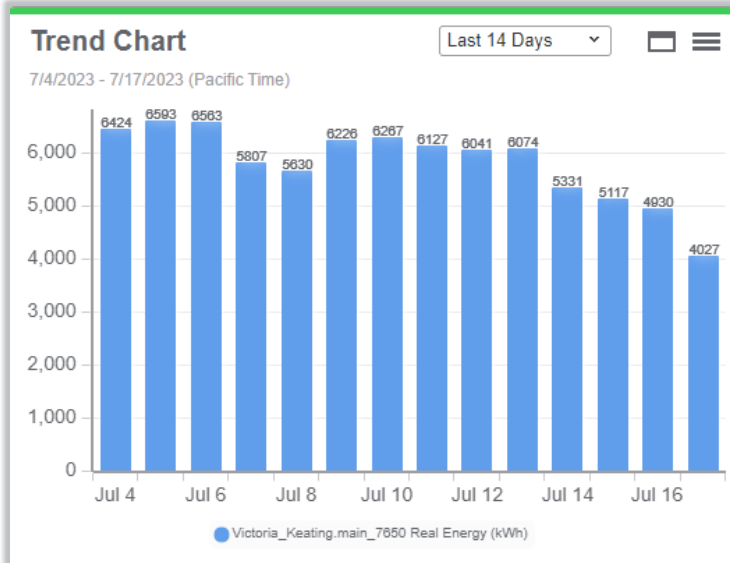


L'utilisateur n° 1 : quotidienne de la consommation de 12h00 à 12h00 (jour calendaire).

Custom Day Settings

Custom Start of Day

12:00 AM

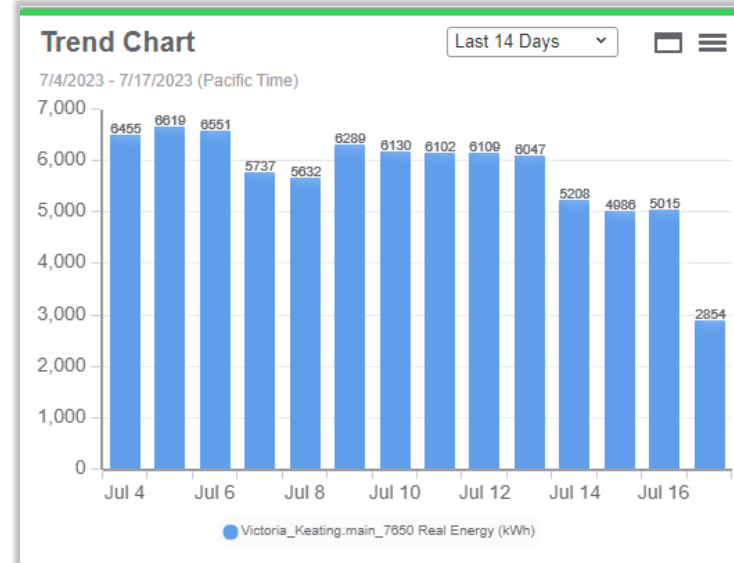


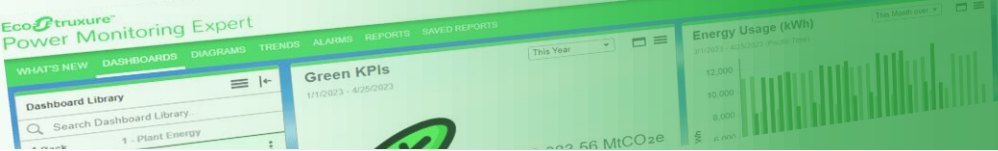
L'utilisateur n° 2 : agrégation quotidienne de la consommation de 6h00 à 6h00 (jour personnalisé).

Custom Day Settings

Custom Start of Day

6:00 AM





Analyse de l'énergie flexible

Analyser la consommation avec des journées personnalisées

Si le rapport possède ses propres paramètres de début et de fin de journée, les paramètres du rapport ont la priorité sur les paramètres personnalisés de début de journée.

Custom Day Settings

Custom Start of Day
6:00 AM

Energy Usage Report

Title: Energy Usage

Sources: None Selected

Measurements: None Selected

Reporting Period: Last 7 Days [start of day 9/1]

Server Local Time

Rollup: Day

Start Hour: 11:00

End Hour: 11:00

Lower Target Line: No Target Line

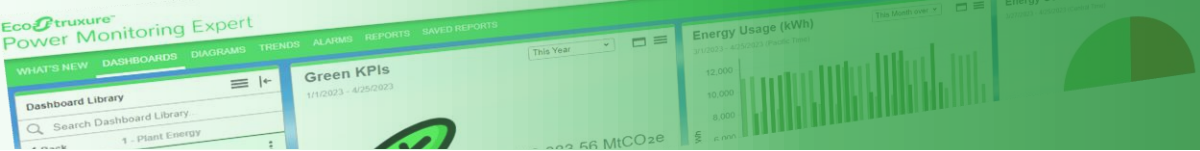
Upper Target Line: No Target Line

Source Label: Source Name

Agrégation	Début	Fin
Quotidien	11:00am	11:00am jour calendaire suivant*
Hebdomadaire	Samedi 11:00am	11:00am Samedi suivant
Annuel	11:00am on Jan 1	11:00am Jan 1 année suivant

Le premier jour de la semaine est le dimanche

*: L'heure de fin n'est considérée que dans les 24 heures suivant l'heure de début. Il n'est pas possible de fixer l'heure de fin à 11h00 le deuxième jour calendaire suivant le début.



Raisons de la mise à niveau ➤ Suivre l'évolution des TI

Operating Systems

- Windows 10 Professional/Enterprise
- Windows 11 Professional/Enterprise
- Windows 11 IoT Enterprise
- ~~Windows Server 2012 Standard~~
- ~~Windows Server 2012 R2 Standard/Enterprise~~
- Windows Server 2016 Standard
- Windows Server 2019 Standard
- Windows Server 2022 Standard

Microsoft Excel

- Microsoft Excel 2013, 2016, 365

.Net Framework

- .NET 4.8 or higher

Database Systems

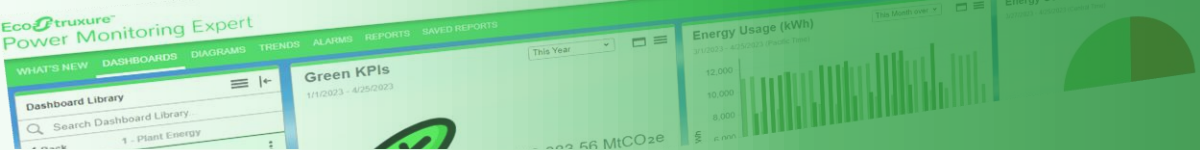
- ~~SQL Server 2012 Express~~
- SQL Server 2014 Express
- SQL Server 2016 Express
- SQL Server 2017 Express
- SQL Server 2019 Express
- **SQL Server 2022 Express (included in PME 2023 ISO)**
- ~~SQL Server 2012 Standard/Enterprise/Business Intelligence~~
- SQL Server 2014 Standard/Enterprise/Business Intelligence
- SQL Server 2016 Standard/Enterprise/Business Intelligence
- SQL Server 2017 Standard/Enterprise/Business Intelligence
- SQL Server 2019 Standard/Enterprise/Business Intelligence
- **SQL Server 2022 Standard/Enterprise/Business Intelligence**

Virtual Environments

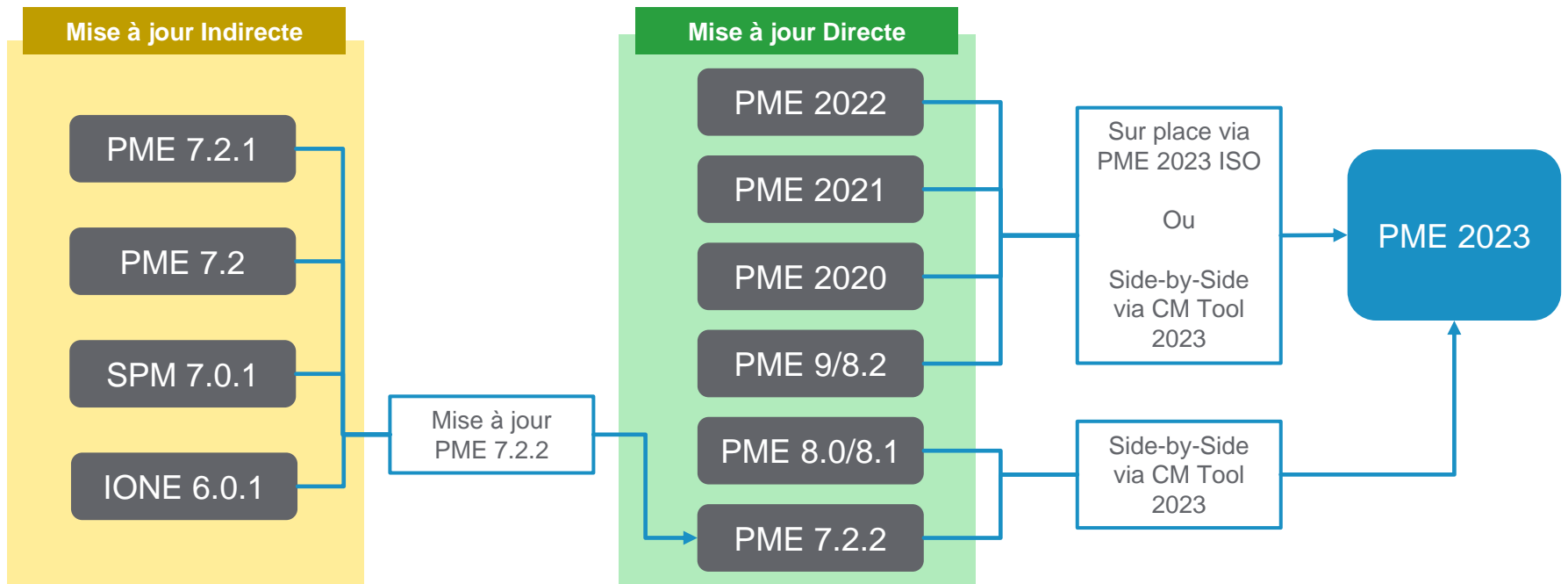
- VMWare Workstation 10
- **VMWare ESXi 7.0**
- Oracle Virtual Box 5.0.4
- **Microsoft Hyper-V from Windows 10, Windows Server 2016**
- Citrix XenServer 6.2
- Parallels Desktop 10
- QEMU-KVM

Web Browser

- Desktop Web Browser:
- **Google Chrome version 100 and later**
 - **Mozilla Firefox version 71 and later**
 - Apple Safari versions 7 or 8 and later
 - Microsoft Edge
- Mobile Web Browser:
- Safari on iOS8.3+ operating systems
 - Chrome on Android systems



Implementation de mise à jour



Vérifiez toujours si les versions existantes de Windows OS et SQL sont supportées par PME 2023 avant de procéder à une mise à jour.

Life Is On

Schneider
Electric

Annexes

PME 2020

Web Device Manager

The screenshot shows the 'Device Manager' interface with a 'DEVICES' tab selected. It features a table with columns for Communication Status, Type, Full Name, Address, Device Type, and Site. There are also buttons for 'Add Ethernet Device' and 'Import...', and a search bar.

Communication Status	Type	Full Name	Address	Device Type	Site
/	Ethernet	Alarms.HSTC	127.0.0.1:7700	ION 7350	N/A
/	Ethernet	Alarms.PreExisting	127.0.0.1:7700	ION 7650	N/A
/	Ethernet	Alarms.RealTime	127.0.0.1:7700	ION 7650	N/A
/	Serial	BreakerAging.NSXA	127.0.0.1:502/1	Micrologic 5.2/6.2/5.3/6.3 A	BreakerAging.NSXA
/	Ethernet	CM.4000T_84_247	127.0.0.1:502	CM4000 Series	N/A

New Notification Engine

The screenshot shows the 'Notifications' interface with a 'RULES' tab selected. It includes a table for notification rules and buttons for 'Add Notification Rule'.

Rule Name	Alarm View	Recipients
PQ	Incident History – Power Quality Incidents [New Activity]	Operator

Web Device Control

The screenshot shows the 'Web Device Control' interface for 'HST.9000T'. It features a 'Power Quality Setup' section with 'Common' and 'Sag/swell' sub-sections. The 'Common' section includes fields for Nominal voltage, Nominal Frequency, PT primary, PT secondary, CT primary, and CT secondary. The 'Sag/swell' section includes fields for Swell limit, Sag limit, Sag/Swell Detection, Enable Burst Data Logging, Rapid Voltage Change Threshold, and Rapid Voltage Change Enabled.

Common

- Nominal voltage: 120.00 V
- Nominal Frequency: 60 Hz
- PT primary: 120.00
- PT secondary: 120.00
- CT primary: 5.00
- CT secondary: 5.00
- Enable Harmonics Logging:
- Enable Waveform Recording:

Sag/swell

- Swell limit: 110 % of Nominal Voltage
- Sag limit: 90 % of Nominal Voltage
- Sag/Swell Detection: Disabled
- Enable Burst Data Logging: Before enabling Burst Data, correctly configure nominal voltage, nominal frequency and PT configured Burst Data can generate large traffic.
- Rapid Voltage Change Threshold: 5 % of Nominal Voltage
- Rapid Voltage Change Enabled: No

User Personalization Settings

The screenshot shows the 'User Personalization Settings' interface. It includes sections for Profile Details, Change Password, Localization, and Theme Color.

Profile Details

- First Name: Supervisor
- Last Name: Account
- Organization: Default Organization
- Email Address: [Empty field]

Change Password

- Current Password: [Empty field]
- New Password: [Empty field]
- Confirm New Password: [Empty field]

Localization

- User Language: English
- User Region: English (United States)
- Date format: Example: [Empty field]
- Time format: Example: [Empty field]
- Number format: Example: [Empty field]

Theme Color

- Enable high contrast mode:
- Theme Color: [Color selection buttons]

Web Device Manager

Same and more features that device management in Management Console

The screenshot displays the 'Device Manager' web interface. At the top, there are tabs for 'DEVICES' and 'SITES'. Below the tabs are buttons for 'Add Ethernet Device' and 'Import...'. A search bar labeled 'Search Devices' and a 'Default Types' dropdown are also visible. The main area is a table with columns for 'Communication Status', 'Type', 'Full Name', 'Address', 'Device Type', and 'Site'. The table contains 15 rows of device data. A callout box points to the 'Import...' button, and another points to the search bar. A third callout box points to the 'Communication Status' column.

CSV Import/Export

- Batch add and edit devices in a csv and import the csv to update devices in PME
- Export device csv from ION Setup and import into PME
- Export devices from PME to always have latest device information
- Import sites, ethernet devices, serial devices and OPC devices at the same time

Search and filter options to quickly find and view devices you are looking for

Device communication status at a glance

Communication Status	Type	Full Name	Address	Device Type	Site
⌘	Ethernet	Alarms.H	0.0.1:7700	ION 7350	N/A
⌘	Ethernet	Alarms.P	0.0.1:7700		
⌘	Ethernet	Alarms.R	0.0.1:7700		
⌘	Serial	BreakerA	0.0.1:502/1		
⌘	Ethernet	CM.4000	0.0.1:502	CM4000 Series	N/A
●	Ethernet	HST.9000	68.69.41:7700	ION 9000	N/A
⌘	Ethernet	ION.7650	0.0.1:7700	ION 7650	N/A
⌘	Serial	MAIN.DP	0.0.1:502/4	PM800 Series	MAIN_FL12_EGX
⌘	Serial	MAIN.DP	0.0.1:502/3	PM800 Series	MAIN_FL12_EGX
⌘	Serial	MAIN.ED	0.0.1:502/6	CM4000 Series	MAIN_BLDG_R_EGX
⌘	Serial	MAIN.GE	0.0.1:502/7	PM800 Series	MAIN_BOILER_RM_EGX
⌘	Serial	MAIN.GE	0.0.1:502/6	PM800 Series	MAIN_BOILER_RM_EGX
⌘	Serial	MAIN.GEN_3	127.0.0.1:502/5	PM800 Series	MAIN_BOILER_RM_EGX
⌘	Serial	MAIN.TS_1	127.0.0.1:502/9	PM800 Series	MAIN_BOILER_RM_EGX
⌘	Serial	MAIN.TS_2	127.0.0.1:502/1	PM800 Series	MAIN_RM6A_EGX

1 - 97 of 97 Devices

Lines/page : 100

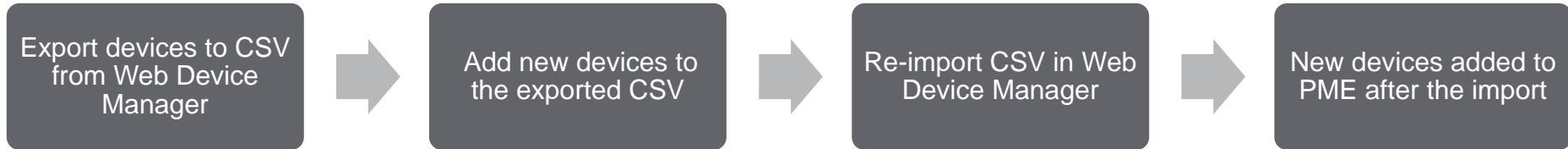
1

Web Device Manager

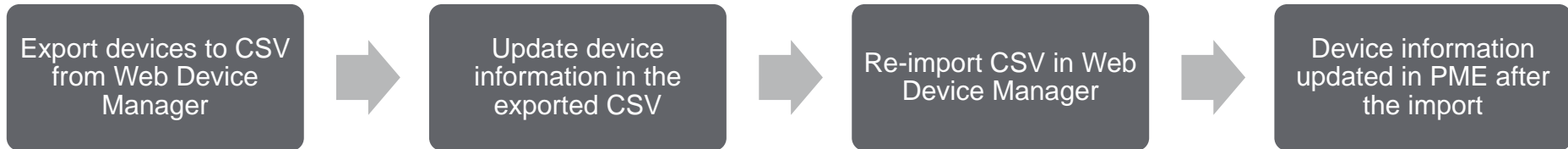
Use case #1: Adding devices very first time



Use case #2: Adding more devices



Use case #3: Bulk editing devices



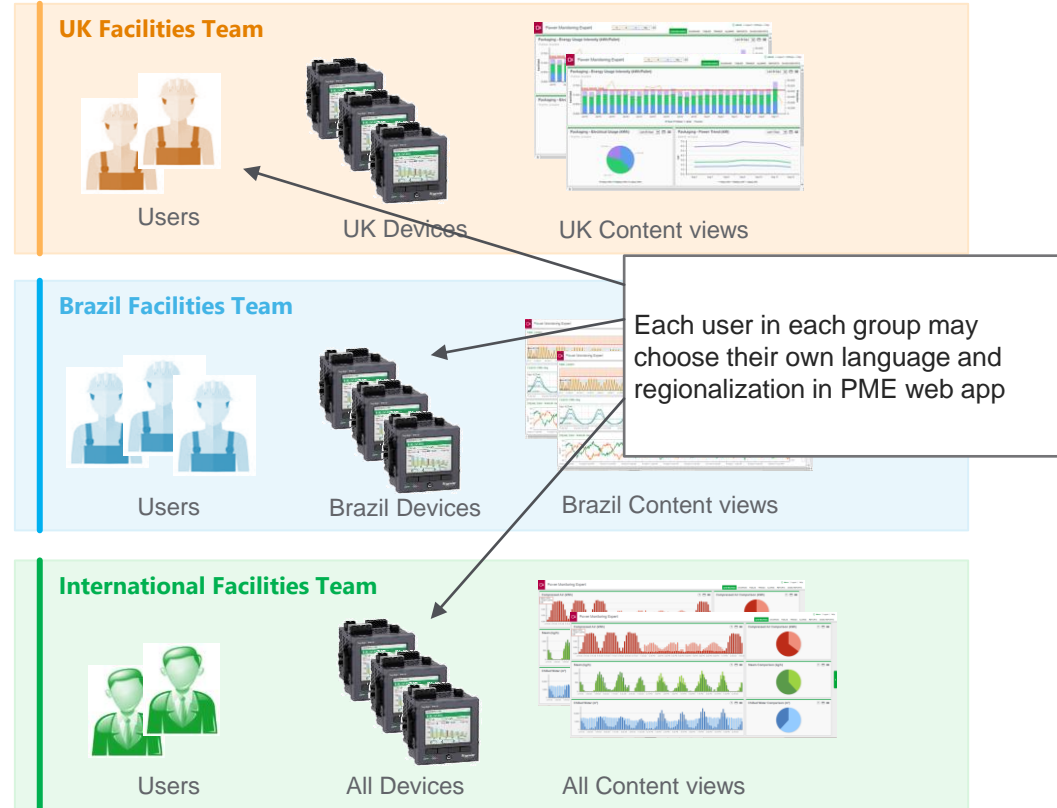
Multi Site with Role Based Access Control (RBAC)

PME Groups



A user group is a set of users with access to the same list of devices/sources and the same shared web content.

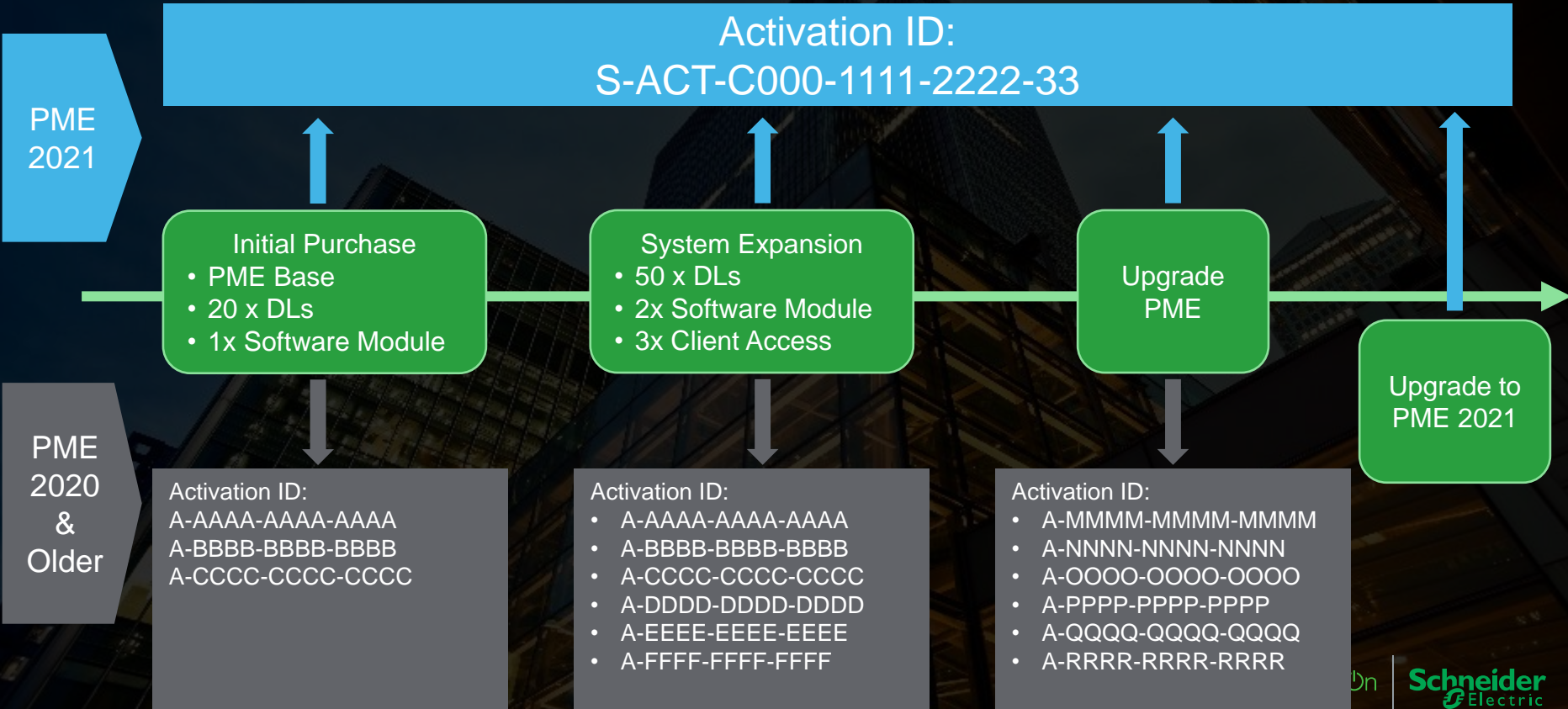
- Users of a group can have private content (dashboards, diagrams, alarms and reports)
- Users can belong to multiple groups
- Users can be Windows or native PME
- PME groups are not required if content partitioning is not needed



PME 2021

IT Friendly License Management

Single Activation ID for a PME system



IT Friendly License Management

Reduces License Re-activations on Typical Operations



OR



When running on virtual machines, licenses remain trusted during following scenarios

- Changes to physical host or VM MAC address of NIC card
- Changes to physical host or VM RAM
- Changes to physical host hard disk or VM disk
- Changes to OS clock
- Physical host or VM rebooted
- VM paused or resumed
- VM restored from snapshot
- VM live migrated / moved (eg: VMotion) for common migration scenarios (see slide notes for details)

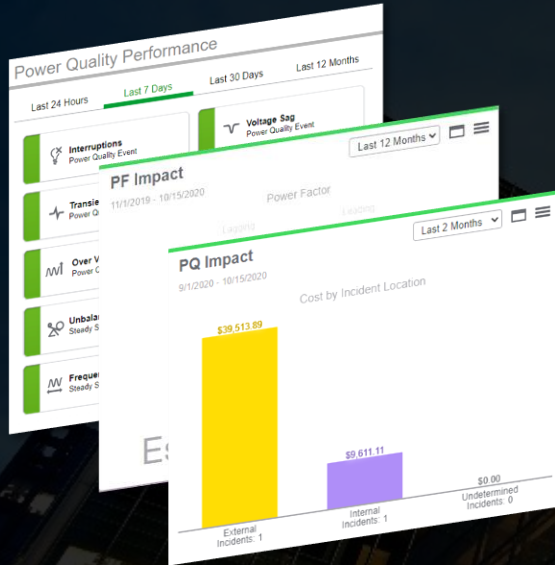
When running on physical machines, licenses remain trusted during following scenarios

- Physical host rebooted
- Changes to physical host RAM
- Changes to physical hard disk
- Changes to OS clock

Improved PQ Applications

Multi Site PQ Performance

PQ Performance Module



Multi-site Support

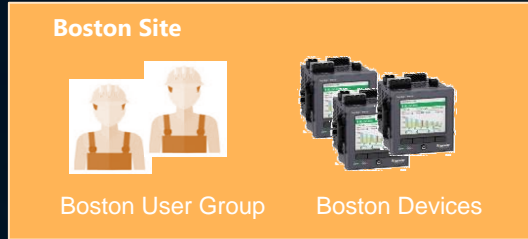


Improved PQ Applications

Multi Site PQ Performance

Role-Based Access Control (RBAC)

Boston Site



Boston User Group Boston Devices

The Boston Site RBAC diagram shows two user icons on the left and three device icons on the right, representing the user group and devices for that site.

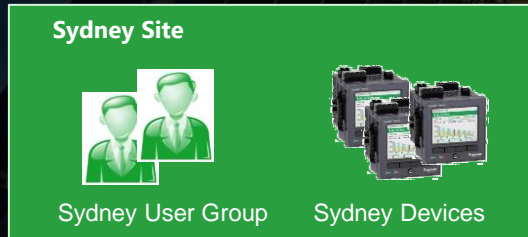
Victoria Site



Victoria User Group Victoria Devices

The Victoria Site RBAC diagram shows three user icons on the left and three device icons on the right, representing the user group and devices for that site.

Sydney Site



Sydney User Group Sydney Devices

The Sydney Site RBAC diagram shows two user icons on the left and three device icons on the right, representing the user group and devices for that site.



Create a hierarchy to represent sites and add devices to each site in hierarchy accordingly

Create a user group for each site and assign site users to a corresponding user group

Select hierarchy sources to site user group can access

Assign user group to PQ Group

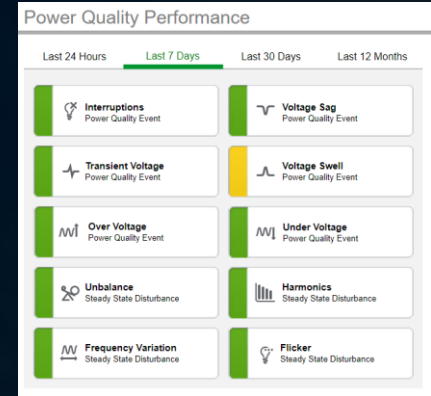
Configure PQ Performance diagrams for each site

Improved PQ Applications

Multi Site PQ Performance



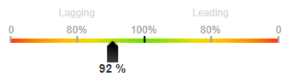
Victoria Site



PF Impact

11/1/2019 - 10/15/2020

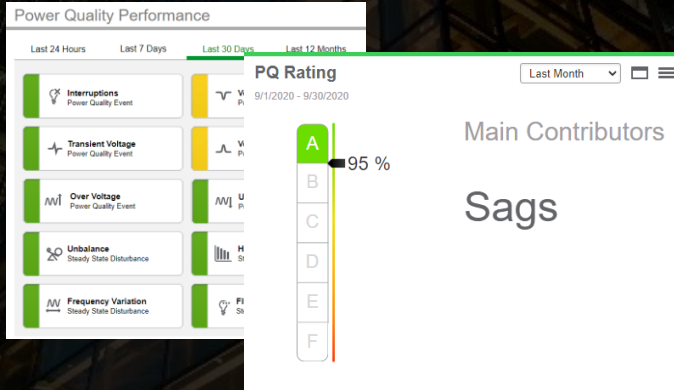
Power Factor



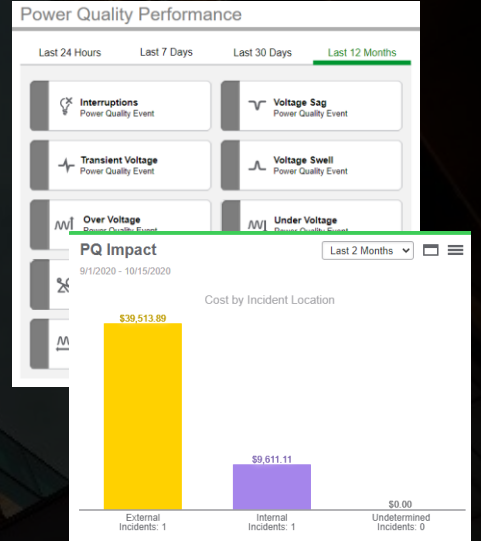
\$56,411

Estimated Surcharge

Sydney Site



Boston Site



Improved PQ Applications

Understand Voltage Variations with SARFI Index



Supply

A customer and a utility may agree upon a contract of how many voltage sags and what level of voltage sags is acceptable. SARFI Report helps both the customer and utility to understand the count of the voltage variations and fulfill the contract



Demand



SARFI Report

1/1/2019 12:00:00 AM - 1/1/2020 12:00:00 AM (Server Local)

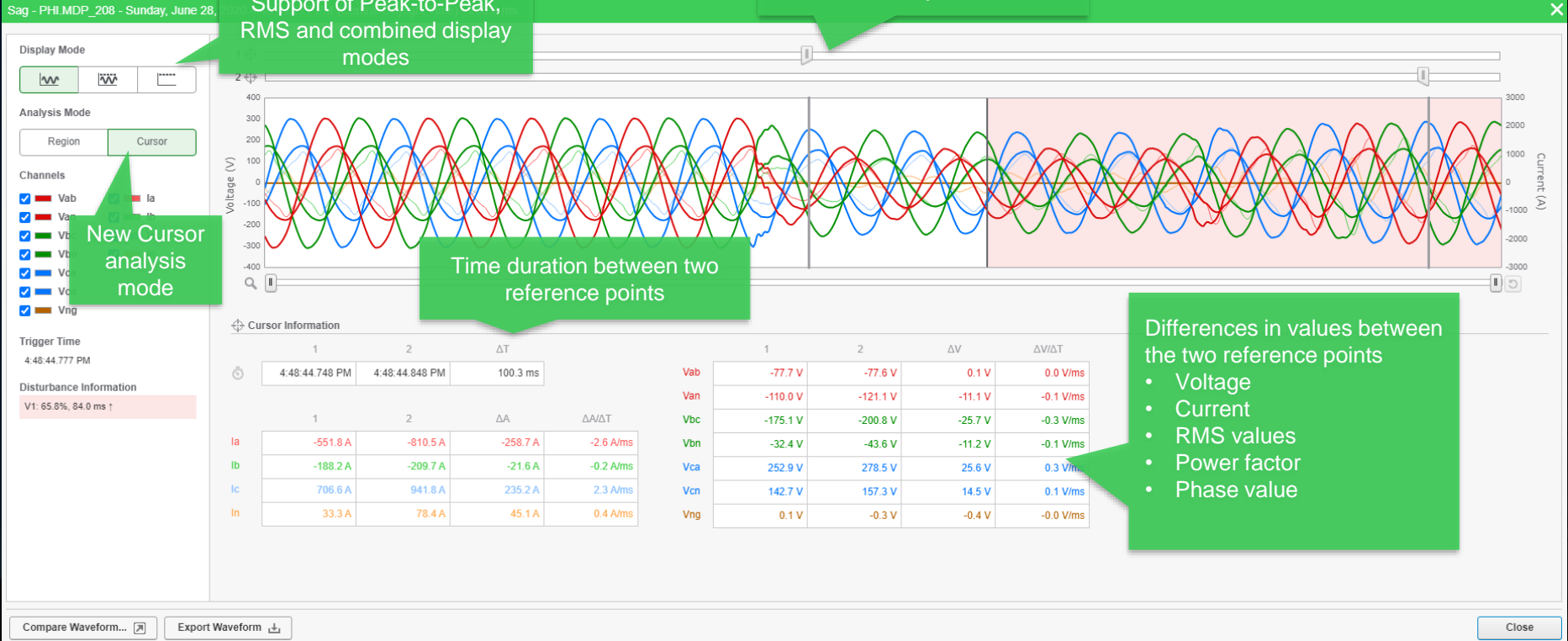
Source	SARFI								ITIC	SEMI
	10	50	70	80	90	110	120	140		
Keating.Main_7650	1	2	4	14	72	0	0	0	4	
Keating_Panel_B	1	1	4	14	86	0	0	0	5	
Keating_Panel_E	1	1	4	14	86	0	0	0	5	
Keating_Panel_M	1	1	4	14	86	0	0	0	5	
Keating_Panel_M_Left	0	1	3	28	63	0	0	0	4	
Keating_Panel_M_Right	0	0	4	23	61	0	0	0	5	
Keating_Panel_H	1	1	4	14	86	0	0	0	5	
Keating.RTU_5	1	1	4	14	86	0	0	0	5	1
Keating.Server_Room_IT_Load	1	1	1	10	38	0	0	0	2	2

Utility customers may run SARFI index at each of their customers to monitor and benchmark voltage variations, such as voltage sag, among their customers

In order to know the number of voltage variations, such as voltage sag, from their utility, demand customers may compute SARFI index at each of their plants at the service entrance

Improved PQ Applications

Analyze Waveforms Point by Point



Support of Peak-to-Peak, RMS and combined display modes

Select reference points to analysis

New Cursor analysis mode

Time duration between two reference points

Differences in values between the two reference points

- Voltage
- Current
- RMS values
- Power factor
- Phase value

Improved PQ Applications

Analyze Waveforms Point by Point

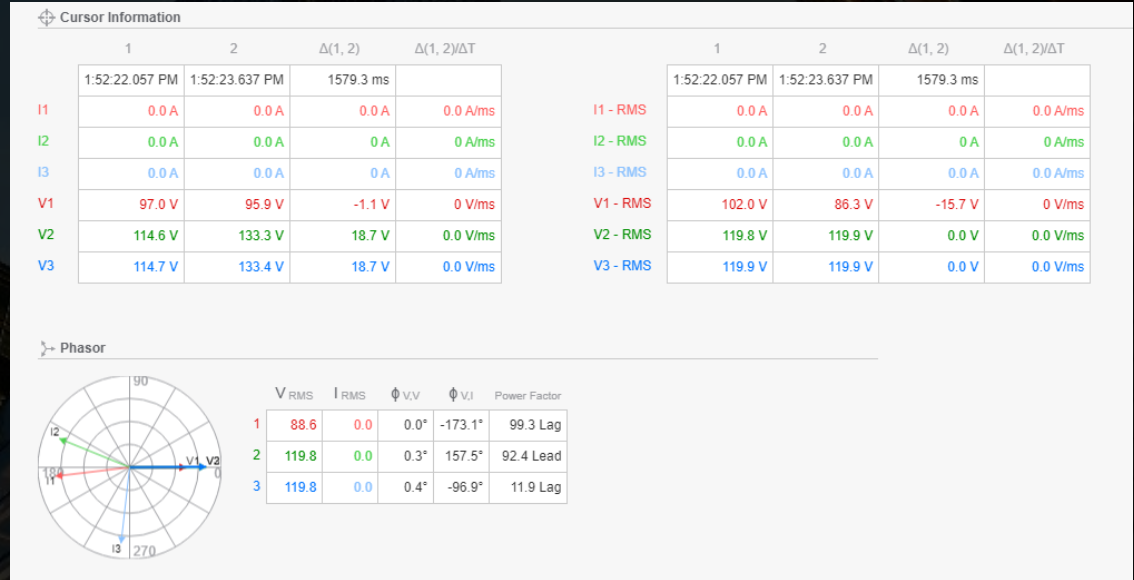
Option to show phasor diagrams or not in the Cursor Mode

Advanced Options

Auto scale Y-Axis

View

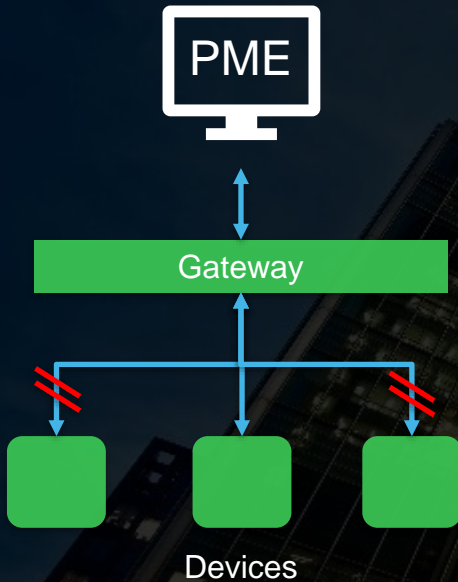
Phasor



Extended Energy Analysis

Alarm when data not being logged

When devices are connected to PME via a gateway, there may be loss of communication between the gateway and downstream devices that PME cannot detect and therefore cannot log the data from devices



1 Set up a data log status for devices via gateway

The screenshot shows the 'Add Alarm Rule - Alarm Template' window. The 'Select Alarm Template' search bar contains the text 'data log status'. Below the search bar, a list of templates is shown, with 'Diagnostic (1)' selected. The details for 'Data Log Status' are displayed, including a bell icon and the description: 'Detect a data log loss for a device which is not connected all the time.'

2 Set up an alarm view

The screenshot shows the 'Diagnostics' dialog box. It has a search bar and a list of diagnostic categories. The 'Data Log Status' checkbox is checked, while others are unchecked. At the bottom, there are 'Cancel' and 'OK' buttons, and a link for 'Select none Select all'.

3 A dedicated alarm view on data log status that you can configure notification

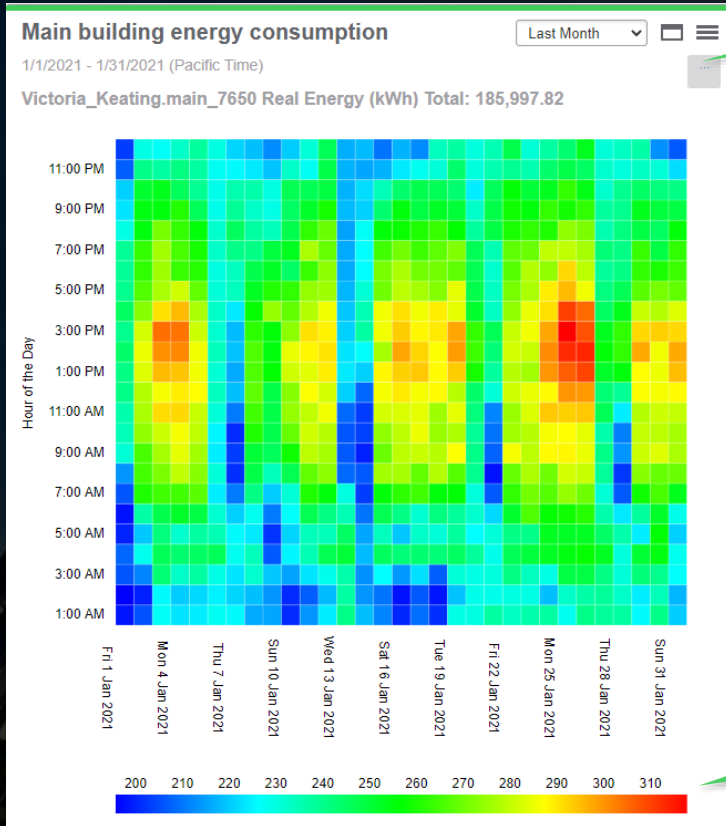
The screenshot shows the 'Alarm Status - Data Log Status' view. On the left is a 'View Library' sidebar with a search bar and a list of views, including 'Data Log Status'. The main area displays a table of alarm status:

State	Name	Type	Source
5 min 15 sec ago	Data Log Status	Data Log Status	Simulator.PM8000

Extended Energy Analysis

Updated Heatmap Gadget

New export option menu for print gadget or export gadget to PNG, JPG, SVG, CSV and HTML format



Gadget Setup

GENERAL SETTINGS DATA SERIES VIEWING PERIOD **HEAT MAP SETUP**

Colors

Use fixed value color ranges

< 0 >= < 0 >= < 0 >=

Outliers

Remove Outliers

Min Threshold 0 Max Threshold 50

Heat Map Header

Show Data Series Name

Show Total

Data Gaps

Clear last log after a data gap

Cancel Save

Improved legend display

Extended Energy Analysis

Updated Sankey Gadget

New export option menu for print gadget or export gadget to PNG, JPG, SVG, CSV and HTML format



The 'Gadget Setup' dialog box for 'SANKEY CHART SETUP' includes the following settings:

- Hierarchy Depth Limit:** 5
- Display Mode:** Automatic
- Unaccounted Values:**
 - Display unaccounted values as nodes
 - Truncate long text
 - Wrap long text
- Options:**
 - View Only Last Log
 - Show Data Warning
 - Reverse Sankey Chart
- Font Size:** 12
- Max Label Width:** 150
- Label Overflow:** Wrap long text
- Chart Size:** Manual (Height: 600)

Sort nodes by name or value

Configurable font size to increase readability

Display unaccounted values to discover unmetered consumption

Reverse Sankey option

Extended Energy Analysis

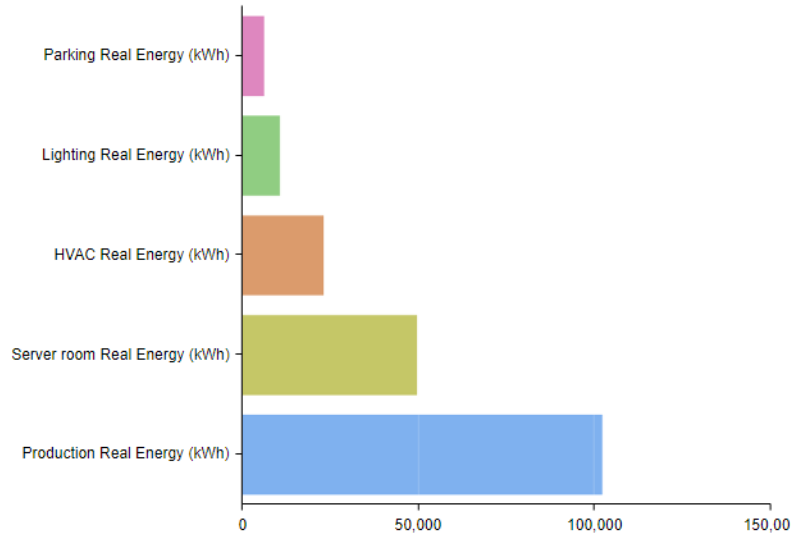
Updated Consumption Ranking Gadget

New export option menu for print gadget or export gadget to PNG, JPG, SVG, CSV and HTML format

Main building energy consumption

1/1/2021 - 1/31/2021 (Pacific Time)

Total: 191,073.57



Limit

No Limit

Limit to Items

Sort Order

Ascending Descending

New Limit setting to show all sources, the top X or the bottom Y sources of your choice

Extended Energy Analysis

Updated Table Gadget

Statistic row and column to show real time aggregation of values

Cell highlighting gives you a quick glance what the abnormalities are

Show Statistics Row

Type: Average Highlighting Rule: 0

Statistics Column

Type: Average Highlighting Rule: -92

Sum

Min

Max

Show Statistics Column

Type: Average Highlighting Rule: -92

Highlight

Highlighting Rule: Under

Highlight Regular Cells

Highlighting Rule: Under

Decimal Places:



Real Time Table

Last Update: 2/22/2021 3:53:02 PM Update in 0:08

Measurements	Simulator.PM8...
Power Factor A	-94.1
Power Factor B	-92.1
Power Factor C	-91.0
Average	-92.41

Real Time Table

Last Update: 2/22/2021 3:53:12 PM Update in 0:09

Sources	Power Factor A	Power Factor B	Power Factor C	Average
Simulator.PM8000	-94.2	-92.0	-90.9	-92.37

Extended Energy Analysis

Updated Table Gadget Cont'd

Compute new values in real time with user defined calculated field and custom formula of device measurements

Show User Defined Calculated Field

Calculated Field Name

Formula Highlighting Rule

Variable	Column Name
A	Voltage L-L Avg (V)
B	Current Avg (A)



Sample - Calculating Power from V and I

Last Update: 2/22/2021 9:50:17 PM Update in 0:02

Sources	Voltage L-L Av...	Current Avg (A)	Power (W)
Simulator.PM8000	208	4	901.22

Sample - Calculating Power Factor

Last Update: 2/22/2021 9:50:53 PM Update in 0:08

Sources	Real Power (kW)	Apparent Pow...	Power Factor
Simulator.PM8000	1	2	0.92

Sample - Calculating kg of Coal from kWh

Last Update: 2/22/2021 9:54:41 PM Updating...

Sources	Real Energy (...)	Kg of Coal
Simulator.PM8000	11	5.23

Extended Energy Analysis

New Measurement Statistics Report

This report give you a statistic summary of measurements that you can choose different aggregation intervals and show statistics respective to TOU

Sc Helps you understand consumption pattern based on TOU

Measurement Statistics F

Support of both cumulative, such as kWh, and non-cumulative measurements, such as Voltage

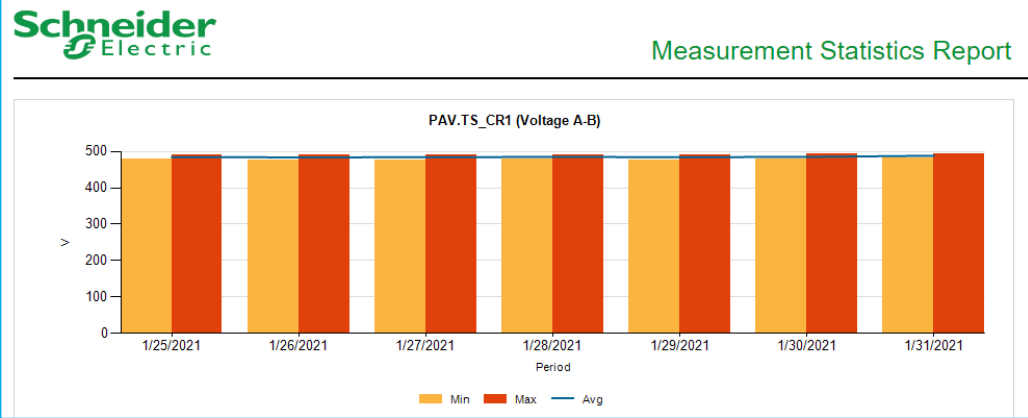
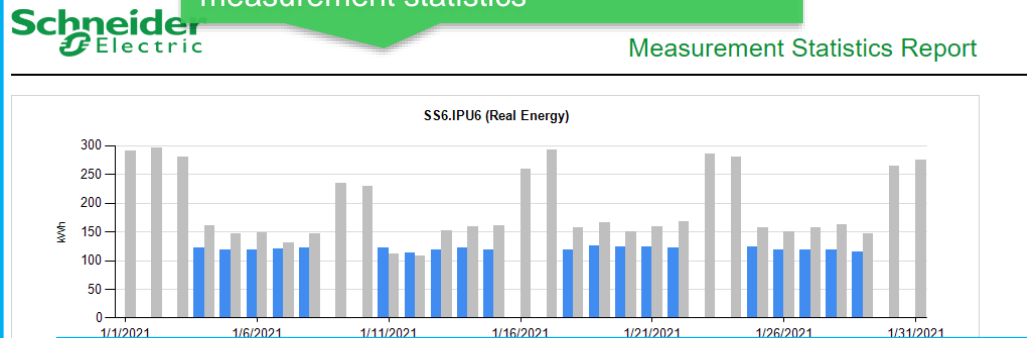
1/1/2021 12:00:00 AM - 2/1/2021 12:00:00 AM (Server Local)

Source	Real Energy (kWh) Partial Peak			Real Energy (kWh) Off Peak			Voltage A-B (V)				
	Total	Start Value	End Value	Total	Start Value	End Value	Min Value	Min Timestamp	Max Value	Max Timestamp	Average
Warp.WarpMeter	-	-	-	-	-	-	-		-		-
Device created by Data Generation job	13,581.56	531,748.12	550,157.44	4,832.69	533,516.00	549,026.31	-		-		-
Device created by Data Generation job	4,454.62	532,712.31	539,139.00	1,974.38	533,297.06	538,687.31	-		-		-
Device created by Data Generation job	-	-	-	-	-	-	585.00	1/26/2021 6:15:00 PM	622.00	1/26/2021 1:45:00 AM	595.57
Device created by Data Generation job	133,979.38	1,305,506.50	1,491,439.25	52,004.25	1,323,279.00	1,479,077.50	-		-		-
Device created by Data Generation job	133,994.88	1,076,115.88	1,262,061.00	52,001.00	1,093,888.75	1,249,697.62	-		-		-
Device created by Data Generation job	26.29	937.78	966.90	2.83	941.32	965.02	-		-		-
EPSS - Supports IPU6 data	5,988.68	34,451.95	42,839.52	2,400.75	35,318.92	42,299.56	575.66	1/5/2021 1:23:00 PM	616.04	1/5/2021 1:55:00 PM	584.04
Device created by Data Generation job	-	-0.13	-0.13	-	-0.13	-0.13	-		-		-
Device created by Data Generation job	-	-0.01	-0.01	-	-0.01	-0.01	-		-		-

Extended Energy Analysis

New Measurement Statistics Report – Cont'd

Graphical representation of aggregated measurement statistics



Schneider Electric Measurement Statistics Report

Support of hierarchy sources

1/1/2021 12:00:00 AM

Source	Real Energy (kWh) Partial Peak			Real Energy (kWh) Off Peak		
	Total	Start Value	End Value	Total	Start Value	End Value
LArea2	133,994.88	50.75	49.62	52,001.00	56.12	59.12
LArea1	133,979.38	50.88	49.62	52,004.25	56.25	59.12

Flexible aggregation option to analyze statistics daily, weekly, monthly or yearly

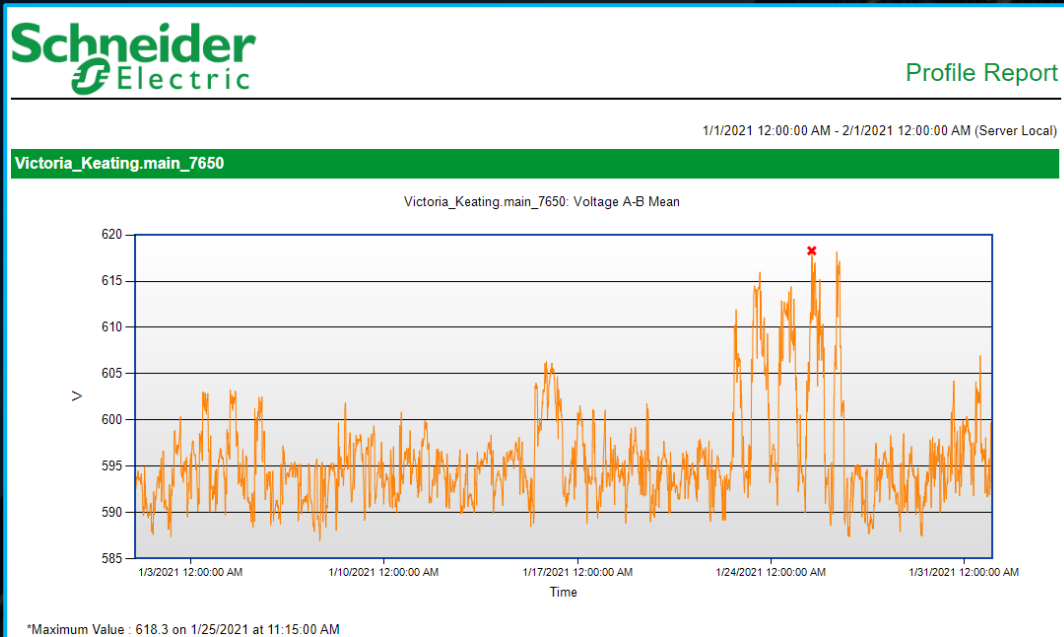
Schneider Electric Measurement Statistics Report

Source	Period	Real Energy (kWh) Partial Peak		
		Total	Start Value	End Value
Device created by Data Generation job	1/31/2021	6,120.38	1,255,993.62	1,262,061.00
Device created by Data Generation job	12/27/2020	1.75	937.78	939.53
Device created by Data Generation job	1/3/2021	6.89	939.53	947.23
Device created by Data Generation job	1/10/2021	7.41	947.23	955.59
Device created by Data Generation job	1/17/2021	4.46	955.59	960.36
Device created by Data Generation job	1/24/2021	5.02	960.36	966.14
Device created by Data Generation job	1/31/2021	0.76	966.14	966.90
EPSS - Supports IPU6 data	1/3/2021	1,249.32	35,039.43	36,888.49
EPSS - Supports IPU6 data	12/27/2020	587.41	34,451.95	35,037.50
EPSS - Supports IPU6 data	1/10/2021	1,178.57	36,893.84	38,659.86
EPSS - Supports IPU6 data	1/17/2021	1,380.62	38,665.11	40,653.27

Extended Energy Analysis

New Profile Report

Similar to Load Profile report, this report allows you to profile any measurements you have logged



Support of hierarchy sources

Support of both cumulative and non cumulative measurements

Option to show first, all or no Max values

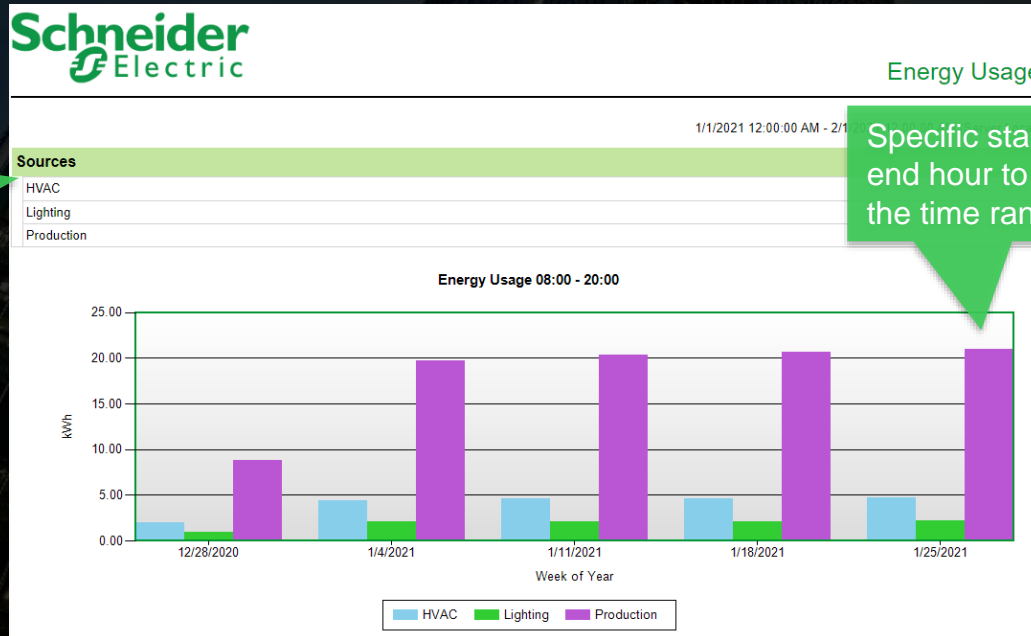
Option to use source name, source description, or both source name and description as source label

Extended Energy Analysis

New Scaled Energy Usage Report

This report can normalize source measurement pairs before it applies a scale factor from another source measurement pair. It supports different aggregation periods and has a different charting options for data visualization

Support of hierarchy sources



Specific start hour and end hour to look up only the time range of interest

Rollup: Week

Start Hour: 08:00

End Hour: 20:00

Custom Units Label: kWh

Extended Energy Analysis

New Scaled Energy Usage Report – Cont'd

Visualize energy usage with different charting options

Include Column Chart Yes No

Include Stacked Column Chart Yes No

Include Line Chart Yes No

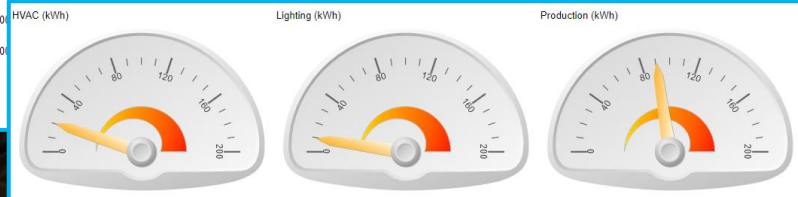
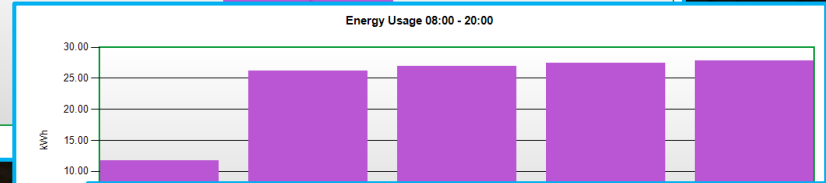
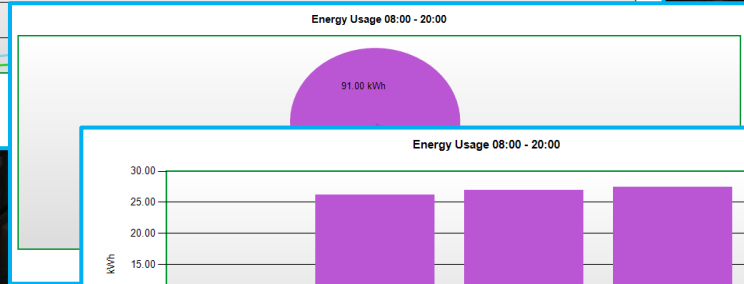
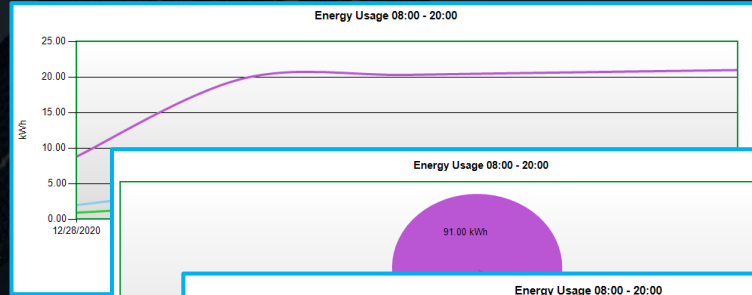
Include Pie Chart Yes No

Include 100% Area Chart Yes No

Include Area Chart Yes No

Include Gauges Yes No


Include Tables Yes No



Extended Energy Analysis

New KPI by TOU Report

This report can normalize source measurement pairs and apply a scale factor from another source measurement pair. It also supports different rollup periods and TOU, and can email notification on target value exceptions. Being one of the most flexible reports, this report gives you different options to analyze energy usage and stay alerted on abnormality

KPI by TOU Report

Normalize kWh into common consumption among sites, production lines, processes and so on to get overall summary of consumption

Selected TOU Schedule

Sample Schedule__Imported

Usage Summary

Source	Partial Peak (Kg of Coal)	Off Peak (Kg of Coal)	Total (Kg of Coal)
HVAC	718.64	320.85	1,039.49
Lighting	330.20	147.42	477.62
Parking	189.85	84.76	274.61
Production	3,195.45	1,426.65	4,622.09
Server room	1,548.51	691.35	2,239.87
Total	5,982.65	2,671.03	8,653.69

Support of hierarchy sources

Extended Energy Analysis

New KPI by TOU Report – Cont'd

Use a scale source and measurement and scale multiple to calculate simple KPI such as

$\text{kWh/person} = \text{kWh} / \text{occupancy count} * 10$, where occupancy count is the scale source measurement pair and 10 is the scale multiplier

Sources HVAC
 Upper

Scale Source Victoria_Ke

Scale Measurement Frequency M

Scale Multiplier

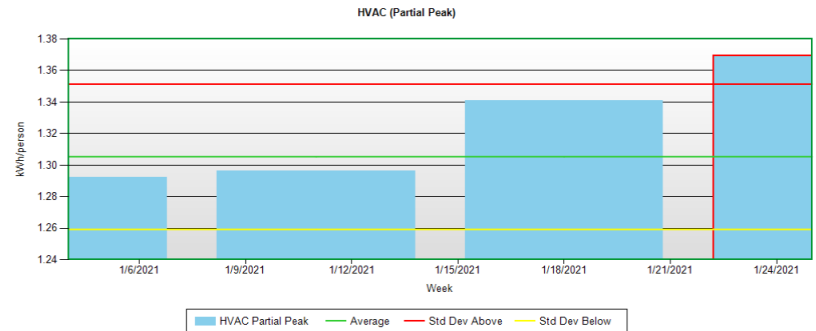
Precision

Custom Units Override



Usage Summary

Source	Partial Peak (kWh/person)	Off Peak (kWh/person)	Total (kWh/person)
HVAC	1.325	1.215	1.289
Lighting	0.609	0.558	0.592
Parking	0.350	0.321	0.341
Production	5.891	5.404	5.732
Server room	2.855	2.619	2.778
Total			2.146



Usage Breakdown Table - HVAC

Aggregation Interval	Partial Peak (kWh/person)
1/4/2021	1.293
1/11/2021	1.296
1/18/2021	1.341
1/25/2021	1.370
Total	1.325

Extended Energy Analysis

New KPI by TOU Report – Cont'd

Use Standard deviation as targets to visualize consumption and to send out notification when there is target value exception so that you can make adjustment or preventive measures to manage energy consumption

Standard Deviation Calculation Period: [start of]

Server Local Time

Rollup:

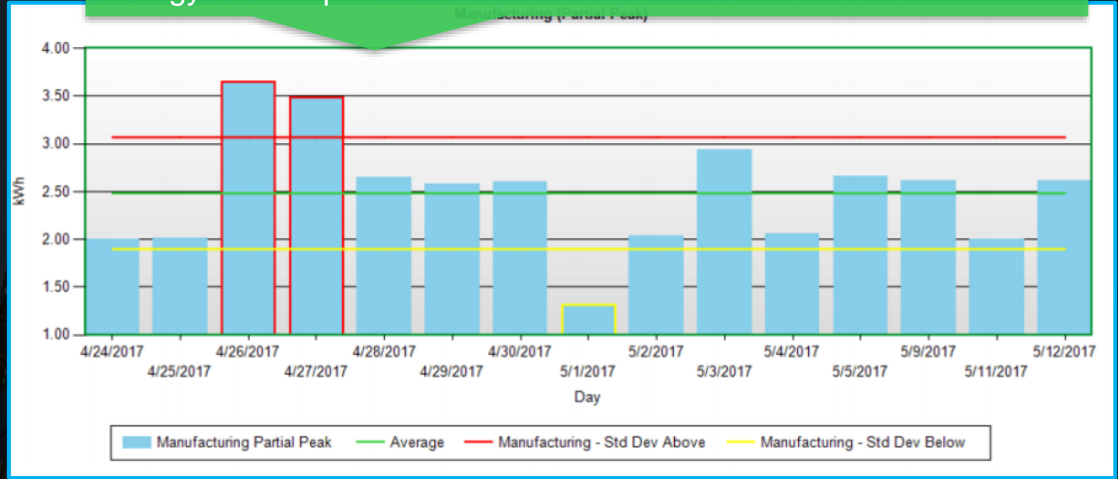
Select Time of Use:

Use Standard Deviation Target in Column Chart: Yes No

Show Average in Column Chart: Yes No

Standard Deviation Multiplier:

Chart Type:



Notify on Target Value Exception: Yes No

Notify on Std Dev Exception:

Notify/Show Charts on Last Aggregated Interval Exception Only:

Show Charts with Exception Only:

Email Address:

Email Subject:

Tue 2/10/2018 2:51 PM

PME Alert

Calculated Target Exception

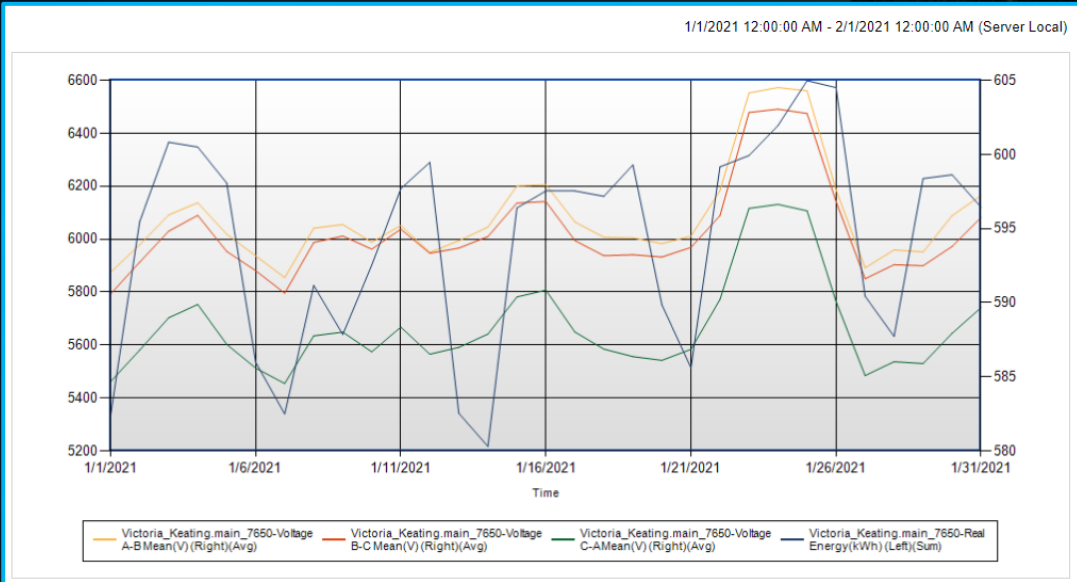
BCPM.Box1_1PH_Ch20 for 9/26/2018 12:00 PM (All) recorded value was 17.1 (Real Energy), exceeding the upper target of 3.91 (Real Energy)

BCPM.Box1_1PH_Ch20 for 9/26/2018 1:00 PM (All) recorded value was 4.54 (Real Energy), exceeding the upper target of 3.91 (Real Energy)

BCPM.Box1_1PH_Ch20 for 9/26/2018 4:00 PM (All) recorded value was 14.75 (Real Energy), exceeding the upper target of 3.91 (Real Energy)

Extended Energy Analysis

Updated Multiple Trend Report



Support of hierarchy sources

High speed data support

Multiple aggregation option support
such as hourly, daily and weekly

Multiple aggregation methods per
axis such as sum, avg, min and max

Extended Energy Analysis

Updated Multiple Trend Report – Cont'd

Quickly understand measurement trends with summary table

Summary Table				
Source	Measurement	Avg	Min/Max	Min/Max Timestamp
Victoria_Keating.main_7650	Real Energy(Sum)	5,999.87	5,216.50	1/14/2021
			6,598.88	1/25/2021
Victoria_Keating.main_7650	Voltage A-B Mean(Avg)	595.79	591.69	1/7/2021
			604.52	1/24/2021
Victoria_Keating.main_7650	Voltage B-C Mean(Avg)	594.75	590.59	1/1/2021
			603.06	1/24/2021
Victoria_Keating.main_7650	Voltage C-A Mean(Avg)	588.36	584.54	1/7/2021
			596.63	1/24/2021

Aggregating more cumulative and non cumulative measurements for trend analysis

Period	Left Axis	Right Axis		
	Victoria_Keating.main_7650	Victoria_Keating.main_7650	Victoria_Keating.main_7650	Victoria_Keating.main_7650
	Real Energy(Sum)	Voltage A-B Mean(Avg)	Voltage B-C Mean(Avg)	Voltage C-A Mean(Avg)
1/2/2021	6,065.50	593.90	592.72	586.79
1/3/2021	6,366.38	595.92	594.82	588.97
1/4/2021	6,348.38	596.74	595.89	589.87
1/5/2021	6,212.00	594.62	593.46	587.18
1/6/2021	5,534.38	593.16	592.15	585.58

More Connected Devices and Applications

Arc Flash Detection



Arc flash can create a high temperature explosion that causes substantial damage, fire and injury. It can happen during abnormal use due to a corruption of isolation or during commissioning or maintenance, rendering equipment unusable and forcing costly downtime with serious economic consequences.



Easergy P5



SE's latest protection relay with built-in arc flash protection to reduce arc flash risk categorization and improve safety

Real time monitoring of Easergy P5 device status and alarm on when Arc Flash is detected to improve people safety and operation continuity

Trip Status - Latching				Arc Protection Settings					
IoUo>> 32N	Inactive	IoInt> 67N1	Inactive	fX 81					
I Phi>> 67	Inactive	U>>> 59	Active	U> 95	Stage	Stage Mode	Trip Delay [X1ms]	Hold Time X1ms]	Sensor Activated
I Phi>>> 67	Inactive	U>>> 59	Active	I2> 46BC	01	Light	0	20	Yes
I Phi>>>> 67	Inactive	I> 50/51	Inactive	T> 49F	02	Light	0	20	Yes
I Phi>>>>> 67	Inactive	U<<< 27	Inactive	U2> 47	03	Light	0	20	Yes
Uo>>> 59N	Inactive	U<<< 27	Inactive	fXX 81	04	Light	0	20	Yes
Io> 50/51N	Inactive	Uo> 59N	Inactive	df/dt> 81R	05	Light	0	0	
I>>> 50/51	Inactive	Uo>>> 59N	Inactive	P<< 32	06	Light	0	0	
IoUo>> 32N	Inactive	SOTF 50/51	Inactive	U<< 32	07	Light	0	0	
Io>> 50/51N	Inactive	df/dt>> 81R	Inactive	f< 81U	08	Light	0	0	
Io>>>> 50/51N	Inactive	P<<< 32	Inactive	f<< 81U					

Arc Protection		
Arc Stages		
	Latching	Non Latching
01	Inactive	Inactive
02	Inactive	Inactive
03	Inactive	Inactive
04	Inactive	Inactive
05	Inactive	Inactive
06	Inactive	Inactive
07	Inactive	Inactive
08	Inactive	Inactive
1	Inactive	Inactive
10	Inactive	Inactive

9 hr 50 min ago	Arc Stage 07 – Arc Flash Protection	Arc Flash
9 hr 50 min ago	Arc Stage 06 – Arc Flash Protection	Arc Flash
9 hr 50 min ago	Arc Stage 04 – Arc Flash Protection	Arc Flash
9 hr 50 min ago	Arc Stage 03 – Arc Flash Protection	Arc Flash

More Connected Devices and Applications

The Energy Code Compliance application analyzes energy data for your building loads to help the facility manager or energy manager to comply with building energy codes and standards

Sample aggregated loads for a three-floor building

NEC 220.12

- Total Lighting

ASHRAE 90.1

- Exterior Lighting
- Interior Lighting
- HVAC
- Plug Loads
- Site1

CA Title 24

- Total Lighting
- HVAC
- Plug Loads
- Site1
- Floor 1
- Floor 2
- Floor 3

IECC

- Exterior Lighting
- Interior Lighting
- HVAC
- Plug Loads
- Site1

LEED

- Total Lighting
- Plug Loads

More Connected Devices and Applications

Standard Scope of Work to help you propose to customers and effectively deploy application



Technical Proposal

Helps customer to understand

- What the application is
- What deployment options are
- How we verify deployment with customer
- How we orientate user, and
- Application examples for customer to see what the deployment may look like

(ASHRAE 90.1, CA Title 24, IECC, LEED) Example

The following image shows an example trend for a kWh



Estimate

Helps tendering teams to quote application deployment

- System requirements
 - Devices
 - Software
- Checklist and time estimates

Step	Summary	Estimate (hours)
<input type="checkbox"/>	Plan aggregated loads and measurements	2.00
<input type="checkbox"/>	Add a new VIP	0.25
<input type="checkbox"/>	Configure energy compliance framework	1.00
<input type="checkbox"/>	Add logical device type and devices	0.50
<input type="checkbox"/>	Configure web applications	1.50
<input type="checkbox"/>	Verify configuration	1.00
<input type="checkbox"/>	Review with end user	1.00
		Total: 7.25



Deployment Guide

Helps Application Engineers to plan and deploy the application

- Prerequisites
- Deployment steps

(PME option) Configure software

Complete the following software configuration steps

1. [Add a new VIP](#)
2. [Configure energy compliance framework](#)
3. [Add logical device type and devices](#)
4. [Configure web applications](#)

• Verification steps

(PME option) Verify software configuration

1. (NEC 220.12) Verify that notifications for lighting k SMS notifications are configured, confirm that the
2. (ASHRAE 90.1, CA Title 24, IECC, LEED) Verify and standards.
3. (CA Title 24) Verify that you can read the peak der
4. (CA Title 24) Verify that you can read the Energy p report.
5. (IECC) Verify that you can read the building Power

PME 2022 What's New

Connecting with other systems and platforms



PME 2022 equipped with EWS Server and Client to exchange data with other systems

Configure PME as EWS Server for EWS clients to access PME's data

EWS Server

Set credentials for the EcoStruxure Web Services (EWS) account. This account

ⓘ

User name

Password Confirm Password

New!
Configure PME as a EWS Client to connect to a EWS Server and obtain data

EWS Client - Configuration

EWS Client Details

Client Name* Description

You must enter a client name.

EWS Server Authentication

Server URL* Server Version

You must enter server URL.

Server User Name* Server Password*

You must enter server user name. You must enter server password.

EWS Server Polling

Historical Data Polling Historical Data Poll Interval (seconds)

Alarm Data Polling Alarm Data Poll Interval (seconds)

New!
Configure device measurement mappings to store data received by EWS Client to PME

EWS Client - Device/Measurement Mapping

Server	Device Name	Device Name
<FBar>	<FBar>	<FBar>
00Server 1Modbus TCP NetworkION900 151	<FBar>	<FBar>
<FBar>	<FBar>	<FBar>
Over Current A Alarm		Over Current A Alarm
Over Voltage A-B Alarm		Over Voltage A-B Alarm
Over Voltage B-C Alarm		Over Voltage B-C Alarm
new		
Frequency Trend Log		
14 Trend Log		

EWS Server and Client

EBO



Exchange real time and historical data and alarms with EBO using EWS without ETL

New!



Smart Connector

Other Systems



Smart Connector and its extensions can be used to bring historical data from PME to other systems and vice versa

Life Is On

Schneider Electric

Finding probable cause of PQ disturbance



Business owners and corporations may experience problems in their equipment and inefficiency in their operations



- Equipment failures
- Circuit board failures
- Data loss
- Tripping of protection devices
- Overheating in ED network
- Damage of sensitive equipment
- Reduced production output
- Abnormal high energy consumption

Voltage Sag

Voltage Swell

Over Voltage

Under Voltage

Frequency Variation

Interruptions

Transient Voltage

Voltage Unbalance

Harmonics

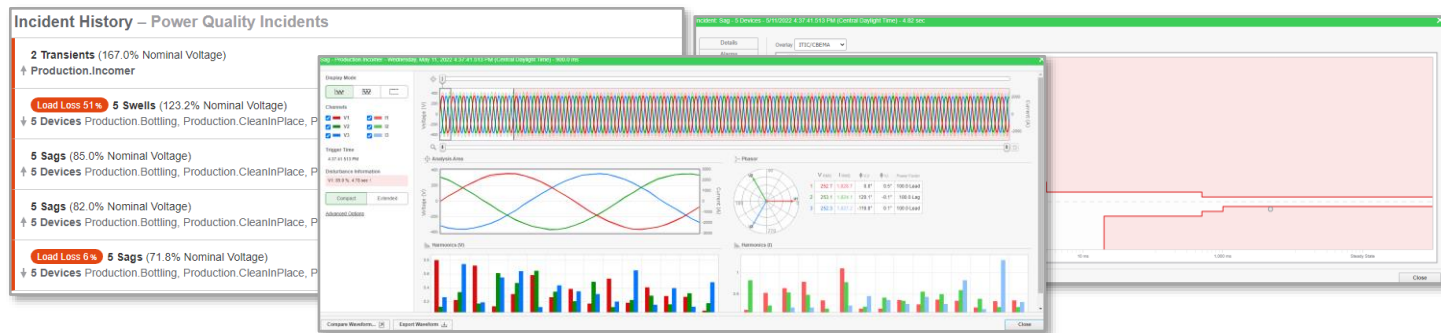
Flicker

Identify cause of PQ disturbance

Detect



Alarm



Analyze and Identify



Automated waveform analytics

Help operators understand high probable cause of Power Quality events



Caused by upstream events:

- Voltage Sag
- Capacitor switching



Caused by downstream events:

- Inrush Event
- Load Start
- Single-Phase Fault
- Subcycle Fault
- Three-Phase Fault
- Two-Phase Fault
- Capacitor switching



Identify cause of PQ disturbance

Waveform Analysis Information	
Source Name	cluster_pso AP.MV.Intake_A_PM
Probable Cause	Downstream Three-Phase Fault
Load Loss	12.55%
Max Voltage	1.0287 pu
Min Voltage	0.7952 pu
Max Current	3,615.24 A
Min Current	318.46 A
Load Change	-1,001.26 KW
Load Change	-12.25%
RMS Duration	15.18 cyc

Waveform Analysis Information	
Source Name	cluster_pso AP.HV.Utility_B_PM
Probable Cause	Downstream Load Start
Load Gain	19.12%
Max Voltage	1.0093 pu
Min Voltage	0.8528 pu
Max Current	24.19 A
Min Current	12.14 A
Load Change	626.58 KW
Load Change	19.12%
RMS Duration	3.94 cyc

Waveform Analysis Information	
Source Name	cluster_pso AP.MV.Intake_B_PM
Probable Cause	Upstream Voltage Sag
Load Gain	4.26%
Max Voltage	1.0113 pu
Min Voltage	0.8499 pu
Max Current	199.21 A
Min Current	118.80 A
Load Change	169.42 KW
Load Change	4.26%
RMS Duration	2.37 cyc

Analyze and Identify

Automated waveform analytics

Help operators understand high probable cause of Power Quality events



Caused by upstream events:

- Voltage Sag
- Capacitor switching



Caused by downstream events:

- Inrush Event
- Load Start
- Single-Phase Fault
- Subcycle Fault
- Three-Phase Fault
- Two-Phase Fault
- Capacitor switching

New!

Connecting with other systems and platforms



PME 2022 equipped with EWS Server and Client to exchange data with other systems

Configure PME as EWS Server for EWS clients to access PME's data

EWS Server

Set credentials for the EcoStruxure Web Services (EWS) account. This account...

ⓘ

User name

Password Confirm Password

New!
Configure PME as a EWS Client to connect to a EWS Server and obtain data

EWS Client - Configuration

EWS Client Details

Client Name* Description

You must enter a client name.

EWS Server Authentication

Server URL* Server Version

You must enter server URL.

Server User Name* Server Password*

You must enter server user name. You must enter server password.

EWS Server Polling

Historical Data Polling Historical Data Poll Interval (seconds)

Alarm Data Polling Alarm Data Poll Interval (seconds)

New!
Configure device measurement mappings to store data received by EWS Client to PME

EWS Client - Device/Measurement Mapping

Server	Device Name	Device Name
<FBar>	<FBar>	<FBar>
00Server 1Modbus TCP NetworkION900 151	<FBar>	<FBar>
<FBar>	<FBar>	<FBar>
Over Current A Alarm		Over Current A Alarm
Over Voltage A-B Alarm		Over Voltage A-B Alarm
Over Voltage B-C Alarm		Over Voltage B-C Alarm
new		
Frequency Trend Log		
14 Trend Log		

EWS Server and Client

EBO



Exchange real time and historical data and alarms with EBO using EWS without ETL

New!



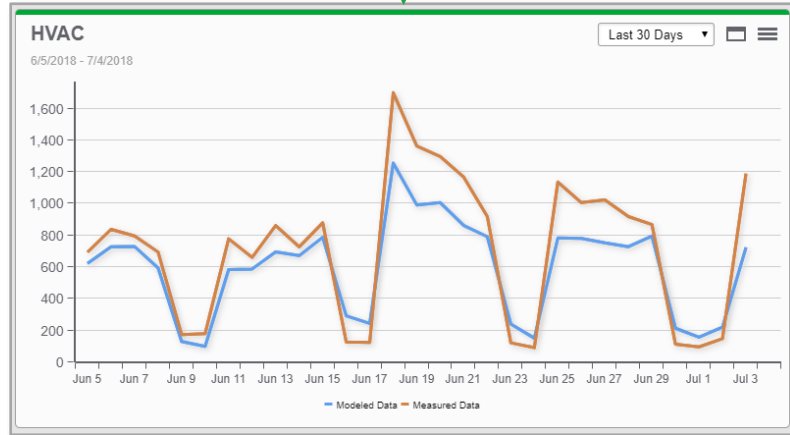
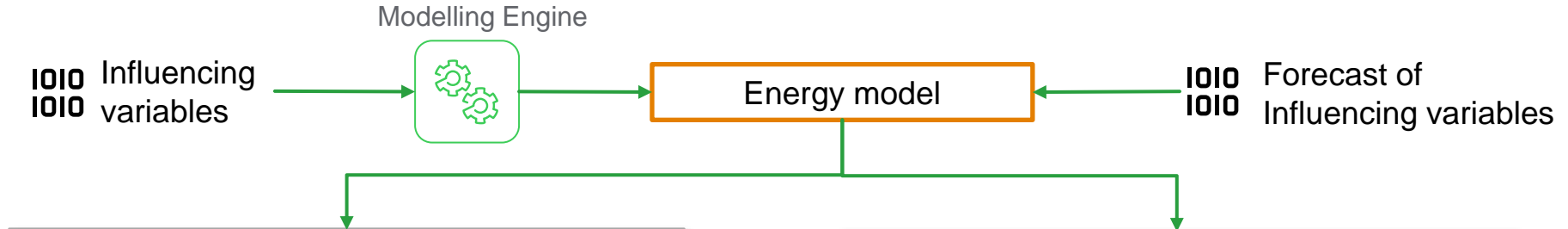
Smart Connector

Other Systems

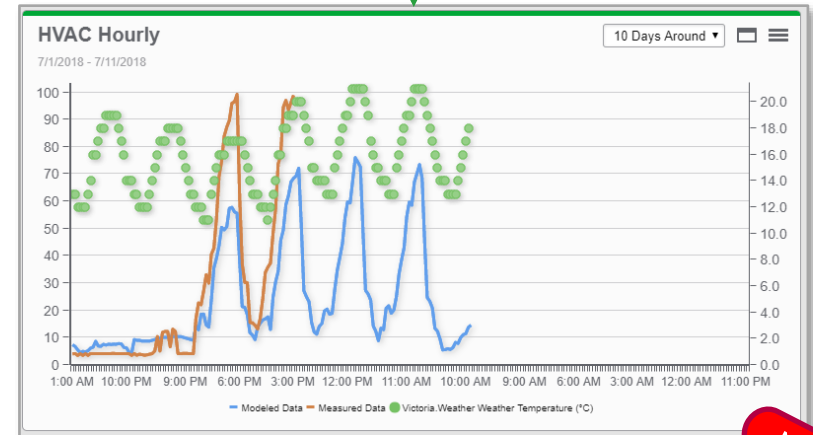


Smart Connector and its extensions can be used to bring historical data from PME to other systems and vice versa

Forecast consumption with energy model



Monitor and analyze modeled data vs actual metered data to understand model accuracy and adjust model if needed



Model can run with forecast data of influencing variables to calculate consumption forecast, which helps customers to plan their operation and consumption accordingly

New!

Life Is On



Schneider
Electric