This document contains information about EmVue v1:

- **Key features** - An overview of the key features in version 1 Initial Release (1.0)
- **What's new in 1.1** - An overview of the main new features in the Release 1.1
- **What's new in 1.2** - An overview of the main new features in the Release 1.2
- **System requirements**
- **Installation**

# Key features

EmVue is an energy data management software, providing information that meets the requirements of energy experts while being simple and quick to implement. By collecting metering data, EmVue is able to compute energy data and KPI to help you understand and keep track of your energy consumption.

> Key benefits:
>
> - Visibility on energy consumption
> - Ready-made dashboards
> - Predefined widgets and charts
> - On-premise deployment

**Configuration**
Meters are easily configured offline, either one by one or en masse by simply importing the PcVue variable configuration.

**Data ingestion**
EmVue collects data from PcVue archives via the Web Services Toolkit API. Meter index, measured power or energy quantities can be collected and processed.

**Energy data computation**
EmVue implements a variety of algorithms to normalize raw data including:

- Filtering - To eliminate raw data you do not want to trust, bad quality, out of range...
- Integration - To turn a real time power value into an energy quantity for example
- Scaling - To facilitate unit conversion and data comparison
- Slicing and consolidation - To aggregate data over time periods that count and provide instant drill-down

**Dashboard**

Dashboard and charts are automatically and immediately available based on the meters you have configured. The more input you add, the better are the charts you get. For example, configure a weather station or simply add a datapoint for the external temperature, and you instantly get degree-day values.

Dashboard capabilities:

- View daily, monthly, and yearly consumption
- Compare day-to-day, weekday-to-weekday, month-to-month, year-to-year
- Compare reference consumption against actual consumption
- Cooling and heating degree days
- Export chart data to Excel

**Installation and deployment**

- Support for Microsoft® Windows 11 and Windows Server 2022
- Support for PostgreSQL 16.4
- The web portal is available in English, French and German

> The EmVue connector for PcVue Web Services is compatible with PcVue 16.2.4 onward.

# What's new in 1.1

`Featured` **Multi-commodity**

From gas to water, district heating and cooling, wood and more, you can now configure meters for 20 types of commodities. Aligned with EU regulations, EmVue gets you covered with automatic unit conversions in dashboards tailored to the commodity of the meter data you are analyzing.

Support for more commodities comes with new data normalization methods.

**Fixed-time licenses**

EmVue now supports fixed-time licenses.

**Installation and deployment**

- Support for PostgreSQL 17.3.
- In addition to English, French and German, the web portal is now also available in Chinese, Italian, Russian and Spanish.

# What's new in 1.2

`Featured` **Custom chart**

Create charts your way!
The new **Custom Chart** feature lets you choose:

- Data series and axis configuration
- Colors
- Chart type: Pie, scatter, bar, curve, bubble, and more

You can visualize raw values or apply functions like sum, min, max, and aggregation.
Charts can be:

- Shared - Visible to all users
- Private - Only visible to the owner

**New connector for Csv files**

EmVue can now import metering data from Csv files automatically.
The Csv connector periodically checks for new files in a predefined folder and imports new data in background.
It allows centralization of disparate Csv-based sources such as files downloaded from metering devices, data collected manually and stored in Excel files, or files exported from other third-party systems.

`Featured` **Multi-connector**

EmVue can now retrieve data from multiple sources, including PcVue and Csv files.
It allows collection of information from multiple PcVue projects or other SCADA systems that generate Csv files.

`Featured` **Calculated meters**

Calculated meters let you:

- Combine values from multiple meters to provide complementary data such as total sum for a collection of meters
- Apply operations: sum, subtract, multiply, divide
- Calculate data for areas or usages without direct metering

Perfect for organization-wide analysis and reporting.

**Manual meters**

No communicating meter? No problem.
Use **Manual Meters** to enter readings directly via the EmVue web portal.
Values are stored in the Historian database and processed like any other metering data.

**Manual history fetching**

Need to fetch historical data on demand?
In addition to automated fetching at the time of creation of a connector, you can now manually select a **start and end date** to retrieve data from any connector and store them in the Historian database. Great for ad hoc updates.

**Installation and deployment**

- Support for PostgreSQL 17.5.

# System requirements

## Operating systems

Only operating systems from the Microsoft® families Windows 11 and Windows Server 2022 are supported.

**Supported and operational**

- Windows 11 - Professional and Enterprise Editions
- Windows Server 2022 - Essentials, Standard and Datacenter Editions

> All operational versions of Windows Server shall be installed with the 'Desktop Experience' option.

**Operational but may have limitations in use**

Please contact the technical support before using:

- Windows 11 IoT Enterprise, Windows Server IoT 2022
- Any operating system hosted in a system virtual machine such as Microsoft® Hyper-V and VMWare® virtualization products

**NOT supported**

- Windows Server installation in Nano Server or Server Core mode

For all operational versions of Windows 11, only the x64 processor architecture is supported.

The software requires .NET Framework 4.8 and cannot run on an operating system if .NET Framework 4.8 is not preinstalled or cannot be installed separately.

For all platforms, we recommend that you apply any critical updates available from the Windows Update web site.

> For any other Microsoft® operating system, please contact the Technical Support.

## Supported Web browsers

Desktop web browsers:

- Google Chrome™ 126 and later
- Mozilla Firefox™ 126.0 and later
- Microsoft Edge™ 126 and later
- Apple Safari® for MacOS® 17.5 and later

Mobile web browsers:

- Google Chrome™ for Android™ 126 and later
- Microsoft Edge™ Mobile 126 and later
- Apple Safari® for iOS™ 17.5 and later
- Android WebView™ 126 and later

## Supported PostgreSQL database engine

- PostgreSQL 17.5

## Recommended minimum PC configuration

- Processor - x64-compatible AMD or Intel CPU (or equivalent) - 1.4 GHz dual 8 cores.
- Memory - 8 GB of RAM.
- Storage - At least 50 GB (archive data not included).

> The above figures represent the minimum requirements. For advice on specific applications, please contact the Technical Support.

# Installation

EmVue shall be installed and run on a Web server host.

Prerequisites:

- The IIS web server is installed
- PostgreSQL is installed

The EmVue installation process performs the following actions:

1. Installation of the EmVue service and registration as part of the Windows services
2. Deployment of the EmVue web portal in IIS
3. Creation of the configuration and historian databases if none exist

> You can select the license file during the installation process, otherwise, EmVue will run in trial mode, limited to 1 meter. The License Utility shall be used to generate the host fingerprint so that your EmVue license can be issued via your reseller.

Before configuring the EmVue connector for PcVue, make sure you have a PcVue Web backend station installed, and the Web server deployed.

Using the Web Deployment Console:

- Deploy the Web Services Toolkit on the web server
- Add EmVue as a new Client so that it can interact with the PcVue authorization server

> See the Installation help for more information and help about prerequisites and the installation process itself.

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