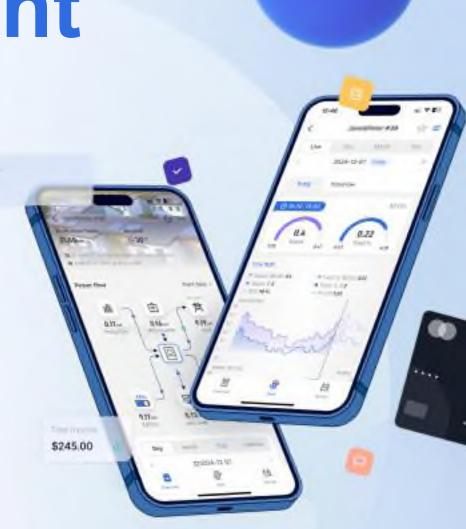
**VOLTHA** 

**Powered by DEYE Copilot** 



### **Contents**

01

#### Introduction

1.1 What is it

1.2 Why use it

02

#### **Product Architecture**

2.1 Product Architecture Diagram

03

### **Information Security**

3.1 Information Security

### **Algorithm Technology**

4.1 Al Copilot Solution to Returns

05

### **Use Cases**

5.1 Use Case 1

5.2 Use Case 2



## Introduction

1.1 What is it

1.2 Why use it

### What is it

The Voltha Energy Management System integrates renewable energy, power grids, and energy markets data to optimize your energy usage and cost savings.

**Energy Integration** 

Efficiency Optimization

Cost Saving

## Why use it

**Cost Saving** 

Minimize energy waste and reduce unnecessary energy expenses by adapting to fluctuating electricity prices and external temperatures

Hassle - Free

Simplify electricity consumption management by automatically adjusting to your preferences without sacrificing comfort

Sustainable

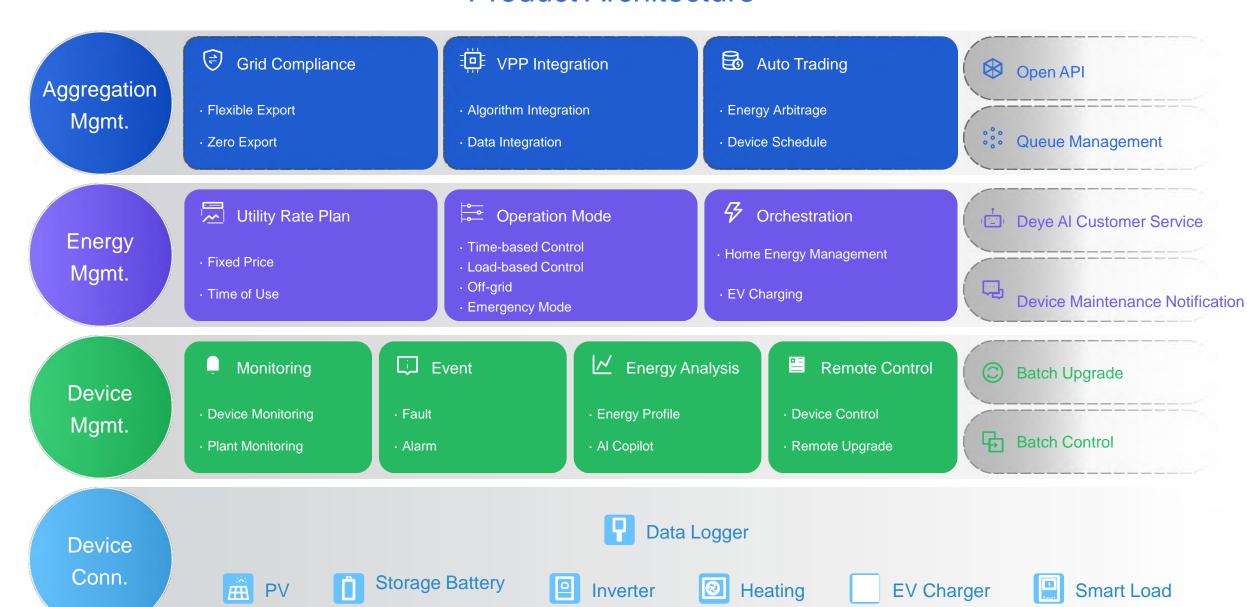
Utilize renewable energy sources primarily through energy - saving automation and dynamic tariff solutions

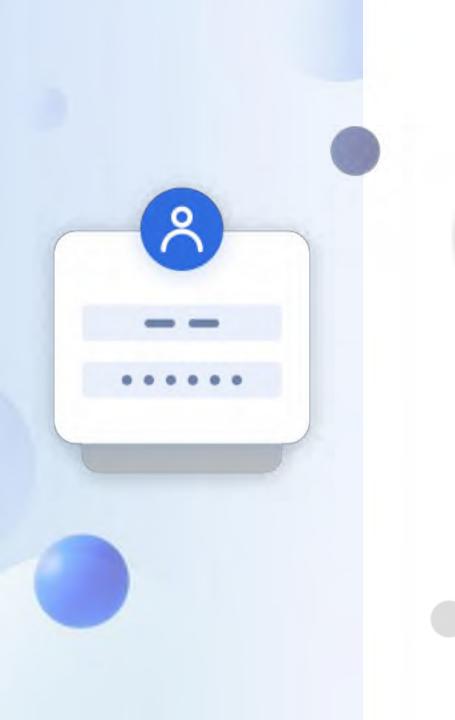


## **Product Architecture**

2.1 Product Architecture Diagram

#### **Product Architecture**





## **Information Security**

3.1 Information Security

Security management

Security organizational structure

Information security awareness

Management system

Data security

Data Classification
And Grading

Data Collection

Data Transfer

Data Storage

Data Use

**Data Deletion** 

Key Management

Secure Multitenancy

Infrastructure Security

**Endpoint Security** 

Secure Computing Environment

Secure Area Boundayry

Environment Pysical Security

Application Security

Secure application environment

Application Security protection

**Business Security** 

Office Security

**Physical Security** 

**Technical Measure** 

Management Measure

Source code security

Operational
Security

operation and maintenance security

Network Security
Attack/Defense
Exercise

Emergency Response

High Availability

security compliance

ISO/IEC 27001 ETSIEN 303645

ISO9001:2015

• • •



## **Algorithm Technology**

4.1 Al Copilot Solution to Returns

## **Algorithm Technology**

Based on the in-depth insight of factors like weather, power generation, home load and electricity price et c., VOLTHA products plus AI Copilot provide a smart and reliable solution to help you achieve more returns.





Load Forecast

- Optimization Algorithms

Machine Learning





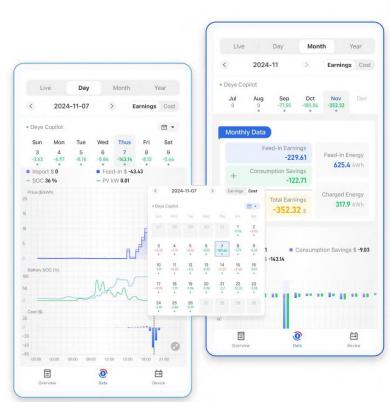


Max Returns

## Algorithm Technology ( Al Copilot

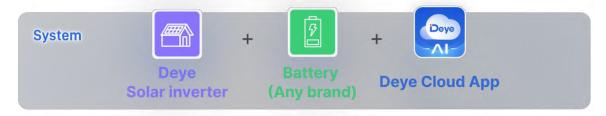


### Al to help you discover new possibilities and expand your world





#### **System Requirements**





#### Both dynamic tariff and flat-rate are supported





## **Use Case**

5.1 Use Case 1

5.2 Use Case 2

### **Use Case 1**



24 KWp PV / 22 kWh Battery

Real value to customers proved. Potential of battery expansion detected.







Hourly import prices
Hourly feed-in prices





Feed-In Earnings

Monthly Billings





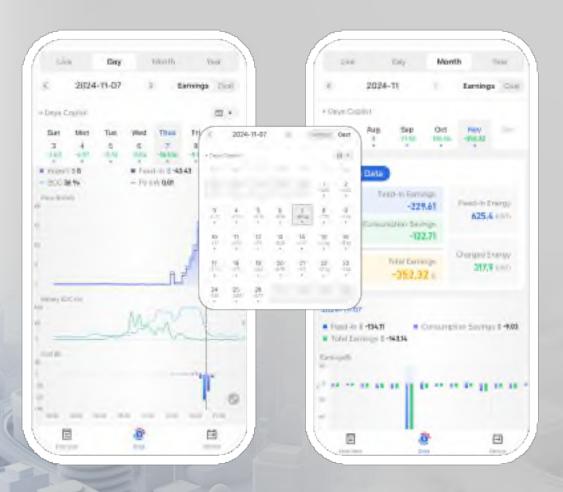
Earnings calculated from 9-14 to 11-17

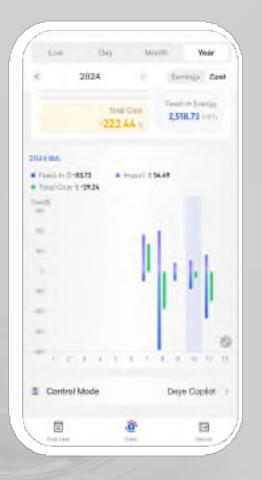
### Use Case 2



24 KWp PV / 22 kWh Battery

Real value to customers proved. Potential of battery expansion detected.







Quarter hourly import prices

Quarter hourly feed-in prices





Daily Earning Up To

vs. Grid Avg.

\$275.01

**4500**%

Earnings calculated from 8-31 to 11-26