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SIMATIC Energy Manager 产品介绍

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Energy Manager – 企业范围能源管理

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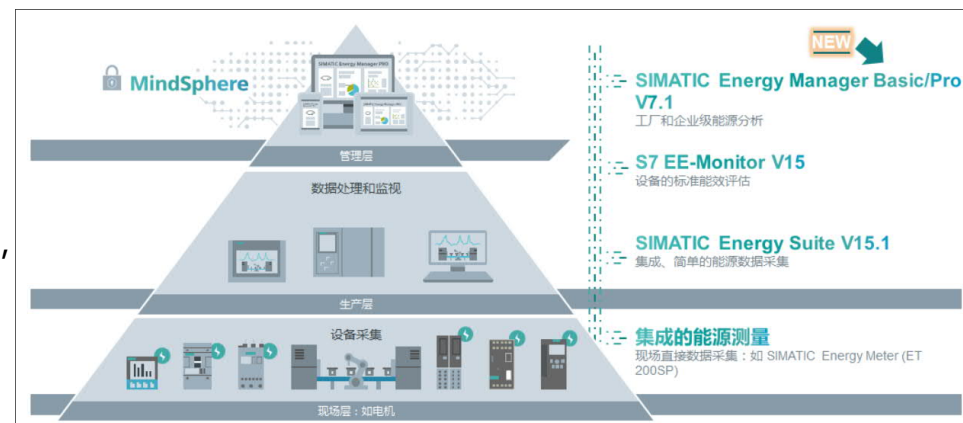
SIMATIC Energy Manager V7.1 可提高基础设施和生产区域的能源流以及成本的透明度。

借助 SIMATIC Energy Manager，可实现一个适用于各行各业的可扩展的工业级能源数据管理系统。

SIMATIC Energy Manager 为经济型能源运转管理奠定了基础，以提高能源效率，进而降低能源成本。

优点概览：

- 企业数字化转型的重要一环。
- 轻松集成，易于扩展，投资有保障。
- 数据库与采集组件分布式架构，已考虑到通讯故障时处理机制，避免数据丢失。
- 经过简单培训即可上手，后期维护简单。
- 长期的产品更新和技术支持服务。



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用户收益：



- 可通过适当的关键绩效指标和数据展示选项获得相应的节能措施，如果成功实施此类措施，则会节省成本
- 基于成本中心级别的透明度提高了员工的节能意识，并为实现透明且易于理解的目标奠定了基础



- 由于与生产紧密相关，因此可有效评估工艺过程和设备（例如，机器状态相关的分析）
- 透明度与预测功能相结合，提高了规划安全性和可靠性，并为能源采购提供有价值的信息



- 能源控制功能，具有灵活的报告和分析功能，有助于确保有效资产保持高效
- 形成关键绩效指标，提高了发电单元以及用电设备等资产的效率

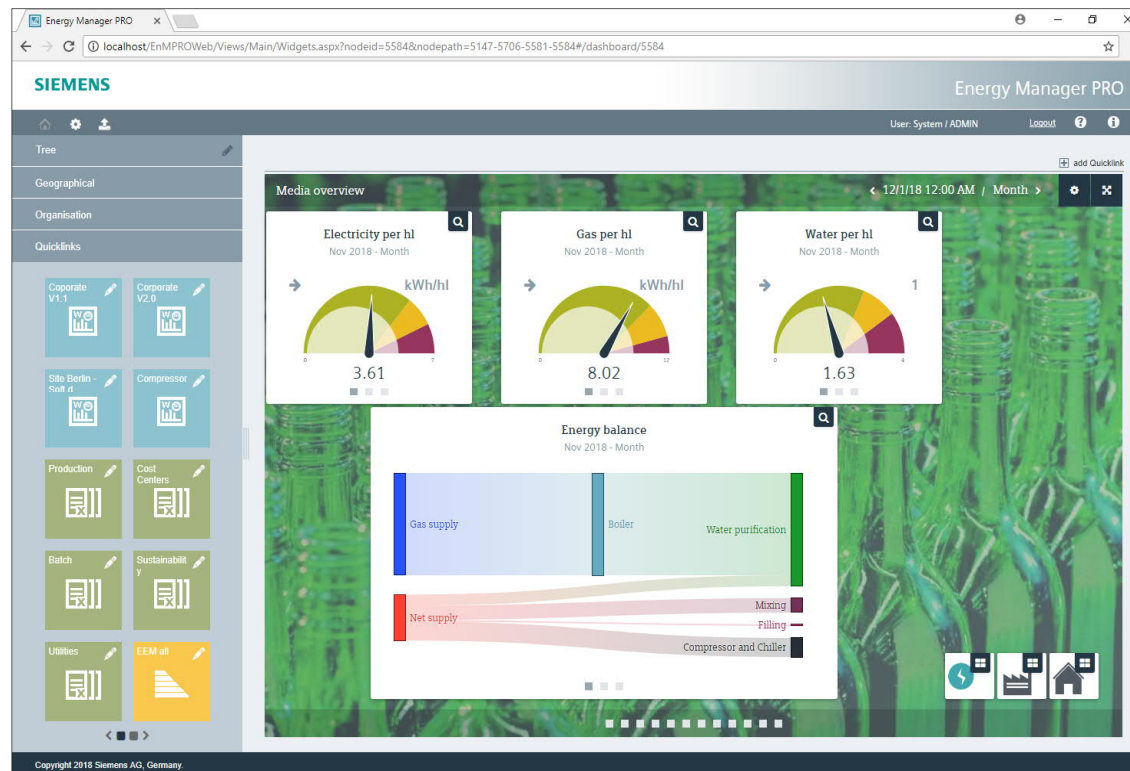


- 符合监视和报告温室气体 (CO₂) 排放的法律要求，履行监视义务
- 通过自动更新内部和外部能源报告而减轻员工的额外工作

Energy Manager – 功能介绍



功能一：Dashboard 直观显示 KPI 指标



Energy Manager – 功能介绍



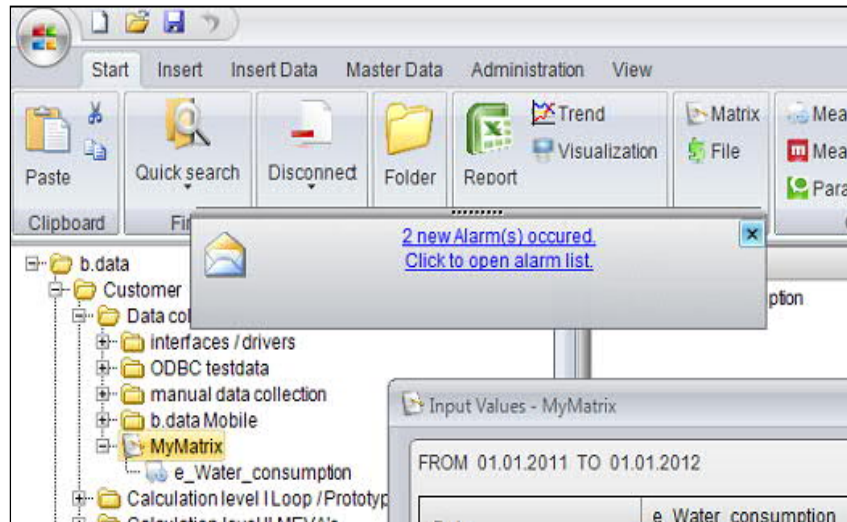
功能二：实时能源消耗画面



Energy Manager – 功能介绍



功能三：在线能源报警



Energy Manager – 功能介绍



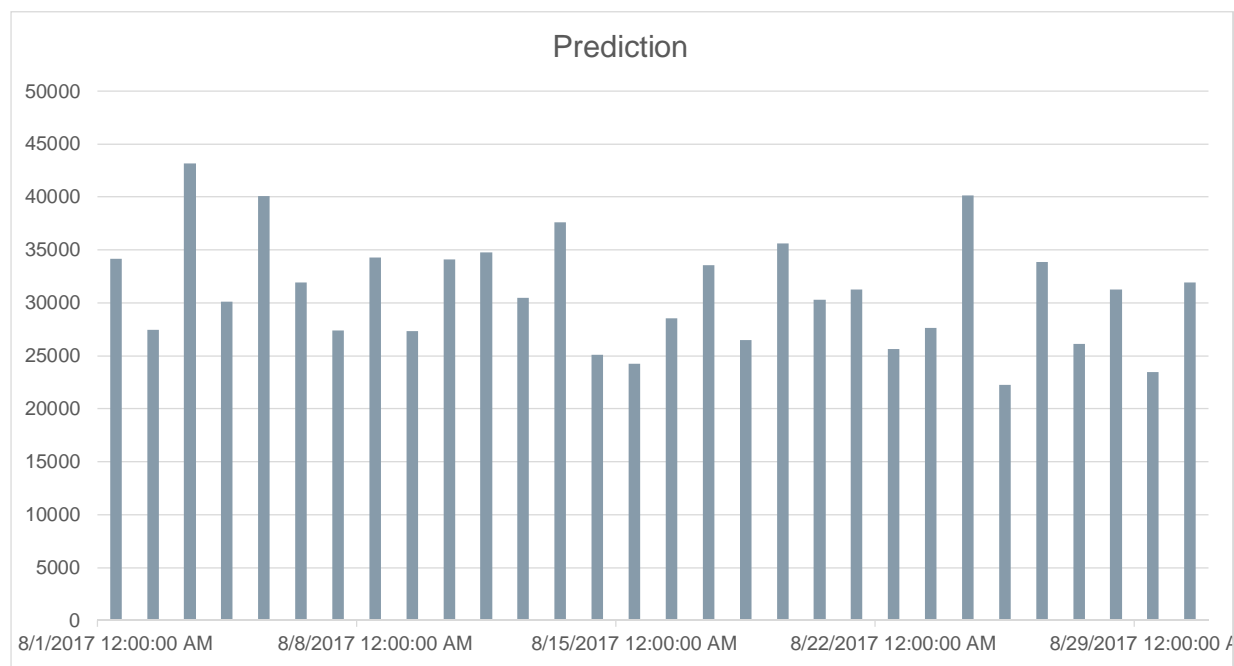
功能四：数据分析



Energy Manager – 功能介绍



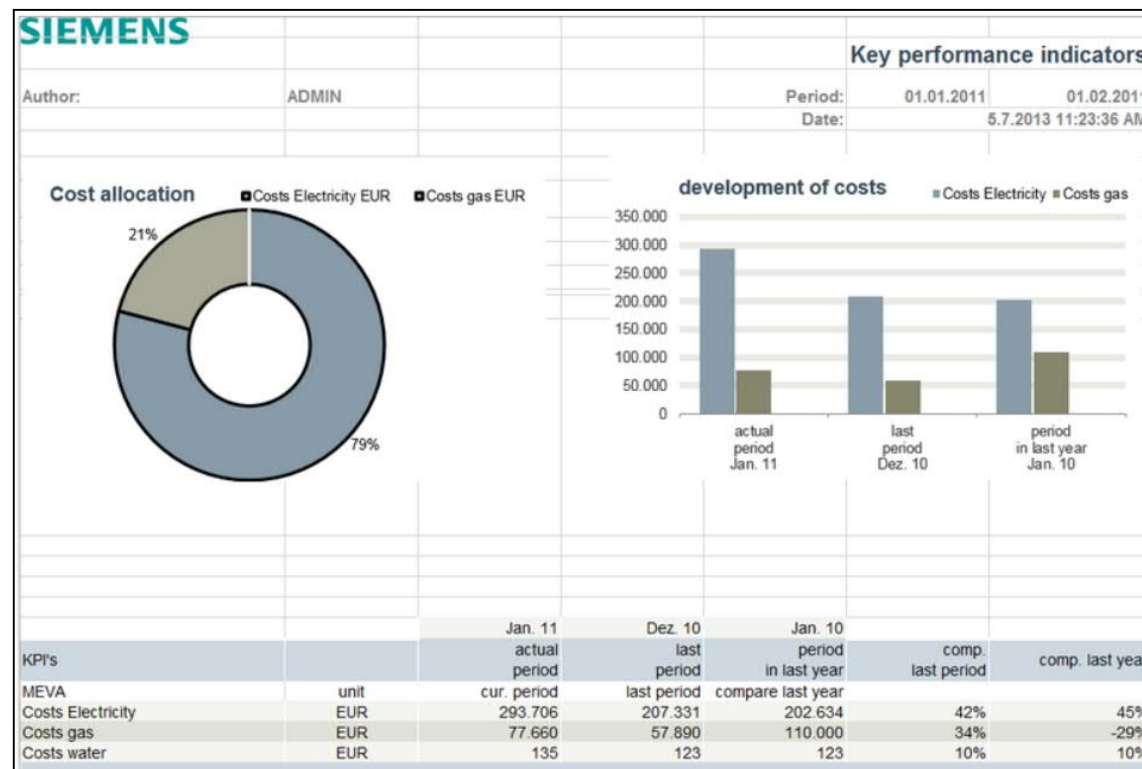
功能五：能源预测



Energy Manager – 功能介绍



功能六：报表



Energy Manager – 功能介绍

功能七：账单结算



Energy Manager – 功能介绍



功能八：能效措施管理

Name	Region	Business Unit	Pl. Sav. [€/Y]	Act. Sav. [€/Y]	Pl. CO2 Red. [T/Y]	Act. CO2 Red. [T/Y]	Pay Back	State	Equipment	Category	Invest [€]
Optimization of lighting	Munich	BT	10400	0	84.24	0	3.5	Initial	Plant lightning	A-Project	36000
Exchange boiler	Linz	IA	10600	11130	86.8	91.14	4.7	Realized	Boiler room	A-Project	50000
Optimization of the compressed air system	Munich	BT	12000	0	97.2	0	2.61	Evaluate	Compressed air plant	B-Project	30000
Reduce water consumption	Linz	IA	15000	0	0	0	1.3333333333333333	Initial	Production plant	C-Project	20000

ENERGY EFFICIENCY: FILTER FOR CURRENT

New Edit Delete DESCRIPTION LIGHTING

Name	Region	Bus. Unit	Sav. Cap. Pl. [\$/Y]	Sav. Cap. Af. [\$/Y]	CO2 Red. Pl. [T/Y]	CO2 Red. Af. [T/Y]	Pay Back [Y]	State	Equipment	Category	Invest
Replace Lighting			1200.00	1100.00	360000.00	330000.00	0.18	Initial	Assembly Area	A-Project	1000.00

Summary

Project Count: 1 Total CO2 Red. Pl.: 360000.00 t/Year Total CO2 Red. Af.: 330000.00 t/Year ROI Average: - Years

Total Investment: 1000.00 € Total Savings Pl.: 1200.00 €/Year Total Savings Af.: 1100.00 €/Year

Energy Manager – 功能介绍

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功能九：符合 ISO 50001 认证标准

CERTIFICATE

Certificate-ID: C-05-2018-21243092
Certificate for: Audited energy data management system

Certificate holder: **SIEMENS** Siemens AG
Glewitzer Str. 555
90475 Nurnberg
Germany

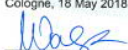
Test report: B-05-2018-21243092
Components: SIMATIC Energy Manager PRO
SIMATIC Energy Manager Basic
SIMATIC Energy Suite & WinCC Professional
SIMATIC S7 EE-Monitor S7-1500/1200
SIMATIC Energy Meter
Energy Analytics


Basis of certification: Audited energy data management system in accordance with the catalogue of requirements Version 3.0 (as of 03/2018)
Scope of certification: Document and system review of functionalities for use with energy management systems in accordance with ISO 50001 et al. and energy audits in accordance with ISO 50002


It is herewith confirmed that the functionalities and characteristics of the components described in the results report B-05-2018-21243092 as well as in the appendix I to the certificate, have been verified within the framework of a document and system review. The components verifiably support compliance with the requirements of the chapters of the standards ISO 50001 et al. and ISO 50002 as listed in the appendix to the certificate.


This certificate is valid until 31 May 2020.

Cologne, 18 May 2018


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