
OPTIT
optimal solutions
Analytics and Optimization
towards Operational Excellence
Focus: Horizon matchmaking

Company Profile

Accredited Spin-off of the Alma Mater Università di Bologna (Operations Research and Management Science). We design, develop and provide state-of-art Solutions and Services in Advanced Analytics and Optimization

We integrate the talent of highly skilled Data Scientists, Business Consultants and SW Development Engineers to support our Customers and Partners in their Digital Innovation roadmap

We enable efficiency and effectiveness for medium and large enterprises in several industries (Energy, Waste, Logistics, Retail), unlocking exceptional returns on investments (ROI)

Bologna: Consultancy Services and Commercial HQ

Cesena: Software Factory

Our target Markets

ENERGY

- CHCP Systems' Generation Management
- DHC Operations and Development Optimization
- DHC Network Maintenance Planning

WASTE

- Collection Services
- On Demand Logistics
- Waste Supply Chain
- Waste Asset Allocation
- Digital Innovation strategy

ANALYTICS & OPTIMIZATION

- Advanced & Customized Models And Algorithms
- Business Intelligence
- Machine Learning And Data Science
- Data Mining

LOGISTICS & SUPPLY CHAIN

- Distributive Logistics
- Network Design
- 3-2d Bin Packing
- Workforce Strategic Placement
- Fleet Track & Tracing

DIGITAL INDUSTRY

- Data Structuring & Management
- Process Workflow Digitalization
- Industry 4.0 Data Exploitation
- Customized Decision Support Systems

Our current EU projects

upgradeDH

European District Heating Improvements - Upgrading 8 DH networks with investment evaluation and scenario analysis

PlaMES

Integrated Planning of Multi-Energy Systems - Design of efficient transition paths for future energy systems, on both generation and infrastructure at national and local level

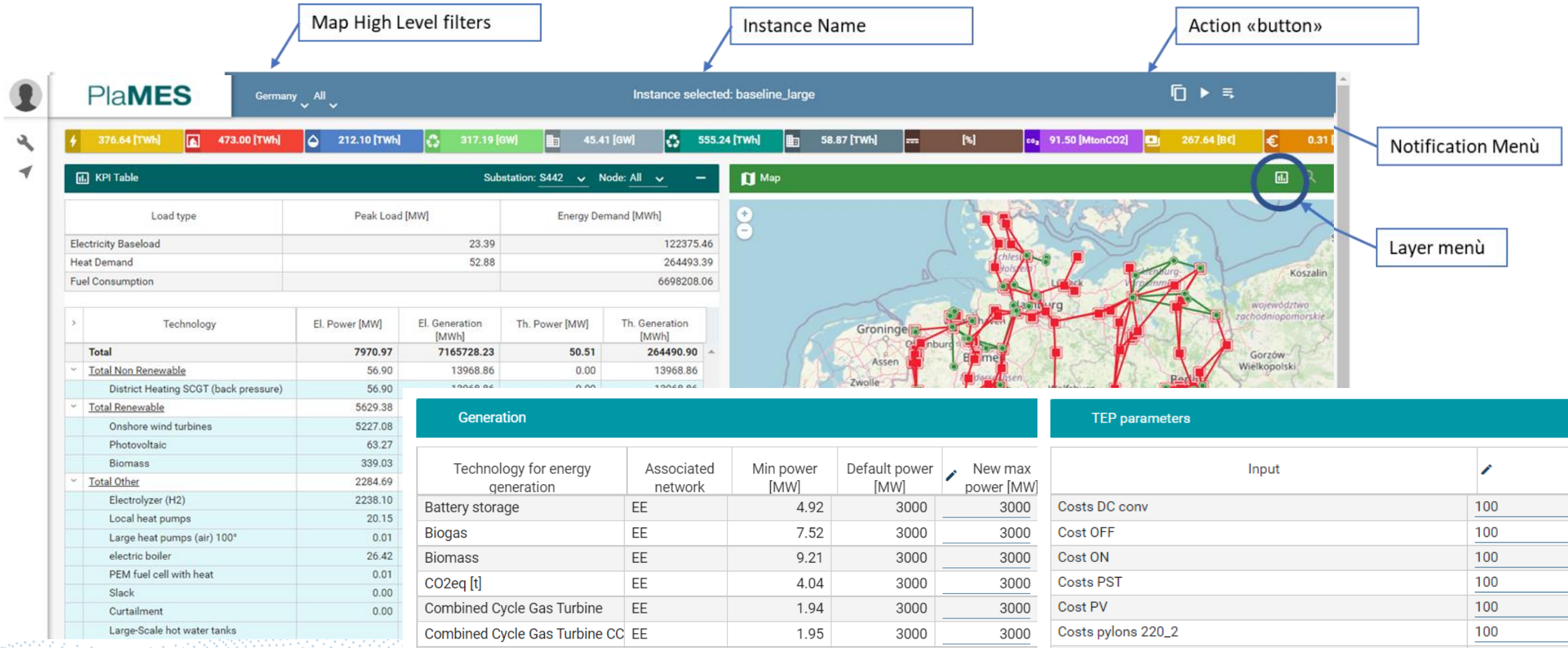
Retrofeed
smart retrofitting in process industry

Industrial Retrofitting Support System - Implementation of a Smart Retrofitting Framework (DSS) in 5 Energy Intensive Industries (REIIs)

TUPLES project
(starting next month)

Trustworthy Planning and Scheduling with Learning and Explanations - transparent, robust and safe algorithmic solutions for planning and scheduling, combining symbolic P&S methods with data-driven methods, on quite different 5 use cases

Screenshots from the PlaMES tool



Generation

Technology for energy generation	Associated network	Min power [MW]	Default power [MW]	New max power [MW]
Battery storage	EE	4.92	3000	3000
Biogas	EE	7.52	3000	3000
Biomass	EE	9.21	3000	3000
CO2eq [t]	EE	4.04	3000	3000
Combined Cycle Gas Turbine	EE	1.94	3000	3000
Combined Cycle Gas Turbine CC	EE	1.95	3000	3000
Curtailment	EE	2.00	3000	3000
District heating demand	EE	1.41	3000	3000
District Heating SCGT (back pres	EE	4.15	3000	3000

TEP parameters

Input	Value
Costs DC conv	100
Cost OFF	100
Cost ON	100
Costs PST	100
Cost PV	100
Costs pylons 220_2	100
Costs pylons 220_4	100
Costs pylons 380_2	100
Cost RES	101

This project has recei
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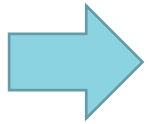
Enterprises (EASME).

Advantages of a collaboration with Optit

- Possibility to cover a large set of tasks:
  - **Consulting** for functional and process analysis
  - **System modeling** for both simulation and optimization
  - **Technical design** of tools and system integrations
  - **Software tools** implementation
  - **Data science** consulting and data analysis
  - Also **project coordination** and **dissemination/communication**, if needed
- **Domain knowledge** of energy system/markets (and others e.g. manufacturing, logistics)
- **Ability to reach a high TRL** in order to have a fully engineered tool ready for commercial exploitation
- **15 years of experience** with a documented success track (also on EU projects)



We are currently looking for consortiums to join about these topics:

- **HORIZON-CL5-2022-D3-03-04: Integrated wind farm control**
- **HORIZON-CL5-2022-D3-03-08: Development of digital solutions for existing hydropower operation and maintenance**

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