



ENERGY MATCHING TOOL

André Lisboa, João Megre, Glória Gonçalves, EDP NEW

andre.lisboa@edp.pt; joao.megre@edp.pt; gloria.goncalves@edp.pt

Introduction

- **Aim of the tool** - Based on operational data an optimization model balances hourly energy supply and demand over a 24-48 hour horizon by leveraging local flexibility, storage, and renewable generation
- **Value proposition** - Decision support tool that increases self-consumption, and optimizes the use of assets and operational flexibility, leading to lower costs and improved sustainability



KPIs

- Self-Consumption Increase[%]
- Flexibility Activation [%]
- Operational Cost Savings [€ or %]
- CO2 Emissions Reduction [ton. CO2 or%]

Lessons Learned

- **Barriers** - Data unavailability and data ownership; market acceptance; interoperability issues
- **Scalability** - (i) Scalable to other ports as majority of assets/loads as been covered. Specific flexibilities would have to be modeled ad hoc, e.g. EMT is less focused on industrial players. (ii) All ports players as potential customer

Current Progress Status

1. Launch of demonstrator; 2. Elaboration of KPIs, Operation characterization and modelling, and ongoing studies; 3. Testing phase in lab and data collection; 4. simulations and testing phase in pilot area; 5. results and commercially available; 6. ready to scale up

