

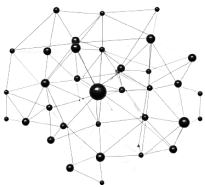
# Hy.Si.M

## Optimize renewable energy systems

Hy.Si.M (Hydrogen Simulation Modeler) is an innovative simulation tool, developed to maximize the performance and profitability of your energy systems with a focus on the hydrogen component. With Hy.Si.M, you can precisely size components and optimize your system's energy utilization, aiming to find the most economical and environmentally friendly system.



## Designed for Complexity



Embraces the intricacy of renewable energy systems, simplifying tasks and aiding understanding for more effective management

## Precision Sizing

Simulates thousands of scenarios to find the optimal design for components and renewable energy resources.



## Optimal Utilization



Adapts to individual circumstances to find the best operating scenario while complying with all technical, regulatory, and economic conditions.

Kickstart your voyage into the future of renewable energy with Hy.Si.M.  
Let's take the first step together today.

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# Hy.Si.M

## Explore Hy.Si.M's Capabilities Our Case Studies

### 100 MW Electrolyzer (IPCEI)



**Challenge:** Determine ideal solar/wind mix for an average of 4000 full-load hours

**Solution:** Hy.Si.M delivered various configuration options

### Efficient Trailer Filling

**Challenge:** Schedule trailer replacements to match hydrogen production

**Solution:** Hy.Si.M provided precise schedules and optimized filling processes



### E2MUT: Emissions-Free eMobility for Maritime Urban Transports



**Challenge:** Conceptualize & simulate emission-free ships including their hydrogen refueling

**Solution:** Present an optimal energy system & simulation of consumption

### MuWin: Multi-Use Open Sea Floating Platforms

**Challenge:** Develop/evaluate universal offshore platform for hydrogen production

**Solution:** Assess design options for energy efficiency and desalination



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