Use case

Techno-economic assessment of thermal power plants

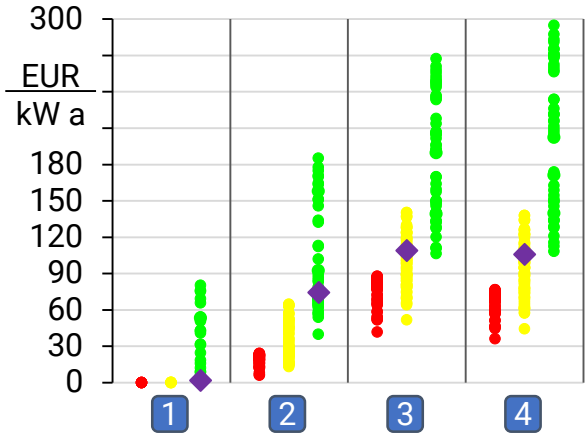
NEED FOR EVALUATION?

Due to long payback periods and changing influencing factors, thermal power plants must be checked for technical and economic efficiency before construction and deconstruction as well as during operation.

WHAT CAN BE DELIVERED?

Maon can derive profitability forecasts based on future market scenarios and power plant characteristics. The included simulation delivers electricity market prices per bidding zone and the dispatch per power plant. Derived results like full load hours, number of starts or contribution margins are also directly provided. Such enable in-depth analysis and sophisticated evaluations. Thereby, comparisons and techno-economic assessments of European thermal power plant portfolios can be realized.

CONTRIBUTION MARGINS



Power plant efficiencies	Scenarios
High (> 25% quantile)	1
Average (within)	2
Low (< 75% quantile)	3
Selected power plant	4

WHAT ARE THE BENEFITS?

Latest discoveries in research were transferred into the digital platform, so that cutting-edge decision support can be achieved. Prerequisites like high-performance computing cluster, cloud storage, scenario management, solver, simulation and input data sets are integrated and ready to start.