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NOVO PRO®

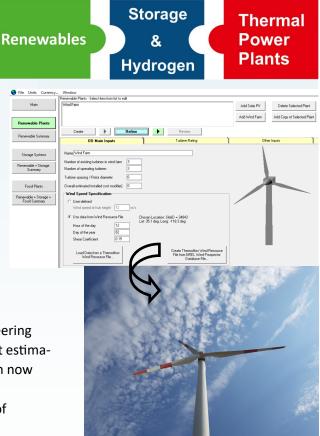
RENEWABLE ENERGY SYSTEM MODELING AND OPTIMIZATION & (MICRO GRID) SIMULATION

Puzzled by integrating renewables and thermal power systems, storage and/or Hydrogen production? The puzzle has become easier to solve!

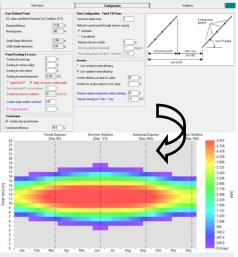
The world's most comprehensive suite of thermal engineering software for plant design & simulation, optimization, cost estimation, financial analysis and techno-economic optimization now includes **NOVO PRO** to integrate renewables, Hydrogen production and storage systems, and to create all types of Power-to-X systems.

NOVO PRO follows a TOP-DOWN METHOD to create renewable systems (PV, Wind, Biomass) and assists the user to create a techno-economically optimized hybrid system in minutes. It identifies grid shortfalls and surplus power and guides the user to create an optimized storage system and/or Hydrogen production plant, or combines any type of thermal power plant(s) to satisfy the grid's power demand.

NOVO PRO is a "renewable system integrator" and simulates the effects of fluctuating renewable energy systems on existing fossil-fired power plants (CO_2 reduction, load scheduling of thermal plant(s), analysis of phase-out concepts, etc.).



WIND TURBINE & PV-MODULE LIBRARY





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CUSTOMIZED THERMAL PLANT

NOVO PRO is compatible with Thermoflow's design and simulation programs GT MASTER and THERMOFLEX.

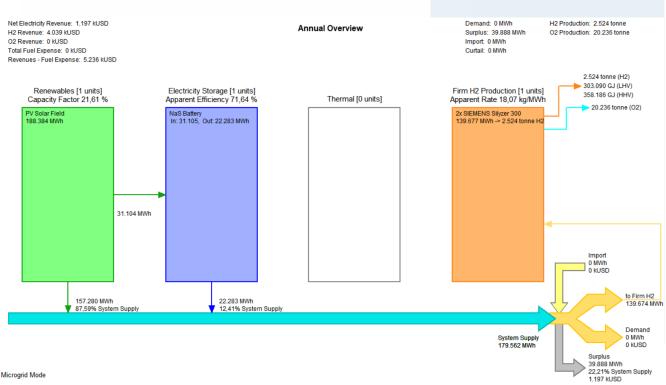
This interaction allows the user to (techno-economically) optimize thermal power systems specifically for their role in the grid, either as a Base Load Plant, or as a Backup, Spinning Reserve or Peaker System.

HYDROGEN PRODUCTION PLANT

NOVO PRO is a powerful tool for designing Hydrogen Production Plants.

A library of commercially available Electrolyzer Packages are included in the program and available for selection. Each package is listed along with its OEM supplier, rated pure hydrogen production rate, package power consumption, HHV efficiency and part load performance.

The hydrogen generation plants can either be designed to consume excess "green" electricity from the grid, or the user can specify a desired H_2 capacity and NOVO PRO will help to optimize the number of electrolyzer units and renewable systems.



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Scan to watch NOVO PRO Vídeos...



INTEGRATE THERMAL POWER PLANTS



GREEN HYDROGEN PRODUCTION

