



# Renewable Energy Solutions



ETAP® is the most comprehensive enterprise solution for design, simulation, operation, control, and optimization of power systems.

ETAP includes comprehensive renewable energy models combined with full spectrum power system analysis calculations for accurate simulation, predictive analysis, equipment sizing, and field verification of wind and solar farms.



## Solar Power Technologies

- Photovoltaic
- Solar Thermal

*Design, Analyze, Optimize & Operate  
Green Power Systems with ETAP*



## Wind Generation Technologies

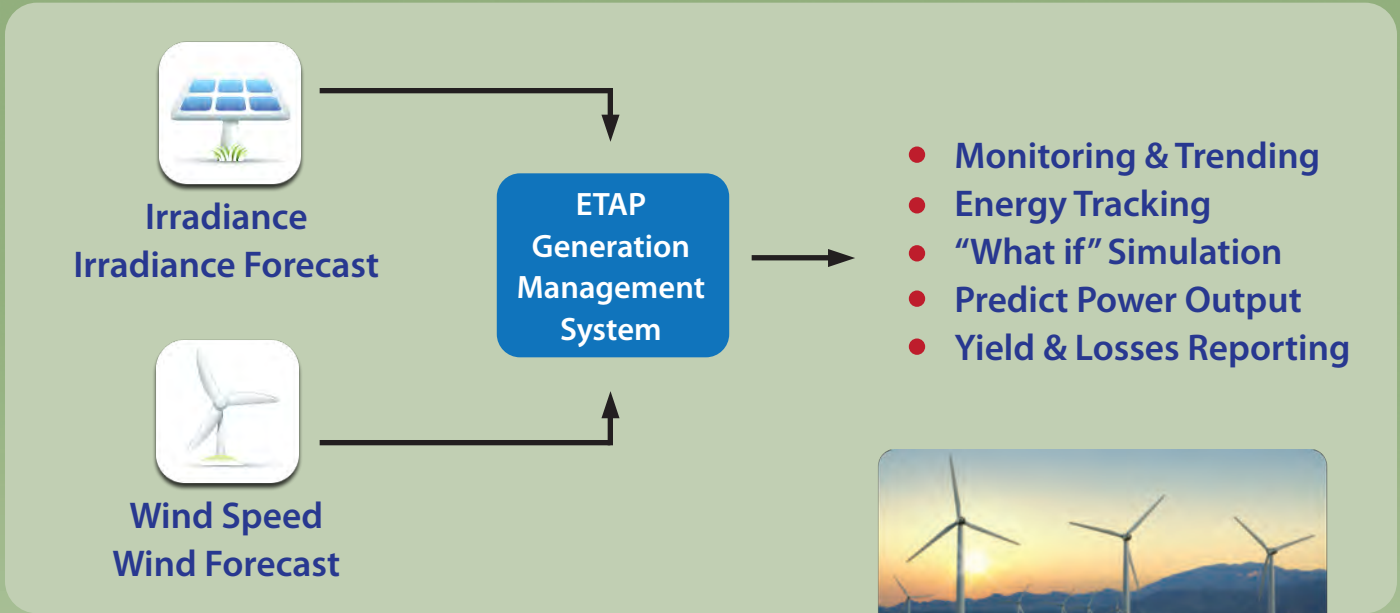
- Induction
- Variable Slip
- Doubly-Fed
- Full Power Converter

ETAP enables designers and engineers to plan and analyze renewable energy collection systems, determine wind/solar penetration and perform grid interconnection studies.

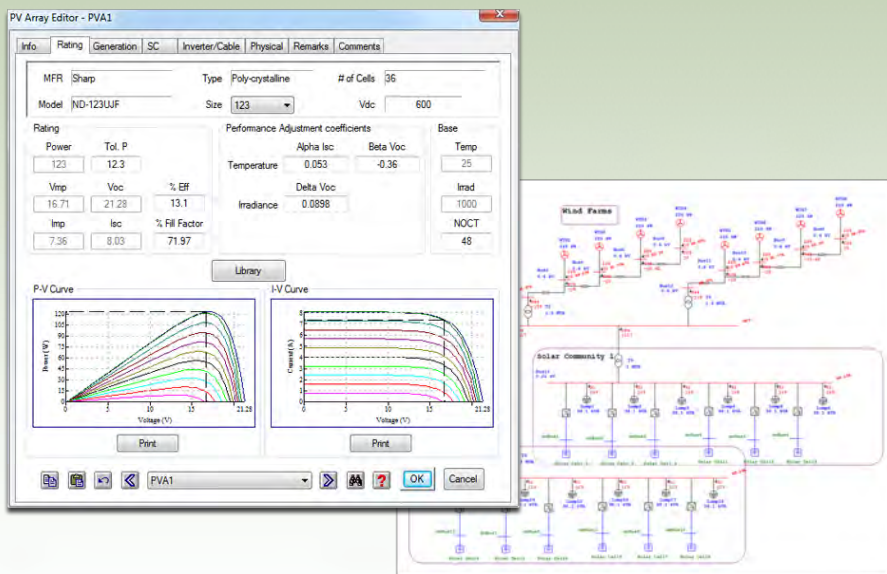
- Load Flow
- Short Circuit
- Protective Device Coordination
- Equipment Sizing
- Power Quality
- Underground Cable Systems
- Stability Analysis
- Wind & Solar Manufacturer Libraries

ETAP Real-Time™ allows for a logical & smooth transition of the design model into operations environment for monitoring, controlling and managing power throughout the renewable farm and its interconnection with the network.

ETAP puts you in control of your renewable energy generation in order to maximize output and improve efficiency.



- Dedicated generation farm interface
- Wind turbine performance monitoring
- PV panel & inverter performance monitoring
- Sequence-of-events
- Energy generation tracking & reporting
- Predictive simulations of operator actions, grid disruption & tariff changes



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