

Sustainable Power

Realistic Simulation, as part of the Integrated Plant Engineering industry solution, helps to reduce development time and cost, improve quality, and power innovation.

37% GROWTH

Demand increase for global energy by 2040¹

620 GIGAWATTS

Capacity of worldwide nuclear power in 2040¹

3 out of 4 OIL & GAS COMPANIES*

Using digital twins by 2018²

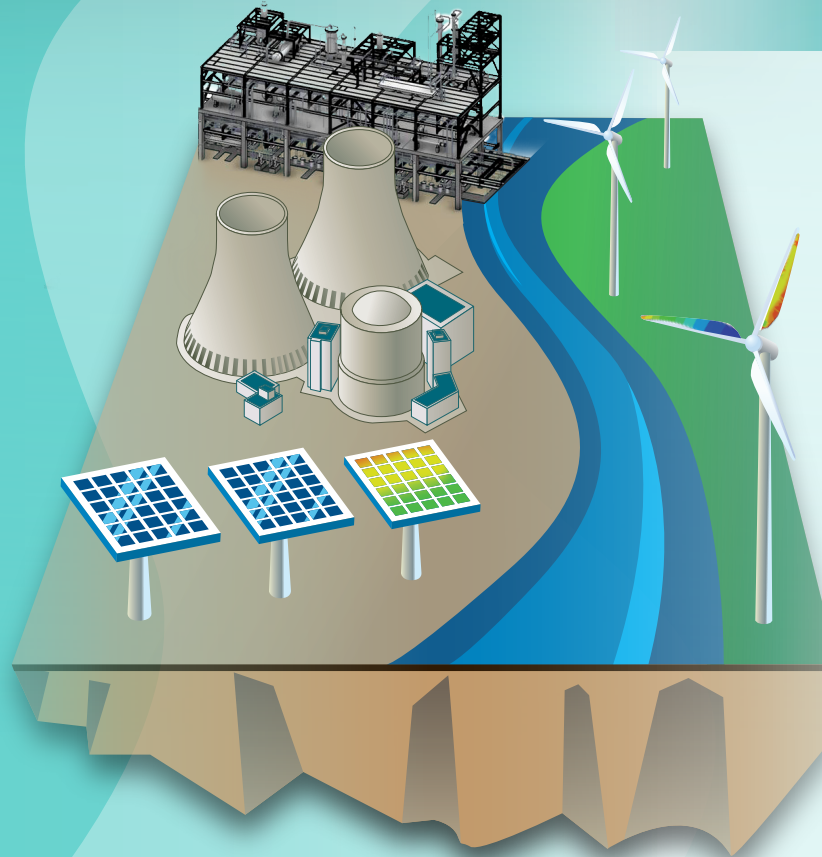
33% ENERGY SHARE

Proportion of energy derived from renewable resources by 2040¹

* Concerns companies with more than 10 operating walls

¹ Source: IEA, World Energy Outlook, 2014

² Source: IDC Energy Insights



THE BENEFITS OF REALISTIC SIMULATION

Optimize Project Delivery:

Prevent unnecessary layout changes to meet specifications, on-time and on-budget.

Enhance Operational Efficiency:

Optimize the value of maintenance, repairs, and overhauls (MRO) through improved equipment lifespan assessment.

Improve Safety:

Virtually test structures for tolerance against impact loading, natural disasters, fire damage, and other occurrences.

Achieve Plant Certification:

Evaluate compliance of pipes, vessels, and materials under the extremes of stress and time.

LEARN MORE

Download the e-Book series at:
www.3ds.com/sustainable-power