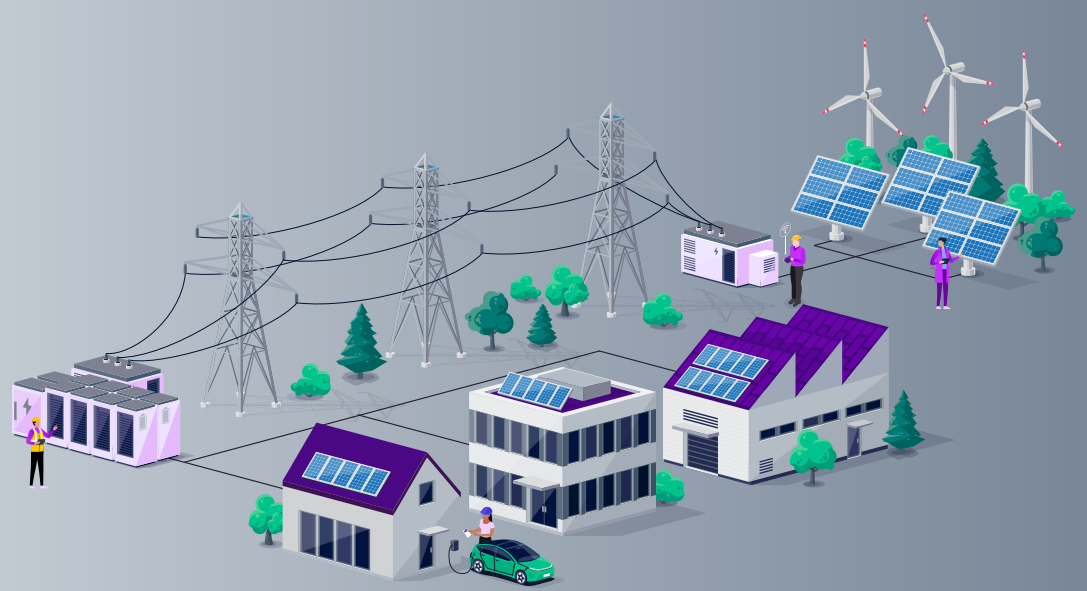


Digital transformation in power generation

Smarter, more resilient power plants for a more sustainable future



Power producers today are tasked to solve many problems at once, such as growing public demands and government mandates to accelerate the energy transition, as well as budget constraints, workforce turnover, disruptions of service and supply, and more.

Thankfully, advanced digital solutions are helping leading power producers navigate these challenges all while maximizing the output of their plants to meet the needs of an increasingly populous and electrified world.

Four key issues for power generation companies



Mounting calls to accelerate the energy transitions

Doing more with less to improve profit margins while reducing carbon intensity



Rising capital budget constraints

Building new generation capacity while avoiding cost overruns and delays



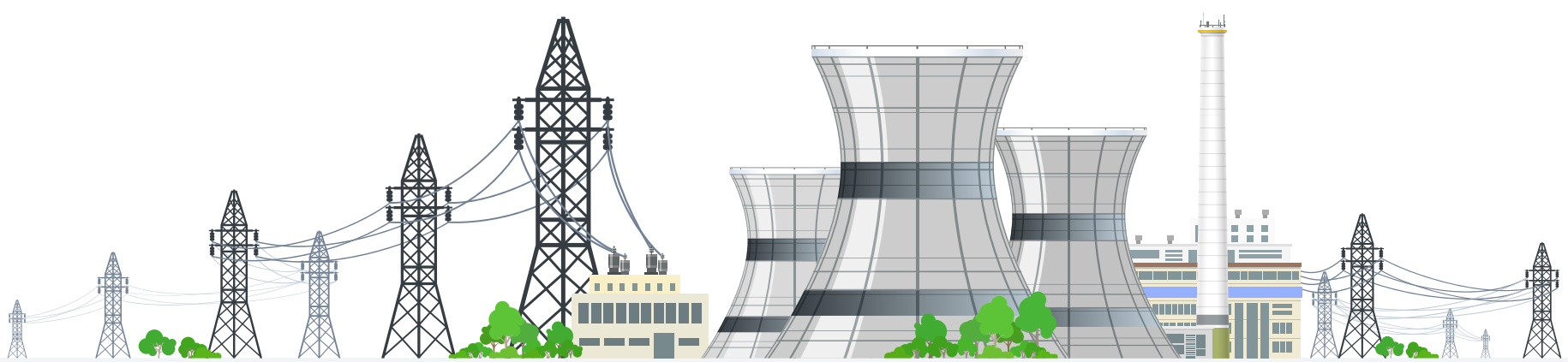
Growing security-of-supply concerns

Increasing asset utilization, situational awareness, and the resilience of the electric grid



Increasingly frequent labor disruptions

Improving training outcomes and building resilience in the face of turnovers and a retiring workforce



Four business imperatives for better outcomes

1



Reduce fleet emissions

Improving process efficiencies to extract maximum value from existing fleets without the need to extensively replace hardware or software

Improve the efficiency of capital expenditures

Using modern engineering and simulation solutions to enhance collaboration, promote efficiency, reduce engineering errors, and shorten engineering cycles

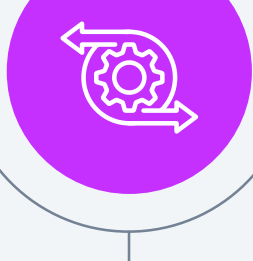
2



Build agility and resilience

Reducing maintenance costs while ensuring safe, reliable operations with real-time data and predictive analytics

3



Upskill, reskill, and empower workers

Empowering connected workers and incentivizing innovation with cloud-based, experiential training solutions

4



AVEVA's hybrid cloud and SaaS approach enables the new normal



Scalability and agility

- Increase in deployment speed
- Flexible application consumption
- Minimize IT burden
- Reduction in TCO
- Breakdown information silos



Hybrid cloud and distributed working

- Enable collaboration and efficient productivity
- Empower remote workforce and teams
- Leverage partner ecosystems and existing IT architecture
- Create, acquire, and transfer knowledge



Secure digital thread

- Secure data ownership
- Access management
- Manage distributed architectures and data sharing
- Achieve global license compliance

How we're helping power generation companies accelerate the net-zero future



Qatar Power creates new value while cutting waste

AVEVA helps optimize operations and maintenance resulting in annual savings of \$2 million in seawater and fuel consumption and eliminating heat-stress related worker incidents.

[Learn more](#)



EDF gathers all engineering information into one central database

Implementing a data-centric platform enabled the teams at EDF, one of the world's largest power companies, to collaborate in the same cloud environment, which reduced engineering work hours and improved project efficiency.

[Learn more](#)



ENEL predicts failures before they occur

With a new, integrated digital platform and AI-enriched analytics, Enel detected and prevented over 220 asset failures and optimized performance across 20GW of power generation and 1,275 assets.

[Learn more](#)



Seward Generation trains its operators for greener energy production

Seward Generation deployed a dynamic process simulation program to prepare its operators for the challenges of operating one of the world's newest and largest CFB plants safely and efficiently, while reducing emissions.

[Learn more](#)

Learn how AVEVA can help you align the best interests of your organization with the best interests of our shared future at

aveva.com/power