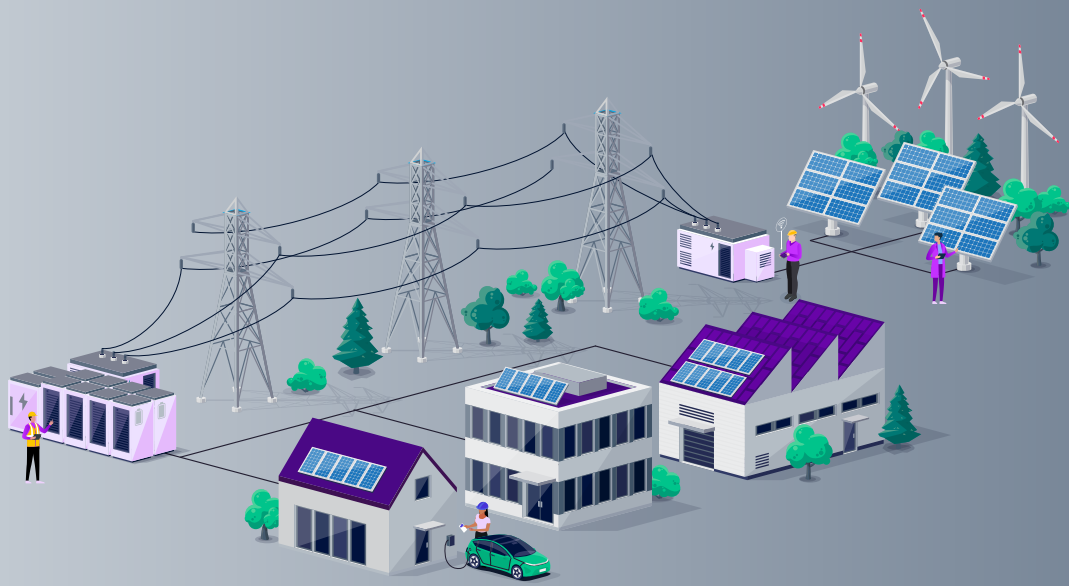


Digital transformation
in power generation

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



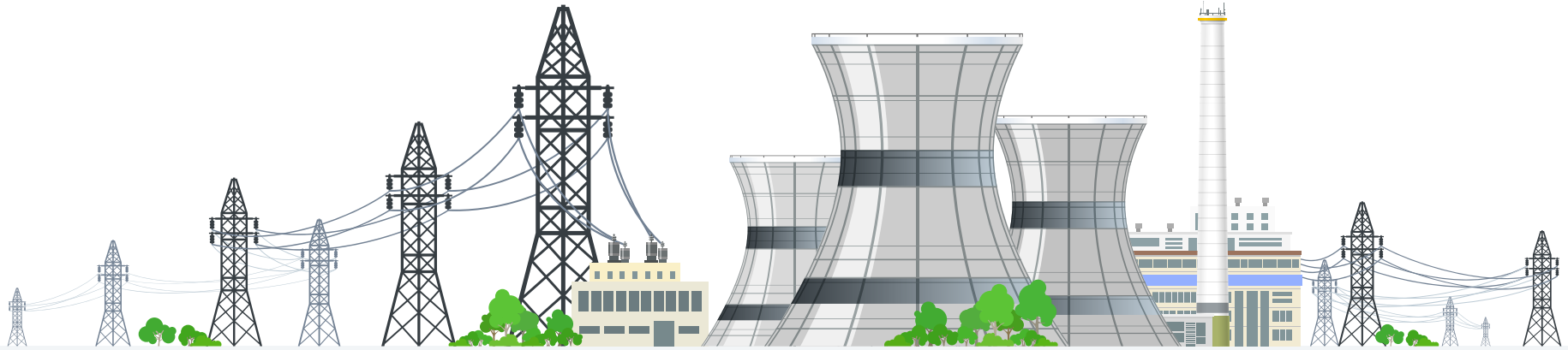
Growing
security-of-supply
concerns

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

3



Build agility and resilience

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

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 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