Digital transformation in power generation
Smarter, more resilient power plants for a more sustainable future

Power plants 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 disruptions, and security and environmental concerns.

Thankfully, advanced digital solutions are helping leading power producers navigate these challenges—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

1. Mounting calls to accelerate the energy transition
   - Using more than twice as much energy as the rest of the world, until recently, while producing a mere 4% of global emissions

2. Rising capital budget constraints
   - Building new power plants while avoiding cost overruns and delays

3. Growing security-of-supply concerns
   - Increasing asset utilization, while keeping on the radar any potential labor disruptions

4. Increasingly frequent labor disruptions
   - Learning how AVEVA can help you align the best interests of your organization with the best interests of our shared future at aveva.com/power

Four business imperatives for better outcomes

1. Reduce fleet emissions
   - Improving process efficiencies to reduce greenhouse gas footprint

2. Build agility and resilience
   - Reducing maintenance costs while ensuring safe, reliable operations with near real-time data and predictive analytics

3. Scaleability and agility
   - Increase in deployment speed
   - Flexible application consumption
   - Minimize IT burden
   - Reduction in TCO
   - Breakdown information silos

4. 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

Qtter Power creates new value while cutting waste
- AVEVA helps optimize operations and maintenance
- More than $8 million saved over 2 years through reduced seawater and fuel consumption and desalting near-desalinated-related waste incidents

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

ENEL predicts failures before they occur
- With a new, integrated digital platform and AI-enabled analytics, Enel detected and prevented over 220 asset failures and optimized performance across 20GW of power generation and 1,275 assets

Seward Generation trains its operators for greener energy production
- Seward Generation trains its operators for the challenges of operating one of the world's newest and largest CFB plants safely and efficiently, while reducing emissions

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AVEVA's hybrid cloud and SaaS approach enables the new normal
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  - Increase in deployment speed
  - Flexible application consumption
  - Minimize IT burden
  - Reduction in TCO
  - Breakdown information silos

- Secure digital thread
  - Secure data ownership
  - Access management
  - Manage distributed architectures and data sharing
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- Hybrid cloud and distributed working
  - Enable collaboration and efficient productivity
  - Empower remote workforce and teams
  - Leverage partner ecosystems and existing IT architecture
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