

AVEVA™ Predictive Analytics for Power Generation



To meet critical business objectives, you need performance that's smarter, faster, and more precise. By leveraging the most accurate, optimized intelligence, you can lead the way. AVEVA and OSisoft are joining forces to make it a reality.

Machines don't have to fail. The modern power plant generates massive amounts of data. AVEVA Predictive Analytics turns that data into actionable insight to help avoid equipment failure and maximize efficiency at optimal performance.

The most comprehensive predictive analytics solution for the power generation industry

Your asset reliability, performance, and safety are top priorities. Designed to reduce unscheduled downtime and maintenance costs, AVEVA Predictive Analytics provides early warning notification and diagnosis of equipment issues before critical operations are impacted.

- \$4,000,000+** avoided through early identification of power generation turbine blade damage
- \$500,000+** avoided due to early identification of a motor coupling approaching failure
- \$370,000+** avoided due to early warning of pump feedwater heater and bypass valve problems
- \$250,000+** avoided due to early warning of a bearing seal differential pressure problem



AVEVA is monitoring over 550,000 MW of power generation today.



Customers leveraging OSisoft's PI System and AVEVA Predictive Analytics have saved millions of dollars in averted asset failures and maintenance costs

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| <p>ATP can detect turbine bearing &amp; excitation issues</p> <p><b>+\$17.5 Million</b></p> <p>is avoided from turbine maintenance repair and asset loss downtime</p> <p><b>AMERICAN ELECTRIC POWER</b></p> | <p>State Energy Monitoring System provides insight to asset control &amp; asset operational status</p> <p><b>+\$34.5 Million</b></p> <p>is avoided due to turbine maintenance repair and asset loss downtime</p> <p><b>DUKE ENERGY</b></p> | <p>OSiF can detect turbine bearing &amp; excitation issues</p> <p><b>+\$1.5 Million</b></p> <p>is saved in a single early warning which is needed to resolve condenser coil and heat transfer</p> <p><b>EDF</b></p> | <p>OSiF can detect turbine bearing &amp; excitation issues</p> <p><b>+\$4.5 Million</b></p> <p>is saved from turbine maintenance repair and asset loss downtime</p> <p><b>Southern Company</b></p> |
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The most proven path to predictive maintenance. Accelerate time to value.

- Alerts and notifications:** Create alerts on deviation between actual values and predicted values. Manage and trend alerts by category, level, severity, duration, and frequency.
- Rapid analytics and model development:** Models can be rapidly deployed from existing templates and validated using model playback prior to production deployment of the predictive models.
- Accelerate rollout and time to value:** Spend less time learning and more time using. AVEVA Predictive Analytics combines data science with in-depth understanding of physical assets, including a comprehensive prebuilt asset library with more than 20k math hours of development.
- Cybersecurity:** The safety and security of your data is our top priority. As an established leader with more than 50 years experience, delivering industrial software solutions, we recognize that your data demands a stringent cybersecurity posture and the highest operation standards.



Cut through the hype and invest in an industry-leading solution

AVEVA Predictive Analytics solution is currently used by leading power generation companies with a combined power generation capacity of 550,000 MW. With proven results and a trusted software partner, AVEVA delivers solutions for maximum reliability and performance.

For a closer look at AVEVA's Asset Performance Management software portfolio, visit [www.aveva.com/osisoft/asset-performance-management-4-0](http://www.aveva.com/osisoft/asset-performance-management-4-0)