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POWER's January issue will include our 2022 Industry Forecast and will provide a wealth of data, projections, and insight on what we and our partners perceive as trends, opportunities, and risks in the upcoming year.

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COVER FOCUS: 2022 INDUSTRY FORECAST

How Will Government Spending, COP26 Negotiations, and Other Current Events Affect the Power Industry in 2022 and Beyond

The future is filled with uncertainty, but one thing is sure, the power industry will adjust appropriately to whatever comes its way. Renewable energy seems poised for continued growth, and coal faces stiff headwinds from those who believe climate change is the top concern of our time. This article will dive into the details with insight from multiple experts and insiders who have their fingers on the pulse of the evolving power industry.

FEATURES

Guarding Against the Unknown: Power Sector Risk Amid the Energy Transition

While the energy transition poses fresh opportunities, for many power sector stakeholders with established operations, uncertainties swirling around technology, market direction, and policy intervention are adding new complexity to existing risk profiles. This article will explore how power companies, utilities, and other power players are fielding risks.

Advanced Technologies Driving Innovation in Nuclear Power

Advancements in nuclear power technology are being driven by researchers interested in safer reactor designs and new reactor fuel types, though those are far from the only considerations in play today. Companies are looking at nuclear power for distributed generation, with flexible siting options and modular construction; as part of the global

push for hydrogen production; in desalination schemes; and as a way to produce cleaner energy in the effort to fight climate change.

How Machine Learning Can Help Nuclear Power Plants Track Waste and Contamination Levels

Potential contamination and waste from nuclear power plants (NPPs) are causing some political and environmental tensions at sites around the world including at the Cattenom NPP on the border of France and Luxembourg. Traditional methods of measuring water interactions, fish populations, and disease in organisms aren't capable of collecting true numbers of the impact NPPs have on the environment. This article will explore how machine learning can automate manual measurement processes to provide greater insight into potential contamination sources, helping to improve outcomes.

Water, Heat, Metal—A Crucial and Difficult Dance

Power plant operators that neglect water chemistry do so at their own peril. Risks include erosion and corrosion of carbon steel piping and other components; boiler tube failures; deaerator weld cracking; pitting, corrosion fatigue, and stress corrosion cracking of low-pressure turbine blades and blade attachments; copper deposition in high-pressure turbine blades, causing loss of megawatts; and solid particle corrosion. This article looks at best practices to avoid these and other problems.

Digital Twins and Remote Monitoring Address Changes in the Energy Industry—Quickly

Power producers today need to address multiple changes that are coming fast and furious to the energy industry. Among these changes are diversification of fleets, new power generating profiles, and drastic changes in workforce demographics. Two technologies—digital twins and remote monitoring—have come to the forefront as not only solutions to meeting these challenges, but also tools that provide new ways of working that help companies transform their businesses.

Supply Chains: The Weakest Links Are Already Broken, How Can They Be Mended?

The worldwide pandemic has thrown the manufacturing sector a wicked curveball. Images of cargo ships backed up in ports paint a dire picture for companies trying to keep production lines functioning at peak capacity. What's it going to take to get the wheels turning at full speed again and products moving at the rapid pace needed? Experts weigh in and provide predictions on how long it could take for things to return to "normal."

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