

ENERGY SPECIAL

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20 Most Promising Energy Technology Solution Providers

Like every other industry, the energy sector too has witnessed the latest technological trends being implemented into its functioning, making the sector more productive and accountable for energy consumption and energy loss. With the evolution of customer interface in modern day energy equipments and the environmental protection agency's latest effort to regulate carbon use, the industry has made massive strides to empower itself by adopting the latest IT trends.

According to the estimate, a staggering \$6 billion worth of energy is lost in the U.S. every year. However, with advancements like Smart Grid solutions, it is now possible to detect where power is being lost, and remotely control and automate the transmission through

cloud computing. With IT pervading into domestic utilities through the introduction of smart meters and appliances, customers are also able to account for micro-generations of their electric utility which enables them to get accurate billing and allows for predictive analysis which help conserve energy. This kind of data analysis prevents energy wastage and improves safety regulations, thus keeping costs down and reliability up.

With innovation leading change in the way energy is perceived and harnessed, companies need to be quick to adopt them into their strategies or fear the risk of falling behind. To help CIOs choose the best providers available in the market, in this edition, CIOReview has compiled a list of the top companies that are making significant advances in the energy technology space.



Company:

Copperleaf Technologies

Description:

Provides decision analytics that empower energy utilities to make data-driven, risk-informed investment decisions

Key Person:

Judi Hess
CEO

Website:

copperleaf.com

Copperleaf Technologies

Decision Analytics Meets Asset Management with C55

Energy utilities are facing increasing expectations to deliver exceptional performance and effectively manage risk, despite aging infrastructure, and tightening financial and resource constraints. Copperleaf Technologies provides a unique solution to help utilities succeed in this challenging business environment. Copperleaf has developed an innovative enterprise software solution for Asset Investment Planning and Management (AIPM) called C55. The solution provides investment decision analytics to help utilities decide where and when to invest in their infrastructure to improve performance, manage risk, and deliver the highest value to all stakeholders.

Headquartered in Vancouver, BC, with regional staff based in Ottawa, Los Angeles, Dallas, and London, Copperleaf helps asset intensive industries make investment decisions with greater confidence. The company understands investment needs over the long-term horizon (20+ years), and develops investment plans to keep risk in the infrastructure at acceptable levels, while maximizing performance and respecting multiple constraints.

Spearheaded by their creative and passionate CEO, Judi Hess, Copperleaf provides utilities with world-class software solutions coupled with advanced methodologies developed over 20 years. “The Copperleaf C55 solution embodies our extensive experience helping energy utilities improve their performance, mitigate their risk, and create plans to meet their targets. C55 is the leading AIPM solution for utilities, and is now actively managing more than \$200 billion in investments across our client base,” asserts Judi.

The Copperleaf C55 solution has been adopted by some of the most respected utilities and energy companies, including Duke Energy, Manitoba Hydro, BC Hydro, Bonneville Power Administration, and more recently, Hydro-Quebec, a world leader in the field of hydroelectricity. Hydro-Québec TransÉnergie operates the most extensive transmission system in North America and invests close to \$2 billion in its power system on an annual basis. “We are thrilled Hydro-Québec selected C55 to improve their long-term planning

processes, and manage their asset investments more strategically,” informs Judi.

Copperleaf’s approach to AIPM is based on three core

“**The Copperleaf C55 solution embodies our extensive experience helping energy utilities improve performance, mitigate risk, and create plans that deliver the highest value to stakeholders**”

concepts: Predict, Optimize and Manage. Predict means being able to determine the long-term needs of organizations’ assets, so that they can develop investment plans to minimize risk and reduce costly unplanned failures and outages. Optimize means being able to determine the optimal set of investments and the timing of those investments that deliver the greatest value to the organization and its customers. And finally, Manage means being able to track an organization’s actual performance against their plans and continuously adapt to the ever changing business environment. “Copperleaf’s C55 solution is the only solution that addresses all of these aspects of AIPM,” says Judi.

Utilities routinely manage hundreds, if not thousands, of investments, and must deliver the greatest value to customers and shareholders, despite ever-increasing funding and resource constraints. Determining which projects to fund and the optimal timing of those projects, is extremely complex and cannot be accomplished manually or through the use of spreadsheets. C55’s unique value framework and state-of-the-art optimization techniques help utilities identify the optimal solution for thousands of investments in minutes. According to Judi, “Our clients consistently achieve millions of dollars of increased financial and risk mitigation benefits per planning cycle.”

“Copperleaf is squarely focused on innovation. We hold an annual conference for customers to share best practices and provide ideas that drive the roadmap for our solutions. The latest version of C55 introduced a brand new, intuitive user interface and sophisticated data visualizations that help client easily derive business insights from large volumes of data. At Copperleaf we focus on providing our customers with exceptional value, and we strive to make working with Copperleaf an extraordinary experience,” concludes Judi. [CR](#)



Judi Hess