SMART ENERGY DECISIONS

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The 2018 Innovation Awards

2018 Innovation Awards Editor's Note

It is with deep gratitude that we present the winners of the inaugural *Smart Energy Decisions* Innovation Awards in this special issue of *Smart Energy Decisions* Insights. The awards were presented at a celebratory dinner capping off the *Smart Energy Decisions* Innovation Summit in Austin, Texas.

The objective of the ***Smart Energy Decisions*** **Innovation Awards** program is to recognize the individual and collective efforts of large electric power users, their suppliers, and their utilities in support of the energy transformation currently taking place. Innovation Awards are presented in two categories—customer project awards and utility partnership awards.

The inaugural winners in the Customer Project Awards competition are: **Kimberly-Clark Corporation, IBM, Kingspan, Cisco Systems, LBA Realty, Hartsfield-Jackson Atlanta International Airport, Fruit of the Loom, Inc., California State University, Dominguez Hills,** and **Michigan State University.**

The inaugural winners in the Utility Partnership Awards competition are: **Black Hills Corporation, Sacramento Municipal Utility District,** and **Eversource.**

We'd like to thank the program's judges: Ali Ahmed, principal, Green Strategies LLC; Peter Kelly-Detwiler, principal, NorthBridge Energy Partners; Karl R. Rábago, executive director of the Pace Energy and Climate Center, and Rowena Striff, energy manager, Lockheed Martin Aeronautics. Their extensive industry experience added greatly to the program.

We look forward to the exciting entries that are sure to be submitted during the 2019 Innovation Awards. Entries open on October 15th.

Cordially,

John Failla
Founder & Editorial Director

2018 Innovation Awards Methodology

Nominations for the **Smart Energy Decisions Innovation Awards** were called for in December 2017. Nominations were accepted in the following categories:

Customer Project (nominations accepted from customers and suppliers)

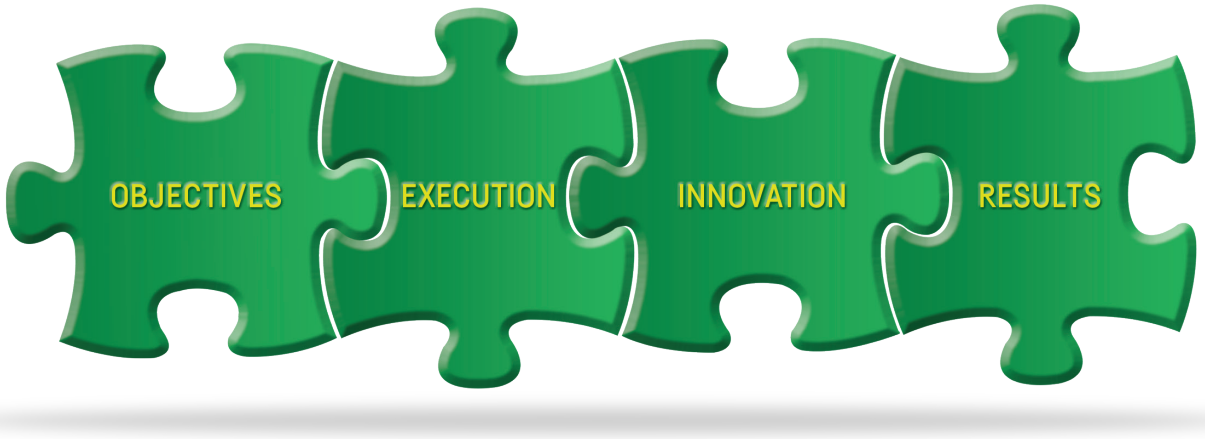
- Industrial Energy Data Management
- Commercial Energy Data Management
- Commercial Energy Efficiency Technology
- Industrial Energy Efficiency Technology
- Energy Storage and Microgrids
- EV Charging Infrastructure
- Offsite Renewable Energy
- Onsite Renewable Energy

Utility Partnership (nominations accepted from customers only)

- Green Tariff Program
- Enabling Offsite Renewable Energy
- Energy Efficiency Incentive Programs

More than 60 nominations were received and reviewed by a panel of four judges. Submissions were judged on the **objectives** and **execution** of the project, the level of **innovation** (including approach, execution, use of technology, partnership or any other unique attributes) and **results** (including measurements, ROI, achievements and goals met).

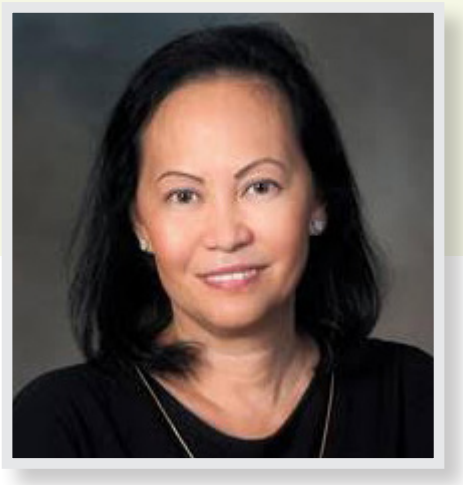
Winners were announced in February 2018.



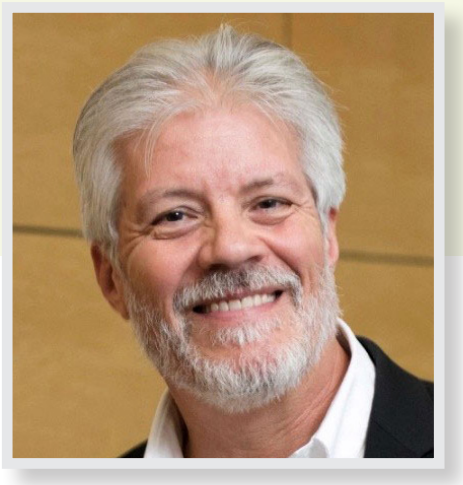
2018 Innovation Awards Judges

Ali Ahmed
Principal,
Green Strategies, LLC

Peter Kelly Detwiler
Principal,
NorthBridge Energy Partners



Rowena Striff
Energy Manager,
Lockheed Martin Aeronautics



Karl R. Rábago
Executive Director,
Pace Energy and Climate Center

Customer Project: Industrial Energy Data Management

Kimberly Clark Corporation

Lean Energy: Transforming the Culture of Energy Conservation at Manufacturing Sites

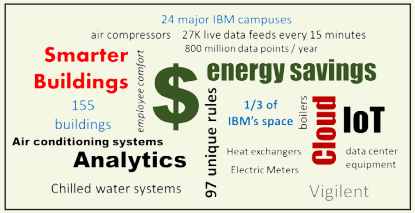
As part of its "Sustainability 2022" strategy, "Lean Energy" was designed to create a culture of energy conservation at mill level, giving ownership and accountability to all mill employees to manage energy at the same level for safety, quality, delivery and cost.

Photo: Kevin McClelion, senior energy and sustainability engineer; Stewart Van Horn, director of global sustainability

Customer Project: Commercial Energy Data Management

IBM

IBM Smarter Building Solution: Revealing Hidden Energy Saving Opportunities in Buildings in Real-time



Smarter Buildings combined IBM's real estate management, software, and services expertise with analytics to reveal a building's hidden failings and to identify opportunities for improvement of building performance and efficiency.

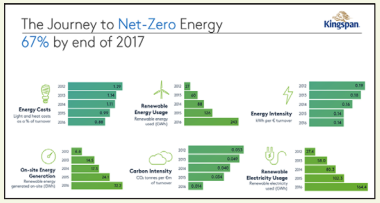
Photo: Dave Jaeger, Rochester, MN site energy coordinator

2018 Innovation Awards Winners

Customer Project: Commercial Energy Efficiency Technology

Kingspan

Journey to Net Zero Energy



To achieve their 2020 Net Zero Energy goal, team leaders worked hands-on with each of 113 manufacturing sites, with usage data is collected monthly to implement a “reduce, generate and buy” strategy.

Photo: Brent Trenga, building technology director, North America

Customer Project: Industrial Energy Efficiency Technology

Cisco Systems

Global EnergyOps Program

Energy managers developed targeted energy conservation measures in areas determined to be inefficient. The team then implemented pilot projects to prove out new technologies. So far, 450+ energy efficiency and onsite renewable energy projects have been implemented as part of the program.

Photo: Ned Bagno, program manager; Jeff Myrdek, CBRE/Cisco Systems Account

2018 Innovation Awards Winners

Customer Project: Energy Storage and Microgrids

LBA Realty

Park Place Energy Storage Project

LBA Realty, Black Bear Energy, and Corporate Sustainable Strategies partnered with Stem to deploy 1.3 MW of artificial intelligence (AI)-driven energy storage at Park Place, a 2.1 million square foot mixed-use corporate complex in Irvine, California. The project is the largest indoor energy storage system in the nation.

Photo: Melanie Colbert, principal, operations

Customer Project: Offsite Renewable Energy

Fruit of the Loom

Merendon Biomass Power Plant

Finding no renewable energy sources readily available at their manufacturing facilities in Honduras, Fruit of the Loom established a biomass power generation plant. Power is used internally in their facilities, while excess power is sold to the Honduras national grid.

Photo: Adam Wade, senior director of environmental, health, and safety

Customer Project: Onsite Renewable Energy

California State University, Dominguez Hills

CSU/DH Provides Grid Relief

Located in a constrained area of the California grid, the University became the first customer to participate in an innovative load relief program with a combination of artificial intelligence (AI)-enabled energy storage from Stem and demand response from CPower.

Photo: John Failla, Smart Energy Decisions; Jason Babik, vp of strategic planning and business development, CPower; Randy Palombi, vice president of sales, Stem

Customer Project: Onsite Renewable Energy

Michigan State University

The Largest Carport Solar Array in North America

MSU's carport solar array is constructed on five of the university's largest commuter parking lots and covers 5,000 parking spaces. Created through a PPA, the project provided a renewable power production and energy consumption reduction showcase on campus, where the university's students can study solar photovoltaic and inverter technology, as well as their integration into the micro-grid.

Photo: Wolfgang Bauer, university distinguished professor and senior consultant

Customer Project: EV Charging Infrastructure

Hartsfield-Jackson Atlanta Airport

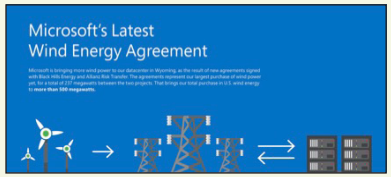
Airport EV Infrastructure Project

The project included installation of 300 electrical chargers for passenger and employee electrical vehicles throughout the airport, also allowing airlines to convert their gas and diesel chargers to electrical ground service equipment.

Utility Partnership: Green Tariff Program

Black Hills Energy

Large Power Contract Service Tariff



Building on a partnership with Microsoft, Black Hills Energy created this tariff, which allowed Microsoft's data center in Wyoming to procure energy at a market rate while using natural gas backup generators to self-supply capacity. The market-based energy rate provided Microsoft with the flexibility to build new wind generation that supplied the data center virtually through a financial settlement.

Photo: Chris Kilpatrick, director of resource planning

Utility Partnership: Enabling Customer Offsite Renewable Energy

Sacramento Municipal Utility District

SolarShares Program Redesign for Commercial Customers

SMUD's redesign was done to expanded access to solar energy to help its commercial customers reach their renewable energy consumption targets and sustainability goals. Pricing is designed so that non-participating rate-payers do not subsidize the program.

Photo: Nancy Bui Thompson, SMUD board member

Utility Partnership: Energy Efficiency Incentives

Eversource

EVERSOURCE

Connecticut Energy Efficiency Fund

This project is a partnership between Eversource and Becton Dickinson to streamline the incentive process while maximizing the allowable incentives through bundling of energy projects. A key to this project's success was the creation of a long-term partnership, which encouraged the teamwork needed to meet goals.

2018 Innovation Awards Dinner

Save the Date!

Nominations will be accepted for the

2019 Innovation Awards

from

October 15–November 16, 2018

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INNOVATION AWARDS 2019