

ENVIRONMENT + ENERGY LEADER AWARDS 2021

OneTrust
ESG

ENVIRONMENTAL, SOCIAL & GOVERNANCE

urjanet

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A LETTER FROM THE PUBLISHER

Dear Reader,

I know what you're thinking: "No publisher letter necessary! I just want to get on to the products and projects that will help me do my job better. You know, the ones that will inspire me to become an even greater asset to my company and to the planet!"

I don't blame you. If I hadn't already had the chance to explore the top-notch products and projects in the following pages, I'd be scrolling past this letter, too.

But if you've made it this far, stick with me for just another minute. Because I want to thank you.

More than ever, the entries in this year's Environment + Energy Leader Awards show the heights to which everyone involved in the business of sustainability is attaining. Whether you submitted an entry, won an award (congratulations!), judged some of the submissions, or simply opened this ebook to explore what's happening, you are one of those many, many people who are achieving major goals. You're streamlining processes, improving waste management and recycling, reducing energy usage and your reliance on the grid, achieving emissions reductions, managing risk, and more – and you're helping your organizations save money and natural resources while you're at it.

So yes: thank you for being a part of this fantastic space. Working together, you're making things happen and, as my kids would say, "That's lit!" (Translation: amazing, cool, exciting...)

If you're still with me, I ask that when you're finished perusing these pages, you take a minute to check out our judges on page 66. Year after year, they show up and do the hard work that makes this program a success.

Finally, let me say congratulations to all our winners. Your work is inspiring and exciting and – I can't help myself – lit.

With that, I'll let you get on with it. Happy reading!

Best Wishes,
Sarah

Sarah Roberts
Publisher
Environment + Energy Leader

2021 JUDGING PANEL

Teresa Alvarado
Morado Consulting

Glen Anderson
ETC Group

Amy Bond
T-Mobile

Kirby Brendsel
Welltower

Paul Campbell
Navitas Partners

Elena Daniel
CP Group

Kirby Dipert
TRC Companies

Justin Grau
Ecolab (NALCO)

Kyle Gumto
Consultant on Energy
and Sustainability

Jeff King
Hershey's

Ben Larkey
BAL Associates

Fairuz Loutfi
World Resources Institute

Jennifer Mangold
Fung Fellowship

Charles McEwen
Veterans Administration

David Meyer
BSI

Thomas Pagliuco
AbbVie

Susan Pinera
SBM Management Services

Mary Jo Press
Tesla

Aaron Shaffer
Aspen Skiing Company

Travis Solberg
Solberg Manufacturing

Aaron Stainthorp
Jackson Family Wines

Cyril Toussaint
NYC Health + Hospitals



**Judges' Choice
Sphera - BOMCheck**

6K

Arizona Department of Environmental Quality

Benchmark Digital Partners

Colorbiotics

Cority

ehsAI

Electro Scan

Enablon

Encamp

Enel X - JuiceEco

Energy Focus

Footprint

Greenstone

HydroPoint

InstallNET-EcoServ

Intelix - ACTS

LOLIWARE

Micatu

New Belgium Brewing

Persefoni

Picarro

Sphera - EC4P

SUEZ Water Technology - Empower

Tim Hortons

Turntide Technologies

UL



**Judges' Choice
APP Sinar Mas**

ABB

AlphaStruxure

Ameresco - San Joaquin

Armstrong Flooring

Carrier

Chêne Bleu

CPower - Sunnova

CyrusOne

Enel Green Power

Enel X - Eaton Microgrid

Enovity - Community Regional

Medical Center in Fresno, CA

EY - Enablon ESG Metrics Collaboration

ForeFront Power - City of Ames

**ForeFront Power -
County of San Luis Obispo**

Kimberly-Clark

LMCO

Phipps Conservatory

**Vitro Architectural Glass
and the National Aviary**

PowerSecure

Procter & Gamble

RES

Schneider Electric - Gigaton

Schneider Electric - MoodyAFB

Stanley Black & Decker

T-Mobile

Terracycle

Veolia North America

Wärtsilä Energy



Environment + Energy LEADER

TOP
PRODUCT
2021





Sphera – BOMCheck

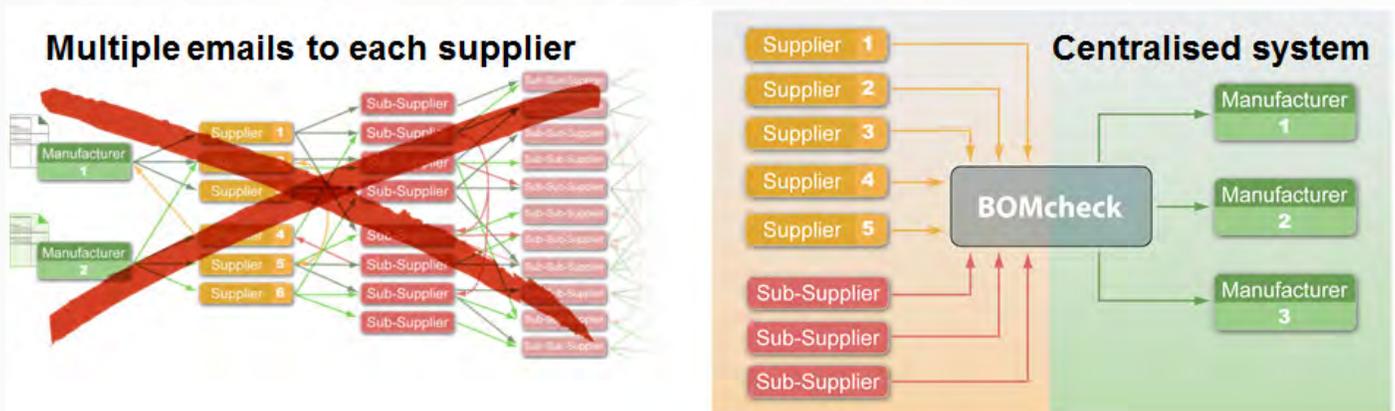
WHAT THE JUDGES SAID...



Having a singular international database platform where suppliers and manufacturers can easily share information about substances and their regulatory status is invaluable.”

To sell products globally, manufacturers need to ensure their suppliers understand, comply with, and stay up-to-date with an increasing number of substance regulations. Sphera’s BOMcheck is a centralized blockchain web database that saves time and cost for suppliers and manufacturers by keeping up to date with the strictest regulation for each relevant substance and providing tools, training, and chemicals guidance to help suppliers create and share standardized, high quality declarations.

From January 5, 2021, all companies supplying products in Europe are required to report information into the new European Chemicals Agency (ECHA) Substances of Concern in Products database if they include articles that contain REACH regulated substances above 0.1%. BOMcheck member companies have now submitted over 5.4 million SCIP dossiers to the SCIP database, from every country in Europe and across all industry sectors including automotive, aerospace, medical, and more, Sphera says. 🍀





6K Inc

WHAT THE JUDGES SAID...



This project shows tremendous potential to benefit advanced manufacturing while significantly reducing many environmental footprints...its applications could be endless."



6K's UniMelt® system is helping transform industrial advanced material production through sustainable manufacturing, a 6K spokesperson says. UniMelt is an industrial microwave plasma platform that enables the development of advanced materials across a wide spectrum of markets including additive manufacturing and battery/energy storage. It is positioned to replace today's traditional manufacturing processes, which are environmentally unfriendly methods. UniMelt overcomes these limitations, resulting in a significantly more sustainable approach, faster and at lower cost.

In additive manufacturing, the process recycles scrap material as feedstock that would otherwise have gone to landfill, and turns the scrap material into premium powder used for 3D printing. Also tackling

materials for energy storage, the technology allows material performance to be fine-tuned as well as delivering a cleaner process. For the electronic vehicle sector, specifically, this means batteries could be designed with longer range and shorter charge times, potentially accelerating wider adoption. 🌱



Arizona Department of Environmental Quality



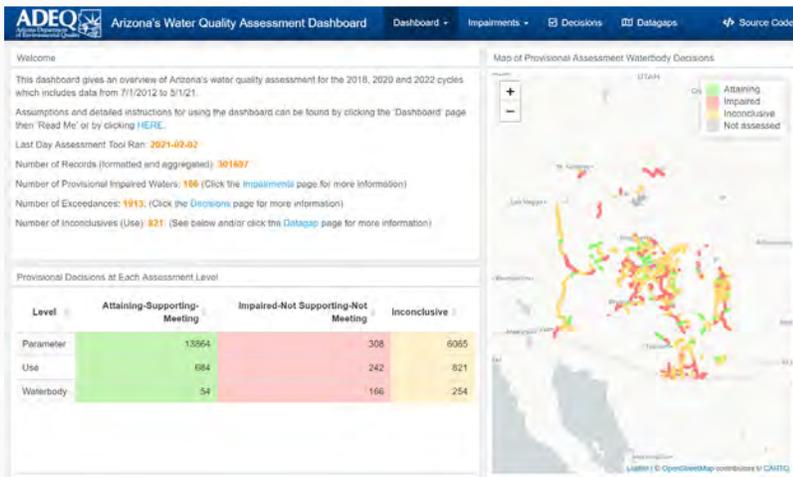
WHAT THE JUDGES SAID...

The tool demonstrates a clear advancement in water quality management while drastically reducing the time to deliver results."

ADEQ Automated Surface Water Quality Assessment Tool



View of Dashboard Home Screen
azdeq.shinyapps.io/assessment_dashboard



Arizona Department of Environmental Quality developed an Automated Surface Water Quality Assessment Tool (ASWQAT) to determine Clean Water Act assessment decisions at the parameter, use and waterbody levels. ASWQAT automates every step from gathering national water quality portal data to creating a final assessment report for the EPA. With ASWQAT's extreme automation, ADEQ can efficiently and effectively determine if designated uses for lakes and streams meet federal water quality standards and prioritize and make timely decisions that address the most pressing issues impairing Arizona's

surface waters. ASWQAT slashed the time to conduct a statewide surface water quality assessment of over 1,400 waters by more than 99%—what took nine months of staff time now takes roughly 15 minutes and saves more than \$500,000 annually in laboratory and staff labor costs, the company says. 🍀

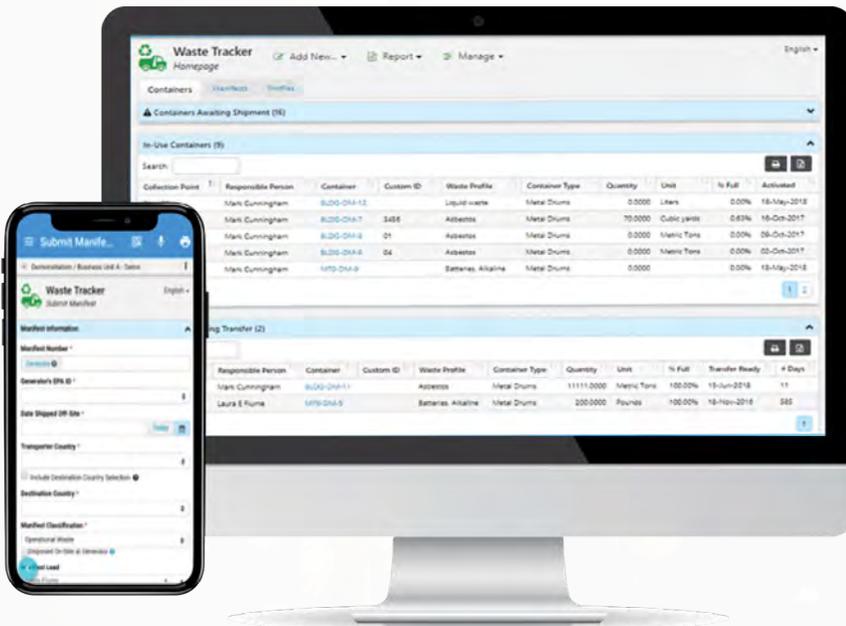


Benchmark Digital Partners

WHAT THE JUDGES SAID...

“

This product is extremely useful for companies with large and diverse waste streams that are looking to manage their waste responsibly and ensure compliance.”



The Benchmark ESG™ | Gensuite® Waste Tracker application is a flexible, centralized solution for storing critical waste profile and shipment-specific documentation. In addition, Waste Tracker tracks and manages hazardous and non-hazardous waste from the point of generation through shipment to disposal facilities. Its mobile interface is integrated with barcode and QR code scanning options for seamless mobile management of on-site waste activities, from updating container fill status, requesting container transfer to storage areas, completing inspections, and building

manifests. The Waste Tracker application leverages Bluetooth Low Energy beacons and a responsive mobile interface to simplify and accelerate waste management tasks through automatic detection and transmission of container information or inspection task notifications. In the proximity of a beacon, mobile push notifications display information such as a potential hazard, training requirements, open work orders or inspection actions, all easily managed from a self-service management interface. 🍃



Colorbiotics

WHAT THE JUDGES SAID...



This is a clear win for recycling, reduced energy use, cost savings and road longevity."

Invigorate™
REJUVENATOR

Colorbiotics®
ASPHALT SOLUTIONS

Attack aged binder at the **molecular level.**

This new soybean oil-derived additive triggers chemical reactions inside recycled asphalt pavement (RAP) to break down asphaltene aggregation in aged binder and reverse the effects of oxidation in the final mix.

Unlike other rejuvenators that only offer a superficial change in the viscosity of stiff binder, Invigorate™ uses technology developed at Iowa State University to improve the chemical properties of lower quality binders—that's how this sustainable solution actually addresses the aged elements within recycled asphalt to restore flexibility and extend service life.



Elevate your mix design with **Invigorate™**
REJUVENATOR



Increase critical performance temperature range.



Improve high- and low-temperature performance grade.



Allow for higher RAP contents without age-old drawbacks.



Enhance effects of polymer incorporation in binder.



Rejuvenate on molecular level to create better binder.

A brand of **MBCC GROUP**

Invigorate Rejuvenator is a new soybean oil-derived additive that triggers chemical reactions inside recycled asphalt pavement (RAP) and stiff binders to break down asphaltene aggregation and reverse the effects of oxidation in the final mix. While other rejuvenators offer a superficial change to the viscosity of the binder, the Invigorate additive improves the chemical properties of lower-quality binders, addressing aged elements within RAP. This new technology from Colorbiotics, developed in partnership with Iowa State University, improves recyclability of asphalt while still meeting PG and performance-testing specifications, the company says. Colorbiotics conducted a successful run of trial projects last year, where use of recycled asphalt with Invigorate reached as high as 45%, well beyond the standard of 20% to 25%. While percentage of RAP is important, pavement density was also critical in the trials. Multiple density tests for Invigorate trials showed density readings as high as 94.4%. 🍃



Cority

WHAT THE JUDGES SAID...



Having experienced the problem this SaaS solution is solving for, it's clearly an improvement over existing reporting processes for hazardous waste tracking and reporting."

Cority's Waste Management solution enables Environmental, Health, and Safety professionals to ensure compliance, prevent pollution, reduce waste, and minimize consumption as they work in an environmentally responsible way, the company says.



Cority's SaaS-based solution enables organizations to manage waste in accordance with applicable laws to quickly demonstrate compliance to regulators as well as track waste storage locations and limits, types of wastes on-site, and disposal costs. Detailed dashboards and robust reports provide organizations with the data they need to effectively monitor sustainability performance and identify opportunities to reduce operational expenses.

The CorityOne platform unifies environmental, health, safety, and quality management programs across the enterprise with a centralized focus on sustainability. Empowering organizations to go beyond compliance, Cority helps teams gain efficiencies by leveraging the same operational data across multiple programs and reports, including ESG and sustainability disclosures. 🌱



ehsAI

“

WHAT THE JUDGES SAID...

Simplifies the time-consuming exercise of compliance with a myriad of permits; its usefulness is on multiple levels, from reducing risk to saving time and labor.”

ehsAI converts complex environment, health and safety documents, like regulations, standards, plans, contracts, forms, and permits to compliance action items in minutes. Hosted in the cloud, ehsAI is easy to access and takes minutes to learn, resulting in immediate savings.

Organizations can go from permit to compliance tasks in minutes versus days or weeks. They can minimize fines, work and community risk, while creating an organization-wide consistency in interpretation only artificial intelligence can provide. The ehsAI platform is patented and is used by the world's largest corporations and consulting firms, the company says. 🍀





Electro Scan

WHAT THE JUDGES SAID...



Electro Scan's leak detection system's ability to quantify leak severities and leak accuracy is truly remarkable."

Electro Scan's Multi-Sensor DELTA



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Electro Scan Inc. has introduced what it calls the world's first machine-intelligent leak detection technology that locates leaks with 1cm accuracy and estimates each leak in gallons per minute (GPM). While water utilities have relied almost exclusively on hearing leaks using acoustic data loggers and correlators, Electro Scan's technology uses non-acoustic low voltage electric current to measure the size of a leak's hole.

As the company says, no more scheduling leak detection crews late at night to limit traffic noise, no more false-positive leaks from customer usage. Additionally, Electro Scan works in either high, low, or no water pressure. The company's new DELTA & TRIDENT products work in all pipe materials from 1-inch to 60-inch diameters and can pinpoint leaks in newly lined Cured-In-Place Pipes immediately after curing. Already accepted in the US, UK, and Japan, the company's technology is part of AWWA's M77 Water Condition Assessment standard and ASTM standard. 🍃



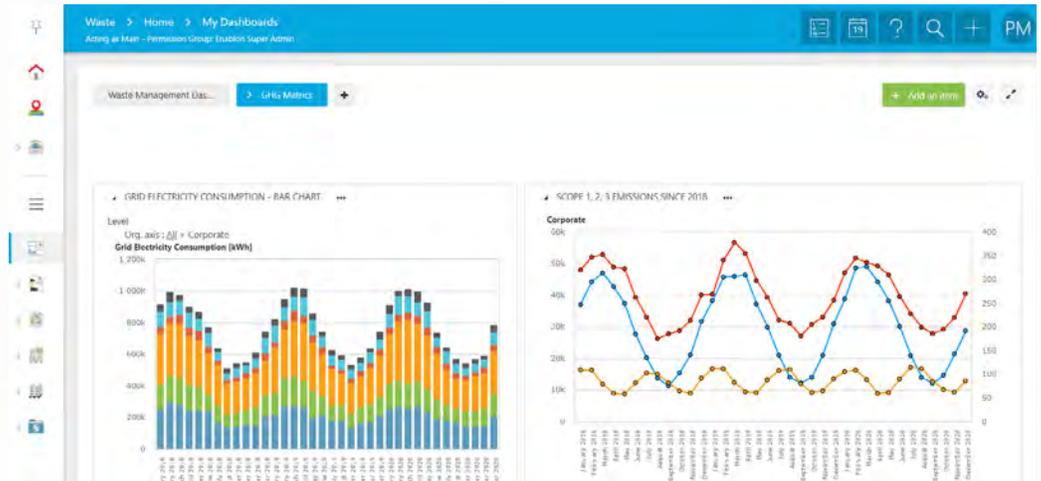
Enablon

WHAT THE JUDGES SAID...



A unique software with vast capabilities in EHS, Risk, and Operations in a single interface; its success is supported by the wide variety of firms that use and value it."

Globally, hundreds of companies and millions of users use Enablon software to define their ESG strategy, manage their environmental performance, increase worker safety, prevent incidents, reduce risks, and achieve regulatory compliance. This is how Enablon, a Wolters Kluwer business, helps customers create a responsible, productive, and safe world, the company says.



With the Enablon Vision Platform, organizations can manage all environmental aspects (air, water, waste, energy, chemicals) and the health and safety of workers and assets. The platform is used to calculate, predict, and forecast energy and water consumption, GHG emissions, waste generation, and chemical discharges, thereby helping organizations meet sustainability goals.

In 2020, Enablon announced Version 9 of its Vision Platform, bringing together EHS, Risk, and Operations in a single user interface. This provides greater transparency, allowing for operations and risk personnel to have greater insight and visibility into key business functions. 🍃

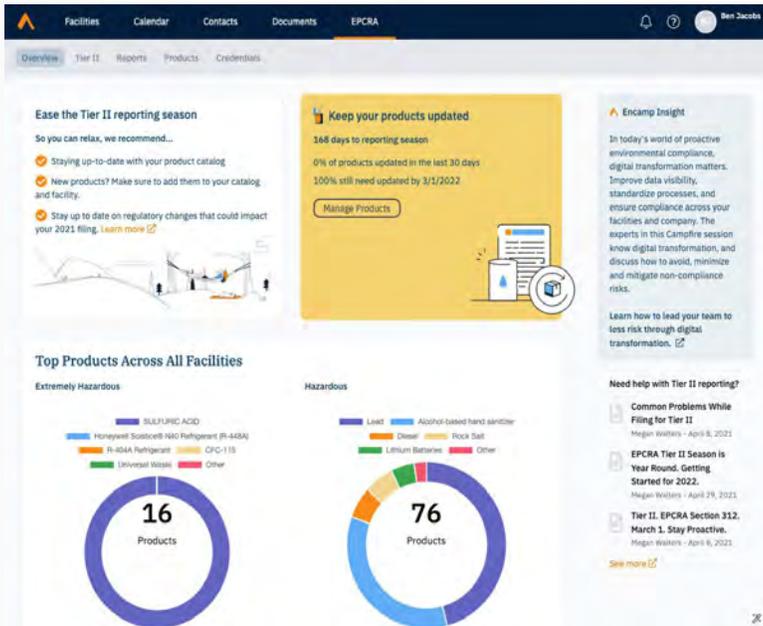


Encamp

WHAT THE JUDGES SAID...



Encamp is a robust software that enables a company to collect and generate vital compliance data and establish reporting timelines and actionable milestones."



Encamp's environmental compliance platform enables companies to proactively manage risk – the risk of non-compliance, costly fines, and a tarnished reputation, as well as the risk of insufficient technology and error-prone manual processes.

The Encamp platform allows EHS professionals to aggregate and centralize data from across their organization, streamline workflows for regulatory reporting, and automate the submission of state and federal agency filings and payments. With Encamp, teams can manage environmental compliance activities year-round and submit filings accurately and on time.

The end-to-end Encamp platform was developed by EHS professionals who truly understand how environmental compliance and reporting works, making the process more proactive for EHS professionals, the company says. 🌱



Enel X – JuiceEco

WHAT THE JUDGES SAID...



Unique, simple, partner oriented offering to existing EV and non-EV drivers. A good roadmap for future success.”



Available exclusively through Enel X, JuiceEco provides Green-e certified Renewable Energy Certificates (RECs) to match the consumption of any EV anywhere in the US with carbon-free electricity.

RECs provide a simple, traceable and effective way to support new, renewable energy generation while allowing EV drivers to support the positive environmental benefits. Consumers can purchase JuiceEco starting at \$30, with 3,400 KWh of clean energy production or the equivalent

of 10,000 miles. Through this offering, drivers can ensure that their lifetime of mileage is powered by renewable energy for about \$600.

While RECs have long been used by corporations to offset their carbon emissions, JuiceEco is a way for consumers to directly reduce their carbon footprint. EV drivers select the amount they want to match based on how much they drive, and quickly receive a certificate representing their REC purchase. 🌱

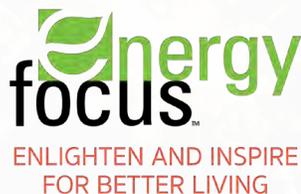


Energy Focus

WHAT THE JUDGES SAID...



This is what you call a game-changer; it can take lighting to the next generation of improving the indoor living environment."



The new EnFocus Human-Centric Lighting platform enables existing commercial facilities and residential consumers (under the SunCycle brand) to implement automated circadian, dimmable, color-tunable, flicker-free LED lighting. The patent-pending technology drives improved light quality and capabilities at a fraction of the cost of alternative wireline or wireless controls, leveraging existing AC powerlines for digital communications, the company says. EnFocus only requires replacing existing wall switches and fluorescent or tubular LED lamps without replacing fixtures and wall wiring, or deploying security vulnerable bluetooth communications.

New features include an intuitive digital screen on the switch with pre-programmed 10-stage changes in light brightness (up to 2250 lumens per lamp) and color temperature (2700K-6500K) following

natural daylight cycles and optimizing human circadian rhythms. The lighting systems feature an optional occupancy sensing capability, significantly and autonomously reducing energy consumption. They can also dim to 10% power achieving additional cost and energy savings. EnFocus LED controls can provide 60%-90% energy savings over fluorescent or incandescent lighting systems, the company says. 🌱



Footprint

WHAT THE JUDGES SAID...



The vision, engineering quality and partnership with major food producers and retailers offers – and will further yield – tremendous environmental and human health benefits.”



Footprint™

Footprint’s plant-based solutions are engineered and manufactured for some of the world’s largest food and consumer packaged goods companies that want to provide sustainable packaging to their customers, keeping food away from plastic. In September 2020, Footprint expanded its partnership with Conagra Brands with a new plant-based fiber bowl for several of its frozen-food products. The fiber bowls are engineered with microwave-safe materials that are non-stick, cooler to the touch than plastic, and are a solution to plastic bans. Footprint solutions consider the entire life cycle – including the consumer use case, interaction with food, and where it ends up post-use. Footprint is helping Conagra and other leading brands do good for the planet, keep harmful plastics away from food, make good on ESG promises, and positively impact their bottom line. 🌱



Greenstone

WHAT THE JUDGES SAID...



This software, utilized globally in over 100 countries, is proven to be a substantial tool for measuring and substantially reducing Scope 1, 2, and 3 carbon emissions."



The Greenstone Enterprise software solution enables companies to define, measure, manage and report sustainability, supply chain and ESG data across their organization and value chain. Greenstone's software is being used in 100 countries across 15 industry sectors, the company says.

As more companies strive to be responsible businesses, and set ambitious Science-Based Targets (SBTs) and net-zero targets, the role of scope 3 emissions (indirect emissions in a company's value chain) is becoming critical. This is a complex and challenging area of emissions reporting and one that companies struggle with. With its newly enhanced scope 3 functionality, Greenstone Enterprise enables users to accurately measure and report in all 15 scope 3 categories and provides advanced and integrated GHG emissions calculations in line with the GHG Protocol.

Users get meaningful results from their data enabling them to make informed business decisions, monitor savings, track targets and achieve their sustainability goals, according to the company. 🍃



HydroPoint

WHAT THE JUDGES SAID...



This product appears to be a great tool for businesses to monitor water usage remotely over a large portfolio. The dashboard is comprehensive and easy to read."



HydroPoint has expanded its suite of water management solutions with the addition of WaterCompass Enterprise. Utilizing real-time flow-monitoring IoT sensors, data use analytics and a full-time team of water experts to provide water use visibility across an entire site, WaterCompass Enterprise enables site owners and managers to finally overcome the systemic "water blindness" that plagues properties across the country.

From sensing leaks and breaks and notifying appropriate team members as they happen, to working with on-site facility managers to solve water use anomalies, customers - from retail to multi-family housing, government entities and others - have benefited from the 24/7 visibility of their site water use.

No longer do organizations need to wait until they receive their water bill to notice excessive water use, WaterCompass Enterprise provides alert notifications and real-time water use data to help organizations achieve their water and sustainability goals. 🍃



InstallNET-EcoServ

WHAT THE JUDGES SAID...



For so many project/facility teams it is a hassle to ensure that waste doesn't end up in landfills. This product will make it so much easier to make the correct choice."

installNET **eco serv** **Diversion Summary**

TOTAL SURPLUS DIVERTED FROM LANDFILL: **187.6 tons**

Customer:
Site Address:
Completion Dates:
of Projects:

Economically Beneficial	Socially Responsible	Environmentally Friendly	Asset Reutilization
reSale 52,721 lbs.	reUse 203,447 lbs.	reCycle 75,260 lbs.	reLocate 43,764 lbs.
<small>Please Note: approximate calculations.</small>	<small>Please Note: approximate calculations.</small>	<small>Please Note: as per weight ticket</small>	<small>Please Note: approximate calculations</small>

InstallNET.com · 443-274-6023

EcoServ is InstallNET's decommission strategy for excess furniture and assets that reduces environmental impact, saves money and supports those in need. Through the EcoServ program, InstallNET works to resell, donate, recycle and reuse clients' surplus furniture and assets in the most responsible way. It engages a vast network of furniture resellers, recyclers and recipient networks to ensure landfill diversion.

EcoServ takes full responsibility for all surplus assets, and focuses on providing solutions to meet customers' economic, environmental, sustainability reporting, and social goals.

Despite the pandemic, 2020 was EcoServ's most successful year to date, the company says. It completed 357 projects across the US and Canada, keeping over 3.8 million pounds out of landfill while facilitating 192 essential donations to nonprofit organizations. 🍀



Intelex – ACTS

WHAT THE JUDGES SAID...



Adding to the ability of the software to calculate emissions on a per-unit basis is a highly valuable tool. A comprehensive EHS measurement software system."

INTELEX

Intelex's Assets and Compliance Tracking System (ACTS) application is a web-based environmental management information system (EMIS) designed to help ensure compliance, increase visibility, and optimize performance in environmental management. Its breadth, depth and configurability provides value for customers as a "one-stop-shop" for any environmental compliance and sustainability needs, the company says.

ACTS helps customers monitor all types of air, water and waste regulations and subsequently report data to regulators. It integrates with source data systems, including asset management and production data systems. ACTS allows clients to have an at-a-glance view of a location that shows upcoming permit expirations with real-time proactive emissions limit monitoring. Manipulation of calculations and even emission factors can be achieved by changing a value in a dropdown. The latest enhancement to ACTS is the ability to complete batch calculations, providing flexibility to calculate emissions on any manufactured product to the exact specifications of the client. 🍃



LOLIWARE

WHAT THE JUDGES SAID...



This is one of the few disposable straw products on the market that checks off all the right sustainability choices."



The LOLIWARE straw was built on the company's foundational patented technologies which have resulted in the commercialization of seaweed-based drinking straws as replacements for petroleum-based plastic straws. It is home compostable, marine biodegradable, non-GMO, plastic-free, PLA/PHA-free, tree-free, wrapper-free, and made with natural food-grade and GRAS (FDA) ingredients, the company says. Early adopters include Marriott and Pernod Ricard; the straw was also the "official straw of the Emmy Awards" in 2019.



Unlike most paper and bioplastic straws, which often have an energy consumption nearly three times higher than plastic itself, the LOLIWARE Straw is designed to be carbon-negative at scale. This is enabled by LOLIWARE Inc.'s Double Carbon Delete Initiative (DCDI) to capture carbon on the back-end and avoid plastic-related emissions on the front-end, contributing to the global initiative of achieving net-zero by 2050, while enabling growth and socio-economic benefits to small seaweed farmers in coastal communities. 🌿

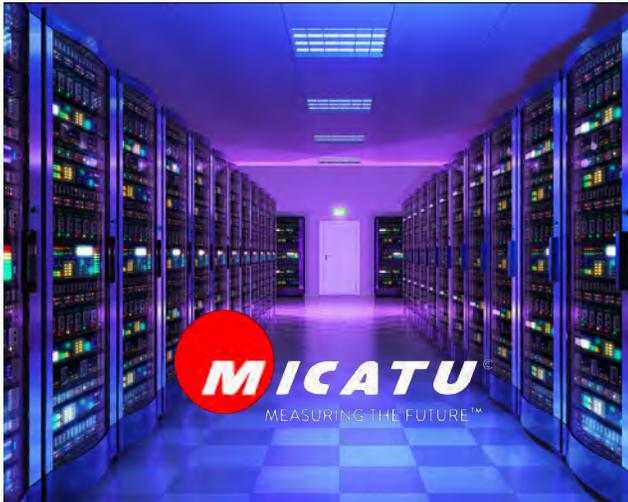


Micatu

WHAT THE JUDGES SAID...



Allows grids to deliver voltages at optimum levels, thus improving the power quality and reducing power loads on the equipment. Final outcome is reduced consumption."



DATA CENTER RELIABILITY AND POWER QUALITY MEASUREMENTS (PQM)

THE MISSING DATA IN DATACENTER UPTIME

Micatu says it is the first to commercialize an optical sensing platform for the distribution grid that measures voltage, current, vibration, harmonics, and temperature. This sensor is an optical sensor measurement solution that is electrically isolated, providing a new level of security. Since it does not pass electrons, crews can hang sensors faster, and in more areas, without compromising accuracy or creating outages. Measuring the electrical and magnetic fields directly provides highly accurate and precise measurement.

Micatu's modular optical sensors can be configured in numerous applications with fewer SKUs for utilities to purchase. Configurations include inside substations, data centers, and solar farms, as well as overhead and underground.

The product enables utilities to save up to 50% when deployed inside a substation, compared to legacy PT/CT, the company says. Beyond utilities, Micatu's sensors can be used by commercial and industrial customers, enabling them to protect sensitive computer equipment at data centers and avoid outages. 🍃



New Belgium Brewing

WHAT THE JUDGES SAID...



New Belgium Brewing has established a line in the sand for other craft and big brewers to aspire toward.”



New Belgium Brewing's Fat Tire Amber Ale is America's first certified Carbon Neutral beer, certified by SCS Global Services. Carbon Neutral certification means that New Belgium Brewing has taken significant steps to reduce its carbon footprint and has purchased carbon offsets so the greenhouse gas impact associated with the production of Fat Tire, through its entire product lifecycle, is neutral. This ensures that when consumers purchase Fat Tire, they are supporting climate action, the company says. New Belgium is also committed to 2030 Science-Based Targets that limit warming to 1.5-degree Celsius.

Carbon Neutral certification helps address a sustainability problem impacting the beer industry. Climate change drastically alters and reduces snowpack needed for river runoff, leading to inconsistent water for growing crops, and potential drought or flooding. This means a shortage of essential crops like barley and hops needed for beer production. "Socially conscious" beer improves farmers' livelihood, the quality and availability of resources in the supply chain, and the cost of ingredients to brewers, while mitigating the beer's contribution to climate change. 🌱

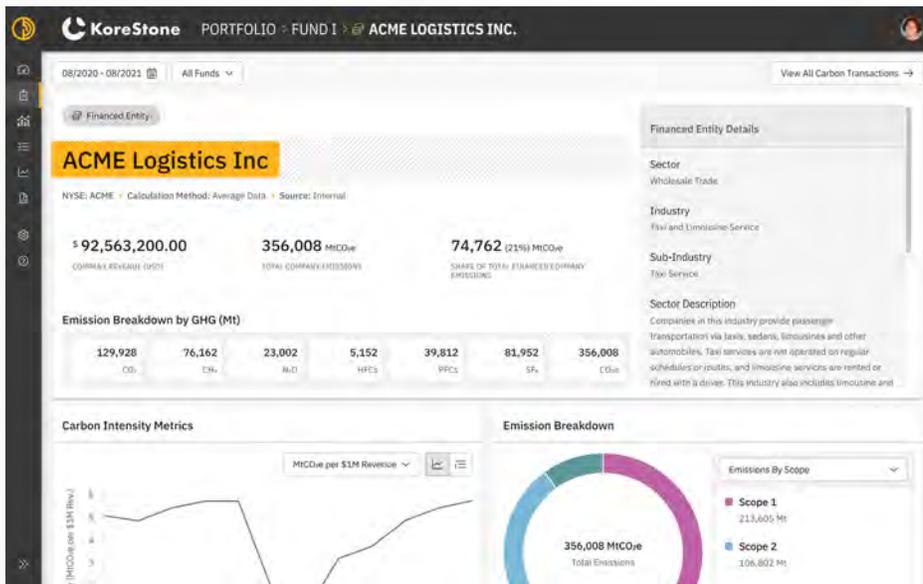


Persefoni

WHAT THE JUDGES SAID...



As more companies want to go carbon-free, it's going to take products like these to get us there."



Persefoni is an enterprise-scale platform for carbon accounting and management. The Persefoni platform enables enterprises to systematically lower the environmental impact of their operations, turning raw data aggregated across multiple business units into data-driven, actionable insights. Through the platform, enterprises will see a full map of their carbon footprint, parsed into consumption buckets – like “business travel” – that are easy to track and tackle.

Companies using the Persefoni platform gain insight into the carbon footprint they are creating, empowering them to reduce their emissions and offer more sustainable goods and services. This will drive significant impact: after investing to understand what their carbon footprint is, companies will quickly then shift investments to decarbonizing their operations. This shift results in more sustainably produced, recycled, and healthier options for consumers and businesses across every category of goods and services, the company says. 🌱



Picarro

WHAT THE JUDGES SAID...



A balanced combination of hardware, software, and data analytics that can help companies better manage assets, improve worker safety and perform well in the field with reduced environmental impact.”

The Picarro Solution is a hardware-enabled software and data analytics platform that combines mobile methane emissions measurements with geospatial analytics and visualization packages using the P-Cubed software. The Picarro Solution enables natural gas operators to manage their networks to be more safe, clean, and cost-effective than ever before, increasing capital efficiency while simultaneously reducing risk in their infrastructure.

Applications supported include:

- Leak Survey – Picarro analytics allow utilities to focus on the most important leaks, keeping backlogs under control and maximizing the risk reduction impact per dollar of expense.
- Emissions Quantification and Reduction – The Picarro solution can measure an entire gas distribution network annually, to identify and prioritize the remediation of the highest-emitting “super emitters,” resulting in annual emissions reduction exceeding 30%.
- DIMP – Pipe segments can be ranked by emissions and predicted leak density to better inform capital pipe replacement priorities, accelerating risk reduction, and providing significant O&M cost avoidance, the company says. 🍃





Sphera – EC4P

WHAT THE JUDGES SAID...



Provides an exciting one-stop-shop for meeting recycling and compliance needs for electronic waste, batteries and packaging.”

EC4P guarantees compliance with recycling regulations for WEEE (e-waste), batteries and packaging in countries across the world. In the EU there are 84 regulations with over 330 recycling schemes to choose from and in North America, over half of all US states and Canadian provinces now have some form of e-waste legislation.

In addition to providing a centralized compliance platform which maps over 350 recycling scheme reporting formats and registrations, EC4P now provides its members with a personalized ESG Metrics dashboard which

details the total weights and units the company has accounted for the recycling of using EC4P.

In 2020, EC4P helped its members account for the recycling of 7.7 million articles of electronics, batteries and packaging with a combined total weight of nearly 15,000 metric tons, and processed more than 3,000 compliance data and recycling fee payment submissions through its managed recycling compliance services, the company says. 🍃





SUEZ - Water Technologies & Solutions – Empower

WHAT THE JUDGES SAID...



“Great use of data analytics and implementation of sensors to identify inefficiencies in steam generation.”



Steam surface condensers are integral to power plants. Inefficient operation of these critical assets can lead to lost power production, increased operating costs, greater carbon dioxide emissions, and reduced profit margins.

SUEZ’s Empower is a digital advanced analytic that uses real-time asset data to accurately evaluate the performance of surface condensers in power plants, enabling operators to respond to issues more quickly and make more informed, data-driven decisions. Using raw data from SUEZ’s InSight platform, Empower analyzes the efficiency of the condenser based on inputs like

design criteria, fuel type, and cost. It then evaluates both the thermodynamic performance of the condenser, as well as the economic and environmental penalties and losses of inefficient operation to help identify the potential precursors responsible for performance degradation, and provide insight on how to mitigate these issues. Improvements can lead to better fuel and water usage and lower greenhouse gas emissions. 🌱



Tim Hortons

WHAT THE JUDGES SAID...



Outstanding results. An industry breakthrough that addresses the environmental issue of PFAS, plastics, waxes, and fluorinated chemicals.”



Traditionally, products fit the needs of supply and industry capabilities, but Tim Hortons wanted to develop a supply chain that met the needs of its product without performance sacrifices. They investigated guest sentiment on metrics such as grease resistance, temperature retention, translucency, and sustainability, and found that their previous package was made with over-engineered materials - thicker paper, with plastics and waxes, that focused on metrics like grease resistance, which research showed was less important to guests.

Working with partners, the company developed a solution that delivered stronger performance while reducing impact. The new sandwich wraps are made of 100% natural paper, with no plastics, waxes or PFAS. They use 17% less paper, and because they are thinner, 20% more can be packed in each box. The company will remove more than 400 million single-use plastics over the next year by making this change, and will save more than 400 metric tons of paper – while increasing guest satisfaction by 12% and temperature satisfaction by 10%. 🍃



Turntide Technologies



WHAT THE JUDGES SAID...

A very interesting technology with huge potential to change the motor industry."



Turntide Technologies develops breakthrough sustainability technologies that drive down energy consumption and operating costs in buildings, agriculture, and electric transport, creating a path to 100% renewable energy and business sustainability. The Turntide Smart Motor System is part of an open Platform for Sustainable Operations, driven by a patented Turntide Optimal Efficiency Motor with intelligent automation and cloud connectivity.

The Turntide Platform advances sustainability goals, saves money, and improves sustainability throughout the enterprise. Turntide's mission is to upgrade all the world's motors with their intelligent system so every watt is "worthwhile for humanity." If all the world's motors in buildings were replaced with the Smart Motor System, annual carbon emissions would be reduced by 2,300 megatons. 🌱



UL

WHAT THE JUDGES SAID...



Really elegant solution for managing data in a central location with a streamlined interface that includes multiple dashboard options."



Kick start your sustainability program with 360 Sustainability Essentials



Empowering Trust®

With the acceleration of investor interest in ESG/ sustainability data, and the setting of more stringent and ambitious targets, we've entered the next era of ESG/sustainability reporting, one that demands an ever-increasing level of investment-grade data management and expertise, UL says.

UL, specializing in sustainability data management, has created a range of solutions that can accelerate a company's sustainability program through its experience working closely with global industry leaders over the past 19 years.

The company's UL 360 software platform powers thousands of sustainability programs each year, including all of the CDP disclosures globally, and this year the company has created an updated best practice package aligned to the major frameworks, including SASB, that can be deployed in as little as six weeks with the 360 Sustainability Essentials. In-house carbon and sustainability expertise provides advisory and dedicated consultancy services. 🌱



Environment + Energy LEADER

TOP
PROJECT
2021



APP Sinar Mas

WHAT THE JUDGES SAID...



Fantastic example of transparency in the supply chain... showcases a model that can be replicated to drive similar ecosystem protection worldwide."



APP
sinarmas

Asia Pulp & Paper partnered with MDA Geospatial Services Inc. to detect and stop illegal forest clearing. Using near-real time alerts from MDA's RADARSAT-2 satellite, APP built a public online dashboard to track and respond to forest change across its supplier concessions, conservation and protected areas.



MDA's RADARSAT-2 Forest Alert Service captures forest disturbances down to a few trees, allowing APP to monitor and react to forest change caused by illegal logging or encroachment. Every 24-days, satellite data is acquired by MDA, evaluated based on historical imagery, and forwarded to APP within three working days. Data is then assessed and any needed actions are taken to stop forest clearance. All MDA Forest Alerts are publicly viewable on APP's sustainability dashboard, allowing customers to monitor and track their entire sustainable supply chain.

Since establishing this partnership, forest degradation has been reduced to under 0.06%. 🌱



ABB

WHAT THE JUDGES SAID...



ABB's corporate strategy for making their business more efficient is the kind of comprehensive strategy that other organizations can learn from."

ABB is making the company more energy efficient and sustainable across its own facilities, its operations, and its value chain, striving to use energy, water and other resources more efficiently. ABB also places great importance on creating a comfortable, healthy and safe indoor environment for employees and visitors.



Q2 2020

Nexus®Pro

Smart Emergency Lighting management system



The Green Real Estate in the US was created in November 2016 and since then the company has implemented its first PV system in the US, upgraded HVAC and lighting systems, and implemented ABB's Smart Buildings solutions in over 40 sites, covering all business areas and regions. The company used its products and solutions at its own sites to reach ABB sustainability KPIs and generate over \$3 million in cost savings. Given its commitment to become carbon neutral by 2030, the number of projects in the pipeline is only increasing, the company says. 🍃



AlphaStruxure

WHAT THE JUDGES SAID...



“Almost every fleet manager is evaluating going electric; providing a packaged solution to get there will help make it happen.”



In May 2021, AlphaStruxure and Montgomery County, Maryland, announced a groundbreaking electric-bus-charging microgrid, accelerating the county’s efforts to convert its municipal bus fleet to zero-emission. The project, Brookville Smart Energy Bus Depot, delivers sustainable, resilient, and reliable energy and infrastructure to support the growing electric bus fleet while advancing the county’s goal of net-zero carbon emissions by 2035.

By integrating solar canopies, battery storage, on-site energy generation, and charging infrastructure in an advanced microgrid, the project delivers benefits for sustainability, resilience, reliability and cost predictability. Under an innovative Energy as a Service (EaaS) approach, AlphaStruxure designs, builds, owns, and operates the infrastructure solution at no upfront cost to the county.

AlphaStruxure is a joint venture of Schneider Electric and The Carlyle Group, combining the energy technology of Schneider with the financial capabilities of Carlyle in an EaaS model serving a wide range of commercial, industrial, and public sector organizations. 🌱



Ameresco – San Joaquin

WHAT THE JUDGES SAID...



This project demonstrates excellent use of underutilized land at the Foothill Landfill site and serves as a model for what others should and could develop.”

Over the past seven years, cleantech integrator and renewable energy asset developer Ameresco has established a collaborative partnership with the officials of San Joaquin County, California. Through this ongoing relationship, Ameresco has designed, implemented and maintained two standalone projects at the Foothill Landfill. In 2014, the company developed a 4.3 MW landfill gas-to-energy (LFGTE) facility to convert the county’s waste into renewable energy. Following its success, Ameresco saw an opportunity to further offset the county’s energy costs by hundreds of thousands of dollars annually with solar

energy solutions. In 2020, Ameresco oversaw the installation of over 13,000 solar panels, capable of producing 10 million KWh of electricity, on the landfill’s underdeveloped and underutilized land, which further supported San Joaquin County’s long-term sustainability goals. Combined, the LFGTE facility and solar energy system lower emissions in the county by over 28,500 tons annually, Ameresco says. 🌱





Armstrong Flooring

WHAT THE JUDGES SAID...



A critical advance from an environmental management perspective... a simple innovation fixed a problem that had a large impact on the company's waste stream."



Armstrong Flooring redesigned its felt-backed vinyl sheet flooring product, which has been manufactured in Stillwater, Oklahoma, since 1987. The redesign, which was completed in August, 2020, replaced the traditional felt backing with a fiberglass scrim. By changing the backing, the company was able to achieve a key project objective – reduce, if not eliminate, process waste. As part of the project, Armstrong installed a new granulator to recycle sheet flooring scrap. Sheet flooring with fiberglass scrim can be recycled back into new products, unlike sheet flooring with felt scrim. By the end of 2020, the redesign project eliminated approximately 150 tons of sheet flooring process waste being sent to the landfill and improved the plant's overall annual waste recovery rate. 🌱



Carrier

WHAT THE JUDGES SAID...



The project is very useful and produced superb energy benefits and targeted environmental benefits.”



Carrier was engaged by building owner Savanna for an HVAC modernization project in the 53-story, 1.5 million-square-foot One Court Square skyscraper, which opened in Long Island City in 1990. Carrier

set ambitious targets for the new HVAC system, including reducing the system’s energy use by over half (saving 4.4 million KWh annually and 766.9 kW during peak demand), saving on energy costs by 20%, and improving air quality, comfort, and temperature control. Carrier designed a highly efficient, integrated system that included two 1,100-ton AquaEdge 19XR-E Water-Cooled Centrifugal Chillers optimized through Carrier i-Vu, a cloud-based system that can be monitored remotely.

Due to the pandemic, Carrier lost two months of work time on the building management system upgrade at One Court Square, but the Carrier team was still able to successfully complete the project in November 2020. Today the building is performing better than planned against all targets. 🍀



Chêne Bleu



WHAT THE JUDGES SAID...

Outstanding project with application across other agriculture sectors."



Award-winning French winery Chêne Bleu says it has sought to be a standard-bearer of sustainable, biodynamic and organic viticulture and winemaking methods from the start. The estate's hard-driving, ecology-minded organic and biodynamic practices are aimed at making exceptional wines while preserving the pristine natural environment but also the well-being of consumers who shun chemicals and artificial ingredients in wine. Chêne Bleu started the "SustainaBEElity" initiative to create a roadmap relevant for all wineries wishing to harness the power of bees in order to improve the quantity and quality of fine wine grapes, stop chemical pesticides and fertilizers, cut costs and increase profits, while nurturing the bee population. The winery collaborates with international bee scientists to develop the project, forest authorities to reconcile farming and forest management and biologists from the Mt Ventoux UNESCO Biosphere through a public-private partnership, instigating meaningful scientific exchanges, Chêne Bleu says. 🍷



CPower - Sunnova

WHAT THE JUDGES SAID...



The revenues generated that can be applied to future projects will keep the work going and is a solid management plan into the future."



Sunnova Energy International Inc. (NYSE: NOVA) is a leading residential solar and energy storage service provider with customers across the U.S. and its territories and among the latest renewable energy providers to participate in New England's capacity markets. CPower's demand-side energy management solution will enable Sunnova to support the utility during grid stress events by connecting its customers' energy resources to grid programs and markets to meet the region's supply needs in real time.

Under FERC Order 2222, distributed energy resources may now participate in power markets. Grid operators and regulators are increasingly looking at energy markets to incentivize more diverse, reliable sources of energy supply, unlock new revenue streams and realize sustainability goals. CPower will begin enrolling Sunnova's portfolio of distributed residential solar energy systems in the New England capacity market as early as 2021. 🍃



CyrusOne



WHAT THE JUDGES SAID...

CyrusOne's approach demonstrates creative leadership in sustainability."

CyrusOne's Chandler, Arizona, campus is the largest in its portfolio and is located in an extremely high water stress region. The company reduced its onsite water use and then partnered with the Bonneville Environmental Foundation and the Arizona Land and Water Trust to restore water flows to the region using Water Restoration Certificates (WRCs).

These certificates are generated by helping local farmers switch to high-efficiency irrigation systems, thus allowing more water to stay in natural waterways. Through these credits, the company restored 40% more water than it used in 2019, making Chandler its first net-positive water data center – the company believes it is also the first such data center in the world. This project served as a proof of concept that CyrusOne intends to expand to other facilities operating in high water stress regions. 🌱





Enel Green Power

WHAT THE JUDGES SAID...



This hybrid wind and battery storage project, when operational, will provide major environmental benefits and have a positive impact towards societal carbon reduction goals.”

Azure Sky wind + storage in Throckmorton County, Texas, the first project to combine wind and battery storage for Enel Green Power, is a solution for both businesses and the grid. The wind farm will generate and deliver new renewable energy to the grid, while the 137 MW battery, one of the largest in the world, will enhance grid resilience, the company says.



The aggregation deal that includes MilliporeSigma, Uber, Synopsis and Akamai is among the largest of its kind globally. Through this VPPA structure, it provides businesses with modest energy demand market access to procure renewable energy in a cost-effective way, while also optimizing the project’s risk-return profile. Enel Green Power’s flexible contract structures helped its partners, three of them first-time buyers, accelerate their ambitious sustainability goals, while also reducing operational expenses and managing energy price risk. 🌱



Enel X – Eaton Microgrid

WHAT THE JUDGES SAID...



Implementing a project of this scale and demonstrating that it provides the expected benefits will speed the adoption of this technology. This project is critical to proving that micro grids can work in real world, industrial applications."

Enel X and Eaton partnered for microgrid development in Puerto Rico to enable Eaton, one of Puerto Rico's largest employers, to reduce its carbon footprint and demand on local energy infrastructure while improving energy resilience. The project incorporates onsite solar generation and battery storage at Eaton's Arecibo plant, which manufactures circuit breakers used in homes, buildings and a range of industrial applications.

Enel X will build, own and operate the system on behalf of Eaton. Eaton will provide installation expertise and key technologies for the microgrid system. This microgrid, Enel X's first in Puerto Rico, will enable Eaton to generate, store and consume renewable energy, and deliver it back to the local grid while reducing stress on the regional utility infrastructure.

By working together, the companies are combining their respective unique technologies to optimize the performance of the microgrid during standard operations as well as emergency power events. 🌿





Enovity – Community Regional Medical Center in Fresno, CA

WHAT THE JUDGES SAID...



This project was clearly a success; it had some amazing energy savings, and made great changes."

Community Regional Medical Center of Fresno partnered with Enovity, a Veolia Company, to reduce operating costs and improve the sustainability of its 685-bed hospital campus. Enovity implemented energy conservation measures including retrofitting LED lighting in the surface parking lots and garage, retrocommissioning the HVAC systems in the Trauma Critical Care Building, and converting the constant-flow chilled water distribution system to variable flow. The chiller plant was further optimized for efficiency and additional cooling capacity during peak season.

The project provided annual electric energy savings of 4,435,700 kilowatt-hours (a 10% reduction) as well as 525 kilowatts of peak demand reduction and 24,455 therms of natural gas savings. This equates to annual savings of more than \$630,000 in utility costs, as well as avoided greenhouse gas emissions of 1,365 metric tons per year of CO₂ equivalent. The \$2.2-million project was completely funded by the local utility's 0% On-Bill Financing Program. 🍃





EY – Enablon ESG Metrics Collaboration

WHAT THE JUDGES SAID...



“Customers will be able to see their climate risk better because of improved information management.”



 Wolters Kluwer

enablon

Together, Ernst & Young LLP and Wolters Kluwer's Enablon have launched an ESG management and reporting solution built on the Enablon cloud software platform.

Enablon says it is believed to be the first ESG data management system to take a cross-functional approach to metrics and management and incorporate both risk and performance measurement and management.

The application is aimed at addressing investor and stakeholder demands for more informative ESG disclosures and meeting rising market need for more comprehensive risk- and performance-oriented ESG management. It incorporates a risk management module for climate risk assessment and disclosure, a robust stakeholder management and materiality assessment module and the ability to consolidate reporting and identify gaps against the latest ESG standards and norms, Enablon says. 🍀



ForeFront Power - City of Ames

WHAT THE JUDGES SAID...



Great community-driven project. The Power Packs structure is unique and creative. Early results are attractive, with the potential to exceed goals."



The City of Ames set out to develop SunSmart Ames, the city's first community solar project, to allow any municipal electric customer to opt for locally-generated solar energy by purchasing shares of the facility's production called "Power Packs." Ames City Council selected ForeFront Power to develop SunSmart Ames, representing two MW of solar energy dedicated to the local Ames community.

Each Power Pack represents 175 W of generating capacity and entitles customers to a monthly bill credit for 20 years, through a one-time investment of \$300. The Power Packs have established

solar energy as a new type of community currency, purchased and donated among a diverse mix of local community members. Over the next 20 years, the SunSmart community solar program is expected to produce enough electricity to power 440 Ames homes each year, offset 113 million car miles and reduce the city's CO2 emissions by about 57,000 tons. 🌱



ForeFront Power - County of San Luis Obispo



WHAT THE JUDGES SAID...

The goals and benefits are clear, this project is a winner!"

On the path to reduce energy costs and greenhouse gas emissions, San Luis Obispo County is striving to shift funds from electricity usage to services for the community through the installment of the county's largest solar project: a 1.2-megawatt (MW) ground-mounted solar project at the County Operations Center.

This project will generate enough electricity to avoid an additional 1,751 metric tons of CO₂. Developed by ForeFront Power, the new ground-mounted solar installation will also substantially help the county

move forward with its goal of sourcing 20% of its electricity from renewable sources. The County Operations Center solar project alone accounts for about 10% of electricity offset by renewable energy. This massive sustainability initiative for the San Luis Obispo government will provide the county with over a million dollars of energy savings over the next 20 years. 🌱





Kimberly-Clark



WHAT THE JUDGES SAID...

Innovative tactical partnerships like this can advance the renewable energy growth in consumer products and help the US be a leader in renewable power worldwide."

Maverick Creek, a 50,000-acre wind farm in Eden, Texas, owned and operated by Algonquin Power & Utilities Corp., is now powering the production of many essential products like Cottonelle, Viva, Scott and Kleenex, with more than 670,000 MWh of renewable energy annually.

The new wind farm also reduces Kimberly-Clark's greenhouse gas emissions by more than 300,000 MTCO₂e, which is equivalent to emissions from more than 71,000 passenger vehicles driven for one year, the company says. 🌿





LMCO

WHAT THE JUDGES SAID...

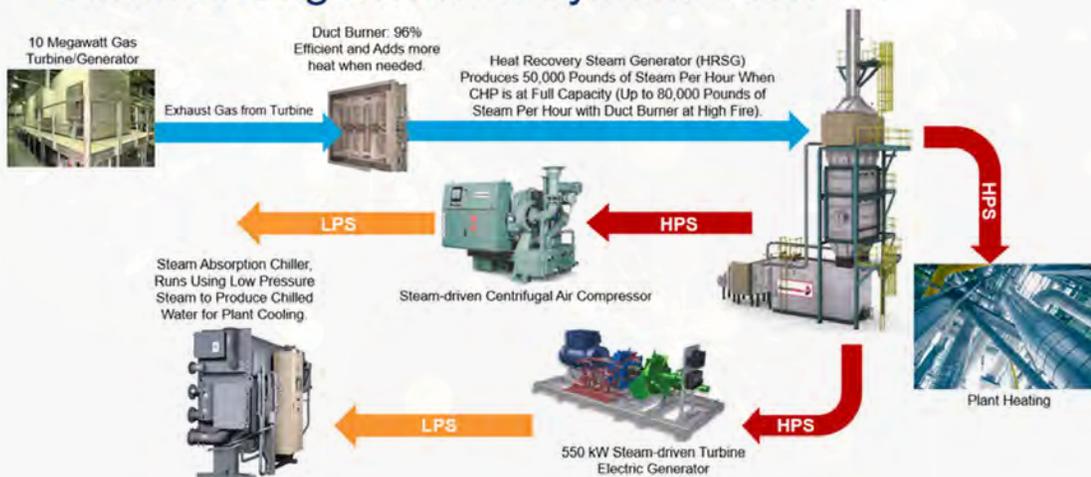


Extremely successful. Anyone would take a two-year simple payback, especially when it stabilizes their operation and provides excellent energy and emissions savings."

Lockheed Martin Sikorsky's Stratford facility upgraded an existing cogeneration system and the central utility plant to more efficiently utilize steam. The project integrated three pieces of new steam-driven equipment – a generator, an air compressor, and an absorption chiller, which culminated in 2020 with the installation of electrical infrastructure that allows the site to export electricity back to the grid.

Prior to the project Stratford was required to import electricity. That stipulation plus the installation of several energy efficiency measures meant that during times of low demand, the cogeneration system often operated precariously close to its minimum stable load. The new ability to export power allows

Stratford Cogeneration System Overview



for stable operation of the cogeneration system at all times regardless of the total load on the plant.

The project is projected to avoid 10.3M KWh/yr and \$1.6 million a year in related energy costs. 🌱



Phipps Conservatory

WHAT THE JUDGES SAID...



Innovative thinking, collaborative undertaking, beautiful aesthetics. A wonderful example of thinking outside the box on a grand scale."

Phipps' sustainability efforts include the construction of three buildings on its campus: the Center for Sustainable Landscapes (CSL), the Nature Lab and the Exhibit Staging Center (ESC). Pending the ESC's completion of the Living Building Challenge's performance period, Phipps will have three Living Future-certified buildings on one site, each representing a unique construction type – new, modular and adaptive reuse – showing the world that every building type can achieve the highest performance goals.

The CSL is one of the world's greenest buildings and the only building to achieve Living Building Challenge (LBC), LEED Platinum, WELL Platinum, SITES Platinum, FitWel 3-Star and BREEAM Outstanding certifications, Phipps says.

On a former public works yard, the Living Campus showcases the latest advancements in green building technology, transforming a dilapidated brownfield into an environment dedicated to the well-being of its occupants, visitors and the ecology of its site. 🌿





Vitro Architectural Glass and the National Aviary

WHAT THE JUDGES SAID...



Who doesn't cringe when a bird hits a window? Any product designed to reduce avian mortality has my vote. This product also has demonstrated energy performance data to back up its claims."



Architects and legislators are beginning to acknowledge that protecting birds from crashing into buildings is as significant to environmental responsibility as reducing waste, energy and water use. Walker Glass and Vitro Glass have partnered since 2015 to offer architects a range of high-performance, energy-efficient low-e glasses with multiple scientifically proven bird-friendly decorative patterns.

Recently, the two companies teamed up with experts at The National Aviary in Pittsburgh to design and install bird-friendly glass on two projects: the renovation of the bird zoo's popular Tropical Rainforest exhibit and the construction of its new Garden Room meeting and event venue.

With bird-conscious design becoming more prevalent, the two projects illustrate how architects and building owners can unite the conservationist values with the practical considerations of designing, constructing and operating a beautiful, environmentally sustainable building. 🌿



PowerSecure

WHAT THE JUDGES SAID...



This successful Smart Neighborhood microgrid project is paving the way for the future of neighborhoods and worth replicating on other new residential projects."



PowerSecure designed, engineered, and deployed Alabama Power's Smart Neighborhood located in Hoover, Alabama. The community was built as part of Southern Company's research initiative to determine what neighborhood and smart home automation could look like in 2040. The concept of the Smart Neighborhood is designed to study distributed energy resources in the residential market and demonstrate how these assets

work with the existing electrical grid. The neighborhood is powered by an advanced community-scale microgrid executed by PowerSecure, which integrates a 330kW ground-mount solar PV array, a 400kW natural-gas generator, and a two-plus hour, 300kW lithium-ion battery storage system.

The microgrid provides solar energy to the community during normal conditions and seamlessly powers the community during outages. By integrating advanced home construction methods, smart home automation, and distributed energy resources, Southern Company and its operating companies can shift to optimize its customers' ever-changing energy needs. 🌱





Procter & Gamble

WHAT THE JUDGES SAID...



Inspiring to see large companies like Procter & Gamble leading the way to begin working toward restoration of natural resources in a big way.”

Wildfire restoration is more important than ever, given the intensity and magnitude of the 2018 and 2020 California wildfire seasons. Procter & Gamble, along with its brand Charmin, believes that “together we can make a difference,” and has been closely collaborating with the Arbor Day Foundation to plant nearly 500,000 trees through the California Wildfire Restoration project, catalyzing other corporate partners toward the goal of two million trees planted together.

Over 40 years, this project will translate to major impact to the environment, including 912 million gallons of water filtered and over 51,000 tons of air pollutants absorbed. Stakeholders ranging from forest landowners to planting partners have remarked about the long-term positive impact the work has had and will continue to have into the future. P&G knows that forests and trees are fundamental to healthy and sustainable cities and surrounding areas and yield benefits for generations to come, the company says. 🌱





RES

WHAT THE JUDGES SAID...



Great results from a project scope that has been scaled from multiple similar previous successful installations."

Southern Oak is a 160-megawatt solar project developed by Invenergy and constructed by RES (Renewable Energy Systems). Located in Mitchell County, Georgia, Southern Oak was one of the largest solar projects in North America to use bifacial solar panels at the time of completion. This technology produces solar power from both sides of a solar panel, thereby increasing total energy efficiency and generation.

Construction of Southern Oak began in 2018 with RES serving as the EPC contractor, directing construction of roads, inverters, MV and DC collection, piles, trackers, modules, substations, transmission lines, fencing, SCADA and security for the project. Over 400 workers were employed at peak construction.

This project showcases the future of solar technology, the company says. As the deployment of bifacial solar projects accelerates, so too must the industry's understanding of how to design and build systems that play to the technology's main strengths. 🍃





Schneider Electric - Gigaton

WHAT THE JUDGES SAID...



I wish I could give a higher score on this project as it is a game-changer in the world of renewable energy."



Transitioning to renewable energy is often the biggest lever a company has to reduce its greenhouse gas emissions. In September 2020, Schneider Electric announced a collaboration with Walmart that will provide increased access to renewable energy for Walmart's US-based suppliers, enabling them to lead on climate action.

The initiative, called the Gigaton PPA (GPPA) Program, directly supports Walmart's Project Gigaton, which aims to avoid one gigaton (one billion metric tons) of carbon dioxide from Walmart's global value chain by 2030.

The GPPA program is designed to educate Walmart suppliers about renewable energy purchases and accelerate renewable energy adoption by participating suppliers. It will enable Walmart suppliers to join a first-of-its kind, aggregated approach to collective contracting for renewable energy, giving suppliers who may not otherwise be able to participate in the market access to utility-scale PPAs. 🌱



Schneider Electric – MoodyAFB

WHAT THE JUDGES SAID...



A cost effective solution that provides a roadmap for longer-term savings opportunities. Results are impressive and scalable.”

Federal entities are continuously looking to improve energy resilience. Through an energy savings performance contract (ESPC) with Schneider Electric, Moody Air Force Base accelerated its resilience plan with a comprehensive energy infrastructure project to modernize two million square feet in more than 60 buildings, creating \$21 million in utility and operational savings over 23 years.

The project incorporates renewable energy alternatives, including 2.5 megawatts of clean electrical power that directly offsets a portion of the installation’s utility bill, enables the base to go partially off grid in the event of a disruption, and keeps critical operations online to maintain safety and security. The solar energy generated also allows the base to defer current energy sourced from nuclear, coal and gas for a more sustainable alternative.

Moody Air Force Base’s project is part of the Department of Defense’s broader strategy for mission-critical resilience and energy independence to ensure mission readiness. 🍃





Stanley Black & Decker

WHAT THE JUDGES SAID...



Yet another astounding effort by corporate America to become sustainable and to reduce GHG emission while helping in the fight to avert climate change."

Stanley Black & Decker has committed to becoming carbon positive across operations by 2030. As part of this journey, it is investing in developing on-site solar.

In 2020, the company completed three of these early investment solar projects in Qidong, China, Holliston, Massachusetts and Thailand. All of its sustainability efforts, like the solar projects, are driven by its ECOSMART initiative – a company-wide effort to embed sustainability into operations and reduce overall environmental impact.



Each year, the company's manufacturing and distribution centers can bid for central ECOSMART funding for projects that support energy efficiency, carbon reduction, waste optimization and sustainable water use. Currently, the company has an additional seven ECOSMART solar projects being evaluated, which have a potential to reduce carbon emissions by an additional 35,000 metric tons. 🌱



T-Mobile

WHAT THE JUDGES SAID...



They seem to not only have addressed their own operations but also invested in customer education and public policy advocacy. A trifecta!”

In 2020, T-Mobile doubled down on its commitment to 100% renewable energy, Stephanie Owen, VP, Technology Procurement & Business Operations at T-Mobile says. Using a diversified portfolio approach, T-Mobile signed several agreements in both solar and wind renewable categories. The company launched three wind and two solar farms and is considering REC purchase options where necessary. The company has aggressively driven toward cutting building emissions with building-automation systems, controls and best energy-efficiency practices. For example, building controls and energy-monitoring solutions in stores are estimated to save 15% to 20% of energy across the entire retail portfolio, along with an

additional \$1 million in annual maintenance savings.

In 2020, the company used over 1.7 million MWh of renewable energy and has six utility scale renewable energy projects operational, with three more on the way. Overall, the company reduced energy intensity by 8%, carbon intensity by 21% and Scope 1 and 2 emissions by 7%, compared to 2019, Chad Wilkerson, Director of Sustainability and Infrastructure at T-Mobile says. 🌱





Terracycle

WHAT THE JUDGES SAID...



Brilliant and timely. Addresses an unexpected and enormous waste stream (non-recyclable Personal Protective Equipment) that exploded in volume overnight due to the pandemic."



In the wake of COVID-19, we've become dependent on the protection afforded by single-use, typically unrecyclable personal protective equipment (PPE). It's become synonymous with our house keys and cell phones - we feel naked leaving the house without it. Consequently, global consumption of PPE has exploded. Under the best possible circumstances this waste is sent to overcrowded landfills after disposal and at worst, it is littered on the ground where it can make its way into marine environments and pose a hazard to wildlife.

To address this unintended public health crisis, TerraCycle, a company specializing in the collection and repurposing of hard-to-recycle post-consumer waste, developed a state-of-the-art recycling solution to collect PPE waste, break it down and use the resulting material to create new items such

as plastic shipping pallets or outdoor furniture. TerraCycle recycles PPE waste through its Zero Waste Box, Regulated Waste, and Bulk Pickup Services. 🌱



Veolia North America



WHAT THE JUDGES SAID...

It is innovative, has substantial benefits and creates new milestones for wind farms."

Green power generation is vitally important to a low carbon future. Great strides have been made in the adoption and siting of wind turbine farms while the technology of the turbines themselves has continued to improve efficiency and power output per unit. One area that until recently had not been addressed is how to deal with end-of-life turbine blades in an environmentally sustainable manner.

Veolia North America has pioneered the repurposing/recycling of blades into feedstock for the co-processing of cement. Blades are sized for processing and shipment on location at the windfarm. These materials are then processed for a final time at its facility in Louisiana, Missouri, to become Repurposed Engineered Materials (REM). The product is shipped to cement kilns where it is used to replace coal for energy and displaces sand and clay as raw materials. This process reduces greenhouse gas emissions, helping to decarbonize cement production. 🌱





Wärtsilä Energy

WHAT THE JUDGES SAID...



Has the potential to make renewable energy a larger and more reliable percentage of the electric grid supply. Very helpful in meeting both environmental and energy needs."

Wärtsilä Energy Storage & Optimisation is working with Pivot Power, an EDF Renewables company, to deploy utility-scale energy storage and support the development of the first-ever national network of transmission-connected, grid-scale batteries and electric vehicle charging infrastructure.

Each 50 MW energy storage system in the network – with two currently outside of London – employs Wärtsilä Energy's advanced GEMS Digital Energy Platform, which leverages AI and machine learning to intelligently manage energy storage systems for multi-application solutions.



Wärtsilä Energy's projects with Pivot Power are a model for the infrastructure needed to accommodate the projected growth of electric vehicles in the UK and can be replicated around the world. The projects will provide essential capacity to future-proof the electricity network and support a cost-effective, reliable and low-carbon energy system, enabling the needed flexibility and reliability to support a higher share of renewables integration into the National Grid network. 🌱

MEET THE JUDGES



2021 JUDGING PANEL



Teresa Alvarado
*Principal, Morado
Consulting*

Teresa Alvarado is Principal of Morado Consulting. She works closely with executive leaders, boards of directors and key stakeholders to shape more resilient and successful companies and thriving communities. Alvarado is a prominent Silicon Valley leader with particular expertise in the energy and water sectors. She is a recognized thought-leader on infrastructure, environment, public policy, crisis and change management, and social impact.

Teresa serves as a Gubernatorial appointee and chair of the California Water Commission, a public body which serves as the primary public forum for discussing water issues, advises the Director of the Department of Water Resources, oversees the construction and operation of the State Water Project and distributes \$2.7 billion for the public benefits of water storage projects. Teresa has served on over 30 government and non-profit boards at the local, regional and state level. These currently include the Silicon Valley Leadership Group Foundation, Parks California and Archbishop Mitty High School. She previously served on the Silicon Valley (Pandemic) Recovery Roundtable and San Francisco Bay Conservation and Development Commission.

Alvarado holds an M.S. degree in civil and environmental engineering from Tufts University, a B.S. degree in environmental studies and a Minor degree in technical writing from San Jose State University. She is a graduate of the Tuck at Dartmouth College's "Brand and Reputation" and the Harvard Kennedy School of Government's "Women and Power: Leadership in a New World" executive education programs. She is an American Leadership Forum Silicon Valley senior fellow.



Glen Anderson
President
ETC Group, LLC

Glen Anderson, P.E. is a President of ETC Group, LLC, an international engineering firm dedicated to improving energy efficiency in commercial and industrial facilities. He has 25 years of experience with analysis and optimization of chiller plants, building air and water-side HVAC systems, process cooling and refrigeration. Glen has analyzed and managed the upgrades of central cooling plants for over 50 facilities ranging from resort casinos to hospitals to manufacturing facilities. Glen has particular expertise in on-going commissioning for customers using BuildingFit powered by SkySpark. This entails performance maintenance of mechanical systems following efficiency projects and continuously identifying additional opportunities.

2021 JUDGING PANEL



Amy Bond
*Sustainability
Sourcing Manager*
T-Mobile

Amy was selected as one of the top 100 energy professionals in the country in 2019 by Environmental Leader. The award recognizes “movers and shakers who are helping all of us drive innovation in the environmental and energy management space”. Amy is the former Energy and Sustainability Program Manager for Sprint and is now a sustainability sourcing manager for the new T-Mobile, where she continues to drive innovation.

Her expertise includes clean energy power and utilities procurement, waste diversion strategies, corporate goal positioning, growing green transportation access, carbon disclosure leadership, and securing Sprint’s very first Virtual Power Purchase Agreements.

Amy is a graduate of the University of Kansas with a degree in Psychology and last year earned her certification for Supply Chain Procurement, Logistics, and Negotiation from the university. She is also certified in CDP and GRI reporting and will complete her MBA this Summer.

Prior to her “green” career, Amy was an award-winning weekly newspaper publisher and columnist in Washington State. She has also served as a marketing professional and special events coordinator.



Kirby Brendsel
Welltower Inc.

Kirby Brendsel leads Welltower Inc.’s (a real estate investment trust) strategic sustainability and ESG (Environmental, Social, and Governance) initiatives. Prior to joining Welltower in 2019, Mr. Brendsel worked at Nuveen as a Director of Responsible Investing. Before Nuveen, he served as Associate Director of Sustainability for Starwood Hotel & Resorts Worldwide, where he supported the strategy, integration and management of Starwood’s sustainability program and worked collaboratively with the community programs/Starwood Foundation team on CSR (Corporate Social Responsibility) strategy and reporting. Previously, Mr. Brendsel consulted for Deloitte where he assisted in the creation of Deloitte’s Federal Sustainability practice and Diversity & Inclusion program. Mr. Brendsel’s other past roles include active duty service as a Military Intelligence Corps Major in the U.S. Army.

Mr. Brendsel graduated with distinction and honors from the College of William and Mary with a B.A. in Business and the Jones Graduate School of Management at Rice University with an M.B.A. He is a certified Project Management Professional (PMP) from the Project Management Institute (PMI), U.S. Green Building Council (USGBC) LEED Green Associate (GA), and Lean Six Sigma Yellow Belt. Mr. Brendsel was recently recognized as an Honoree for 2020 by Environment + Energy Leader’s annual “best of” list of environment and energy professionals - the E+E 100.

Mr. Brendsel is active in his local community, where he serves on the Board of Directors of the Aspetuck Land Trust and Lachat Town Farm Commission as well as on the Town of Weston’s Sustainability Committee, Parks & Recreation Commission, and Historical Society.

2021 JUDGING PANEL



Paul Campbell

VP Business Development

Innovative Executive Leader with 30+ years of diverse experience in strategic business development, account management, program execution, operations, and Six Sigma quality system implementation. Currently Director, Energy & Sustainability Marketing at ICF International. Previously sixteen years at Sears: Trained in disaster response/recovery in Puerto Rico post Hurricanes Irma and Maria. Created and scaled an industry-recognized disaster recovery business model. Collaborative playbook execution led to the installation of 350 solar powered battery back-up energy systems in Puerto Rico, St Thomas, and St. Croix. Developed strategy/facilitated multiple business teams while pursuing leadership in sustainability, governance, and energy efficiency for Sears/Kmart and their customers. Optimized strategic sustainability partnerships across retailers, trade organizations, consultants, manufacturers, regulators, and EPA/DOE. Trained in Six Sigma at GE. Achieved Master Blackbelt status while training others and completing 20 manufacturing projects in plastics division and at customer production sites. Lives in Chicago.



Elena Villarreal Daniel

CP Group

Elena Daniel has recently joined CP Group as Director of Environmental, Social and Governance. She is a past Vice President of ESG & Corporate Affairs for CenterPoint Properties. In that role, she was responsible for overseeing corporate affairs and environmental, social and governance (ESG) initiatives. With over 19 years in the development, construction, investment and asset management industry, Elena has also held leadership positions with Lendlease and Cushman & Wakefield. Elena received her MBA from Roosevelt University and a bachelor's degree in marketing at the University of Wisconsin - La Crosse, and has completed executive education with INSEAD - World School of Business Executive Leadership Program and Northwestern's Kellogg School of Management. As an active member of the business community, Elena also serves as Board of Directors for the Greater Oak Brook Chamber of Commerce and Roosevelt University - Heller School of Management Alumni

Board and is a member of the American Marketing Association, United States Green Building Council, Illinois Green Alliance and Urban Land Institute Greenprint Center for Building Performance. Most recent accolade included selection by Environment + Energy Leader as 2020 Annual Environment & Energy Leader (E+E) 100 Honoree.

2021 JUDGING PANEL



Kirby Dipert
Field Engineer
TRC

Dipert has a broad background in energy efficient endeavors as part of his career in commercial and industrial HVAC sales, management, and marketing. He has helped high-level clients such as GM, Siemens, Bayer, and AM General not only save energy but reduce their carbon footprint via a variety of capital improvement projects within their operations.

Dipert's main passion in sustainable strategies is renewable energy and he was honored to be selected to complete the NREL Energy Exec program in Golden, Colorado, in 2017. He was also named an Environment + Energy Leader Top 100 Honoree in 2019. He continues to deepen his understanding of climate change and recently completed a private in-depth study of CCUS (Carbon Capture and Utilizations Strategies).

In his role as field engineer for TRC, Dipert works primarily on TRC's Commercial and Industrial Energy Efficiency program supporting the local publicly owned utility NIPSCO.



Justin Grau
Ecolab (NALCO)

Justin has an extensive background in power production, energy management, and water treatment.

Over his 20+ year career, he has been involved in maintenance, operations, engineering and consulting in power plants and different types of manufacturing industries. Through those years, he has gained a healthy respect for the need for energy and water management and has spent the last decade of his career focused on identifying and implementing economically beneficial projects resulting in energy and water savings.

One of his proudest accomplishments is leading a cross-functional team at a fortune 500 manufacturing company that lead to converting 2 large manufacturing plants to 100% green energy.

2021 JUDGING PANEL



Kyle Gumto
*Consultant on Energy
and Sustainability*

Kyle Gumto is a Consultant on Energy and Sustainability. In his previous position with Cardinal Health he provided subject matter expertise on energy purchasing, renewable energy projects, energy efficiency projects, Greenhouse Gas emissions, environmental sustainability initiatives, and external sustainability reporting. He identifies and promotes projects with triple bottom line business perspectives with social, environmental, and financial value.

Kyle holds an MBA, a MS in Environmental Studies, a BS in Industrial Hygiene, and a BS in Environmental Health all from Ohio University. He serves on multiple advisory boards focused on energy and sustainability. He is a proud Eagle Scout, a honoree of the 2018 Environmental Leader 75, and a graduate of the 2018 US DOE National Renewable Energy Laboratory (NREL) Executive Energy Leadership Program.



Jeff King
*Sr. Director
Global Sustainability
and Social Impact
The Hershey Company*

Jeff King is the Sr. Director for Global Sustainability and Social Impact for the Hershey Company. In this position he is responsible for Hershey's environmental sustainability, human rights policies and practices, farmer livelihoods programming, ESG reporting, philanthropic giving and community programs, as well as leading Hershey's commitment to giving children the best chance to succeed through The Heartwarming Project which focuses on developing youths' ability to connect and form social connections. Additionally, he led building Hershey's Energize Learning program in Ghana, opening a factory that produces the nutritional supplement snack 'ViVi', that supports the health and nutrition of Ghanaian children through a partnership with the Ghana School Feeding Program.

Prior to this position King has held various commercial roles, most recently responsible for the strategic direction and regional execution for the Hershey Company's two biggest franchises, as the Sr. Director Global Hershey and Reese's.

He has also been the Director of Disruptive Innovation expanding the company innovation portfolio into new businesses and business models. He has also been Sr. Brand Manager for the U.S. Reese's Franchise, where he was responsible for managing all brand activities for the \$1.2 billion Reese's franchise.

King joined the Hershey Company in 2008 from Procter and Gamble, where he held multiple marketing roles of increasing responsibility across brand management, innovation, and shopper marketing. While at P&G, he was noted for restoring growth to P&G's original brand, Ivory soap, reversing decades of decline.

He has a BBA for the University of Toledo, and a MBA from Indiana University.

2021 JUDGING PANEL



Ben Larkey
BAL Associates

Ben Larkey has been a Corporate Social Responsibility (CSR) and Sustainability professional for more than 30 years with varied organizations including government, NGO and Fortune 500 corporations.

As a CSR Manager for global programs, he improved sustainability / energy and compliance programs and won 12 national environmental awards for companies including Canon, Verizon and Sharp.

Ben has been recommended as an effective manager with success in varied sectors including retail with customer service, corporate responsibility, compliance, EHS and sustainability programs: business development, risk management, optimal resource use (teams, supply chain; zero waste; energy conservation and renewables; water) and continual improvement.

He is proactive, and had creative success with compliance; organizational development; planning; management of complex programs / teams and facility operations; metrics / reporting; training; public relations & marketing; research & development; and cost reduction.

Ben has also authored articles in publications including Sustainability Journal, and participated as a speaker in trade show panels and meetings, including Net Impact; and academic sustainability programs including Rensselaer Polytechnic Institute and Pace University Law School.

He is also a musician and privileged to have been a caregiver for family members intermittently since 2007.



Fairuz Loutfi
*Circular Economy and Energy
Efficiency Manager*
*World Resources Institute
(WRI) Mexico.*

Fairuz is the Circular Economy and Energy Efficiency Manager at the World Resources Institute (WRI) Mexico. She is responsible for collaborating in the development of projects and studies on energy efficiency, circular economy and plastics waste management, as well as coordinating the activities of the Building Efficiency Accelerator (BEA) of the UN Sustainable Energy for All (SEforALL) global initiative.

Before joining WRI, she served as Technical Advisor in the energy efficiency component of the Sustainable Energy Program of the German Cooperation for Sustainable Development (GIZ) in Mexico. She has been a lecturer at Universidad Iberoamericana, Mexico City and Research Associate at the Yale Center for Business and the Environment (CBEY) and at the Center for Industrial Ecology (CIE) at Yale University. In 2018 she was selected to participate in the UNLEASH Global Innovation Lab for the SDGs program in Singapore and in 2015 she was an EDF Climate Corps Fellow at the company Legrand North America.

She attended the COP21 climate change conference as member of the UN Economic Commission for Latin America and the Caribbean (ECLAC) delegation in Paris, France. From 2010 to 2014 she worked as Advisor to the Undersecretary of Electricity at Mexico's Secretariat of Energy.

Fairuz graduated with honors from Universidad Iberoamericana, Mexico City with a bachelor's degree in Mechatronics and Production Engineering and she holds a Master of Environmental Management degree with specialization in Energy and the Environment from the Yale School of the Environment (YSE, former F&ES) at Yale University.

2021 JUDGING PANEL



Jennifer Mangold, PhD
*Director of Fung Fellowship
for Technology Innovations at
UC Berkeley*

*Senior Advisor, Women in
Tech Initiative at UC*

Experienced consultant, researcher, and educator, Jennifer has been working in sustainability, design, innovation, and social impact for over a decade. She is the Director of the Fung Fellowship for Technology Innovations at the University of California Berkeley as part of the team who launched the program in 2016. The Fung Fellowship is an entrepreneurship and innovation program that connects diverse undergraduate students with community and industry partners to address social impact challenges in both the health and conservation fields. She served as the Interim Director and now Senior Advisor for the Women in Technology Initiative at UC; committed to addressing the disproportionate participation of women in engineering and computer science.

She is a founding partner of Matter Labs, a research firm focused on sustainability strategy across industry sectors. She has conducted research in sustainable design and manufacturing for over 15 years and has experience with life cycle assessment, metrics development, alternative energy and energy efficient technologies, and impact assessment of products, processes, and services. Previously she developed methods to aid Google designers in sustainable material selection and was the lead researcher in the electronics sector at The Sustainability Consortium, a global non-profit working to transform the consumer goods industry. Jennifer is an experienced educator who has taught sustainable manufacturing to graduate students, led faculty curriculum workshops, and developed and implemented engineering curricula in Berkeley and Oakland middle schools. Her industry experience includes the Global Environmental Materials team at Hewlett Packard and as a process engineer at Nissan North America. Jennifer holds a Ph.D. and M.S. in mechanical engineering from University of California, Berkeley and B.S. in mechanical engineering from University of Tennessee.



Charles McEwen
*GEMS Program Manager
Atlanta Veterans Health Care
Administration*

McEwen has over twenty years of combined professional experience in Industrial Hygiene, Environmental Health and Safety (EH&S) compliance, and Biological Safety. McEwen currently serves as a GEMS Program Manager for the Atlanta Veterans Health Care Administration. In this role, McEwen manages a 26-acre main campus and 22 Community Based Outpatient Clinics throughout metro Atlanta. The Green Environmental Management System (GEMS) utilizes ISO 14001 standards to manage the facilities environmental sustainability and environmental programs compliance. McEwen is the facility Subject Matter Expert (SME) to ensure compliance with all local, State, and Federal Environmental Laws and Regulations are followed. Over the past several years the Atlanta VAHCS GEMS program has received National recognition for winning Environmental and Sustainability Awards from the Environmental Protection Agency (EPA). He has also established industry best practices and won numerous National Environmental and Sustainability awards from various organizations.

2021 JUDGING PANEL



David Meyer

Senior Consultant

BSI EHS Services and Solutions

Dave Meyer is a Senior Consultant with BSI EHS Services and Solutions, a full service environmental, health, safety (EHS) and sustainability consulting firm. Dave's principal focus is to help organizations achieve environmental sustainability program excellence, leverage regulatory compliance risks, and optimize organizational effectiveness. Dave has over 35 years of progressive experience in environmental sustainability, environmental performance and metrics, responsible sourcing and green supply chain management, corporate responsibility EHS management systems planning and implementation (ISO 14001, OHSAS 18001), permitting and multi-media compliance and environmental liability auditing.

Dave's expertise extends across many industry sectors: renewable energy, clean tech, food & beverage, semiconductor, consumer electronics, chemicals/plastics, pharma/biotech, mining, oil/gas, aerospace, forest products, transportation, public works, transportation, financial, legal and government. Dave is presently an advisory board member for the Sustainable Business Forum and 2Degrees Network Sustainable Supply Chain Working Group and is a co-editor for Sustainable Brands Supply Chain Issues Focus Series.

BSI EHS Services and Solutions provides a comprehensive range of strategic, management and technical consulting solutions – assessment, compliance, risk management, reporting, training, communication and more – partnering with clients to achieve their environmental, health, safety and sustainability short-term needs and long-term goals.



Thomas Pagliuco

Executive Director, Global Energy Engineering

AbbVie (Allergan)

Tom Pagliuco is currently Executive Director of Global Energy Engineering at AbbVie (Allergan), where he manages the Energy Management Program across a global portfolio of facilities.

Prior to this assignment, he developed, implemented and managed the Allergan, Merck and Schering-Plough global energy programs. The Allergan, Merck, and S-P energy management programs have been recognized by ENERGY STAR as Partners of the Year. Tom was the recipient of a 2008 S-P Environmental Achievement Award for his advocacy for energy excellence, received the 2014 EnergySMART Energy Innovator Award and was named a 2017 Energy Manager Today 50 and 2020 Environment + Energy Leader 100. Tom was also responsible for implementing the global sourcing strategy for electricity, natural gas and other fuels. He continues to evaluate the feasibility of using renewable energy technologies across the corporation, and while at S-P he was instrumental in completing one of the largest rooftop mounted solar electric systems in the United States.

Mr. Pagliuco has over 40 years of industry experience with roles of increasing responsibility. He joined AbbVie/Allergan in 2015, coming from Merck/Schering-Plough where he spent nine years. Prior to Merck/S-P he was in the Energy Services business, working for Prenova, Inc. and Enron Energy Services, responsible for energy project development. His career started in chemicals where he held several engineering and technology management roles at Rhodia (Rhone-Poulenc) Inc and Union Carbide Agricultural Products.

Tom received his undergraduate degree from the State University of New York at Buffalo, where he majored in Chemical Engineering.

2021 JUDGING PANEL



Susan Pinera
*SBM Management
Services*

Sue Pinera is a seasoned professional with over 35 years of experience working for major global organizations providing environmental and sustainability support across business lines. Pinera has developed strategic programs and procedures that meet corporate objectives and goals in the areas of zero waste, energy consumption, employee awareness, recycling, waste management, building certifications, water conservation, greenhouse gas inventory, renewable energy and regulatory compliance. Presently, Pinera is responsible for supporting SBM's customers in the eastern region of the US developing and implementing data driven programs in recycling, composting, waste reduction, communications, and green cleaning with an emphasis on developing innovative waste management solutions in lab, manufacturing and office environments; focusing on creative and sustainable outlets for hard to recycle plastics. Pinera also supports these organizations in achieving TRUE zero waste, LEED and Fitwel certifications.

Prior to working for SBM, Sue held corporate sustainability roles at The Hertz Corporation and Samsung Electronics of America.

Pinera holds a Master of Arts in Sustainability Studies, a Master of Science in Environmental Resource Management and a Bachelor of Science in Environmental Resource Management. Pinera has also received her Certificate in Sustainable Resource Management (CSRМ) and is a certified TRUE Advisor supporting USGBCI's Zero Waste program.



Mary Jo Press
*Global Safety Center of
Excellence Management,
Tesla*

Mary Jo Press is currently employed in Global EHS at Tesla and is the Secretary of the Board of Directors for the Sustainability Management Association.

She is proud of driving performance in automotive, large food, beverage, tobacco, and packaging industries. Mergers and acquisition management as well as emergency response and recovery have helped her connect her work skills with her personal desire to help others. Her global experience has triggered her desire for balanced corporate social responsibility and sustainability, particularly the need to address the entire life cycle of a system. Her recent move to Tesla allows her to responsibly pursue a safe and sustainable community in the Native American tradition of not depleting the earth and spirit of our global community.

Mary Jo has a desire to see others learn and grow. She has taught environmental management for the community college system as an adjunct professor, served on professional national leadership committees and mentored other safety professionals through the American Society of Safety Engineers. Mary Jo is a Sustainability Management Certified Professional (SMCP), a Certified Fire Protection Specialist (CFPS) and holds a Global Safety Professional Certificate (GSP). She is a graduate in Chemistry from North Carolina State and has an MS degree in Occupational Safety and Health from Columbia Southern University where she graduated with honors and induction into Sigma Alpha Pi Honor Society - National Society of Leadership and Success.

2021 JUDGING PANEL



Aaron Shaffer

*Managing Director of
Facilities and Energy*

Aspen Skiing Company

Aaron Shaffer is the Managing Director of Facilities and Energy for the Aspen Skiing Company where he oversees facilities and projects from conceptual programming through construction and then all the way to the end of their life cycle. He has been in the industry for 13 years and excels at balancing sustainability, efficiency, quality and reality.

Aaron resides in Glenwood Springs, CO with his wife Caitlyn and two boys. He loves skiing and lives for archery hunting.



Aaron Stainthorp

Sustainability Manager

Jackson Family Wines

Aaron Schreiber-Stainthorp is the Sustainability Manager at Jackson Family Wines (JFW). In his role at JFW, Stainthorp focuses on implementing systems that drive transformational change with an emphasis on science-based climate solutions, energy efficiency, renewable energy, water conservation, zero waste and employee engagement. Using a data driven approach to identifying opportunities and guide decision making, Stainthorp has worked to make sustainability synonymous with innovation and continuous improvement.

In addition to his work at JFW, Stainthorp also runs a small consulting firm, Sustainability Squared, which focuses on embedding sustainability in the food and beverage industry. Stainthorp is also a board member with the Center for Climate Protection, focused on speed and scale GHG policy solutions in California.

Stainthorp has spent 6 years working in the wine industry, and previously led sustainability efforts at Francis Ford Coppola Winery resulting in their 2017 Sustainable Winemaking Leadership Award from the California Sustainable Winegrowing Alliance. In 2020, Stainthorp was recognized as a top environmental leader receiving the Environmental and Energy Leader 100 award. Prior to working in wine, Stainthorp managed energy efficiency education programs at the Alliance to Save Energy. Working with schools nationwide he developed energy efficiency programs that trained 30,000 students, resulting in measurable energy savings of over \$3.4 million at participating schools.

Stainthorp has an MS in Sustainability Management from the Kogod School of Business at American University, a BS from Northland College and is a former EDF Climate Corps Fellow. When not looking for ways to reduce water and energy use, you can find Stainthorp riding his bike around Sonoma County, or backpacking around Northern California.

2021 JUDGING PANEL



Travis Solberg
Solberg Manufacturing

Travis Solberg has lead Solberg MFG in Itasca, IL sustainability since January 2009. Solberg MFG is a two-time Illinois Governor's Sustainability Award and Real Leaders Impact Awards winner. They have won a number of other environmental awards including the Environment and Energy Leader Honoree and B Corporation Best for the Environment. He is determined to continuously make the world a better place through his family business and their network of professionals in a variety of environmental and community interests.



Cyril Toussaint
NYC Health + Hospitals

Cyril Toussaint led the Energy Management and Sustainability Division in the Office of Facilities Development at NYC Health + Hospitals (NYC H+H) for over 10 years. NYC Health + Hospitals is the largest integrated municipal healthcare system in the United States. NYC H+H is a network of eleven (11) hospitals, trauma centers, neighborhood health centers, nursing homes, and post-acute care centers, totaling over 21 million square feet.

Mr. Toussaint spearheaded the implementation and improvement of energy efficiency and operational processes, aimed at ensuring that the Public Health Care System achieves its Mayoral mandate to reduce Greenhouse Gas (GHG) emissions by 80% by 2050. In 2017, Mr. Toussaint received the Association of Energy Engineer's (AEE) Region I Energy Manager of the Year Award for 2017 and in 2019, he accepted Region I Innovative Energy Project of the year Award on behalf of NYC Health + Hospitals / Kings County.

ABOUT



Business Sector Media publishes Environment + Energy Leader and two major awards programs: the E+E 100 honoring professionals who drive our industry forward and the Product & Project Awards.

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