Energy and Sustainability Goals Not Measuring Up?

Many organizations are committed to achieving performance targets that address environmental and safety regulations, reduce energy use and associated costs, lower carbon emissions and support overall sustainability goals. However, these same businesses often struggle to find the internal expertise and financial resources necessary to implement their environmental and energy-saving initiatives.

Hitachi has decades of experience and a longstanding commitment to creative and collaborative environmental and energy solutions. From assessments through post-installation support and reporting through the internet of things (IoT), Hitachi can help your business achieve its resource-saving goals.

To help organizations make the shift to energy-efficient and sustainable operations quickly, the Energy and Environmental Efficiency solutions offered by Hitachi Consulting provide flexible and innovative financing options. Our energy savings as a service (ESaaS) options help you to meet environmental and sustainability goals and to upgrade infrastructure without initial capital investments.

Pressure Builds to Reduce Energy Consumption

Organizations of all types consume energy – often a great deal of it. The aging infrastructures of yesteryear were not built with conservation or sustainability in mind, and the result is expansive brick-and-mortar buildings and factories with large energy footprints and increasing energy requirements.

The pressure is growing to rein in rising energy costs, especially as regulations and market demands drive energy prices higher. In fact, the U.S. Energy Information Administration expects energy prices to rise 17% by 2040, and if passed, the proposed carbon tax will drive prices even higher.

Organizations that successfully meet their energy-saving targets, upgrade their aging infrastructure and create a more sustainable environment will lower operational costs and become more agile. Those that don’t will face an uphill climb to remain competitive over the long term.

Energy and Environmental Efficiency Solutions

Hitachi Consulting offers a full suite of energy management and sustainability services through its Energy and Environmental Efficiency solutions. By delivering resource-reduction initiatives that deploy innovative technologies, products and services, Hitachi accelerates whole-facility optimization.

Our energy solutions begin with a comprehensive audit of current infrastructure, energy requirements, costs and challenges so we can gain a thorough understanding of an organization’s needs. We use information gained from the audit to create a detailed proposal, which includes the energy savings and footprint reduction expected from the proposed solution. And because each facility may have different requirements, we also conduct site-by-site audits to identify opportunities for site-level customization that can maximize the reduction of energy costs.

Lighting Optimization

As experts in light emitting diode (LED) specification and design, Hitachi helps companies standardize across their footprint with lighting solutions that not only reduce energy costs but also reduce maintenance costs, heat loads and environmental impacts. Available solutions include interior LED retrofits, high-bay lighting, exterior full-fixture replacement and smart sensor controls for dimming lights when facilities are not occupied. Informed decision making is enabled through data reporting, which is supported by the IoT.

Hitachi has decades of deep industry experience to provide practical business strategies and technology solutions. Through a collaborative, pragmatic approach, your organization can achieve its energy-saving goals with improved operational performance, lower costs and consistent and measurable results.
In addition, a holistic solution is available, customized to each client’s needs, with reported savings of 40 to 80% on lighting energy costs. Lighting solutions also improve work environments. For example, LEDs produce a higher quality light that can be customized for various workspaces, with warm lights for administrative areas and high-definition cool lights for detailed tasks. Furthermore, smart lighting controls allow profiles to be set to meet specific user needs.

**Heating, Ventilation and Air Conditioning (HVAC)**

Hitachi delivers innovative HVAC solutions designed to bring efficient, reliable cooling to all types of commercial applications, from small retail buildings to large data centers. Investing in these solutions pays off, as organizations report reductions of up to 60% in their HVAC expenditures, and with reduced maintenance requirements, even more can be saved.

**Measurement and Verification**

Measurement and verification (M&V) services from Hitachi are typically available as part of other solutions but can be provided individually. By measuring and verifying equipment performance and energy consumption, your organization can determine the effectiveness of individual energy solutions.

Certified engineers provide a broad array of M&V services, such as methodology design for deriving baselines, equipment specification, system design and long-term data management. They also measure and monitor equipment performance and energy consumption. Health checks continuously monitor M&V equipment to ensure consistent, ongoing reporting so performance issues can be identified and fixed before they affect the bottom line.

**Maintenance Services**

Hitachi maintenance services use the latest technologies to build smart facilities, effectively reducing the time and resources necessary to manage and maintain physical infrastructures. Available solutions include implementation of smart sensors to provide continuous visibility and monitor equipment health.

In addition, trained professionals can help your organization shift from time-based to precise, condition-based maintenance. Using big data and predictive analytics, your business can gather the equipment information necessary to lower costs through more timely and informed decisions.

**A Focus on the Environment and Sustainability**

Whether an organization has a mature environmental health and safety program, or is looking to kick-start an existing sustainability initiative, Hitachi has the experience to assist in reaching environmental performance objectives. We support the development, implementation, performance tracking and reporting for your company’s unique sustainability initiatives or environmental health and safety (EHS) challenges. This approach promotes increased efficiency, employee safety, supply chain transparency and stakeholder engagement. We turn your risk into opportunity.

Hitachi has helped a variety of companies across different sectors to achieve remarkable results. Our solutions help you to reduce regulatory burdens, financial liabilities and operating costs through optimized EHS management. With Hitachi, you gain long-term programmatic solutions, rather than quick fixes that may fail to address underlying causes and challenges.

**Hitachi, Ltd., is a Fortune Global 100 company. Its mission is to achieve a more sustainable society by implementing and promoting social innovation through sustainable practices, energy efficiency, eco-friendly products and flexible financing options.**

HVAC solutions range from minimally invasive energy-saving measures to hardware upgrades and software overlays on the chiller system, utilizing the IoT. Multiple HVAC solutions are available for diverse real estate footprints, and we work closely with your teams to identify ways to upgrade systems to reduce energy consumption. HVAC upgrades allow equipment to run at the optimal efficiency, which limits wear and tear, reduces breakdowns and extends the life of equipment.

**Sustainability Performance Management**

Planning, executing and achieving sustainability goals are complex and daunting tasks that often require engagement across all levels of an organization. Hitachi has the experience necessary to help you build your sustainable vision and put the pieces in place to achieve it. This includes assessing the environmental footprint of your operations and supply chain through greenhouse-gas inventories. It also includes determining risks across your portfolio associated with climate change, educating and engaging stakeholders on priorities, monitoring performance, and reporting on progress towards your objectives. Hitachi can support you in every step as you reduce the impact of your operations and ensure business continuity.

**Environmental Health and Safety**

EHS services can help you understand your environmental risks and requirements specific to your organization and facility footprint.

Hitachi audits identify regulatory compliance gaps through a comprehensive assessment aimed at finding the root cause of your challenges. The insights from our assessments enable business leaders to make informed decisions, prioritize budgets and develop or refine programs to achieve compliance and identify compliance gaps. Consulting and compliance support can help simplify complex regulations. Services are available to build the internal structure and systems needed to establish and sustain compliance in the long term.
End-to-End Solution

Your organization can work with Hitachi for end-to-end energy, sustainability and EHS solutions. Our comprehensive services help you to quickly identify and resolve issues across the organization, and install technologies and systems that prevent backsliding down the road. Smart reporting solutions are also available to simplify the process of demonstrating results and compliance to shareholders and regulators.

Innovative Financing Options

The Energy and Environmental Efficiency solutions of Hitachi Consulting offer several innovative financing options to help your organization meet its energy, sustainability and EHS goals without initial capital investments, and with other flexible funding and consulting models.

Energy Savings as a Service

The ESaaS funding model enables companies to reduce energy use and expenses with no upfront capital or cash flow costs. Hitachi invests in the design, installation and management of energy-saving strategies and technologies, and bills your organization based solely on energy savings achieved.

With ESaaS, monthly payments are neither fixed nor guaranteed, but depend on each month’s measured energy savings. And you don’t have to purchase or maintain new equipment. Hitachi selects, purchases and installs energy-saving devices at your company’s location, and includes maintenance and support plus remote monitoring at no extra charge.

In addition to removing financial and resource constraints that inhibit energy initiatives, ESaaS allows you to fund sustainability initiatives from your existing energy budget and frees capital for other investments.

Time and Materials or Performance-Based Fees

You may prefer to fund initiatives through your organization’s capital or operational budget. Hitachi has a range of flexible options to suit your situation. Fees can be based on the traditional consulting and equipment purchase model, and built around the scope of work, level of effort and materials required. This means that your organization retains all savings accrued from the services.

For energy projects, a portion of the fees can be tied to the realization of measured energy savings. Through this performance-based option, we invest with you in achieving your savings goals. In addition, Hitachi offers several types of lease financing to help with cash-flow needs. In any case, we customize our finance options based on your specific needs, to fill gaps and to help you achieve your goals.

Boost Energy Efficiency and Sustainability Efforts With Hitachi

Hitachi, Ltd., is a Fortune Global 100 company. Its mission is to achieve a more sustainable society by implementing and promoting social innovation through sustainable practices, energy efficiency, eco-friendly products and flexible financing options. The Hitachi Social Innovation strategy is built on this uniquely broad set of experiences and expertise. The strategy combines the resources and advanced approaches of Hitachi Data Systems (HDS), Hitachi Consulting Corporation, the Hitachi Global Center for Innovative Analytics, Hitachi, Ltd., and the many Hitachi Group companies, which collaborate as One Hitachi.

Hitachi Consulting is uniquely qualified to provide technology assessments, engineering design, portfolio analysis, financing, turnkey program management and implementation for organizations of all sizes and across industries. In addition to offering a full suite of energy management and sustainability services, Hitachi Consulting is able to leverage Hitachi products and expertise in big data management, Hitachi Capital America Corporation financing, and HDS technology solutions in management and analytics.

We work closely with our sister companies to deliver long-term energy and sustainability solutions to the enterprise, including our own corporate commitment to a 30% reduction in CO2 emissions per customer by 2020.

Don’t Let Your Energy or Sustainability Efforts Leave You in the Dark

Many organizations are committed to improving energy performance. Yet these same businesses are stymied by capital constraints and a lack of internal expertise, experience and resources. Hitachi delivers creative, results-oriented solutions and financing options that can help to jump-start your sustainability programs with no upfront capital investment.

Hitachi has decades of deep industry experience to provide practical business strategies and technology solutions. Through a collaborative, pragmatic approach, your organization can achieve its energy-saving goals with improved operational performance, lower costs and consistent and measurable results.

Learn More

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