

ACTIVE

Research Report: The State of Corporate Energy & Sustainability Programs 2018

Market Research and Advisory Firm



GreenBiz
group

Life Is On

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Electric

Research Overview

Schneider Electric™ partnered with GreenBiz Research to conduct a survey of corporate energy and sustainability programs. The study set out to answer questions, such as:

- How are companies preparing for a decarbonized, decentralized and digitized energy future?
- Are companies integrating how they buy and use energy with sustainability initiatives?
- What energy and sustainability projects are companies doing today and in the near future?
- What are the barriers to achieving energy and sustainability goals?

Executive Summary

The energy ecostructure and electricity system is on the brink of disruption. Energy is becoming decentralized, and new technologies are enabling businesses to both produce and consume energy. Many companies are looking at these megatrends to find new ways to save money, meet sustainability goals and build resiliency.

Every year, companies spend more than \$450 billion on energy efficiency and sustainability initiatives. Plus, 63 percent of Fortune 100 companies have set one or more clean energy targets.¹ Coupled with mounting pressure from investors, employees and customers to operate in a more sustainable and transparent fashion, corporations have significant incentive to act. However, action needs to bolster short- and long-term business goals, and it must be driven by a company-wide vision and strategic plans.

The ideal is to balance social and shareholder responsibility. And it's eminently achievable. For example, organizations that are actively managing and planning for climate change see 18 percent higher return on equity than peers, as well as 67 percent higher than companies that do not disclose on climate action.² Plus, nearly 80,000 emission-reducing projects from 190 Fortune 500 companies reporting data showed almost \$3.7 billion in savings in 2016 alone.³

The findings are based on responses to an online survey completed by 236 energy and sustainability professionals representing diverse industries and companies — with \$100 million to \$10 billion or more in annual revenue. (Sixty percent of organizations were at or above \$1 billion in revenue). Respondents ranged from individual contributors to C-suite/board members: 58 percent identified as contributors or managers, and 41 percent occupy director, vice president or top-tier leadership roles. Sixty-three percent of participants are located in North America, 27 percent in Europe, and 10 percent in Asia-Pacific or other parts of the globe.

However, despite progress and results to date, the GreenBiz Research survey identified gaps in how firms currently approach and execute energy and sustainability initiatives. And these gaps can limit ROI. This survey also showed evidence that the business community isn't prepared for the seismic shift that's reshaping the energy landscape. Change will only accelerate and intensify, presenting risks and competitive disadvantages for those behind the curve and opportunities for those ahead.

At the same time, several promising trends emerged, which confirm widespread support for renewable energy and highlight changes in how companies view and prioritize energy- and climate-focused programs.

In addition to sharing survey findings, this report provides guidance on how organizations can more tightly align how they buy and use energy, and build sustainable operations in 2018 and beyond—a model for continuous improvement and growth that Schneider Electric calls Active Energy Management.

Key Findings

- 1 A Conflicting View of Collaboration**
There is a significant opportunity for improved coordination, but limited agreement on barriers that impede development.
- 2 The Data-Sharing Divide**
Decentralized data management poses a significant challenge for integrated energy- and carbon-reduction efforts.
- 3 A False Sense of Future Security**
Companies are confident that they're prepared for change, but action doesn't match perception and intent.
- 4 A Common Renewables Vision**
Once inaccessible to many organizations, today's renewable energy technologies make financial sense—and companies are taking notice.
- 5 The New Return on Investment**
A longer-term, more comprehensive approach to energy and sustainability decision-making is becoming business as usual.

Key Finding 1

A Conflicting View of Collaboration

There is a significant opportunity for improved coordination, but limited agreement on barriers that block progress.

In the study, companies were asked to respond to the following statement: “My organization’s energy and sustainability decisions are not well-coordinated across relevant departments and teams.”

While almost 40 percent agreed, there were several subgroups where the lack of alignment was more acute. Over half of the respondents from consumer goods companies and service providers identified coordination as a challenge. Smaller companies also reported coordination as a problem at a higher rate, with 67 percent of companies with annual revenues between \$100 and \$250 million agreeing with the statement, compared to only 34 percent of the largest companies surveyed.

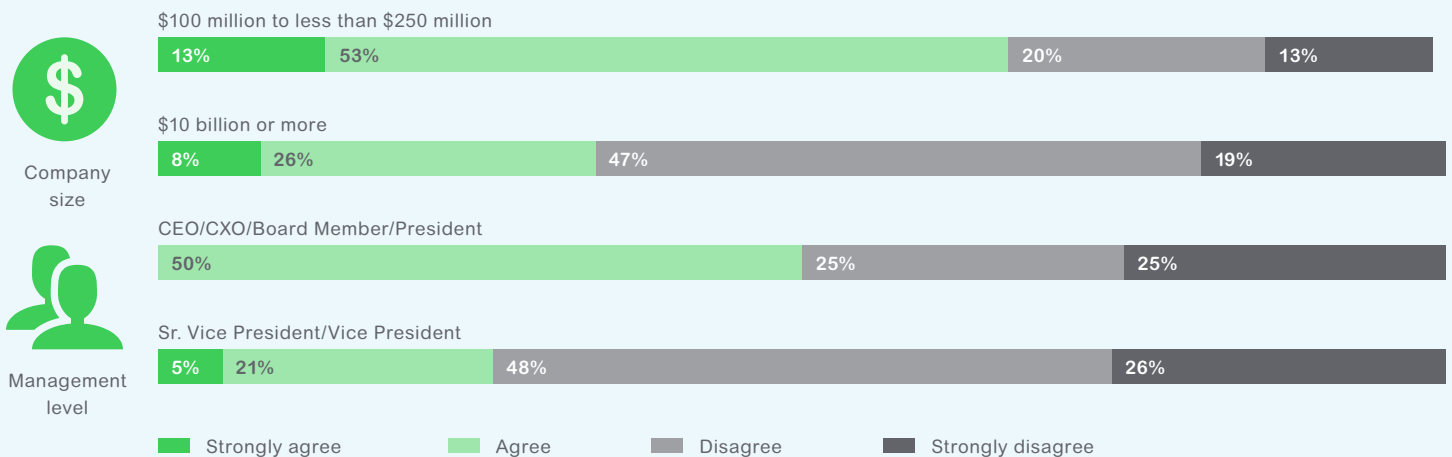
Evaluating the outlook from the top

Perhaps more revealing are the differences between the management level responses. Fifty percent of C-level and board members felt that energy and sustainability decision-making is not well-coordinated, while only 26 percent of senior vice presidents and vice presidents (VPs) had the same view. This could indicate that, while decisions within individual divisions of a company may feel well-connected, overall coordination is falling short.

“We’re educating all levels of internal stakeholders – from senior management on down – so everyone is engaged in identifying the investment and resources needed to meet infrastructure improvement and sustainability goals.”

—Sr. Director, Education Sector

Decisions are not well-coordinated across departments and teams



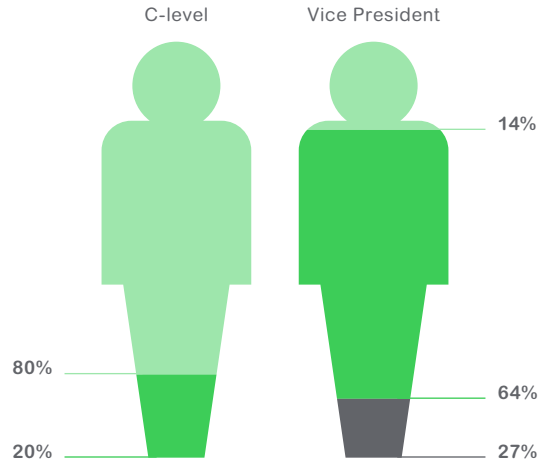
Understanding the obstacles to success

When respondents from commercial and industrial companies were asked to choose the top two obstacles to implementing energy and sustainability projects, financial barriers rose to the top. "Limited financial resources" and "ROI not attractive" were cited by 48 percent and 45 percent, respectively. However, "decentralized programs" followed closely, at 41 percent. Other reasons, while still significant, were cited at a considerably lower rate.

When asked about the most significant challenges in working across departments for energy management, energy procurement and sustainability, integration gaps became even more clear. Overall, 44 percent of respondents indicated that "lack of coordinated project/strategic planning" was an issue. The problem was even more pointed at the C-level, with a full 80 percent citing coordinated planning as a challenge.

Evidently, the broader the view of internal operations, the more apparent coordination difficulties become. Interestingly, at the VP level, the predominant answer (64 percent) is that siloed budgets are the main challenge to working across departments; insufficient tools for data sharing and project evaluation were also cited frequently.

What are the challenges in working across departments?



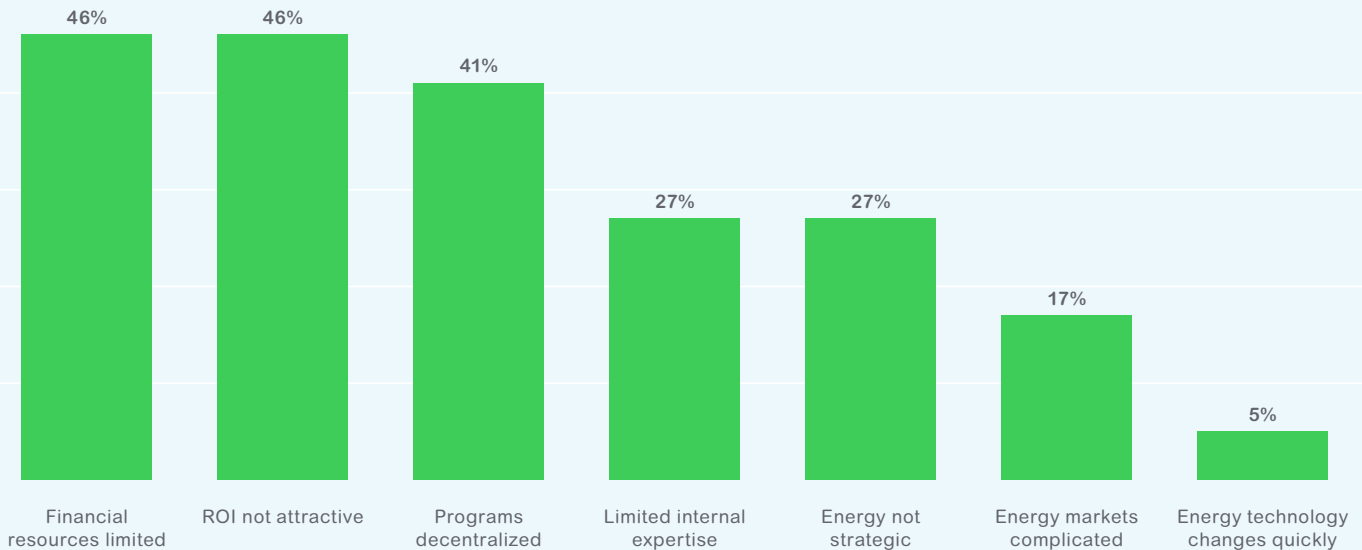
80% of C-level respondents said coordinated planning vs. 64% of VPs who answered siloed budgets.

- Lack of coordinated planning
- Inability to share budgets
- Insufficient tools for data sharing

41% cited decentralized programs as a barrier to progress.



What are the obstacles to moving efficiency and sustainability initiatives forward and meeting organizational goals?





Impact on business:

Energy and sustainability are inherently linked. For example, improved energy efficiency pays dividends by trimming consumption and costs. It has secondary benefits as well, such as environmental sustainability, which can deliver as much as 2.5 times the value of reduced energy usage.⁴ Companies that recognize this connection and operate related initiatives in tandem improve productivity, maximize impact and see greater returns. To foster collaboration and accelerate results, consider:

- Creating cross-functional teams to work on energy and sustainability projects
- Sharing budgets, best practices and data across departments (see next section for more information)
- Centralizing functions to develop centers of excellence across all locations

Industry leading:

iomart builds on procurement success

iomart, a fast-growing cloud computing company, saw the benefits of buying energy more strategically when it cut utility bills by 13 percent. With a robust sourcing program in place, the company set out to build an active, integrated approach to energy and carbon management. The procurement, energy efficiency and sustainability teams came together to develop joint plans and goals. Working closely with the finance department, they have capitalized on the early momentum, delivering more than €1.5 million in supplemental savings and helping iomart achieve Climate Change Agreement, Carbon Reduction Commitment and ISO 50001 compliance.

Key Finding 2

The Data-Sharing Divide

Decentralized data management poses a significant challenge for integrated energy- and carbon-reduction efforts.

Regardless of industry, companies are taking a proactive approach to collecting energy and sustainability data. Education is leading the way, with 87 percent of surveyed companies stating that related projects are planned or underway, closely followed by service providers and industrial companies. Health care was least proactive—though at 73 percent, this still indicates a bias for action.

79% of companies have energy and sustainability data collection projects.

Respondents to this survey from larger companies had higher rates of data collection. Eighty percent of companies with annual revenues over \$1 billion are collecting data. Companies in Europe reported the highest data collection rates at 81 percent, above the global average of 79 percent.

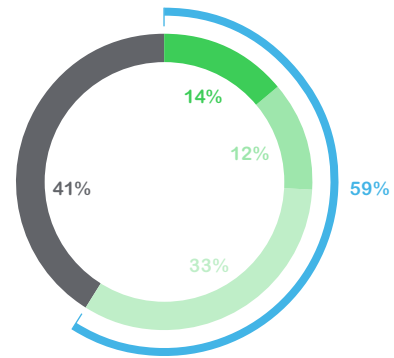
Sharing data across the enterprise

The discovery of widespread data collection was offset by responses to questions about how data is used within a company. When asked how broadly energy and sustainability data was shared throughout their companies, less than half, 41 percent, responded that this information was shared globally across their enterprise.

A full 33 percent reported that data was managed at a local level, and an additional 14 percent said data was managed regionally or within business units.

Decentralized, local data can be helpful for individual facilities, but the absence of broader sharing limits the ability to pinpoint and capitalize on savings opportunities as well as manage programs in a coordinated, efficient fashion.

Where's the data?



59% of companies manage data at the national, regional or local level.

- Data is managed at the national level
- Data is managed at the regional/business unit level
- Data is managed at the local/facility level
- Data is managed globally

Have initiated or plan to start energy and sustainability data-collection projects



Reacting quickly to savings opportunities

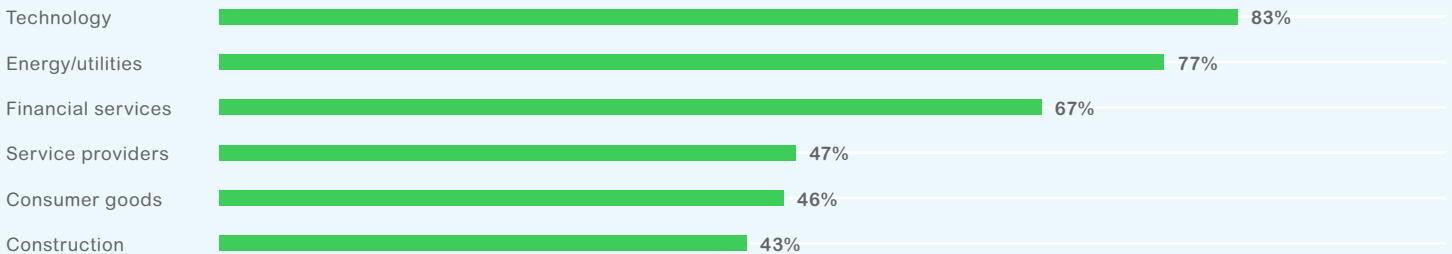
Another critical characteristic of the way companies manage data is the tools they use to collect and analyze data. In order to gauge how well companies are taking advantage of data management technology and strategies, survey-takers were asked to respond to the following statement: “Over the next three years, my company will have the connected devices and software analytics to quickly react to energy and carbon-saving opportunities.”

Only 55 percent said that they either agreed or strongly agreed with the above statement, even though 80 percent of companies reported collecting data. Companies without IoT-connected devices and software will not be able to respond to more real-time opportunities in the new energy future (e.g., reducing or shifting load when prices spike or switching energy sources when the main electricity grid is over-dependent on fossil fuels).

This shortcoming is especially noticeable within construction companies, where only 43 percent of companies expect to have connected devices and software analytics, as well as several other sectors where the percentage is below half, including service providers and consumer goods.

80% of companies are collecting data, though only 55% say they have the connected devices and software required to act on energy and carbon savings opportunities.

Over the next 3 years, my company will have the connected devices and software analytics to quickly react to energy and carbon-saving opportunities





Impact on business:

Tools to gather and analyze energy and sustainability data are more robust and cost effective than ever. However, companies are only using about 12 percent of the data they already have.⁵ Organizations looking to take full advantage of the data available to refine programs and increase effectiveness should:

- Use IoT-connected devices and enterprise-wide software to benchmark performance and find efficiency and savings opportunities
- Centralize data globally for analysis and reporting
- Share data across departments to facilitate continuous improvement in all domains

Industry leading:

AEG uses data to meet sustainability goals

AEG, the global sports and live entertainment leader, needed to put the infrastructure and tools in place to monitor and confirm progress toward its impressive sustainability goals, which include a 20 percent reduction in greenhouse gas (GHG) emissions by 2020. To that end, the company implemented an enterprise management platform that tracks 53 different data streams across its portfolio of more than 120 venues. With access to real-time energy and resource use data—and the ability to create custom dashboards at each site—the company has already reduced GHGs by 14 percent and achieved a 63 percent waste diversion rate.

Key Finding 3

A False Sense of Future Security

Companies are confident they're prepared for change, but action doesn't match perception and intent.

Overall, 85 percent of respondents agreed with the following statement: “Over the next three years, my company is taking action that will keep its carbon-reduction plans competitive with industry leaders.”

85% of companies feel prepared for the new energy future.



It's a bright outlook. And technology companies are especially confident, with every one participating in this survey responding that they are prepared. More than 90 percent of health care companies also agreed.

Beyond energy efficiency and renewables

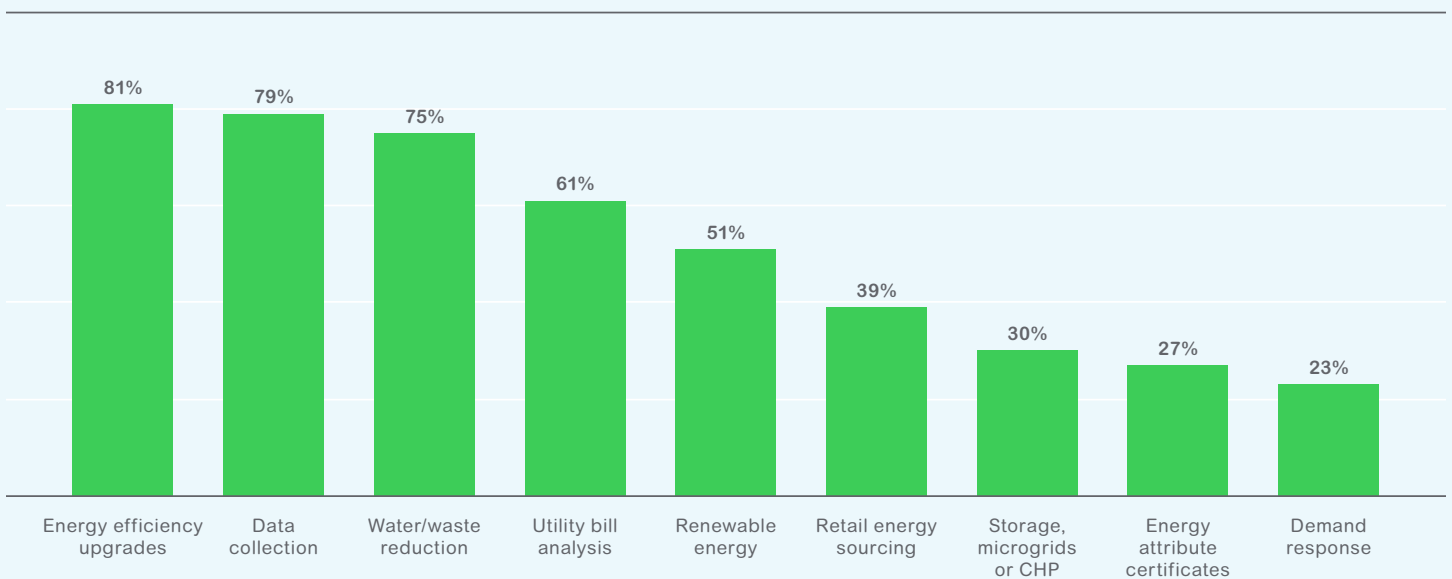
To be competitive with industry leaders' carbon-reduction efforts, companies will need to deploy a variety of projects including on- and off-site renewable energy, energy efficiency, energy storage and demand response. However, as reported in the survey, actual implementation of these projects lags behind companies' broader aspirations.

Of the advancements that help build the foundation of an inclusive, flexible energy and sustainability strategy, the two most cited in the survey were efficiency upgrades and renewable energy. Even for these two, the rates of implementation do not match the high rates of companies that feel prepared with carbon-reduction plans. An impressive 82 percent of companies have initiated energy efficiency upgrades or plan to do so within the next two years, although it is hard to imagine any organization successfully reducing carbon without taking advantage of the low-hanging fruit represented by such projects. Likewise, 51 percent of companies have done or are planning to do renewable energy projects.

In contrast, only 30 percent of companies are planning projects related to energy storage, microgrids and demand response, which is necessary to take advantage of the resource and financial savings in a decentralized energy system.

When asked a similar open-ended question (“What specific strategies or innovations in corporate energy and sustainability has your company considered or implemented?”), answers revealed an even bigger gap. While 51 percent of respondents reported renewable energy initiatives, only 1 percent considered or implemented energy storage solutions.

Projects in progress or planned within the next two years



Vetting the projects that spur progress

Energy and sustainability projects need to meet multiple criteria to be approved. When asked, “What are the primary drivers for strategically managing resource use and sustainability?,” 69 percent unsurprisingly cited cost savings, but meeting corporate goals was close behind at 60 percent. Projects, such as adding renewable energy, can help meet CO₂-reduction goals and decrease the overall cost of energy, as solar and wind power are now the same price or cheaper than new fossil fuel capacity in more than 30 countries.⁶

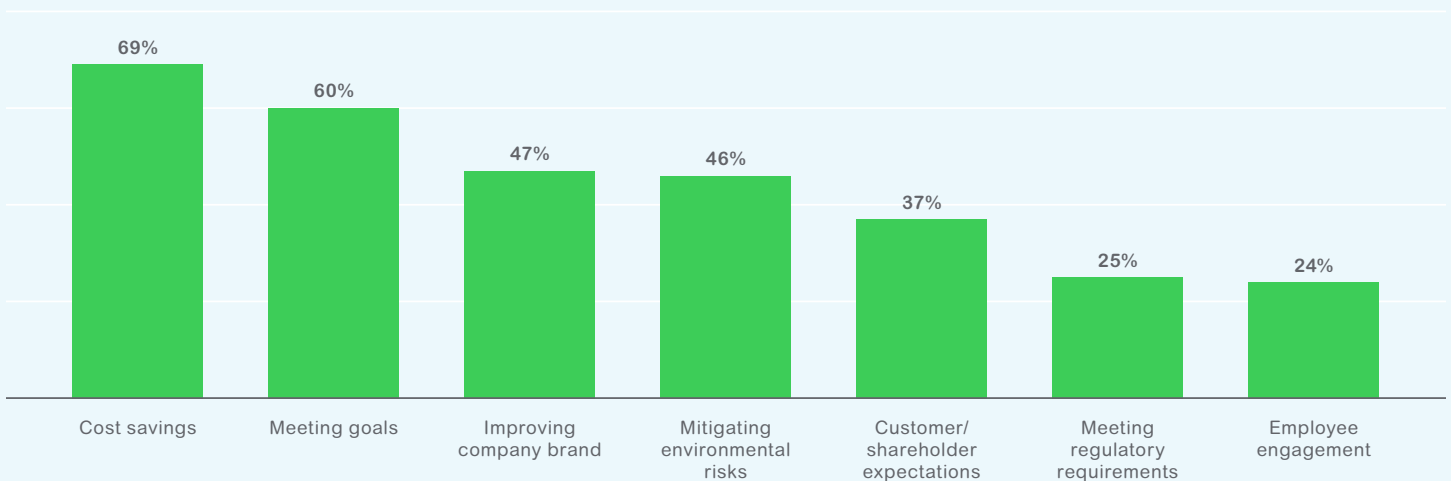
30% of companies are planning projects related to energy storage, microgrids and demand response.



“The private sector will have to acknowledge the new reality of a digital, customer-empowered, transactive electricity system by embracing new business models and simplifying and redesigning the experience of commercial and industrial customers.”

—The Future of Electricity:
New Technologies Transforming the
Grid Edge, World Economic Forum ⁷

Primary drivers for managing resource use and sustainability





Impact on business:

Building more sustainable, profitable operations requires an intense focus on energy efficiency and renewables. But companies need to adopt a “prosumer” mindset to fully prepare for the changing energy ecosystem, which could deliver more than \$2.4 trillion of value over the next 10 years.⁷ Capturing this value will require an integrated mix of strategies and technology—from renewables to demand response to energy storage—that give organizations the option to:

- Produce energy that can be used or sold to optimize economics
- Disconnect from the electricity grid to minimize financial or operational risk
- Reduce overall use and change consumption patterns based on price or carbon signals

Industry leading:

IMT University prepares for the new energy future

A vocational school based in Paris, IMT University is an energy and sustainability forerunner, taking steps to reduce environmental impact and become an active grid participant. The university has a microgrid connected to a local smart grid and monitors activity at the building level in real-time. The school has tested multiple energy management scenarios based on consumption, production and storage, which it can apply to optimize renewable energy supply and energy usage in facilities.

Key Finding 4

A Common Renewables Vision

Once inaccessible to many organizations, today's renewable energy technologies make financial sense, and companies are taking notice.

Renewable energy is key to a decarbonized future. Global energy-related CO₂ emissions could be reduced 70 percent by 2050, and renewables would account for about half of the emissions reductions.⁸ (Another 45 percent would come from increased energy efficiency and electrification.)

Leading the clean energy transformation

Getting close to those projections requires widespread support from the business community, and the survey shows that support exists. Companies are helping cut emissions en masse by shifting to more clean, sustainable resources.

A majority of respondents reported having renewable energy projects underway or planned. And the rate topped 60 percent in four sectors: education, health care, financial services and technology.

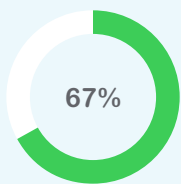
Even the sector with the least amount of traction (industrial) still reported a respectable 39 percent adoption rate. Interestingly, industrial companies also reported one of the highest rates of energy efficiency upgrade projects, at 89 percent—likely indicating that companies using large amounts of energy have good reason to focus first on reducing overall consumption.

“We produce energy in a public-private partnership at our landfill. We intend to increase the energy production, possibly converting some waste to fuel and adding solar.”

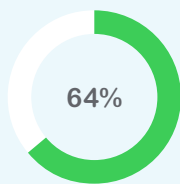
—Sr. Manager, Government

52% of companies have renewable energy projects.

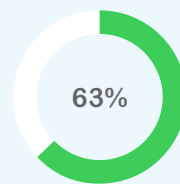
Renewable energy project in progress or planned, by industry



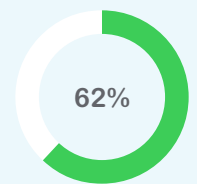
Education/training



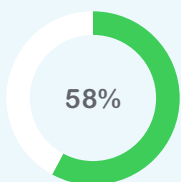
Health care



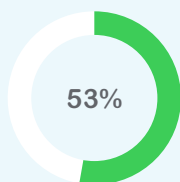
Financial services



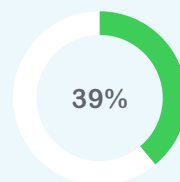
Technology



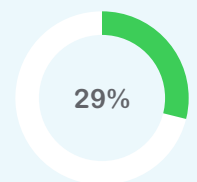
Consumer goods



Construction



Industrial



Government/NGO

Engaging and accelerating at the executive level

The movement toward renewables is likely due to C-level interest and support. Whether their role involves recommending, reviewing or approving projects, 82 percent reported being involved at some level in sustainability and renewable energy initiatives. C-level involvement is also high for energy efficiency projects, at 69 percent, and only slightly lower for energy purchasing, at 63 percent. Clearly, these efforts are strategic and worthy of leadership engagement.

82% of C-level are involved in renewable energy and sustainability initiatives.



Prioritizing based on industry drivers

Though top executives are consistently involved in sustainability and renewable energy projects, the types of projects a company prioritizes are often determined by the needs of their sector. For example, health care companies reported the highest rate of energy storage and microgrid adoption, at 64 percent—far higher than the overall rate of 28 percent. While storage, microgrids and other distributed

energy initiatives are an effective way to integrate renewable energy, they also greatly increase reliability in an industry where any interruption to heating, cooling or electricity is unacceptable.

The financial sector provides another example, with the highest use of energy attribute certificates, at 50 percent—almost double the overall average of 27 percent. While companies in the financial sector are also heavily involved in direct renewable energy projects, as indicated above, it is not surprising that this industry is comfortable using a market approach to achieving sustainability targets. Similarly, this sector also had the highest rate of strategic energy sourcing, at 63 percent—well above the average of 39 percent.

Similarly, the education sector is taking a leadership role in both renewable energy and demand response projects. Forty percent of education organizations reported demand response projects—the highest rate compared to the overall average of only 23 percent. With large portfolios of buildings that are often centrally managed, educational campuses have both the scale and flexibility to take advantage of this type of endeavor.

C-level involvement in decision-making

Energy buying



Sustainability/renewables



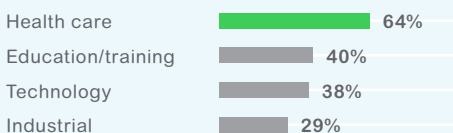
Energy efficiency



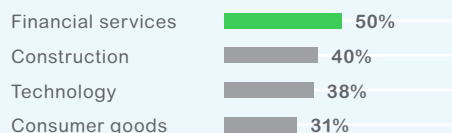
■ Recommends
 ■ Reviews
 ■ Approves
 ■ Not involved or NA

Renewable energy-related projects, planned or in progress

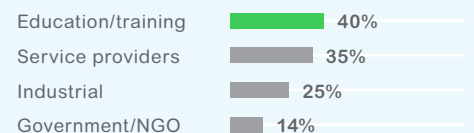
Energy storage and microgrids



Energy attribute certificates



Demand response





Impact on business:

Renewable energy projects help meet sustainability goals, build a stronger brand and benefit the bottom line. A recent study found that 72 percent of companies are pursuing renewable energy procurement, and 80 percent plan to build out their renewables portfolio via multiple types of transactions, such as offsite power purchase agreements (PPAs) and onsite generation.⁹

When considering clean energy:

- Develop a multi-pronged strategy that will effectively meet CO₂-reduction goals and reduce costs
- Present renewable energy strategies as a business case to engage C-suite executives and ensure alignment
- Look at pairing renewable and storage technologies to prepare for savings opportunities in a decentralized grid environment

Industry leading:

Sun Chemical generates savings onsite and offsite

Sun Chemical has deployed onsite and offsite renewable energy to cut costs and meet renewable energy goals. The latest project for the inks, pigments and pressroom materials provider: A PPA that will reduce electricity costs at its production facility in Carlstadt, NJ, by roughly \$400,000. Rooftop and carport photovoltaic arrays will generate more than 30 percent of the energy needed to power the facility. Under the 20-year PPA, a solar energy developer will design, install, own and operate the arrays, selling the electricity that the technology produces to Sun Chemical at a cost below current utility rates.

Key Finding 5

The New Return on Investment

A longer-term, more comprehensive approach to energy and sustainability decision-making is becoming business as usual.

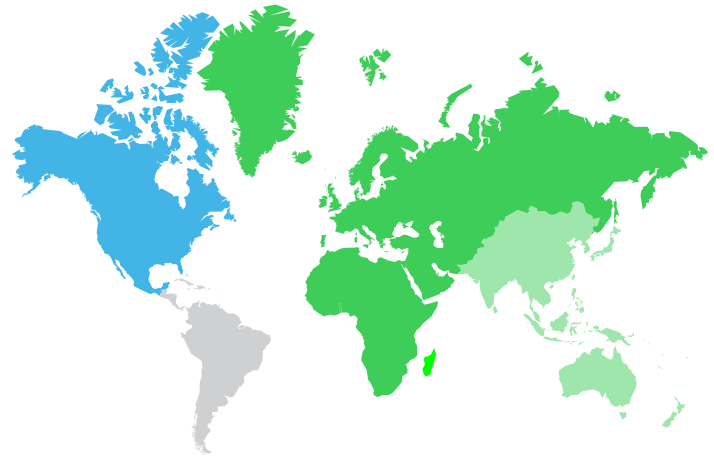
Drivers for energy and sustainability initiatives also varied by location, providing a window into regional priorities and attitudes.

In Asia-Pacific (APAC), for example, meeting regulatory requirements and mitigating environmental risks came in well above the overall average. Likewise, 41 percent of organizations based in Europe identified competitive positioning as a primary motivator—10 percent above their counterparts in North America (NA). And cost savings carried more weight in NA (72 percent) than APAC (56 percent).

When asked what criteria are used to evaluate energy and sustainability projects, answers often fluctuated depending on the respondent’s job title. Although around 80 percent selected environmental impact as a principal criterion, regardless of their level in the company, organizational risk was chosen much more frequently by individual contributors (65 percent) and managers (69 percent). VPs (50 percent) and C-level executives (40 percent) cited risk as a driver significantly less often. This hints at a blind spot to risk toward the top or an unnecessary concern further down, which suggests a need for alignment either way.

Survey respondents chose resource scarcity in a different pattern, with comparatively few individual contributors (13 percent) and no C-level executives.

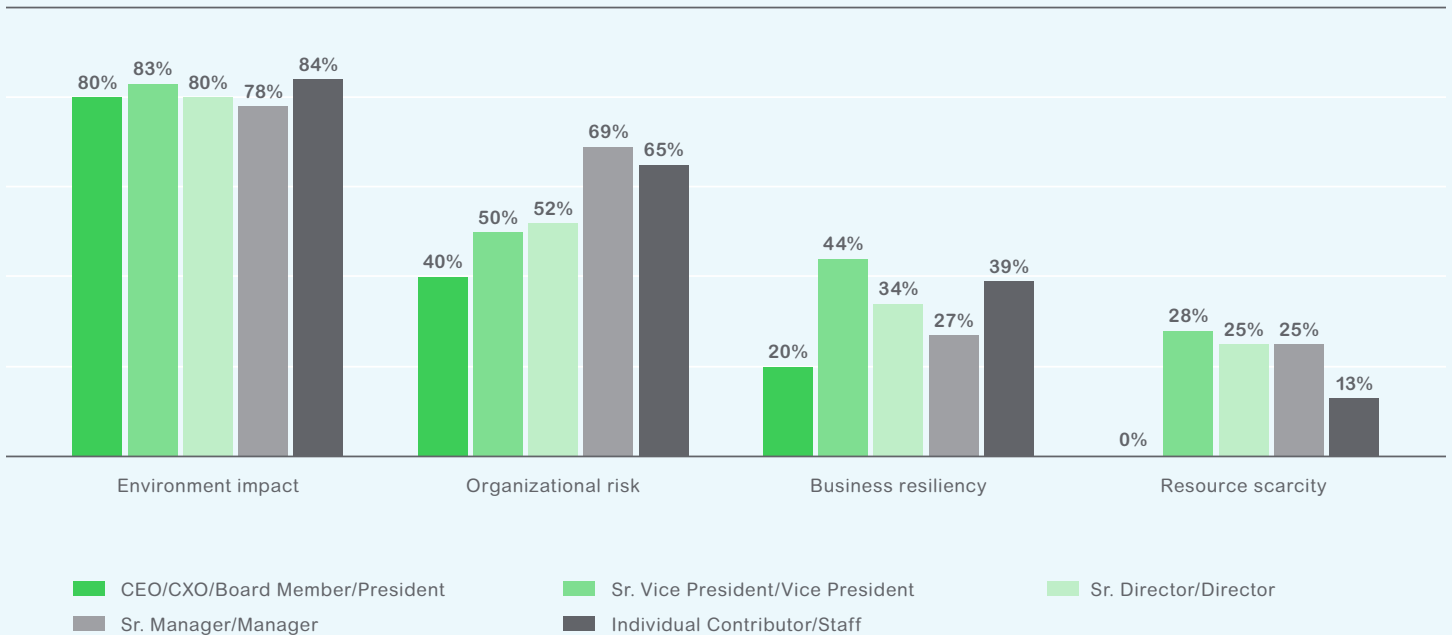
Regional differences in drivers for energy and sustainability initiatives



NA	EMEA	APAC
72% Cost savings important	41% Competitive positioning	33% Regulations important
69% Global average	35% Global average	24% Global average

78% of APAC companies said mitigating environmental risks is a key driver, compared to Europe at 44% and North America at 43%.

Criteria used to evaluate energy and sustainability projects





Impact on business:

CFOs play a prominent role in corporate sustainability efforts. Eighty-three percent state that they are always or frequently involved in setting sustainability strategy, and 80 percent say they are always or frequently involved in executing sustainability strategy.¹⁰ So it's no wonder that financial principles, such as risk assessment, are changing how organizations view related investments. CDP reported that corporate use of an internal price on carbon nearly tripled in 2015 to 437 companies, and more than 500 additional companies planned to implement a price by 2017. To develop a more inclusive approach to evaluating initiatives and outcomes, companies can:

- Use established methods such as scenario analysis to assess and disclose
- Develop integrated energy and sustainability strategies and key performance metrics
- Calculate an internal carbon price for project review

Industry leading:

Rolls-Royce factors carbon impact in decision-making

Global aerospace and industrial power systems leader Rolls-Royce has dedicated £10 million to energy efficiency projects and reduced global energy consumption by 17 percent since 2014. It has also recognized that investments need to be based on benchmarks that extend beyond simple payback. As a result, the company has changed its evaluation processes. Key business decisions—from plotting the next efficiency program to locating new facilities—are based partly on energy and carbon criteria. Rolls-Royce has been measuring the savings from early investments, continues to pilot new technologies, and is constantly assessing and refining its long-term sustainability strategy.

Conclusion

Opportunities abound for companies to profit and succeed over the long term by adopting and implementing energy and sustainability initiatives. With the falling price and increased productivity of efficiency, cleantech and renewable energy technologies, financial and environmental considerations don't have to compete. Many organizations have recognized this reality and responded accordingly.

However, this does not mean that comprehensive action will come easily. Companies surveyed about their existing plans show that projects and initiatives are currently falling short of goals—hampered by a lack of data sharing, coordinated project planning and priority setting, as well as a tendency to consider a limited scope of solutions. Companies feel confident that they are ready to take advantage of a decentralized, decarbonized and digitized energy future, but they are not moving forward at a pace comparable to the velocity of change.

Organizations should ensure they are considering strategy, processes, technology and data in tandem to prepare for an evolving grid, increase collaboration between energy and sustainability departments, build a multi-pronged energy- and carbon-management plan, and look beyond conventional financial metrics when considering project criteria in 2018 and beyond.

Active Energy Management: Continuous Improvement and Growth

Three undeniable megatrends are reshaping the world: digitization, decarbonization and decentralization. At the same time, the planet is becoming more electrified, with energy consumption expected to double by 2030. To thrive in this new environment, companies must design their energy and sustainability strategy to be a competitive differentiator.

Advances in energy markets and technologies have given companies more control over how they use energy, how much that energy costs and how that energy is sourced. Active Energy Management means holistically looking at energy and sustainability programs to find new efficiencies and savings opportunities and to plot continuous growth. Examples include demand response programs based on real-time price signals, combining renewable energy strategies and efficiency programs to reach CO₂-reduction goals or using utility invoices to comply with energy management and sustainability compliance programs.

Additional Resources:

hub.resourceadvisor.com/active-energy-management

Start your Active Energy Management journey:

contact@ems.schneider-electric.com

Discover Active Energy Management



Video

Royal Canin, Rolls-Royce, ASICS and others discuss the value of being active



Video

What is Active Energy Management?



eBook

How to create new opportunities with integrated decision-making



Guide

3 ways to start connecting energy and sustainability activities

Methodology

This report summarizes results of quantitative research based on a survey of the GreenBiz Intelligence Panel, consisting of executives and thought leaders in corporate environmental strategy and performance, as well as Schneider Electric clients. An email link invited panel members and company contacts to participate in an anonymous survey. The report analyzes results from 236 respondents in 11 industries.

About Schneider Electric

Schneider Electric is leading the digital transformation of energy management and automation in homes, buildings, data centers, infrastructure and industries. With a global presence in more than 100 countries, the company is the leading provider of integrated efficiency solutions, combining energy, automation, software and support.

Schneider Electric Energy & Sustainability Services helps companies buy energy smarter, use resources efficiently and drive sustainable growth. It delivers energy-to-end services and technology to develop strategic goals and plans, implement programs and projects that deliver measurable results and identify effective financing tools.

www.schneider-electric.com/ess

About GreenBiz Group

GreenBiz Group's mission is to define and accelerate the business of sustainability. It does this through a wide range of products and services, including its acclaimed website, GreenBiz.com, and e-newsletters, GreenBuzz and VERGE; webcasts on topics of importance to sustainability and energy executives; research reports, including the annual State of Green Business; the GreenBiz Executive Network, a membership-based, peer-to-peer learning forum for sustainability executives; and conferences: the annual GreenBiz forum and VERGE.

www.greenbiz.com

¹ Power Forward 3.0: How the largest U.S. companies are capturing business value while addressing climate change, WWF

² Climate action and profitability: S&P 500 climate change report, CDP

³ Fortune 500 companies accelerating renewable energy, energy efficiency efforts, WWF

⁴ Capturing the Multiple Benefits of Energy Efficiency, International Energy Agency

⁵ The Forrester Wave™: Big Data Hadoop Solutions, Q1 2014, Forrester Research

⁶ Renewable Infrastructure Investment Handbook: A Guide for Institutional Investors, World Economic Forum

⁷ The Future of Electricity: New Technologies Transforming the Grid Edge, World Economic Forum

⁸ Synergies between renewable energy and energy efficiency, IRENA

⁹ Corporate renewable energy procurement survey, PwC

¹⁰ CFOs and Sustainability: Shaping their roles in an evolving environment, Deloitte



Learn more how about Schneider Electric's
Energy and Sustainability Services:

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