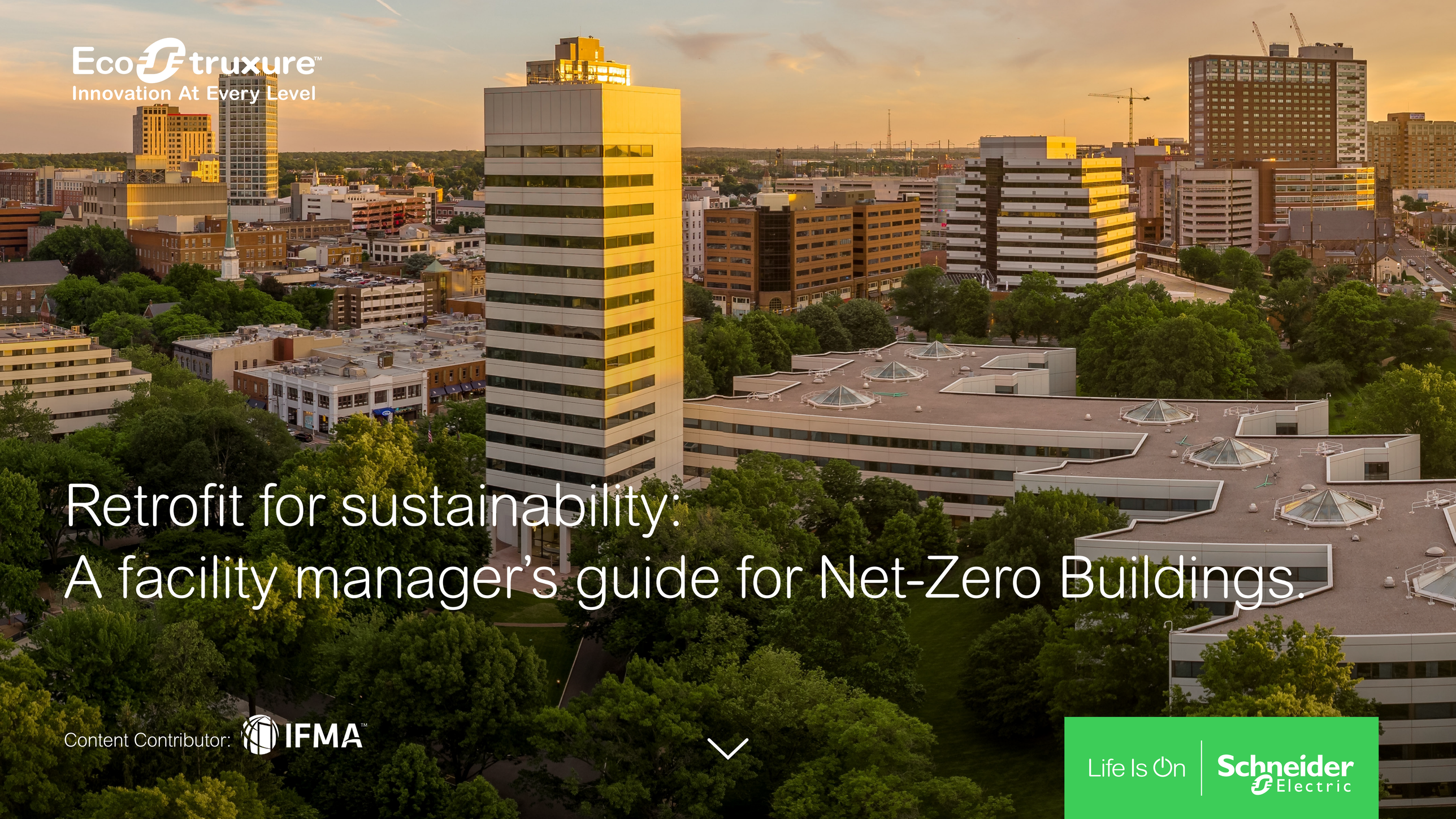


EcoStruxure™
Innovation At Every Level

Retrofit for sustainability: A facility manager's guide for Net-Zero Buildings.

Content Contributor: IFMA™

Life Is On | Schneider Electric

This eGuide will help you learn how to set a path to success

All buildings need to be more sustainable

All buildings need to be more sustainable

Regardless of the building you're managing, whether a hotel, office, hospital, or retail, they all must become net-zero.

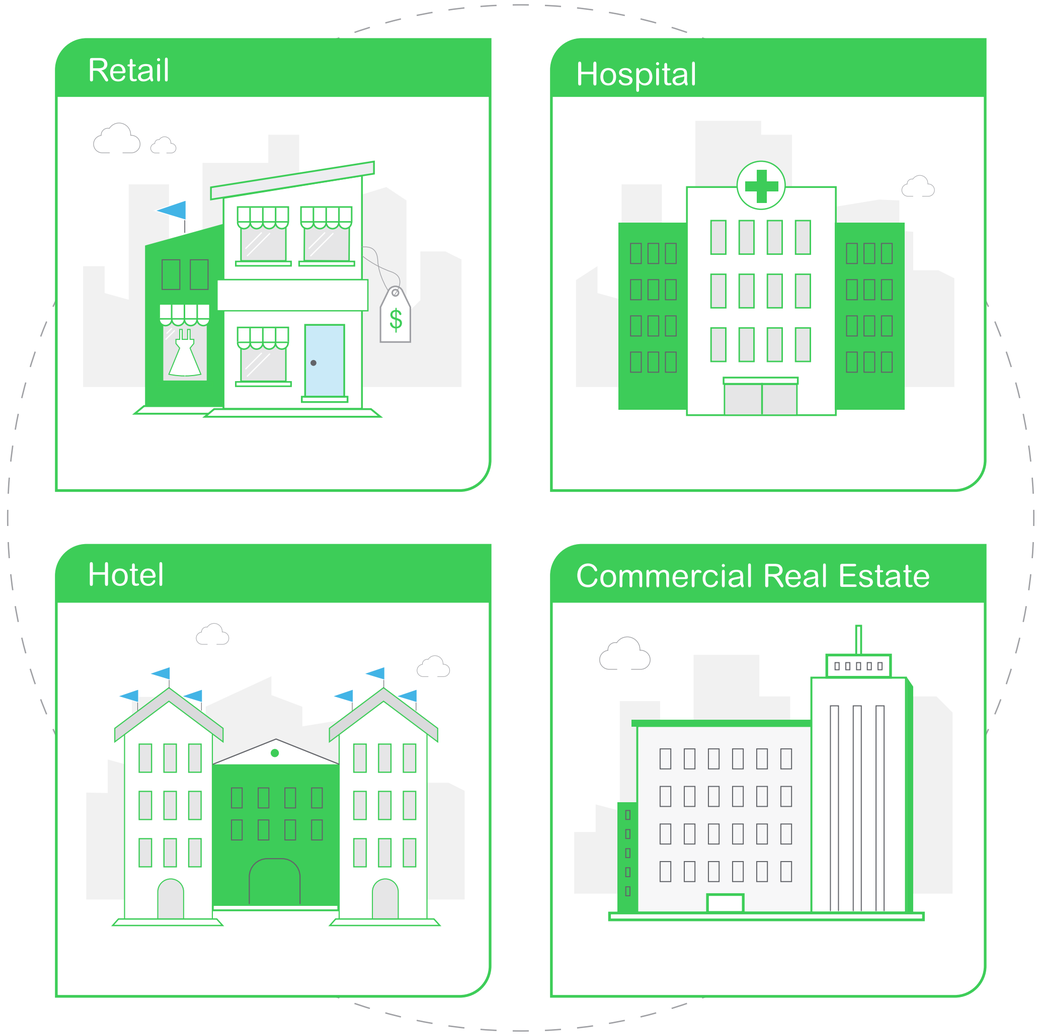
To limit global warming by 2050 to the Intergovernmental Panel on Climate Change (IPCC) -specified 1.5°C, every effort must be made to decarbonize buildings.[1] We must become net-zero or risk irreversible environmental and economic damage.

Buildings contribute to 37% of global CO_2 emissions,[2] and a large percentage of the energy used by buildings is wasted, with many still using fossil fuels for loads like heating.

What is net-zero?

The IPCC defines net-zero as the point at which removals balance global emissions over a specified period…a commitment to abate Scope 1 and 2 emissions to as close to zero as possible and then (and only then) neutralize any truly unavoidable residual emissions.

Greenhouse gas emissions (GHG) have increased by **90%** within the last 50 years.[3]



1. "Summary for Policymakers of IPCC Special Report on Global Warming of 1.5°C approved by governments", IPCC, 2018
2. 2021 Global Status Report for Buildings and Construction
3. EPA,Global Greenhouse Gas Emissions Data

30% of the energy consumed in buildings is wasted.[4]

50+ years is the average age of existing buildings in Europe and US.[5]

~50% of 2050's expected building stock already exists today.[6]

4. Age of U.S. Commercial Buildings
5. Property Week, 2021.
6. U.S. Environmental Protection Agency

All buildings need to be more sustainable

It's not enough to use sustainable practices and technology for new builds. Decarbonizing operations in existing buildings is no longer a “nice to have” but a “must do.” For building operators, retrofit projects are critical in the journey to decarbonize and meet net-zero targets.

Is this challenge too big? No. Today's digital technology and services help simplify these efforts while:

- Increasing energy savings and lowering operating expenses (OpEx)
- Helping your team work more efficiently
- Improving occupant well-being

Facility managers as net-zero champions

Facility managers have the critical knowledge of each building’s unique interworkings to become a natural leader for critical stakeholders to inform them along their net zero journey.

Become a sustainability expert and advance your career.
Register for Sustainability Facility Professional Credential

IFMA™

Champion the change management required to meet today’s global sustainability challenges by:

- Embracing a net-zero vision
- Providing strong operational guidance across your organization
- Committing to strategizing and executing a plan

Schneider Electric has the necessary solutions and roadmap to jumpstart your journey to meet environmental, financial, operational, and social goals.

Earn your Sustainability Facility Professional Credential

IFMA's Sustainability Course

Learn more about sustainability in FM

4 reasons why operational teams should guide sustainability

Four drivers for sustainable retrofits

1. Mandatory standards and regulations
2. Financial risks and opportunities
3. The new, green mindset of tenants, employees, and investors
4. A new market with new operational challenges

The push to net-zero introduces new business pressures and opportunities. They are not only new strategic goals, but already a part of operational initiatives.

Retrofitting buildings for greater sustainability is a journey, and facility managers must champion the change management required to meet today's global sustainability challenges.

Mandatory standards and regulations

The Race to Net Zero campaign has mobilized 75% of worldwide countries to commit to net-zero by 2050.[7]

To meet this, governments are launching aggressive approaches to reduce existing building emissions.

There are new mandatory standards and regulations within each jurisdiction and several voluntary standards and certifications to equip your team with best-in-class energy management practices.

NAM

- BERDO
- New York Law 97

Europe

- EPBD Energy Performance of Buildings Directive
- Decret tertiaire

APAC

- China's Green Building Evaluation Label (Three Star)
- BCA Green Mark (Singapore)
- CC 2025 Energy Efficiency
- NABERS

See more in your region.

7. Race To Zero Campaign, United Nations Climate Change

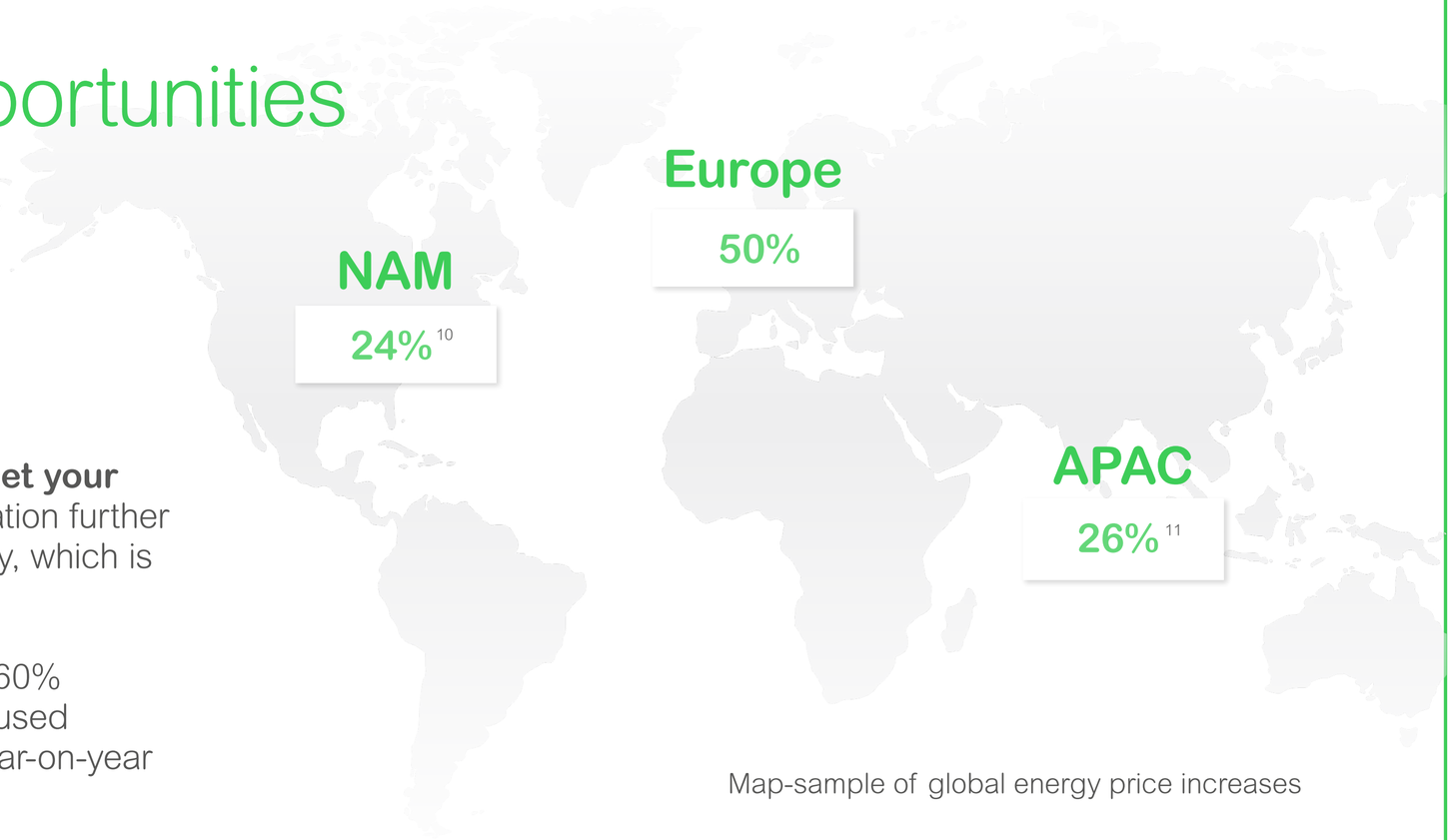
Financial risks and opportunities

Local regulation non-compliance brings financial risks, from fines to taxes.

Carbon taxes penalize fossil fuel use and are increasingly more common in several countries, see World Bank's Carbon Pricing Dashboard here.

However, **government financial incentives can offset your CapEx** for sustainable retrofits, see map. Decarbonization further helps reduce fossil fuel dependency and price volatility, which is critical in some global regions.

For example, the current EU energy crisis has seen a 60% decrease in natural gas supply.[8] This shortage has caused "electricity retail prices [to increase] by almost 50% year-on-year from July 2021.[9]"

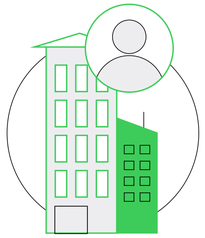


Map-sample of global energy price increases

8. "How a Russian Natural Gas Cutoff Could Weigh on Europe's Economies," IMF, July 2022
9. "Questions and Answers on an emergency intervention to address high energy prices," European Commission, September 2022
10. US Power Prices Rise Most in 41 Years as Inflation Endures
11. Your Questions Answered: Why are Energy Prices High?

The new, green mindset of tenants, employees, and investors

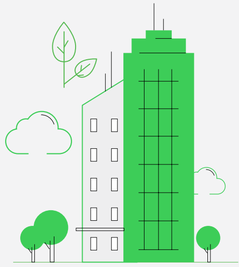
Ecological sustainability and well-being are complementary.



84% of premium office buildings are sustainability certified.[12]

65% [of hiring prospects] said they would be more likely to work for a company with robust environmental policies.[13]

Property investors expect corporate **environment, social, and governance (ESG) reporting. Building health (e.g., WELL) and sustainability certificates (e.g., LEED and BREEAM)** can help enhance occupant satisfaction while strengthening brand image.



Sustainable buildings can result in rental value increases of **6-11%**, plus lower vacancy rates. Operating costs for sustainable assets are over **13%** lower for new construction and close to **9%** lower for retrofitted building projects[14]

12. Globest, 2021
13. Reuters Sustainable Business
14. World Green Building Council: Beyond the business case.

A new market with new operational challenges

Aging and more complex infrastructure.
Aging equipment can increase risks to safety and reliability and costs for repair or replacement due to supply chain shortages. As systems become more interconnected, automated, and power-sensitive, their maintenance and lifecycle management becomes more complex.

Shrinking and less experienced facility teams.
As facility experts retire and operational demand ramps up, new hiring is more difficult due to the shortage of skilled workers within electrical, facility, plant, and cybersecurity management. This can lead to smaller, less experienced in-house teams having a greater scope of responsibilities across multiple facilities.

The message is clear. Smarter, more sustainable buildings are the global norm for facilities of today and tomorrow.

Decarbonization efforts help facility managers:

- **Streamline** managing aged facilities with various levels of digitalization
- **Mitigate** non-compliance of inefficient assets and systems
- **Reduce** OpEx by cutting energy costs and reducing unplanned maintenance on aging equipment
- **Enable** performance insight and greater interaction with occupants
- **Simplify** managing complex facilities using smaller or less-experienced in-house teams

With Schneider Electric's 3-step approach to net-zero buildings, an accelerated sustainability path is possible.

All-digital, all-electric buildings enable sustainability

Digitalization and electrification redefine how we design, build, operate, and maintain new and existing buildings.

- Digitalizing and connecting building systems **provide critical information to make better, data-driven decisions**. That includes how you purchase, generate, store, consume, and control energy and tools to manage indoor air quality, comfort, and other building health aspects.

Digitalization and electrification drive efficiency gains that reduce CO_2 from the buildings sector by **350 Mt CO^2 by 2050.**[15]

- As the substitution of electric technologies for combustion-fueled technologies (e.g., space and water heating) increases, **there is also a dramatic shift towards more renewable energy generation**. Digital solutions help you navigate and manage these energy resources.

Digitalization and electrification support:

- A smaller CO_2 footprint
- Reduced energy use leads to lower OpEx costs
- Faster response to risks, faster resolution of problems before they can disrupt business operations, and time savings for maintenance teams

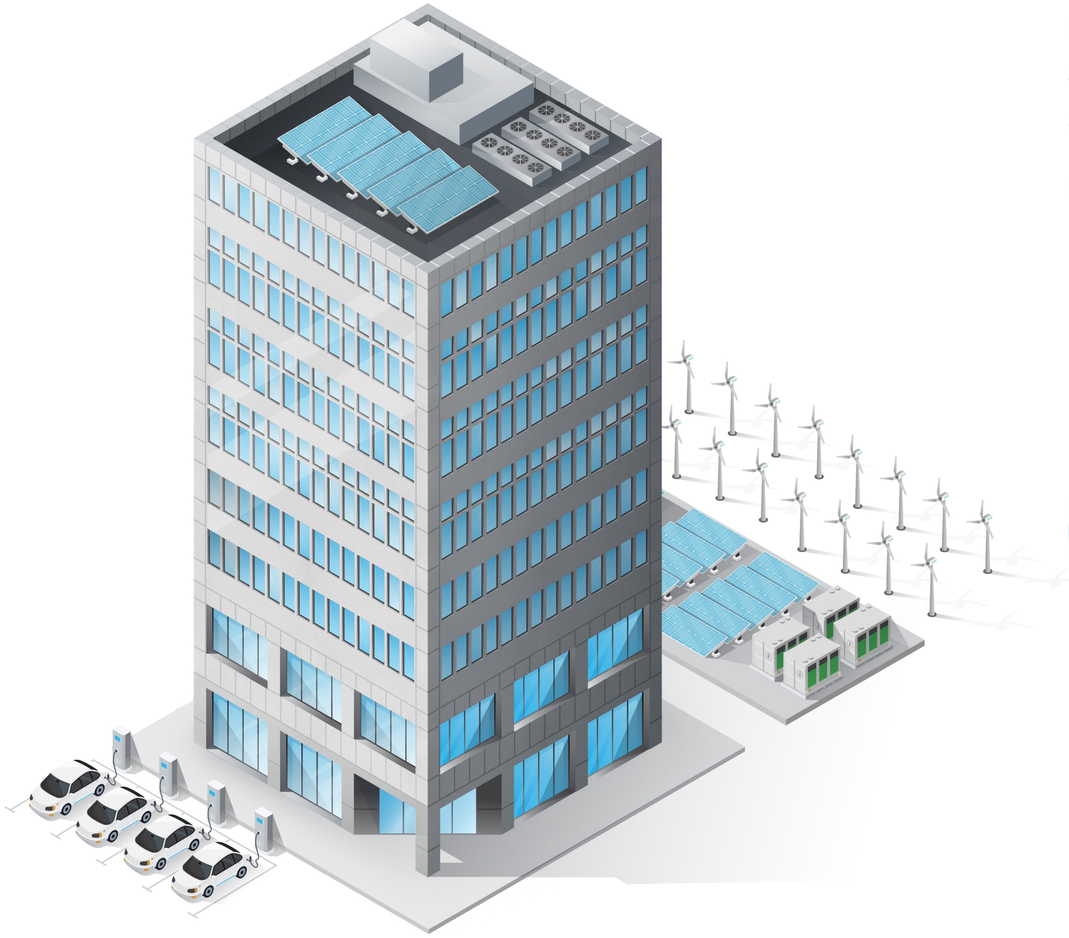
Digital technology and services help simplify your team's job, enabling them to do more with fewer resources.

Armed with this knowledge, you need a structured plan to take action. Schneider Electric offers **a proven, 3-step approach for achieving success.**

15. IEA, Net zero by 2050 hinges on a global push to increase energy efficiency, 2021

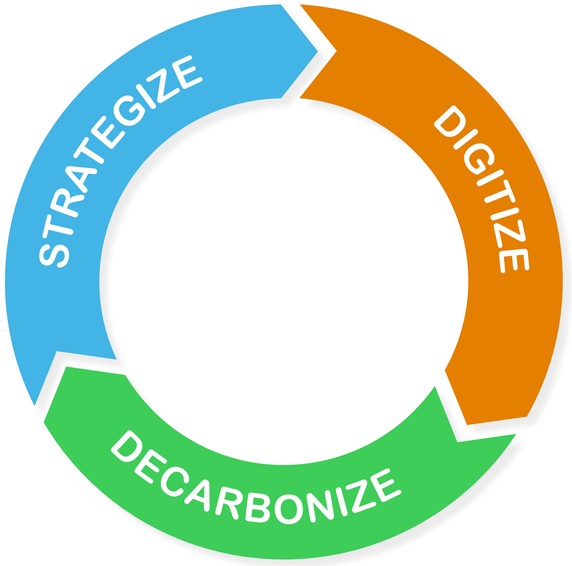
A proven 3-step roadmap for retrofits

A proven 3-step roadmap for retrofits



Schneider Electric's simple, three-step approach bridges ambition with action to achieve financial and non-financial values. It will help you develop a well-designed strategy and execution plan.*

Schneider Electric experts can help you follow the roadmap to success.



- **Measure** enterprise baseline
- **Create** decarbonization roadmap
- **Structure** program and governance
- **Communicate** commitment
- **Engage** value chain

- **Monitor** resource usage and emissions
- **Identify** savings opportunities
- **Report** and benchmark progress

- **Reduce** energy use
- **Electrify** operations
- **Replace** energy source

** Note that the roadmap is flexible; steps can happen in parallel, and schedules can adjust for budget cycles or to minimize occupants' disruption.*

A checklist to get started

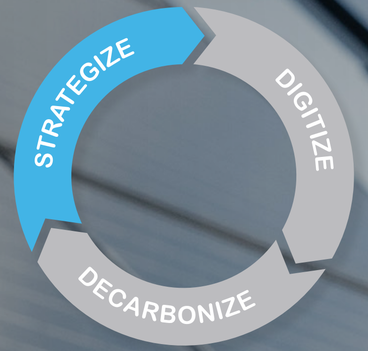
Our checklist helps you determine **where you are** on the sustainability roadmap and **what you need** to do next. It helps clarify your goals and opportunities to begin forming your strategy. Answer as many questions as you can.

IFMA™
Checklist co-developed with IFMA

Strategize	Digitize	Decarbonize

1	Do you know the current CO_2 emission of your building?	○ Yes ○ No
2	Do you have a plan and the budget necessary to reduce emissions of your building?	○ Yes ○ No
3	Has your organization defined its emissions baseline and committed to reach net zero carbon?	○ Yes ○ No
4	Does your organization have a net zero carbon roadmap?	○ Yes ○ No
5	If yes, are the business operating divisions and available budgets aligned with the execution of the plan?	○ Yes ○ No
6	Has your organization engaged sustainability champions to help drive transformation?	○ Yes ○ No
7	Have you identified local incentives that can support projects to meet your sustainability goals?	○ Yes ○ No
8	Are you measuring progress toward your sustainability goals?	○ Yes ○ No
9	Do you report progress toward your goals externally?	○ Yes ○ No
10	Are you seeking sustainability certifications for your buildings?	○ Yes ○ No

Your goal: Set net-zero strategy



Count your "Yes" answers to see your level for each of the steps

0-4	Beginner
5-7	Intermediate
8-10	Advanced

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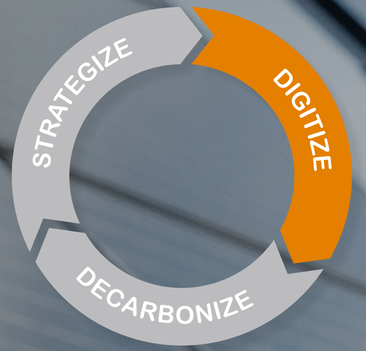
Checklist co-developed with IFMA

Strategize | **Digitize** | Decarbonize

1	Do you centralize your energy supply and utility data in a single platform across your portfolio?	○ Yes	○ No
2	Do you utilize building information modeling to capture carbon data from building materials and equipment?	○ Yes	○ No
3	Do you use a digital twin (virtual model) to simulate system(s) functionality within your building(s)?	○ Yes	○ No
4	Are you currently using sub-metering to collect energy data from your equipment? (meters, controllers, etc.)	○ Yes	○ No
5	Are you using smart circuit breakers for circuit-level energy monitoring?	○ Yes	○ No
6	Do you monitor energy efficiency and equipment performance using building analytics software?	○ Yes	○ No
7	Do you monitor asset health to extend equipment life contributing to reduction of carbon emissions using asset analytics software?	○ Yes	○ No
8	Do you use energy management system (EMS)?	○ Yes	○ No
9	Do you monitor power quality using power analytics software?	○ Yes	○ No
10	Do you have automated systems installed for reporting on your key sustainability metrics?	○ Yes	○ No

Your goal: Monitor energy usage



Count your "Yes" answers to see your level for each of the steps

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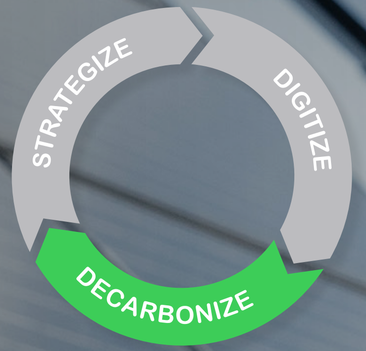
Strategize	Digitize	Decarbonize

1	Do you utilize building management systems to control equipment, systems and energy usage efficiently?	○ Yes ○ No
2	Do you use space utilization data for occupancy-based lighting and HVAC control?	○ Yes ○ No
3	Do you have the corporate renewable Power Purchase Agreement to buy offsite renewable energy at an agreed pricing scheme?	○ Yes ○ No
4	Do you have EV charging infrastructure to meet projected demand?	○ Yes ○ No
5	Have any of your major fossil-fuel-based loads (e.g., heating) been replaced by electric?	○ Yes ○ No
6	Do you have any on-site renewable sources of energy? (solar, geothermal, etc.)	○ Yes ○ No
7	Do you have any onsite energy storage (microgrid)?	○ Yes ○ No
8	Do you purchase energy attribute certificates (EACs) or carbon offsets for any residual emissions?	○ Yes ○ No
9	Do you purchase low-embodied carbon building materials and equipment?	○ Yes ○ No
10	Do you use a condition-based maintenance strategy to extend your equipment lifecycle?	○ Yes ○ No

Your goal: Reduce energy use

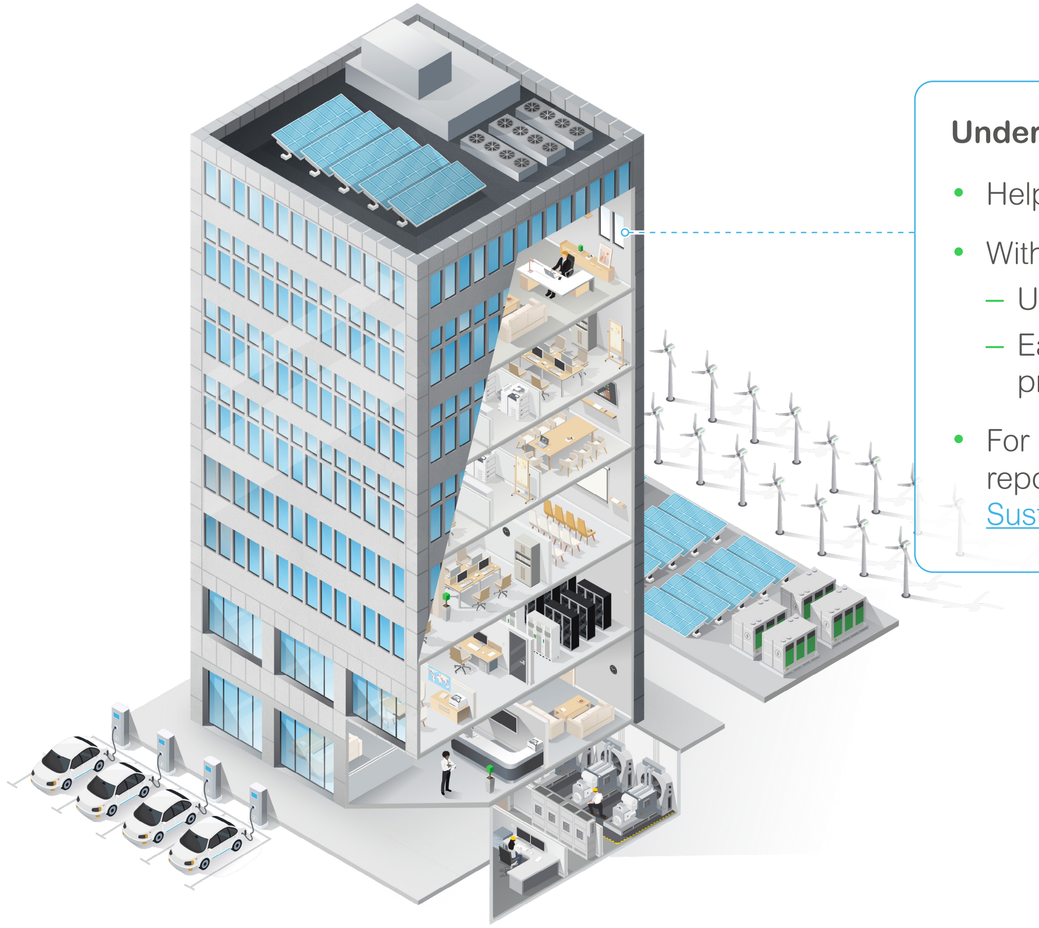


Count your "Yes" answers to see your level for each of the steps

0-4	Beginner
5-7	Intermediate
8-10	Advanced

Select your solutions for each step

Strategize: Establish a plan

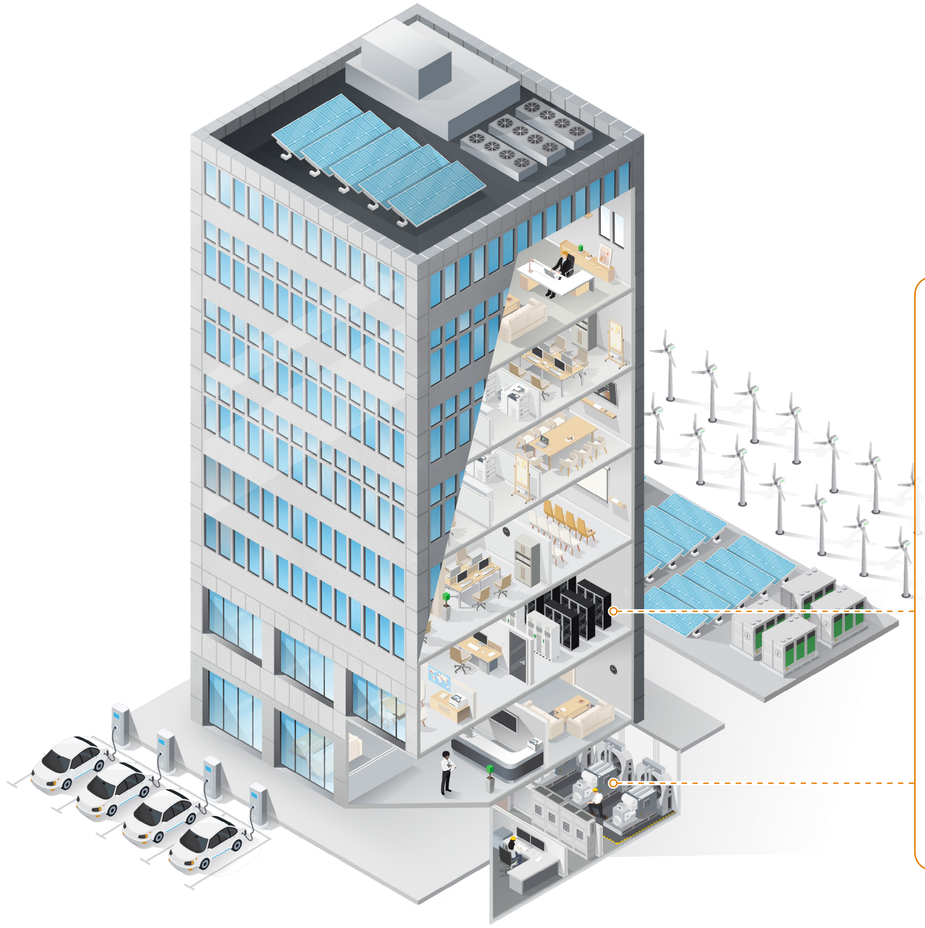


Understand where you are starting from, where you want to go, and how best to get there.

- Help your customer obtain the funding they need to move from strategy to action
- With tools like Zeigo Activate you can:
  - Understand your carbon footprint to calculate and measure your scope 1 and scope 2 emissions
  - Easily build an action plan by selecting a target and exploring an open marketplace of solution providers who can help you decarbonize
- For decarbonization or sustainability program structuring, governance, corporate reporting, or Scope 3 and full value chain decarbonization offers, rely on the expertise of Sustainability Consulting Services

Select your solutions for each step

Digitize: Insights to enable action



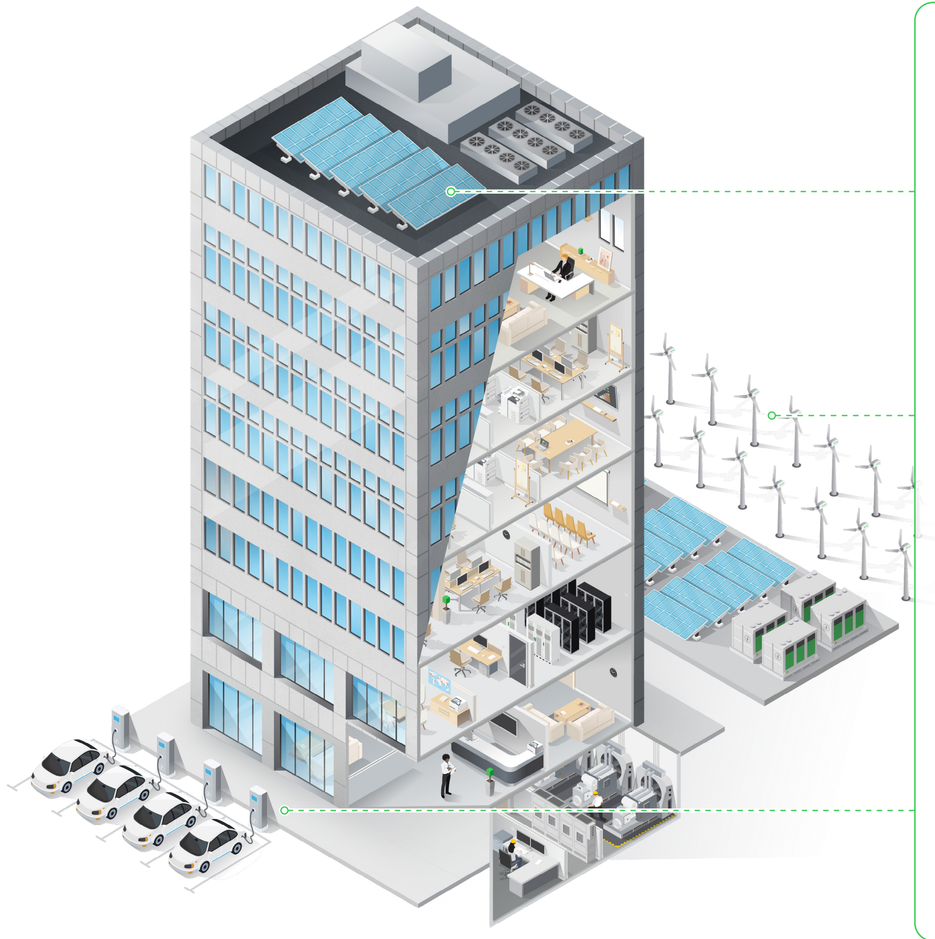
Measure and monitor your operational carbon performance with connected data.

- Ongoing energy and carbon tracking, benchmarking, and reporting can be performed with tools like EcoStruxure Resource Advisor
- Share your ideas in the Zeigo Network
- Power Metering can be deployed (PowerLogic Energy Meters, PowerLogic PowerTag, MasterPact MTZ and PrismaSet G Active) for more granular insights, with easy to digest dashboards available in EcoStruxure Energy Hub for small and medium buildings or more advanced EcoStruxure Power Monitoring Expert for large and critical buildings
- The Advisory suite of services and EcoStruxure Building Advisor carbon dashboard can identify opportunities for improved operations

Enable embodied carbon tracking leveraging a Building Information Modeling (BIM) for new build and major retrofit, such as RIB's MTWO Construction Cloud

Select your solutions for each step

Decarbonize: Deliver savings



Replace your energy supply to reduce scope 2 emissions with the right solutions:

- Procure renewable energy through Zeigo Power (offsite Power Purchase Agreements - PPA's)
- EcoStruxure Microgrid systems and solutions deliver improved reliability, resilience, and performance while making operations more efficient and sustainable

Prioritize electricity as source of energy to reduce Scope 1 emissions and take advantage of efforts underway to decarbonize the grid:

- Implement energy efficient EV charging infrastructure at workplace and commercial buildings with EcoStruxure for eMobility (EVlink Pro AC and EcoStruxure EV Charging Expert directly integrated into Building Management System)
- Electrify and upgrade building infrastructure by relying on design partners for guidance on major renovations

Reduce energy use and carbon emissions across the building lifecycle:

- Reduce energy consumption utilizing EcoStruxure Building Operation, EcoStruxure Connected Room Solutions with SpaceLogic Insight-Sensor, and Planon Integrated Workplace Management Solution for efficiency (reduces Scope 1 & 2)
- Reduce embodied carbon by purchasing Green Premium products that comply with environmental regulations while being transparent with disclosures and end of life instructions (addresses scope 3)
- Offset unavoidable carbon emissions (Scope 1, 2, and/or 3) with the expertise of our Sustainability Consulting Services

Whether you're just beginning your path to net-zero, have taken intermediate steps already, or are advanced on your journey, we can support you at every step.

Share your checklist answers with your local Schneider Electric representative to help evaluate your opportunities, build your business case, and develop your action plan to digitize and decarbonize.

For more information on the complete 3-step approach, download our eGuide, "Build It For Zero Carbon."

Create your sustainability retrofit project plan

Create your sustainability project plan

After you assess where your organization currently resides on the net-zero journey, it's time to structure your plan from buy-in through implementation.

1 Identify key stakeholders to secure sustainability plan buy-in

2 Define business KPIs - financial and non-financial

3 Calculate your sustainability plan's value

Identify key stakeholders

As a facility manager, you answer to a wide group of stakeholders requiring you to:

- √ Speak their language to understand their unique needs
- √ Map how sustainability opportunities align with their needs
- √ Build a business case to secure their buy-in, support, and funding
- √ Lead cross-function collaborations to uncover further decarbonization opportunities and optimize investments

Communications team

- **Marketing, Public Relations** – need to present sustainability commitments and progress

C-Suite and leadership team

- **Building Owner and Investors** – influence and approve CapEx projects

Business team

- **Finance** approves OpEx, needs clear evidence of ROI
- **I.T. Manager** – needs I.T. products that are manufactured sustainably, suppliers recognized for cybersecurity compliance, solutions easy to implement
- **Procurement Manager** – needs responsible and well-known suppliers
- **Quality Director** – needs high product quality, “green” products, regulatory compliance, and info on warranty expense
- **H.R. Director** – needs to confirm influence on space usage, occupant well-being, and health

Build your business case to get buy-in and budget

Your business case must include a calculation of the full scope of value that sustainability will bring your organization.

While decarbonizing buildings is good for the planet, occupants, and community–it should also be good for your bottom line.

Sustainability is a strategic and innovative initiative that can deliver:

- **Financial value** (important to the building and organization)
- **Non-financial value** (important to employees, tenants, and brand)

1. Identify financial values and KPIs

Reduce costs
Decarbonization efforts often include measures to reduce energy consumption, which should also reduce energy costs and help avoid non-compliance fines. These savings will help reduce OpEx.

KPI

Generate new revenues by selling renewable energy back to the grid
On-site generation further helps to reduce energy costs.

KPI

Improve productivity

KPI

2. Identify non-financial values and KPIs

Increase satisfaction
Sustainability and digitization can help increase tenant and employee well-being, safety, and health.

KPI

Promote environmental responsibility
Become a leader in driving sustainability in your community/region.

KPI

Strengthen brand image
Be a company brand ambassador by driving projects to achieve green building sustainability certifications.

KPI

Identify your bottom line and potential savings

Schneider Electric has worked on hundreds of successful building retrofit projects for our customers and our own buildings.

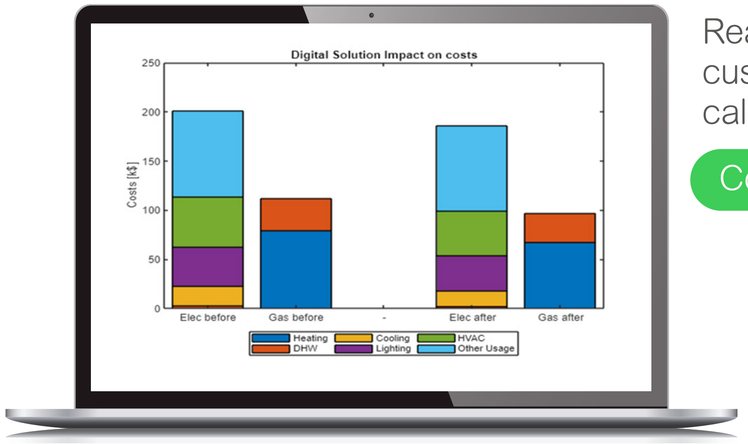
With that experience, we developed a method to help you easily calculate your sustainability project's business value.

We leverage regional data based on available sources from:

- ASHRAE classification (describing 14 building archetypes)
- EU BAC categories A, B, and C of building automation levels
- Characteristics of 19 climate zones
- Available electricity pricing and carbon taxes in various regions

We'll help you:

- Create a business/sustainability case to pre-assess business value, including financial ROI, CO_2 savings, and other financial and non-financial values.
- Evaluate available government incentives and funding.



Ready for a customized calculation?

Contact

Choosing a partner to accelerate transformation

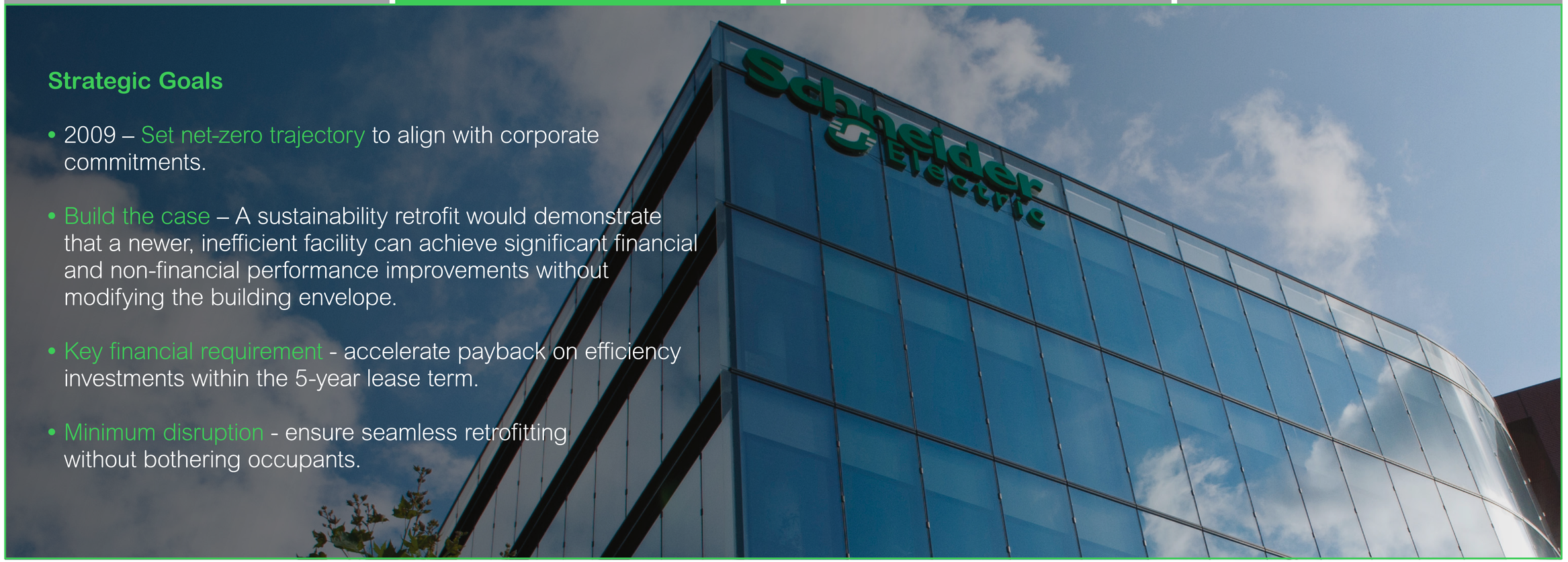
Le Hive | Retrofit for net-zero

Case Study | Le Hive

In 2008, Schneider Electric began leasing a 35,000m^2 facility to act as the Paris headquarters. The facility team quickly determined that the HVAC system was oversized and wasting energy, a problem common in many buildings.

One key management goal was to ensure that any retrofit project would bring an expected payback within the building's term lease.

Le Hive | Retrofit for net-zero

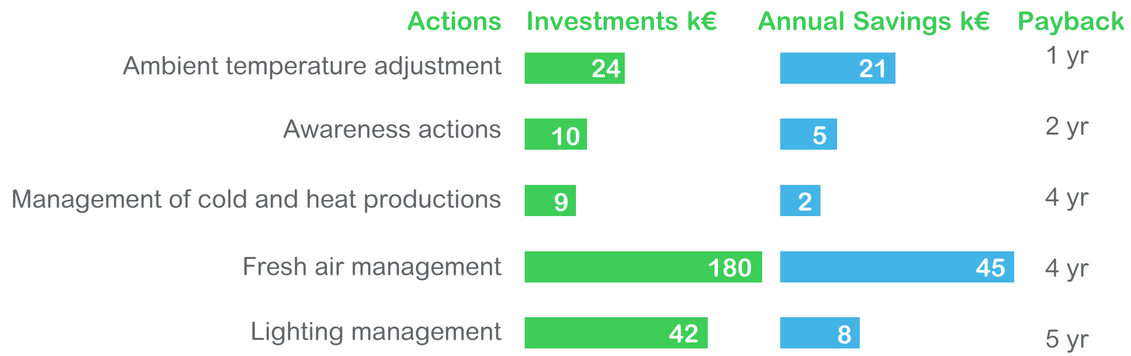


Strategic Goals

- 2009 – Set net-zero trajectory to align with corporate commitments.
- Build the case – A sustainability retrofit would demonstrate that a newer, inefficient facility can achieve significant financial and non-financial performance improvements without modifying the building envelope.
- Key financial requirement - accelerate payback on efficiency investments within the 5-year lease term.
- Minimum disruption - ensure seamless retrofitting without bothering occupants.

Le Hive | Retrofit for net-zero

- Performance baseline set by measuring the pre-renovation energy and CO_2 consumption.
- 3,500 connected products were configured to monitor and control 30,000 points throughout the facility to help manage energy, HVAC, lighting, blinds, cold beams in every open space and office, safety and security.
- New focus was created on reducing energy consumption, e.g., fine-tuning HVAC settings, analyzing performance, and identifying abnormal behaviors.



Financial results – ROI in < 5-year lease term

- **50% annual reduction in energy consumption**, from 150 kWh/m²/year in 2009 to 74 kWh/m²/year in 2014 (with continuous energy management year-over-year resulting in 45 kWh/m²/year).
- Reduced energy cost by 38% (HVAC, lighting, water temperature) in office spaces.

Non-financial results

- **First building** in the world with ISO 5001 compliance.
- **Improved equipment reliability and resilience** enabled by condition-based maintenance.
- **Reduced CO_2 footprint by 44%.**
- **Improved productivity with a modern BMS** to help decrease maintenance backlog, frequency, and the number of critical interventions.

Le Hive | Retrofit for net-zero

From 2015 through 2017, action was taken on two major renewable energy projects.

Actions	Investments k€	Annual consumption savings %	Payback
HVAC optimization	120	14%	7 years
Photovoltaic	630	7%	14 years
Geothermal	1300	9%	11 years

Financial results

Further reduction in energy consumption, from 150 kWh/m^2/year in 2009 to 43 kWh/m^2/year in 2021.

Non-financial results

- **Achieved additional CO_2 footprint reduction, reaching 76% from the baseline**
- On-site energy generation supplies the majority of total consumption: solar/PV (20%), geothermal (50%).
- Participation in grid response management program leverages renewable microgrid.
- Gained LEED Platinum and BREEAM building certificate.

Is it really possible for a 30-year-old building to become net-zero? Yes, it is.

By implementing the right smart devices, software, analytics, and services –every building can be made significantly more efficient, healthy and sustainable – with minimal disruption.

See how our Singapore HQ achieved this.

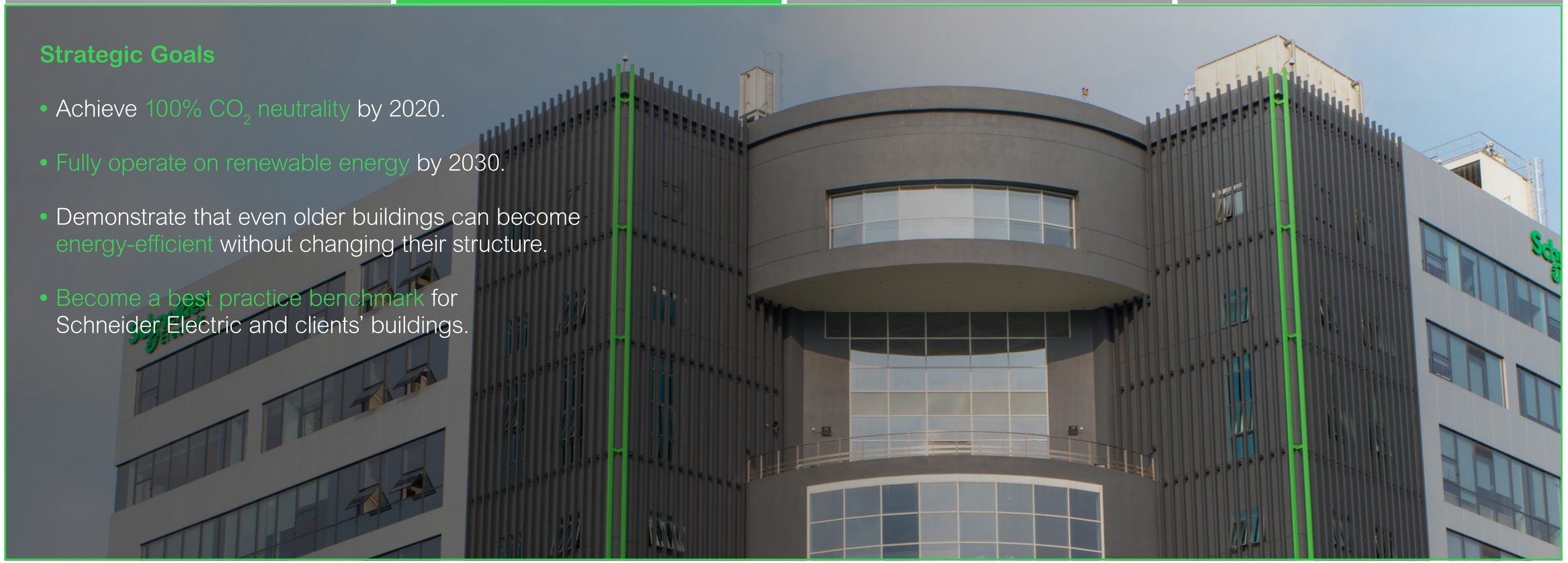
Let us help you operate with sustainability over the entire lifecycle of your buildings. Visit the Schneider Electric website to learn more about making each of your facilities a Building of the Future.

Kallang Pulse | A fast track to carbon neutrality

Case Study | Kallang Pulse

Built in 1995, the 18,500m^2 Kallang Pulse facility in Singapore – Schneider Electric's HQ for East Asia and Japan regions – reduces the company's real estate footprint by combining four offices. It was completely modernized in 2018.

Kallang Pulse | A fast track to carbon neutrality



Strategic Goals

- Achieve 100% CO_2 neutrality by 2020.
- Fully operate on renewable energy by 2030.
- Demonstrate that even older buildings can become energy-efficient without changing their structure.
- Become a best practice benchmark for Schneider Electric and clients' buildings.

Kallang Pulse | A fast track to carbon neutrality

- Reduced passive energy by installing 5000+ IoT points, including smart connected products, HVAC controls and lighting management.
- Installed first renewable energy sources to supply energy all day, including 80 rooftop solar panels supplying 12 EV chargers.
- Installed active energy management technology that integrates building and power management systems.
- Installed magnetic bearing chiller with VSD that regulates speed according to demand, helping achieve a higher efficiency rating.
- Implemented an engagement app that sends critical updates and helps employees navigate the office space.

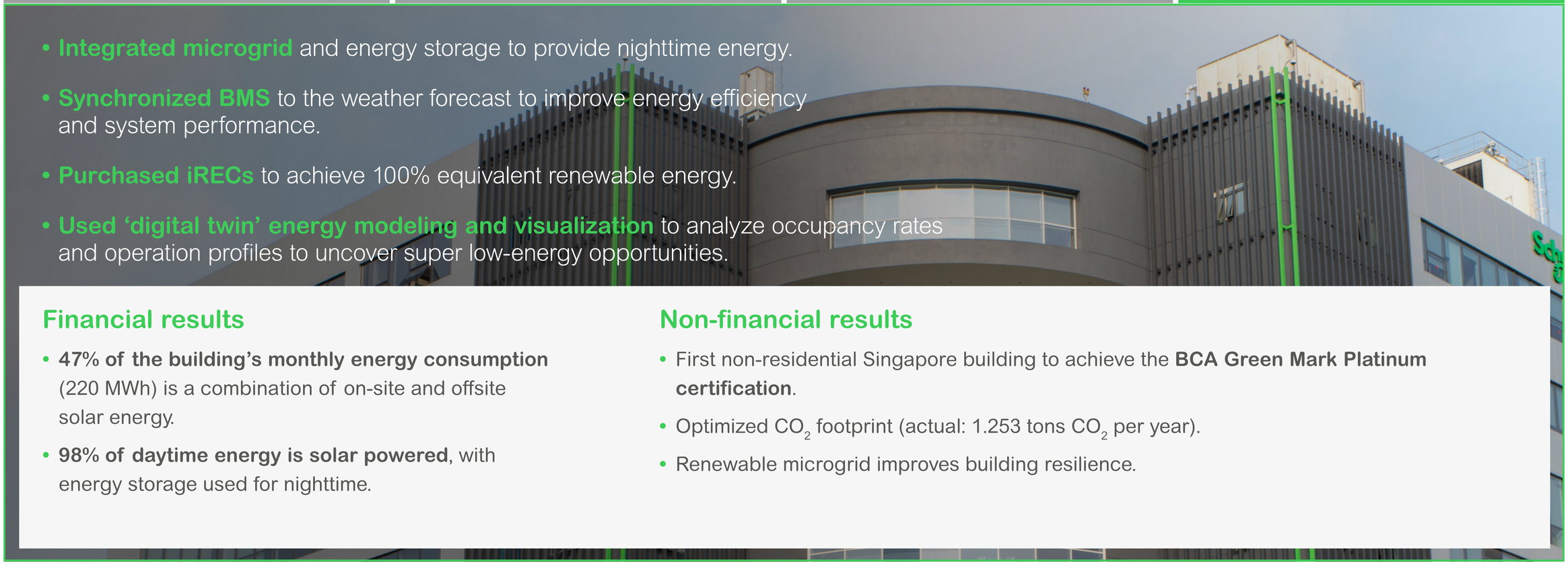
Financial results

- **45% electrical energy savings** in just 3 years, from 235 kWh/m^2/year in 2018 to 125 kWh/m^2/year by 2021.

Non-financial results

- **69% People Satisfaction Index** - Safe distancing, occupancy levels control, adaptive lighting and temperature, and occupant control of office navigation, comfort, room booking, and more.

Kallang Pulse | A fast track to carbon neutrality



- **Integrated microgrid** and energy storage to provide nighttime energy.
- **Synchronized BMS** to the weather forecast to improve energy efficiency and system performance.
- **Purchased iRECs** to achieve 100% equivalent renewable energy.
- **Used ‘digital twin’ energy modeling and visualization** to analyze occupancy rates and operation profiles to uncover super low-energy opportunities.

Financial results

- **47% of the building’s monthly energy consumption** (220 MWh) is a combination of on-site and offsite solar energy.
- **98% of daytime energy is solar powered**, with energy storage used for nighttime.

Non-financial results

- First non-residential Singapore building to achieve the **BCA Green Mark Platinum certification**.
- Optimized CO_2 footprint (actual: 1.253 tons CO_2 per year).
- Renewable microgrid improves building resilience.

Choosing a partner to accelerate transformation

Schneider Electric is recognized for its best-in-class sustainability practices, voted "World's Most Sustainable Corporation" by Corporate Knights.

As a company, we have committed to being carbon neutral by 2025 and net-zero in our operations by 2030, far surpassing the traditional 2050 target. We are committed to enabling a positive change for our customers, facilities, employees, community, and planet.

Schneider Electric is your trusted partner to help you reach your retrofit sustainability goals by:

- **Helping you navigate sustainability opportunities and risks to develop your business case**, save time establishing an optimized decarbonization roadmap, then operationalize to deliver value and ROI.
- **Providing local experts to help you assess global and local incentives** and certification points, helping you become green-certified and compliant.
- **Helping you select the right solutions** from our EcoStruxure portfolio, including innovative technologies and advisory services tailored to your unique facilities, needs, and budget.
- Enabling effective, affordable, and sustainable solutions using our **'green by design'** Green Premium products.
- Delivering components, systems, and connectivity that are **'cybersecure by design.'**

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North America			
Program	Amount	Description	Learn more
American Jobs Plan Act	$213 B	Includes building, preserving, and retrofitting homes and commercial buildings, modernizing schools and childcare facilities, and upgrading veterans' hospitals and federal buildings.	https://www.whitehouse.gov/briefing-room/statements-releases/2021/03/31/fact-sheet-the-american-jobs-plan/
US Infrastructure and Jobs Act	$1.2 Tr	Includes a $65 B investment in power infrastructure. This spending is aimed at accelerating the modernization of infrastructure and the low-carbon energy transformation in the US.	https://www.whitehouse.gov/bipartisan-infrastructure-law/#powerinfrastructure
Canada Infrastructure Bank's Growth Plan	$2 B	The CIB's purpose is to invest $35 B in revenue-generating infrastructure. Its investments focus on priority sectors: green infrastructure, clean power, public transit, trade and transportation, and broadband infrastructure. $2 B is dedicated towards energy-efficient building retrofits.	https://mccac.ca/funding-guide/canada-infrastructure-bank-growth-plan/
Europe			
European Green Deal	€672 B	The largest stimulus package in the history of the world. A minimum of 37% must be invested in projects that support climate objectives. And a minimum of 20% must be invested to foster the digital transition.	https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en
UK Green Recovery	£2 B	Of which £1 B is reserved to make commercial buildings greener, including hospitals. It will fund energy efficiency and low-carbon heat upgrades.	https://www.greenrecovery.uk
UK Public Sector Decarbonization Scheme	£1.425 B	The scheme provides grants for public sector bodies to fund heat decarbonization and energy efficiency measures. The scheme supports the aim of reducing emissions from public sector buildings by 75% by 2037, as set out in the 2021 Net Zero and Heat and Buildings strategies.	https://www.gov.uk/government/collections/public-sector-decarbonisation-scheme
APAC			
Korea's Green Deal	$135 B	The largest green stimulus packages are seen to date. The $135 B Korean New Deal commits to $62 B green funding before 2025. It includes significant funding for renewables (solar and wind), implementing "smart grids," and support for electric and hydrogen vehicles and energy efficiency in buildings. Also included are circular economy initiatives, such as reducing and re-using energy in factories, using smart power grids, carbon capture and storage, and reusing industrial materials.	https://www.ey.com/en_au/government-public-sector/can-we-warm-a-cooling-economy-by-cooling-a-warming-planet
Australian Emissions Reduction Fund	$2.55 B	The Government will purchase the lowest cost abatement (in the form of Australian carbon credit units) from a wide range of sources, providing an incentive to businesses, households, and landowners to reduce their emissions proactively.	https://www.cleanenergyregulator.gov.au/erf

Life Is On | Schneider Electric

To learn more about retrofitting for sustainability and net-zero goals, visit:

se.com

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