



Sustainability for every industry: Global case studies

Meet Microsoft customers worldwide
who drive progress with data and AI



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Introduction

Sustainability for every industry

In this booklet, you'll meet Microsoft customers from around the globe who use data insights and AI to accomplish ambitious sustainability goals.

While some customers have been working on sustainability for longer than us, and others are just starting, we all share similar concerns. Every customer needs data and insight to guide their roadmap and drive positive business outcomes.

We believe the path forward will be found by all of us working together, supported by advanced technologies—specifically, tools and solutions that empower employees to do more with data, analytics, and responsible use of AI.

We hope these stories inspire your organization throughout your sustainability journey.

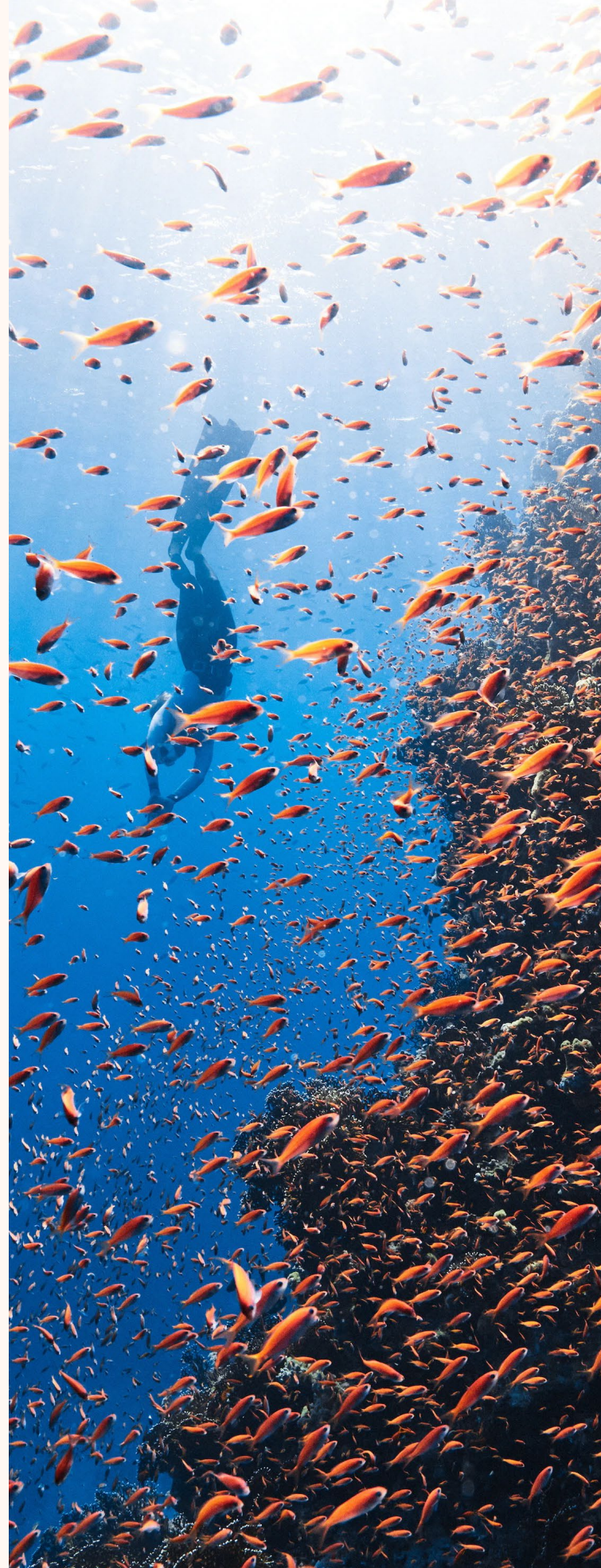
As you read, look for these icons to learn how AI and data are helping organizations and people achieve more.



AI solutions



Data solutions



Microsoft Cloud for Sustainability

As organizations navigate the convergence of their growth opportunities and sustainability goals, they need efficient ways to gain deeper insights. Meanwhile, regulations continue to increase, consumers want evidence of brands' values, and investors—who are closely tracking these shifts—expect visibility into enormous quantities of complex data.

Microsoft and our partners are combining the power of data analytics, responsible use of AI, and specific sustainability solutions, so we and our customers can go faster, together. This approach delivers business value and sustainability outcomes, in areas ranging from operational efficiencies to new product offerings.



Södra plants a seed for climate neutrality with Microsoft Sustainability Manager

International forest industry group Södra has set itself ambitious sustainability goals. A collection of more than 50,000 family foresters in southern Sweden with an encompassing range of products, the association estimates that its positive climate impact is roughly equal to one-fifth of Sweden's emissions. Södra became the industry giant it is today through its forward-thinking, innovative approach. The association's intent focus on sustainability—not just for its industry or even its nation, but the planet—led it to its current drive to collect and interpret climate impact data for every part of the value chain. That's why Södra is setting the pace for sustainability in its industry with Microsoft Sustainability Manager, a solution within Microsoft Cloud for Sustainability.

Building a forest legacy

Södra is a unique organization, acting as a bridge between 52,000 forest owners in Sweden and the industries that depend on their forests for wood. Many of the forest owners manage stands that have been in their families for centuries. They value these living assets not just as an economic resource, but as a precious commodity to be protected and nurtured for the generations to come. "Our members and the three thousand workers at Södra are genuinely committed to sustainability," says Cristian Brolin, Chief Digital Officer at Södra. "It's what we believe in, not something we do for a yearly audit."

Eva Gustafsson, Sustainability Strategist at Södra, describes a complex matrix of sustainability that her team must collect and analyze. In keeping with Södra's growing emphasis on sustainability, the team receives detailed questions about its climate impact, like how purchasing a given chemical or the various options for transporting goods affect the organization's emissions levels. Such a focused question could take several hours of one analyst's time to answer, and collecting data from myriad sources ate a large proportion of the sustainability team's time.

A new approach came in the form of Microsoft Cloud for Sustainability, which Södra deployed as a private preview. Södra's extensive Microsoft solution expertise perfectly intersected with Microsoft's introduction of Microsoft Cloud for Sustainability. "We felt that IT needs to be a part of answering the sustainability question," says Brolin. "We trust Microsoft solutions, so we decided to work with Microsoft to automate sustainability reporting with Sustainability Manager much faster than ever before."

Powering sustainability with deeper insights

As a Business Architect at Södra, Anders Jörnehag unites nontechnical departments like Gustafsson's Sustainability team with IT. "Sustainability isn't constrained by organizational or system

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"We trust Microsoft solutions, so we decided to work with Microsoft to automate sustainability reporting with Sustainability Manager much faster than ever before."

boundaries," he notes. "That's why we embarked on this project. We're helping our internal teams use Sustainability Manager to collect and analyze companywide sustainability data faster for more timely reporting." Adds Brolin, "Data is key to helping us understand how much of a tree should go to timber and how much to pulp and other products. We use modern AI tools to understand how to maximize the value of every tree."

For Gustafsson, the partnership with IT represented a huge step forward for her sustainability wish list. "Until now, we haven't had a way of knowing when to ask about new data flows or other changes another department might make to their sustainability data," she comments. "With Sustainability Manager, we have the visibility we need to help the rest of the organization manage its impact. We also have granularity and speed of analysis that has never been possible before."

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OSTP



OSTP moves toward CO2 emissions neutrality with Microsoft Sustainability Manager

Finland manufacturer OSTP Group specializes in welded stainless steel tubular products and custom equipment for pressure corrosion applications. In pursuit of ambitious sustainability goals, OSTP built a digital platform featuring Microsoft Cloud for Sustainability, Sustainability Manager, and other Microsoft technologies to report on available CO2 emissions information. The platform utilizes Sustainability Manager to unify OSTP's data intelligence and provide an increasingly automated and comprehensive view of the emission's impact of the company's operations and value chain.

"The OSTP Sustainability Manager implementation enables us to gather all the data that we need for our sustainability reporting in an automated way. It also allows us the possibility of applying AI to aid our decision-making to optimize our sustainability roadmap," says Anders Brännbacka, Operations Development Manager, Jakobstad and Digitalization Coordinator at OSTP Group.

[Read the full story](#) →



AI

PwC utilizes Microsoft Sustainability Manager to champion sustainability

PwC has a passion and commitment to help climate transition as the world moves forward into the future. As a broad consulting services company, PwC helps its clients with comprehensive services, including meeting their growing regulatory commitments and enabling companies to embed sustainability into their operations.

"We support clients during every phase of their journey," says Sammy Lakshmanan, Sustainability Partner at PwC US. "Our clients have varying levels of sustainability and sustainability maturity and aspirations—those that may not want to be the sustainability leader but are still interested in developing and executing a strategy around sustainability and those that are completely looking to transform their business models through a sustainability lens. No matter which client we're working with, our relationship with Microsoft is key to bringing our clients the right solution."

[Read the full story](#) →

More cloud for sustainability stories

King Steel powers the global shoe industry's green transformation

"Everyone has become more proactive and creative because the easy access to data can help support their claims and new initiatives. Now, if someone has an idea that is right, we implement it."

—Jim Chen: CEO, King Steel



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Cognite Data Fusion® and Microsoft Sustainability Manager provide simple access to complex industrial data

"All of the strengths that Cognite brought and all of the strengths that Microsoft Sustainability Manager could bring created this really great combination between the two."

—Carolina Torres: Executive Director of Energy Industry Transformation, Cognite



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Kingfisher reduces its digital carbon footprint

"With Microsoft Sustainability Manager, we monitor resource allocations to ensure our digital carbon footprint is as small as possible and our resources are being used efficiently and effectively—not simply sitting there consuming unnecessary power and cooling."

—Bryan Evans: Chief Information Officer, Kingfisher



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ICONICS delivers facilities optimization and reporting with Microsoft Sustainability Manager

"Our customers can publish data collected by ICONICS to Microsoft Sustainability Manager for ESG reporting. ICONICS provides the ongoing operational insights and dashboards to improve operations and sustainability objectives."

—Kyle Reissner: Vice President of Product Management, ICONICS



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Even more cloud for sustainability stories

Allegiant Stadium and Las Vegas Raiders drive sustainable operations with Microsoft technology

"Microsoft has deep expertise and experience that really helps us unlock the value of our data, and we know that Microsoft is always developing new, leading-edge technologies like the Cloud for Sustainability that we've started exploring."

—Scott Erdmann: Senior Director for Corporate Partnerships,
Las Vegas Raiders



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The BBC embraces technology to support its net-zero journey

"Our implementation of Microsoft Sustainability Manager goes all the way down from division level to cost centre level, so we have a holistic overview... It enables us to capture the carbon emissions related to each cost centre and that's powerful."

—Danielle Mulder: Group Director of Sustainability, BBC



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ICONICS puts IoT to work for a sustainable future

"...If you were to serially work your way through all the building improvements, you would always have out-of-tune systems. Inefficiencies creep back into those buildings as soon as you move on to the next building. With ongoing commissioning, the buildings tell the facilities maintenance team what needs to be tuned, and when."

—Kyle Reissner: Product Management Director, ICONICS



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Telstra and Microsoft partner to achieve climate targets

"Our strategic partnership with Microsoft is on a scale not seen before in Australia, and it will be Australian businesses who will benefit at a time when the urgency to digitise and transform their operations has never been greater."

—Andrew Penn: CEO, Telstra



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And even more cloud for sustainability stories

Ingredion aims to make the world a better place for using powerful sustainability data

"Cloud for Sustainability will help us develop differentiated strategies, quickly spot areas for improvement, act on them, and evaluate the results against our sustainability targets."

—Brian Nash: Vice President of Corporate Sustainability, Ingredion



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Grupo Bimbo accelerates its sustainability journey with Microsoft Cloud for Sustainability

"Microsoft has done a lot of work around sustainability itself, and it was important for us to work with a technology supplier that shares our values."

—Juan Pajón: Business Technology Global Senior Vice President,
Grupo Bimbo



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Automotive, mobility, and transportation

Decarbonizing the equipment and systems that serve humanity's mobility needs begins with data. From identifying opportunities for fleet efficiencies to implementing smarter IoT-supported infrastructure, Microsoft customers are leveraging cloud-based, AI-driven tools to lead their organizations—and the industry—into our shared net-zero future.



SWM relies on Azure IoT, AI, and big data analyses

Stadtwerke München (SWM), the municipal utilities company serving Munich, has made it its mission to drive every aspect of the city's energy, heating, and mobility transition forward. Making this happen hinges on establishing smart connectivity for all areas of infrastructure. To this end, SWM relies on INSIGHT, a data-driven digital transformation solution it developed in-house and based on Microsoft Azure IoT, big data analyses in the Azure cloud, and AI.

The challenge: Connecting large amounts of data from different sources

"We need a scalable solution with services specifically designed to process and analyze big data," says Martin Klaus, IoT and Data Lab Team Leader at SWM. "At the same time, we wanted to establish a data platform that brings together the various data sources and formats, makes these understandable at a glance, and is set up to handle future integrations. With their managed services, Microsoft Azure, Azure IoT, and Azure IoT Hub really fit the bill. In combination with artificial intelligence, we have the predictive processes we require."

The solution: Azure makes bus service more efficient and sustainable

Today, the first step toward automation and optimization is being taken in procurement. Take an electric bus, for instance: each one SWM buys is fitted with a manufacturer-agnostic IoT edge device, which collects technical data—including battery charge, engine speed, and activation of warning lights—in real time in accordance with all relevant regulations. The data provided by the 120 or so sensors is then sent to the INSIGHT platform, which is based on Azure. The result is a digital twin of each bus. "As a result, SWM depots always know the condition of each bus, which means they can resolve malfunctions faster, optimize repair processes, and practice predictive maintenance," says Dr. Denis Bytschkow, Software Engineer at SWM. "This makes the processes for scheduling and maintaining the vehicles more efficient."

"Thanks to Azure IoT and the Azure cloud platform with their big data and AI services, we can offer the departments end-to-end support and deliver extremely quickly. This frees up capacity for new ideas and innovations, especially when it comes to sustainability," Bytschkow adds. "The scalable infrastructure of Azure lets us design our architecture, not according to peak loads, but flexibly to match our actual demand. In the spirit of sustainability, we use only the power that we actually need."

In this way, the INSIGHT IoT and AI solution developed by Klaus and his team helps SWM to do more than digitally map infrastructure processes and assets, establish data visibility, and optimize processes. It is also playing a major role in Munich's transformation into a connected and sustainable smart city.

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"With their managed services, Microsoft Azure, Azure IoT, and Azure IoT Hub really fit the bill. In combination with artificial intelligence, we have the predictive processes we require."



ARKAS

Arkas Holding achieves 99.58 percent carbon savings by migrating to Microsoft Azure

One of Turkey's largest international companies, Arkas Holding provides end-to-end logistics services with 61 companies, 59 offices, and 7,300 employees in 23 countries. With 25 ships in its maritime merchant fleet, it is also one of the top 30 shipowners in the world.

Arkas Holding puts sustainability at the center of its operational and technological infrastructure investments. By migrating to Azure, Arkas Holding achieved 99.58 percent carbon savings, with 62 percent coming from operational, equipment, and data center infrastructure efficiencies, and 38 percent from renewable energy purchases.

[Read the full story](#)

First



FirstGroup reduces emissions with Azure Arc and Azure Monitor

As one of the United Kingdom's leading public transportation providers, FirstGroup knows how to make the trains and buses run on time. When FirstGroup needed to find a quick and easy way to add stronger, centralized management and monitoring to its digital infrastructure, it looked to the cloud. FirstGroup enlisted the help of a leading Microsoft Azure cloud partner, Servent, to help design and implement reliable management and monitoring. And FirstGroup anchored its solution with Azure Arc and Azure Monitor.

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More automotive, mobility, and transportation stories

airBaltic's ground team goes digital with Microsoft Teams and Power Apps

"Our vision sees airBaltic becoming a sustainable carrier in the European Union's aviation market. With post-flight reports, we'd normally have 1,000 pages printed each month. Now, we have none. Instead, selected reports are emailed to our managers automatically."

—Arturs Erdmanis: Head of Riga Ground Handling, airBaltic

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CTT - Correios de Portugal reduces emissions with Azure

"As we migrate our workloads to Azure, we can analyze and adjust resources accordingly, reducing and increasing capacity as needed."

—Paulo Costa: Infrastructure Monitoring and Collaboration Manager,
CTT - Correios de Portugal



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DKV Mobility draws on Microsoft Azure to ensure efficient and sustainable supply chains and vehicle fleets

"Opting for Microsoft was a no-brainer: we've been using Microsoft 365 for a long time now and are moving toward Dynamics 365. Choosing Azure as the cloud platform and taking advantage of the synergies this offers thus made perfect sense."

—Patrick Dahlmann: Head of Customer Product Services, DKV Mobility

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Energy and resources

Microsoft energy and resources customers are discovering how a cloud-first, AI-driven approach can accelerate sustainability practices and business growth, from energy storage solutions to the development of highly advanced batteries.





Vestas moves to Microsoft Azure high-performance computing for reliability

With more than 40 years of experience in wind energy and wind turbines installed in 88 countries, Vestas strives to be the global leader in sustainable energy solutions. The company requires vast amounts of computing power to perform turbine simulations that ensure the proper configuration and placement of turbines and wind farms to maximize energy output and prolong equipment life. Vestas's on-premises supercomputer couldn't keep up with an extensive simulation queue, resulting in business delays. By moving to Azure and Azure high-performance computing, Vestas has improved reliability and capacity while reducing maintenance overhead and costs. This is opening new product and service opportunities while helping ensure a greener future for the planet.

A matter of sustainability

Vestas has avoided 1.9 billion tons of CO2 through the company's work designing, building, installing, and maintaining wind turbines and other renewable energy sources around the planet. That's the equivalent of taking millions of cars off the road for a year (Source: [United States Environmental Protection Agency](#)). "We want to be the world's most sustainable energy company," says Kim Emil Andersen, Senior Vice President of Applications, Controls, and Electrical at Vestas. "And we are constantly seeking ways to improve performance and decrease our carbon footprint."

To remain a leader in the increasingly competitive non-fossil energy space, Vestas needs to respond quickly to customer needs. It depends on a powerful and robust IT infrastructure to facilitate that effort and run the company's key workloads, which require vast amounts of computing power.

When its legacy on-premises system couldn't meet computing demand, Vestas evaluated cloud-based alternatives against a wide range of criteria and chose an Azure-based solution.

Building out a partnership with Microsoft

Vestas appreciated the assistance Microsoft provided. "We received extremely strong support with all phases of the migration, from planning through execution," says Andersen. "The Microsoft team shared knowledge and best practices, helped us avoid pitfalls and pain points, and provided expert assistance when we did stumble and needed help."

A key to success was the ability to blend the Microsoft solution into a complicated IT ecosystem. "Microsoft has unparalleled capability to ensure proper interoperation between Azure high-performance computing and our many existing systems and applications," says Peter Enevoldsen, Vice President and Module Owner of Modelling & Analytics. "I've never witnessed anyone else as good at this—taking us by the hand and making sure that all parts work properly together and that we have the proper change management in place."

[Read the full story](#) →



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“The Microsoft team shared knowledge and best practices, helped us avoid pitfalls and pain points, and provided expert assistance when we did stumble and needed help.”



gasunie

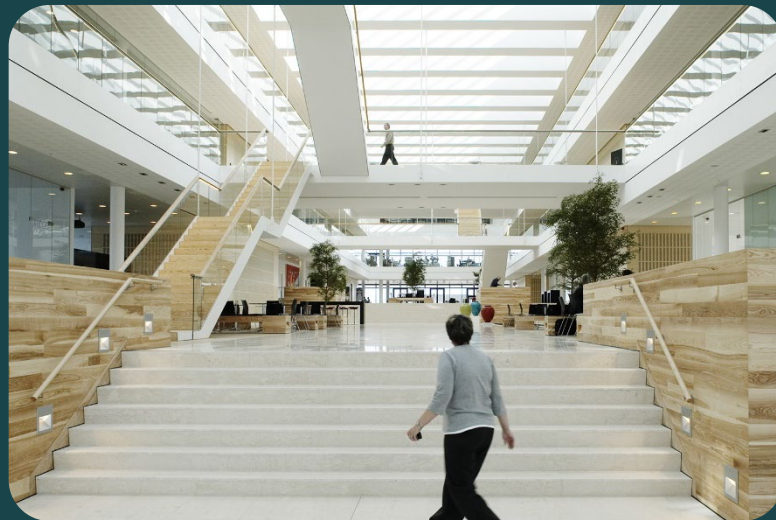


Gasunie drives sustainability and efficiency with Microsoft Intelligent Data Platform

Dutch energy network operator Gasunie is a key energy player in the Netherlands and beyond. Traditionally a gas provider, the company is on a mission to drive more sustainable resources, such as hydrogen, and facilitate the European energy transition. To do that, Gasunie has built an intelligent data platform and put it at the heart of its data-driven activities, making it the single source of truth for insights to support daily operations. Powered by Microsoft, the platform is poised to play a central role in supporting the energy transition.

“We needed a more modern solution that allowed all of us easier access to it, better control of the data and more scalability. For us, that solution was Microsoft Intelligent Data Platform,” explains Peter Scholtens, IT manager.

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ENERGINET

Energinet keeps the lights on with a digital platform built on Microsoft Azure

Energinet is the state-owned entity responsible for the supply of electricity and natural gas for all of Denmark. As more wind and solar power were added to the grid, the organization wanted to improve operational efficiencies. Central to this optimization is the automation of operational processes through a digital solution. Energinet chose to embark on a digital transformation effort that included moving from its constraining legacy solution and infrastructure to the digital drift planning (DDP) platform, a new digital operating system based on Azure technology. Besides automating market-based balancing to manage supply and demand fluctuations, DDP also supports the utilization of critical infrastructure, further contributing to Denmark’s endeavors in renewable energy and sustainable business practices.

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More energy and resources sustainability stories

Duke Energy develops new methane-emissions monitoring platform on Microsoft Azure with Accenture and Avanade

"This platform will re-imagine how natural gas local distribution companies calculate methane emissions and perform leak surveys and improve the expediency in which leaks may be repaired, resulting in dramatically lower methane emissions."

—Brian Weisker: Senior Vice President and Chief Operations Officer, Natural Gas, Duke Energy



AI

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Northvolt: On a mission to manufacture the world's greenest battery

"With Dynamics 365 we have blueprinted an ERP solution that we can roll out in three months to new factories. That is something I have never seen before—that is really amazing."

—Fredrik Ohlsson: CIO, Northvolt



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INPEX migrates AVEVA PI System to Azure to support sustainable energy development

"'Fewer failures' is a very important concept for stable operations of a system, and since Azure has a solid track record for stability, we considered it as first choice from the beginning."

—Kohei Kawamura: Digital Strategy & Planning Group, Information Management & Technology Unit, INPEX Corporation



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Hilo helps Quebecers optimize energy use by predicting demand with Microsoft Azure Data Explorer (ADX)

"We wanted a reliable, intuitive, and powerful platform that could generate dashboards and be used by everyone, from power users to business analysts. ADX has given us all of that."

—Oisin Grehan: Platform Architect, Hilo



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Enerjisa Üretim transforms sustainable energy management with Microsoft Azure and AI

"If you were to do this manually, you'd need a team with at least an energy expert, a market expert, and a meteorological expert. It would take a week to compile this. With Generative AI, we get an answer in seconds."

—Ali İnal: Deputy General Manager, IT and Digital Business



AI

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Even more energy and resources sustainability stories

The US Department of Energy and Microsoft utilize AI to find a better battery

In just 80 hours, the Microsoft Quantum team used AI to screen 32 million materials to find 18 promising options for a more sustainable battery. "We think there's an opportunity to do this across a number of scientific fields... Recent technology advancements have opened up the opportunity to accelerate scientific discovery."

—Brian Abrahamson: Chief Digital Officer, US Department of Energy, Pacific Northwest National Laboratory



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bp advances net-zero goals with help from the Microsoft Intelligent Data Platform

"Our net zero aims and sustainability frame are fundamental to our strategy and data underpins these in a multitude of ways... Data both drives and validates our progress."

—Abeth Go: Vice President of Data & Analytics Platforms, bp



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SSE expands offshore wind capacity while protecting the ecosystem, with the help of AI

"The species recognition project started around 18 months ago as part of ideation sessions that were held with Microsoft and SSE Renewables... Once we'd validated that the tool could be used against this imagery and video, we then decided to run a live trial which we're conducting now on the Isle of May."

—James Scobie: Digital Improvement Lead, SSE Renewables



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Revolutionizing water supply in Ghana with Microsoft Azure: Ghana Water Limited's digital transformation

"Now, all regions are connected via Azure. It means that at any time we can generate and access any report, and it will be accurate and factual at the time we generate it."

—Stephen Tsetsekple: Chief Manager Technology and Innovation, Ghana Water Limited



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And even more energy and resources sustainability stories continued

World's first water ecological digital twin on Microsoft Azure helps Anglian Water protect river health

"We can drive new solutions to improve river health. We can help our operations colleagues who are managing assets on a day-to-day basis. We can do it more cheaply, more effectively and with a smaller carbon footprint."

—Chris Gerrard: Catchment and Biodiversity Manager, Anglian Water

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The Société du Canal de Provence utilizes Microsoft Azure to manage water supply in the face of climate change

"Thanks to Power BI, we are not only able to precisely visualize water consumption but also to identify the areas with the highest consumption at any given time. This is a real decision-making aid."

—Frédéric Bonnadier: Project Manager, Société du Canal de Provence



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PWN counters climate change with smart use of data on Azure

"I'm convinced that the ease of extracting and visualizing data with SAP on Azure with Power BI will help us to manage our three billion euros' worth of assets optimally, to the benefit of our customers."

—Gijs ten Bosch: Chief Operations Support Officer, PWN



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Enexis leads on energy transition with Microsoft Mixed Reality technology and the industrial metaverse

"The energy transition is happening, and it's happening now. But for that to succeed, we need to change. We cannot proceed at the same pace as the past hundred years."

—Rutger van der Leeuw: Chief Operating Officer, Enexis Netbeheer

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EDP powers the global energy transition using Microsoft Intelligent Data Platform, AI, and IoT technology

"More than the technology itself, it's the impact this project is having on our people that's truly outstanding. You can just see how much more empowered, aware and inspired to innovate they've become."

—Nelson Pinho: Global Director for Digital Strategy & Architecture, EDP



AI

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Financial services



Financial services organizations are positioned to help lead the world's transition to net zero. Regulatory developments such as the 2023 EU Corporate Sustainability Reporting Directive (CSRD) and the 2024 US Securities and Exchange Commission (SEC) reporting requirements will generate broad and complex impacts in every sector, accelerated by public demand. Investors, insurers, and lenders worldwide will need agile, accurate data insights to respond—including with new services and product lines. With sustainability technology, enhanced by the responsible use of AI, Microsoft customers are accelerating their strategic responses in this rapidly shifting landscape of risk and opportunity.



ROBECO

Robeco partners with Microsoft to strengthen its advantage in the sustainable investment market

Founded in Rotterdam in 1929, Robeco is an international asset management company that offers a wide range of active investment strategies. Keeping them updated and relevant requires analysis of a vast quantity of data, which until recently was causing a bottleneck. To address that, the company entered into a strategic partnership with Microsoft and embraced Microsoft Azure. The partnership is already helping to advance each company's individual goals including tackling technological challenges, implementing fundamental solutions, sharing knowledge, and enhancing work processes and developer velocity.

Early leadership in sustainability innovation

Accustomed to thriving in changing circumstances, Robeco now needs to adapt to an increasingly diverse investment market, which requires it to tailor its services to the specific needs of different clients—especially when it comes to sustainability.

“Sustainability is such a hot topic today, and everybody's jumping on it,” explains Lennart Prins, Product Owner at Robeco's Sustainable Investing division. “Robeco has more than 25 years of experience with sustainable research. We have a wealth of SI data and have been launching sustainable strategies long before many other companies in our sector. We want to remain at the forefront, which means we have to move very quickly. But at the same time, we want to do it properly.”

Scaling up faster to stay competitive

Essential to Robeco's competitive strategy is the ability to process and analyze huge volumes of data.

Wouter Tilgenkamp, Portfolio Manager for Quantitative Equities, explains: “A couple of years ago we had an application technology stack, which was not really scalable. We could do maybe four portfolios a day, where actually we had over a hundred portfolios.” Robeco needed a highly scalable platform working across the entire organization and capable of delivering data-tailored applications for core business teams.

A cloud solution for more speed

Robeco is now using Azure Kubernetes Services and other Microsoft products to build scalable applications and support core business processes.

Embracing Azure was a logical choice for the company, as Robeco was already using Microsoft products, which were already well integrated within its processes.

Now, the company can bring new features to production for 15 separate services on average every day—and is capable of building, testing, and deploying a new feature in as little as 30 minutes. In just one day, the team also can create an entirely new microservice and put it into production.

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Portfolio managers can make quicker investment decisions for their portfolios or traders can put out new orders more easily.”

“We can now update data for all solutions at least daily, so we can be far more certain the products we offer clients are optimal—both in terms of return and sustainability objectives,” says Lennart Prins. “Portfolio managers can make quicker investment decisions for their portfolios or traders can put out new orders more easily.”

Tailoring these products is important, he continues, but it's essential to do it quickly. “The more we can tailor the products we offer our clients, the more likely they are to select us. If a requirement takes us six months to implement, they might go somewhere else. If we can turn it around in a few days or a week, and immediately all the systems are updated, it's a much easier sell of course.”

Leading in an ESG-minded market

As Robeco's and Microsoft's relationship with increasingly advanced technologies, such as AI, continues to deepen, it helps guarantee that Robeco will attract talent and clients to drive its sustainability ambitions.

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Zeti

Zeti drives towards cleaner air and a healthier planet with Microsoft Azure

By connecting fleet operators with institutional financiers to support the transition to no-carbon and ultra-low carbon vehicles, Zeti has helped its customers to avoid putting nearly 8,000 kgs of nitrous oxide into the atmosphere and nearly 3,000,000 kgs of carbon. Zeti relies on the Azure platform.

"I personally have a strong preference for serverless technology and Microsoft's offering is really strong. It allows you to keep your bill very restrained in the early days of a start-up and the early days of a cloud-native company," says Daniel Bass, Co-Founder and Chief Technology Officer.

Adds Dan Saunders, Founder and CEO: "This is great for investors wanting to demonstrate the positive environmental impact of their funds. Microsoft Azure is the perfect partner to support our ambitions, it's the best platform for our business to achieve growth and contribute to cleaner air and a healthier planet."

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flowe



Flowe builds one of the first cloud-run digital banks

In 2017, one of the five major banks in Italy, Banca Mediolanum, had a vision to create a unique cloud-native open-banking platform that went beyond finance. To make this leap, Banca Mediolanum founded Flowe in 2019 with a focus on wellbeing, an aim to educate millennials about healthy financial behavior, and a purpose to empower people to live sustainably. In less than a year from the start of the project, Flowe's open-banking platform and mobile apps went live. More than 650,000 users were onboarded in just six months, exceeding Flowe's target by 400,000 users.

Flowe worked with Microsoft to build the open-banking platform from the ground up, making it the first bank globally to run fully on Azure—from the core banking system to the digital onboarding process. Microsoft also put together a team that comprised seven different specialist groups who engaged in steady knowledge transfer for the continuous improvement of the system—from infrastructure and security to apps and data management.

[Read the full story](#)



More financial services sustainability stories

Chedid Capital shrinks its carbon footprint using Microsoft Power Automate

"We used Power Automate to manage the archiving flows of documents after being signed digitally. We save hundreds of thousands of sheets of paper per year, and significantly reduced our carbon footprint."

—Imad Jabbour: Chief Technology Officer, Chedid Capital



AI

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Export Development Canada (EDC) leads Canadian business toward a sustainable and prosperous cloud-based future

"We've adopted Azure Cloud Services to support the transformation of our infrastructure and to provide us with significant digital capabilities we haven't had before. We couldn't execute on our sustainability strategy without Azure as a key part of the transformation."

—Victor Diamond: Vice President of Technology Operations and Services, EDC



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Waverton Investment Management boosts business resiliency and sustainability with Microsoft Azure

"With our plan to be fully on Azure by the end of 2023, we'll likely achieve savings of 1,194,778 kilograms of CO2 from 2024 onward, which is an approximate 90 percent reduction compared with running all of our infrastructure on-premises."

—Mudassar Ulhaq: Chief Information Officer, Waverton Investment Management



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Insurance titan AIA embraces cloud solutions to boost sustainability while improving customer experience for millions

"Our on-premises datacenter carbon footprint is reduced significantly by our move to Azure. And by using Azure Logic Apps, we've managed to save money on printing by automating workflows."


—Umeshi de Fonseka: Chief Technology Officer, AIA Sri Lanka



AI

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Healthcare

A healthcare professional, a Black man with a beard, is shown in profile, pointing his right index finger at a large medical monitor. The monitor displays a grid of 12 axial CT scan images of a human torso. He is wearing a teal polo shirt and a silver watch on his left wrist. His left hand is resting on a black keyboard on a desk. The background is a clinical setting with a window and another monitor visible.

Every day, healthcare organizations in every community manage significant challenges of competing needs, operational constraints, and unpredictability. By combining the power of data analytics, AI, and specific sustainability solutions—including device choices—Microsoft customers in healthcare are discovering improved ways to deliver high-quality care, while driving business efficiencies and advancing sustainability practices.



Southeastern Virginia Health System boosts sustainability and care with Microsoft Windows 11 Pro

By upgrading to Windows 11 Pro, Southeastern Virginia Health System (SEVHS) makes operations more sustainable, strengthens the security of its technology, more effectively safeguards sensitive patient data, and eases compliance with multiple regulatory frameworks. The new operating system helps the IT team make better use of its talents by minimizing routine and administrative tasks. Physicians, executives, finance managers, and other team members find that they work more productively on their Windows 11 Pro devices. Even better, patients can now benefit from the focused attention of their care providers and receive higher-quality care during in-clinic and remote appointments.

Healthcare nonprofit modernizes to build a better future for its community

In the Hampton Roads area of the state of Virginia, SEVHS delivers high-quality, comprehensive, and affordable healthcare, wellness services, counseling, and health-related education to the entire community. The 501(c)(3) nonprofit serves more than 25,000 patients a year in its 15 healthcare centers.

Technology is a key element in enabling SEVHS to fulfill its mission. Peter Stephens, CIO at SEVHS, says, "We're always working with our stakeholders to identify opportunities for technology to help improve patient care and operational efficiencies."

In a process that will take less than a year, the lean SEVHS IT team is transitioning the organization's technology users from Windows 10 to Windows 11 Pro. Close to 75 percent of them work on desktop computers and the others use laptops at multiple SEVHS clinics or other locations.

Healthcare nonprofit modernizes on a new technology foundation

SEVHS team members already using Windows 11 Pro have shared positive experiences. Stephens says, "Feedback tells us that people are satisfied with Windows 11 Pro. They find that application performance is better and that they can accomplish more in less time."

On their Windows 11 Pro devices, SEVHS employees securely access cloud applications like Microsoft 365 and Teams, and the organization is about to deploy cloud-based electronic health record software from Epic Systems for caregivers.

Healthcare nonprofit modernizes to build a better future for its community

Recommended device settings for power usage and carbon-aware updates, automatically scheduled by Windows 11 Pro for times when more renewable sources generate power, help SEVHS operate more sustainably and economically. "Thanks to Windows 11 Pro, we can minimize power consumption and costs even when device users are not paying attention to it," Brucato shares. "It's a significant benefit for the organization."

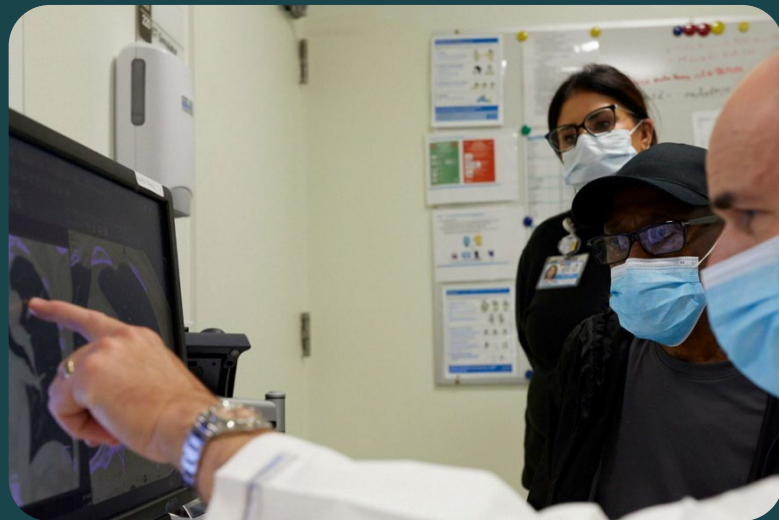
Overall, Windows 11 Pro automations and efficiencies in combination reduce the need for IT user support and free up productive time for everyone. "We already see that the number of help-desk tickets is declining," notes Brucato. "For IT, that means we can spend a larger part of our day improving workflows or undertake other efforts that help SEVHS fulfill its healthcare mission."

[Read the full story](#) →



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“Thanks to Windows 11 Pro, we can minimize power consumption and costs even when device users are not paying attention to it. It's a significant benefit for the organization.”



Supply Chain

NHS Supply Chain gains efficiencies with Microsoft Surface

When NHS Supply chain decided to replace its aging assets, it focused on the improved security and performance offered by a transition to Surface. With 2,500 users, this improved performance adds up to significant time savings. Chris Gundel, IT Operations Manager, estimates that by switching to Surface devices, the business has saved nearly 150,000 hours over the course of the year.

A smooth deployment with the help of Microsoft Partner DXC added unexpected benefits. "We got a lot of comments saying what a brilliant job it was—and that makes my team feel really proud," states Chris Gundel. "It was so successful, we were able to take the old laptop from the user and give them the new Microsoft Surface in the same transaction. That saves on courier costs and carbon miles. We could make the whole process more sustainable."

[Read the full story](#) →



Mount
Sinai



Newfound agility with Microsoft Azure enables Mount Sinai to drive on sustainability initiatives

Mount Sinai Health System needed to migrate their on-premises Epic environment to the cloud to keep their hospitals and medical schools at the cutting-edge of care. After partnering with Accenture, they chose Azure to facilitate data collaboration across their workloads and adopt a reference architecture that was purpose-built for Epic.

Mount Sinai is already seeing the benefits. They're more nimble and can contract or expand as demand for healthcare services requires, helping them use their resources more efficiently. They've eliminated their outages since they're no longer having to manage the various infrastructure elements in their data centers, allowing their IT team to realize the value of innovation faster. To this end, they've been able to focus on driving sustainability initiatives—using the Microsoft Sustainability Dashboard, they can measure the reduction of their carbon footprint as they vacate their on-premises data centers.

[Read the full story](#) →

More healthcare sustainability stories

Kry uses Microsoft Azure Open AI Service for personalized care

Accessibility, regardless of a patient's location or circumstances, is a key component of Kry's mission. "AI allows Kry clinicians to focus on delivering better care, while ensuring patients can access the advice, care, and treatment they need in the most efficient way."

—Fredrik Nylander: Chief Technology Officer, Kry

AI

[Read the full story](#) →

AstraZeneca empowers staff to manage their wellbeing with Microsoft

"We wanted to achieve two things. Firstly, ensuring that mental health support was accessible and, secondly, that the solution contains information across all the countries where we have colleagues in AstraZeneca. Building a dedicated app with Microsoft Power Apps was the perfect choice."

—Cara Barratt: Workplace Transformation Lead, AstraZeneca

[Read the full story](#) →

Centro Hospitalar Universitário Lisboa Central delivers accessible virtual care with Microsoft collaboration tools

"We needed a way to respond to the crisis without reducing care to other medical specialties. With help from Microsoft, we accelerated our transformation strategy and implemented a telehealth solution to safely offer remote patient care."

—Paulo Espiga: Board Member of Centro Hospitalar Universitário Lisboa Central (CHULC)



AI

[Read the full story](#) →

Hospital Jihlava aims to save time, energy, and lives with improved efficiencies

"We wanted to improve our infrastructure, digitize processes, and strengthen internal communication. Microsoft 365 offered us an agile ecosystem that incorporated many applications as well as the scalability to grow for the future."

—Jiří Schimmer, Head of Cloud and Infrastructure Department, Hospital Jihlava



AI

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Public sector and education

Public sector organizations hold a unique role in the world's push to sustainability. Across functions—from regulators to researchers, first responders to smart-city engineers—they must analyze risks and balance competing needs to responsibly predict, prepare, and execute.

To advance their progress, our public sector customers utilize Microsoft cloud-based, AI-enhanced technologies to measure, predict, and optimize situations that can overwhelm traditional computational methods. They also rely on Microsoft devices to advance their path to net-zero operations. Together, Microsoft and our public sector customers are partnering to expand the ability of technology to address some of the world's toughest sustainability challenges.



AFM elevates Romania's sustainability with Microsoft Azure-powered solar grant allocation

Romania's Environment Fund Administration (AFM) is championing initiatives to reduce the nation's carbon footprint and encourage sustainability. One of these initiatives is its annual Green House Solar Panels Program, offering citizens funds to help set up solar panels in their homes. AFM teamed up with Romania's Rural Investments Financing Agency (AFIR) to build an online platform based on Azure, enabling the agency to meet the strong demand and surge of concurrent traffic when funding applications open. By the end of the last submission phase, close to 90,000 beneficiaries were able to successfully apply for a funding of 20,000 RON (4,000 EUR) each.

Romania looks to renewable energy

In response to growing environmental concerns, the Romanian government stepped up with a range of green initiatives to boost renewable energy use by five percent. Instrumental in achieving this is the Administratia Fondului pentru Mediu (AFM), or the Environment Fund Administration, which champions initiatives to reduce the nation's carbon footprint and encourage sustainability.

Public enthusiasm requires a robust solution

The increased funding, for sustainability programs each year, and the ever-increasing public interest in AFM's programs called for a resilient platform that could handle several million simultaneous requests during peak events. "This led us to Microsoft and our colleagues at AFIR (Agenția pentru Finanțarea Investițiilor Rurale, or the Rural Investments Financing Agency). They already experienced great success implementing Azure solutions to enable grants for Romanian farmers. Now, they support others in their cloud adoption," explains Laurentiu-Adrian Neculaescu, President of AFM.

"Our goal was to develop an easy-to-use application for users with a straightforward and intuitive interface," says Daniel Ifrim, Director of Information Technology at AFIR.

Delivering a seamless, scalable experience

AFM developed its citizen application using Azure App Service virtual machines, Azure Monitor, and App Insights to monitor performance and scale resources as needed. This stability proved pivotal in the grant distribution process.

After moving to Azure, AFM could handle up to one million requests per minute. "For each of the nine Green House events, with Microsoft's support, we scaled up 16 hours in advance," explains Bogdan Tulbure, Senior Expert IT at AFIR. "The scaling up was gradual, starting from one instance, and adding more of them until we reached 30." This level of preparation ensured that the platform remained resilient regardless of the volume of users.

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Microsoft solutions are inherently designed to offer protection against various threats, and that kept our systems safe.”



Enabling a greener future for Romania

The collaboration between AFM and AFIR resulted in an intuitive, scalable, and successful web application that is easily accessible by citizens aiming to adopt greener, more sustainable practices. "By the end of the submission phase, we had close to 90,000 beneficiaries who were able to successfully apply for solar power funding," shares Neculaescu, beaming with pride. For the beneficiaries, such grants signify a considerable step towards sustainable practices and a greener future. "This success has made us even more resolute in our decision to develop all our public-facing applications in Microsoft Azure. The solution exceeded our expectations, and I am confident that we can achieve a lot more with it," Neculaescu concludes.

[Read the full story](#) →



University of Reading

University of Reading turns to Microsoft Surface

The University of Reading is ranked first in the People and Planet University Rankings, which measure UK universities by their environmental and ethical performances. When the university needed to standardize on devices, their team selected the Surface family of devices as the best match for the University of Reading's high standards, including for sustainability, performance, user acceptance, and tight integration with the rest of the Microsoft ecosystem, especially in terms of security.

"It's important to us that we have partners who understand our vision and sustainability commitments," explains Henrik Brogger, Director for Digital Operation and Service Delivery at the University of Reading. "Microsoft has provided a lot of detailed information about the carbon footprint of each of their devices, in manufacture, in transport, in residual value. Microsoft is thinking about everything through to recyclable packaging. These insights are helpful to me and colleagues across the sector."

[Read the full story](#) →



Environment
Agency



The Environment Agency transforms regulatory services

An ambitious digital transformation project at The United Kingdom Environment Agency (EA) included partnering with Microsoft on a digital twin, to enable scenario and outcome modeling. "One of the reasons we've been so successful with implementing the digital twin pilot project on Azure is because we have a lot of the right infrastructure in place," explains Tim Skaptason, architecture lead for the Regulatory Services Programme. "Azure Data Lake and Azure Analytics services have made it so much easier for us to create quickly... Instead of spending two months of a five-month project on data architecture, we could deliver it in a matter of days. We could push 95 percent of the funding into building the digital twin instead of the underlying capability. We were able to focus more on outcomes."

Adds Chris Cope, Digital Programme Director, "By using digital twins like this, we can start to model and predict the future for the benefit of the environment."

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More public sector sustainability stories

Maldives streamlines governance and boosts sustainability with Microsoft 365

"Microsoft allows centralized management even if projects are dispersed. It helps us reach our carbon reduction and sustainability goals by reducing work-related travel."

—Mohamed Shareef: the Minister of State, the Ministry of Environment, Climate Change and Technology, Maldives

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Florida Fish and Wildlife Conservation Commission enlists Microsoft Azure to prepare for hurricane response

"If there were a true disaster, we could backup and restore to a geophysical location in another area—be up and running in a matter of hours. I sleep better at night knowing that our resources are going to be available when needed."

—Glenda Atkinson: Chief Information Officer, Florida Fish and Wildlife Conservation Commission

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Slovenian government agency helps field inspectors go paperless

"Being paperless made us faster, commit fewer mistakes, and execute our activities in a more sustainable way. Inspectors increased their productivity by 20 percent, saving about 20 hours per month due to quick data entry and automated reporting"

—Alenka Fritz Kolbe: Head of the OU Ljubljana at Labor Inspectorate of the Republic of Slovenia (IRSD)



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NYC Department of Environmental Protection partners with Microsoft for transformation initiative

"It was a tremendous team effort... The team that we put together, as well as the team that Itineris and Microsoft put together, really worked well together over the course of the project to make it go as smoothly as it did"

—Gary Sidoti: Program Manager, New York City Department of Environmental Protection

[Read the full story](#) →

Manufacturing

By taking a leadership role in addressing the energy and resource impacts of their operations and products, Microsoft customers in the manufacturing sector are working to reduce emissions and carbon impact, improve water and waste management, and drive responsible value chain practices. They are also using their digital foundation, increasingly powered by AI, to explore opportunities for growth and innovation.



GF Piping Systems tackles environmental challenges with Microsoft Azure

Sustainability is at the heart of everything GF Piping Systems does. As the leading flow solutions provider, the organization has been giving leak-free piping to a range of end-market segments for many years. When GF Piping Systems realized it needed to reinvent its offering to expand its reach and better serve existing customers, it decided to partner with Microsoft to digitally transform its operations. Using cloud technology, it built a flexible, modular platform environment to help develop customized solutions that meet customers' needs and help them to solve social and environmental challenges—ultimately enabling positive change for a better tomorrow.

A more than 200-year-old company innovates for sustainability

Founded in 1802, GF Piping Systems has sales companies in 31 countries and production sites in 36 locations across America, Europe, and Asia.

"Our primary focus is to help our customers solve environmental, social, and governance challenges. By adding cloud technology to the mix, we're now able to support businesses to lower costs, protect citizens and be more sustainable," explains Oliver Bettrich, Head of Digital Transformation at GF Piping Systems.

Going digital for a better tomorrow

Today, a third of the global population experience severe water scarcity for at least one month per year and 33 percent of the world's drinking water is lost as a result of network leaks, representing a \$14 billion annual revenue loss.

"Sustainability is at the center of everything we do," explains Nina Pongracz, Global Communication Manager for Sustainability at GF Piping Systems. "We want to digitalize and better serve our customers—which is why we partnered with Microsoft."

A partnership and platform

A few years ago, the company saw an opportunity to improve both its marketing techniques and the range of products it serves.

"We wanted to market our products to a larger customer base and provide multiple applications within a centralized platform that enabled remote monitoring and predictive maintenance of our products," says Stephan Koern, Head of Digital Enterprise Architecture at GF Piping Systems.

"To do this, we kicked off a series of workshops and discussions with Microsoft that led us to Microsoft Azure PaaS.

This helped them to create a flexible, modular platform environment to build business applications and provide reusable capabilities using a cloud infrastructure.

"As a team, we have an abundance of experience between us," says Koern, "But having the support of Microsoft FastTrack and Microsoft experts was vital in filling any skill gaps and getting this environment built in just six months."

Building in the cloud proves to be beneficial

The new platform has been a huge success. "Using Microsoft Azure DevOps, we can build, test, and deploy applications quickly reducing time-to-market at a low cost," explains Koern.

"We're now much quicker at showing customers how we can solve problems because we already have the building blocks available to develop customized solutions. This is helping to reach to new business segments."

From helping customers shrink their carbon footprint, to protecting people from dangerous legionella in piping systems, the platform has proved a vital component in enabling GF Piping Systems to help customers address sustainability.

[Read the full story](#) →

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“We want to offer better solutions to connect resources, people and technology and to do this, we need to digitalize our services.”



King Steel powers the global shoe industry's green transformation

Taiwanese shoe equipment manufacturer, King Steel, faced growing customer demands for sustainable and recyclable shoe products from global brands like Nike and Adidas. That's when CEO Jim Chen started to take the company on a path towards a "transparent supply chain" model, enabling greener practices through leveraging Microsoft's Dynamics 365 and Microsoft Cloud for Sustainability services.

These tools enabled seamless digital transition and data collection, fostering innovation and efficiency within the organization. With Dynamics 365 Business Central and Power Platform, employees created applications that accelerated business processes, enabling a green transformation that improved King Steel's sustainability performance, operational efficiencies, and customer relations.

[Read the full story](#) →



Camfil harmonizes processes bolster sustainability and profitability

Camfil has helped people breathe cleaner air for more than half a century. As a leading manufacturer of premium clean air filtration solutions, with more than 30 production facilities and nearly 6,000 employees, the Sweden-based company's mission is to protect people, processes, and the environment by designing, developing, and delivering solutions that combine clean air with energy efficiency in a sustainable and profitable way.

Ninety percent of the items Camfil sells are unique, and Camfil uses Dynamics 365 Sales to manage customer interactions and opportunities. "In the past we had a lot of different systems and local customizations. Now is the time to harmonize things, and Dynamics 365 is really the big enabler for that," says Johan Blomqvist, Vice President for Group Logistics.

[Read the full story](#) →

More manufacturing sustainability stories

Sandvik uses analytics and AI to make mining more sustainable

"The solution we've created is all about using cloud technology to identify what is happening ... there is so much more that you can do with AI and data. You have infinite possibilities to make the industry much greener and more efficient than it's ever been."

—Esa Mattila: Reliability & Productivity Center Manager, Sandvik



AI

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MYTILINEOS improves logistics and employee experiences with Microsoft Azure Custom Vision

"Standing outside in the summer sun counting metal slabs is a harsh and repetitive task, is a job that nobody enjoys. With the process automated, our employees can now be assigned to different roles where they can use their time more effectively."

—Spyros Bekiaris: Transportation & Port Manager, MYTILINEOS

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ANDRITZ delivers next-generation service more sustainably through a cost-saving, mixed-reality solution

"Our product experts travel all over the world to support our customers with their equipment, so the idea to offer almost the same level of support remotely really helped the project gain traction."

—Daniel Hirz: IT Project Manager, International Technology Group

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Schneider Electric fast-tracks innovation with Microsoft Azure OpenAI Service

"People are using sustainable energy solutions to both produce and consume energy, and they can optimize how to produce or store that energy on the grid as it makes sense. Without AI, there is no way that we could address a problem as complex as this."

—Yoann Bersihand: Vice President of AI, Schneider Electric



AI

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Media, entertainment, and telco

Microsoft customers in media, entertainment, and telco increasingly depend on cloud technologies powered by AI. With the power to measure and analyze enormous amounts of complex, quickly changing data, these organizations gain improved business insights to help them meet audience and customer needs while advancing sustainability goals.



Las Vegas Raiders keep fans cool with AI-driven sustainability technology

Home to the National Football League's (NFL) Las Vegas Raiders, Allegiant Stadium can host up to 65,000 people within a wide range of other sporting events and top-tier concerts. With the temperature extremes of southern Nevada in mind, the stadium was designed for sustainable cooling and has received numerous accolades for its commitment to responsible use of resources, including LEED Gold certification by the US Green Building Council. Allegiant Stadium is equally committed to exceptional guest experiences, which means providing visitors with a pleasant climate in the venue, regardless of how hot it may get outside (summer days can reach well past 100 degrees Fahrenheit in the harsh desert environment of southern Nevada). These dual priorities led Allegiant Stadium to partner with Microsoft.

A partnership of shared values

Despite the climate challenges, in October 2023, Allegiant Stadium became the first NFL stadium powered exclusively by renewable energy.

"Microsoft has been an incredible teammate ever since we transitioned to Las Vegas," says Sandra Douglass Morgan, Raiders President. "Microsoft understands our commitment to the community, and I think the two companies have shared values when it comes to how we treat our employees and a greater sense of responsibility to be good corporate partners to our community."

Data-driven for extreme efficiency

Maintaining comfortable temperatures and other sustainability initiatives for the massive venue requires extremely efficient operation of the infrastructure. The stadium relies on sophisticated technology to achieve this, including a sustainability dashboard driven by Microsoft Power BI.

"Our programs include waste diversion to minimize our impact on local landfills through repurposing, reusing, or donating a wide range of materials. We also sort all trash to isolate recyclable materials so they can be properly processed. On-site biomass machines process 650 pounds of collected items in a 24-hour period," explains Morgan.

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Microsoft is a one-stop shop for technology, with respect to sustainability, and I think our future together is really bright.”

Morgan adds: "We've also built energy efficiency into the stadium's infrastructure, fixtures, and landscaping, and we've optimized our building management system with a Power BI dashboard that ensures that we keep our guests comfortable in the most effective way possible."

Gaining insights to achieve a greener future

"Sustainability is a big focus for Allegiant Stadium and the Raiders, and it's also a big focus for Microsoft," notes Scott Erdmann, Raiders Senior Director for Corporate Partnerships. "When we realized that alignment, it only made sense to get Microsoft on a call and figure out how we can make all this happen together. After a series of workshops, it was clear that this collaboration was meant to be."

Getting comprehensive, reliable insights is key. "With the Power BI dashboard, we can take into account the weather, the forecasted temperature, and the electrical consumption rate for the day and make an informed decision about how we'll run the plant for the day to set the stadium up for the day's events," says Joseph Wright, Allegiant Stadium Senior Director of Facilities Operation.

Wright adds: "The dashboard takes raw data from our building management system and combines it with the electrical and climate data to deliver the information we need in an easily consumable, real-time way that helps us take the right actions at the right time."

With a dashboard built on Microsoft technology, Allegiant Stadium and the Las Vegas Raiders can stay focused on their commitment to fans and the wider community to work toward greener operations. "It's something that the Raiders, Allegiant Stadium, and Microsoft are proud of and dedicated to, and something that helps us make good on our commitment to the environment. Microsoft is a one-stop shop for technology, with respect to sustainability, and I think our future together is really bright," says Morgan.

[Read the full story](#) →



The BBC's journey to net zero: Data's key role in sustainability

Sustainability is foundational at the British Broadcasting Corporation (BBC), whether it's in woven into its programming or factored into operations. It's no small task. Since its first broadcast more than 100 years ago, the BBC now reaches a global audience of 492 million people.

Broadcasting and production at this scale comes with a sizeable carbon footprint. The BBC calculated that their greenhouse gas emissions in 2019/20 came to 1.3 million tons CO₂e globally. That's the emission equivalent of approximately 283,000 round-trip flights between London and New York. With such a large scope, the BBC implemented Microsoft's Sustainability Manager to help manage carbon emissions and overall sustainability performance.

"Our implementation of Microsoft Sustainability Manager goes all the way down from division level to cost center level, so we have a holistic overview. It enables us to capture the carbon emissions related to each cost center and that's powerful," says Danielle Mulder, Group Director of Sustainability.

[Read the full story](#) →



Telstra and Microsoft expand their partnership to achieve climate targets

Telstra and Microsoft have set out to collaborate on ESG areas to improve sustainability outcomes in Australia and enable Telstra to meet its own commitments. The organization's plan to combine the secure data exchange capabilities of the Telstra Data Hub platform with Microsoft Cloud for Sustainability helps Telstra's enterprise, government, and small business customers accelerate their sustainability progress and business growth through data insights and explore new initiatives including climate risk.

Microsoft will also support Telstra in achieving its own sustainability goals using Microsoft Cloud for Sustainability, which will provide data insights into sustainability performance.

The strategic partnership brings together the best strengths of the two organizations. In 2020, Telstra was certified carbon neutral in their operations, and both Microsoft and Telstra have ambitious climate targets and share a commitment to a net-zero carbon future.

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Retail and Consumer Product Goods

Value chain concerns, energy consumption, operational efficiency demands, and many more sustainability issues challenge the retail and consumer packaged goods sector. The benefits of AI-driven cloud technologies enable these organizations to evaluate suppliers, scrutinize operations for carbon-reduction opportunities, and demonstrate ESG values to consumers.



Beiersdorf



Beiersdorf uses Microsoft Azure and Power Platform to turn data into action

To set the company on a path that clearly benefits the environment and society, Beiersdorf launched its CARE BEYOND SKIN Sustainability Agenda, which features specific sustainability targets, including a 30 percent reduction of greenhouse gas emissions by 2025 across the entire value chain, and making its packaging refillable, reusable, or recyclable by 2025. To obtain accurate data and make its progress transparent and measurable, Beiersdorf initiated its Sustainability Digitalization Program, using a data analysis platform based on Microsoft Azure and Power Platform.

Beiersdorf has been working intensively on its sustainability transformation for years. With the 2024 EU Corporate Sustainability Reporting Directive expanding on the directives of Germany's Federal Climate Change Act, Beiersdorf was well positioned to providing more detailed emissions and sustainability data.

"We wanted to expand our digital setup to improve data quality and gain a complete overview of our sustainability activities that we can access at the push of a button. That's why we launched our Sustainability Digitalization Program with a cross-functional project team," says Paco Nuguid, IT Program Lead Sustainability Digitalization at Beiersdorf. "The goal of our program is to reveal detailed sustainability parameters and integrate these into all operational processes and systems." One of the central components is the Azure cloud platform.

"In the past, the effect that new formulas have on overall emissions was estimated by collating raw material data in Excel spreadsheets," says Sebastian Pinzke, IT Program Lead Sustainability Digitalization at Beiersdorf. "Going forward, our colleagues can now compare the carbon emissions of the old and the new formulas and see how a product's overall footprint has changed. This process is not only

entirely automated, but it also creates the transparency we need to identify levers for reduction."

Detailed overview via comprehensive dashboards

"We've succeeded in enhancing our data quality across the board, which means we can now provide better, faster, and more detailed answers to all sustainability questions," Nuguid says. Furthermore, the enhanced data quality provides Beiersdorf with an excellent overview of how much progress it is making toward achieving its sustainability goals. Thanks to Power BI, the company can visualize all factors that influence its carbon footprint in the form of dashboards—organized according to the various user groups and application areas.

Now, a company-wide CO2 report, which used to be compiled only once a year, can be updated and issued monthly. The tool also makes it possible to compare data year on year and compile forecasts. For the CO2 reporting, Beiersdorf includes not only direct emissions data but also supplier data—on raw materials and packaging materials, for example—which poses no problem for the system. In this way, it can cover and visualize factors related to scope 1, 2, and 3 emissions.

"With the help of our solution based on Microsoft Azure, we're able to simulate how planned projects will affect our overall carbon footprint in the future, and whether the actions we take keep us on track to achieve our ambitious sustainability targets. We can also detect deviations early and take appropriate measures," says Birte Paustian-Blömer, Business Program Lead Sustainability Digitalization at Beiersdorf.

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“With the help of our solution based on Microsoft Azure, we're able to simulate how planned projects will affect our overall carbon footprint in the future.”

[Read the full story](#) →



Albert Heijn uses Azure OpenAI to reduce food waste and help its customers eat healthy

As the Netherlands' leading supermarket chain, Albert Heijn wants to help its customers live a healthier lifestyle while minimizing its environmental footprint. To do that, the company is investing in AI. With support from Microsoft, it has embarked on a series of initiatives aimed at using AI to do everything from customer personalization to demand forecast and food waste projects. These efforts have radically transformed operations at Albert Heijn, further strengthening its role in the Dutch retail sector and making it easier for its customers to change their lifestyles.

[Read the full story](#) →



Sake brewing and Windows 11 Pro align on smaller carbon footprints

"At Hakutsuru, we are strongly committed to environmental conservation," says Noriya Nakanishi, Director, Executive Officer and General Manager of the Business Administration Division of Hakutsuru Sake Brewing Co., Ltd. The company is actively working toward achieving its Sustainable Development Goals. They have installed 1,600 solar panels, optimized their factory machinery, and even grown rice on the roof of their Tokyo branch office.

While those efforts are extraordinary, Hakutsuru's fleet of laptops is another step toward a more sustainable future. "We are very pleased with the enhancements Windows 11 Pro has made to its sustainability features," says Nakanishi. For instance, Windows carbon-aware updates take advantage of renewable energy sources, while energy recommendations in system settings can reduce energy consumption. As Nakanishi notes, "Windows 11 Pro has proven to be a wise choice for Hakutsuru, as it reduces carbon dioxide emissions even in its idle state."

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More retail sustainability stories

Eckes-Granini gets closer to 100 percent sustainable juice with Microsoft Azure and Power BI

"Our Procurement team used Power BI and Microsoft Azure to create a level of supply chain transparency that is unique in the market: it lets us precisely select and develop the suppliers we want, which brings us closer to achieving our goal of producing all our products using 100% sustainable juice."

—Thomas Graf: Director Corporate Communications, Eckes-Granini



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Radish Cooperative reduces food waste, improves service with Microsoft Azure

"We're highly efficient ... which is having a huge impact economically and environmentally. Our couriers earn more money and waste less gas because of the dispatching technology we've integrated into the platform we built on Azure."

—Mansib Rahman: Chief Executive Officer, Radish Cooperative



[Read the full story](#)



L'Oréal supports sustainability goals with SAP on Azure

"L'Oréal is absolutely committed to carbon neutrality, and we're making huge investments company-wide to have the most eco-friendly infrastructure possible. Our move to Azure means we can take advantage of the investments Microsoft is making."

—Susannah Greenberg: Chief Information Officer, L'Oréal Americas



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Land O'Lakes uses Microsoft Azure Data Manager for Agriculture to support more efficient, sustainable farming

"We're bringing in weather data, irrigation data, soil information. We can bring that to the farmer and say, 'in these conditions, this is probably the best route to take that can get you to more environmentally sound decisions, better profitability, and overall better efficiency in your operations,'"

—Teddy Bekele: Chief Technology Officer, Land O'Lakes



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Even more retail sustainability stories

HB Antwerp brings visibility to diamond post-production retail value with Microsoft Azure Confidential Ledger

"To effect change, every stone must be meticulously tracked and verified within our system. With the Microsoft ledger, we not only gain scalability but also enjoy a user-friendly environment with a short learning curve. It's not just scalable; it's effortlessly accessible."

—Shai de-Toledo: Co-founder & Managing Partner, HB Antwerp



AI

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Kotsovolos brings sustainability and boosts efficiency in just six months with Microsoft Azure-powered solution

"Automated logistics, supply chains and AI-based optimizations are just a handful of transformations that have occurred in the retail sector, and we knew that holding a leading position required reinventing ourselves."

—Elena Ntai: Omnichannel Commercialization Manager, Kotsovolos-Dixons South East Europe



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Co-op Group: More than 150 years of community-centric business decision-making

"Our Azure Stack HCI deployment has delivered a savings of roughly £400,000 a year on power and cooling alone compared with the C7000 blades we were running."

—Scott Robertson: Principal Enterprise Architect for Foundation Technology, Co-op Group



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SSP Group unifies its hybrid infrastructure with Microsoft Azure Stack HCI and saves more than 100,000 kw hours.

"We have challenging sustainability goals for the next few years. It's really difficult for IT to offset all the power we need, so having hardware and architecture that significantly reduces power consumption is really valuable, and we got that with Azure Stack HCI and Lenovo."

—Francisco Castillo: Castillo, Head of Infrastructure, SSP Group

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Professional services and smart spaces

Professional services organizations help others succeed, from accounting to legal services to civil engineering. By leaning on Microsoft AI-driven sustainability solutions, our customers in this sector are helping their own clients unify and digest huge volumes of data, so that decision-makers can use sustainability information more readily in their daily work.

Meanwhile, our customers in building management are leveraging Microsoft sustainability solutions enhanced with AI to provide better service to tenants, and to more efficiently manage energy, water, and other building-based resources and needs.



ICONICS puts IoT to work for a sustainable future

ICONICS, a group company of Mitsubishi Electric Corporation, provides software solutions that deliver significant energy savings and improve manufacturing efficiencies. The company's products integrate disparate assets into a centralized system to provide actionable operational information, including monitoring and control capabilities. In addition, its solution, IoTWorX™, enables companies to remotely monitor assets, making the best use of IoT technology.

Building for the future with integrated IoT solutions

As an integrated IoT solution, ICONICS IoTWorX provides edge analytics, real-time visualization, remote monitoring and control, and alarm management to enable organizations to achieve sustainable operations and more efficient facilities. Affordable IoT devices combine with IoTWorX software power solutions for energy, building automation, manufacturing, and industrial applications.

In fact, ICONICS Microsoft Azure-based solutions power Microsoft's own facilities operations. Alongside some of the largest companies in the world that use ICONICS solutions, Microsoft has realized 10 to 20 percent savings in total energy costs across its campuses through deployment of ICONICS's Smart Buildings solution.

Kyle Reissner, Product Management Director for ICONICS, says, "Proactively managing facilities through connected buildings helps all buildings operate efficiently at the same time, particularly compared to retro-commissioning."

Framing this practically, he adds, "Think about a large campus (such as Microsoft's with over 100 buildings); if you were to serially work your way through all the building improvements, you would always have out-of-tune systems. Inefficiencies creep back into those buildings as soon as you move on to the next building. With ongoing commissioning, the buildings tell the facilities maintenance team what needs to be tuned, and when."

Delivering on sustainability commitments and the bottom line

As a Microsoft Cloud for Sustainability launch partner, ICONICS helps companies publish emissions and other summarized facility data, so they can report their organization's environmental impact.

“

Proactively managing facilities through connected buildings helps all buildings operate efficiently at the same time, particularly compared to retro-commissioning.”

"There are strong motivations to reduce companies' impact on the environment, and there are financial rewards in most countries to do so, particularly in the current socioeconomic environment. And more and more, shareholders are expecting this," continues Reissner. "Frankly, that is what drives customers to budget for our solutions. However, sustainability is a rapidly growing priority as companies seek to demonstrate their commitment to climate improvement to shareholders and customers."

In addition to sustainability and savings imperatives, ICONICS supports environmentally advanced workplaces, occupant well-being, and space utilization, contributing to increased employee productivity, comfort, and safety.

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南豐物業管理
NAN FUNG PROPERTY MANAGEMENT



Transforming Nan Fung Property Management's waste disposal patterns into sustainable strategies

A pioneering force in Hong Kong's community development for more than four decades, Nan Fung Property Management (NFPM) has increased its focus on ESG performance due to evolving government policies and demands from stakeholders. To implement accurate ESG reporting capabilities and the ability to quickly rearchitect its value chain, NFPM turned to a new intuitive IoT smart waste management solution: Greenbird, built by Microsoft Partner DynaSys Solutions on Microsoft Azure cloud platform.

"The future of sustainability initiatives will go beyond mere data collection and reporting. Having real-time analysis capabilities allows sustainability professionals like myself to develop and execute more timely and relevant strategies to actualize sustainability goals," says Zara Lo, Sustainability Manager, Nan Fung Property Management.

[Read the full story](#) →



Carbon Asset Solutions plants the seed for net-zero emissions, securing carbon credits with Azure confidential computing

Carbon Asset Solutions is out to help rid the planet of damaging atmospheric carbon dioxide. Its breakthrough measurement, recording, and verification technology platform creates a new, much more accurate way of measuring carbon sequestered in soil, verifying it efficiently and securely selling carbon credits to the rapidly growing net-zero carbon markets. The company needed to capture and encrypt the precision carbon measurement data, protect against data tampering at both ends of the carbon credit process, and consider long-term global scalability. By enabling Microsoft Azure confidential computing in its IoT devices and data management, Carbon Asset Solutions is working to solve one of the earth's pivotal environmental problems. Sara Saeidi Chief Operating Officer and Cofounder, comments, "Microsoft thinks differently than a lot of other companies. It truly understands the future of this carbon market and how tools like Azure confidential computing can move us forward."

[Read the full story](#) →

More professional services and smart spaces sustainability stories

Uptake helps customers fast-track sustainability initiatives with Microsoft Marketplace

"Microsoft has provided an enormous amount of support in opening the doors to potential customers. We can punch far above our weight on Azure Marketplace."

—Dave Shook: Chief Data Officer, Uptake, Microsoft Most Valuable Professional



[Read the full story](#)



Morgan Sindall enables sustainable spaces with Microsoft Azure and an innovative IoT platform

"The IoT and cloud-based platform created in partnership with Happiest Minds helps Morgan Sindall generate alerts on the properties' health... and then push them out to the Morgan Sindall Property Services teams so that they don't need to go and trawl through data and charts to identify properties at risk."

—Dave Pearce: Head of Information Systems, Morgan Sindall Property Services



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Urbaser enables remote work for 2,000 employees in one weekend, thanks largely to Windows Virtual Desktop

"As for the benefits obtained, we can talk about family reconciliation, an important boost to the concept of the paperless office, or everything that has to do with the reduction of emissions and respect for the environment, by avoiding the displacement of employees."

—Eduardo Rodriguez: Head of IT Operations & Countries, Urbaser

[Read the full story](#)



Microsoft-supported entrepreneurs create impact to preserve the planet

"We don't just provide ice and clean water and reduce plastic. We help drive local economies and support productivity for people. So then the ecosystem will be sustainable and deliver quality of life in the long run."

—Shana Fatina: CEO and founder, Komodo Water

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