slido

Join at

slido.com

#3896 629

Passcode: **ejrwby**

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

The bridge to possible

Fast-Track Sustainability and Improve Operations with Meraki IoT

Anthony Hizon,
Meraki MT Sensors
Product Manager

Angela Huang,
Meraki MT Sensors
Product Manager

BRKNWT-1303

The bridge to possible

Today's Speakers

Anthony Hizon
Cisco Meraki MT Product Manager

Angela Huang
Cisco Meraki MT Product Manager

Session ID: BRKNWT-1303

Agenda

- Introduction
- Why Care About Sustainability?
- Where Can Meraki Make an Impact?
- MT Stepping into Power Monitoring
- Live Demos!
- Conclusion

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Why Care About Sustainability?

slido

Join at

slido.com

#3896 629

Passcode: **ejrwby**

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Live quiz (1/5)

0 / 0

Join at

slido.com

#3896 629

Passcode:

ejrwby

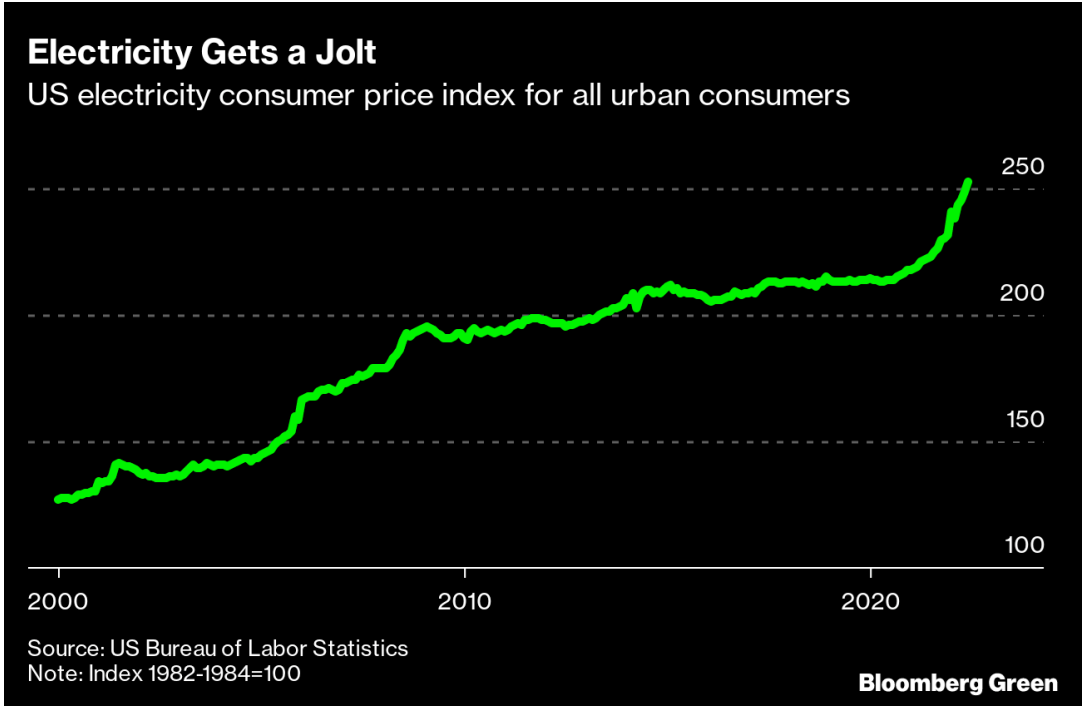
How much has the CPI of electricity in the US increased since 2000?

- Less than 25%
- 25 to 50%
- 50 to 75%
- 75 to 100%
- More than 100%

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Electricity Prices Are Rising

US electricity CPI for urban customers increased 99% since 2000



© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Live quiz (2/5)

0 / 0

Join at

slido.com

#3896 629

Passcode:

ejrwby

How much has the price of electricity in GB and EU increased in the last 2 years?

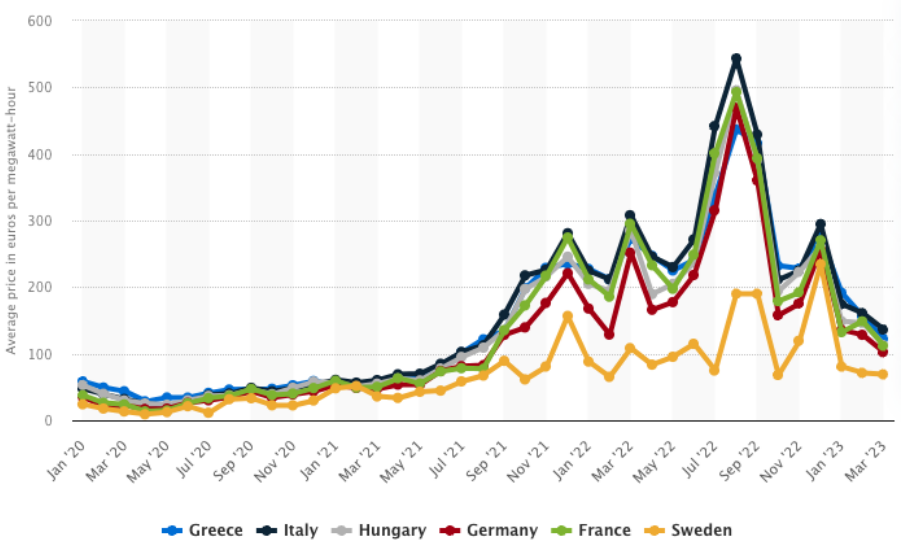
- Less than 25%
- 25 to 50%
- 50 to 75%
- 75 to 100%
- More than 100%

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Electricity Prices Are Rising

Price of electricity has increased 2-3x in GB and EU in the last 2 years

Source: Office of Gas and Electricity Markets, GB



Source: Statista, Average monthly electricity wholesale prices in selected countries in the European Union (EU) from January 2020 to March 2023

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Live quiz (3/5)

0 / 0

Join at

slido.com

#3896 629

Passcode:

ejrwby

What percentage of senior IT buyers say that sustainability is a high priority for their organization?

- Less than 25%
- 25 to 50%
- 50 to 75%
- 75 to 100%

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Live quiz (4/5)

0 / 0

Join at

slido.com

#3896 629

Passcode:

ejrwby

What percentage of senior IT buyers have a Net Zero goal?

- Less than 25%
- 25 to 50%
- 50 to 75%
- 75 to 100%

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Our Target Customers Care

Survey results from 400+ senior IT decision-makers

89%

Report sustainability is high priority for their organization

60%

Have set a Net Zero goal

76%

Expect to begin reaching sustainability goals in the next 10 years

57%

Planning investments in energy management to meet goals

Source: Foundry Research MarketPulse Survey, April 2023
Countries represented: US, UK, Germany, France, Australia, Japan, China
Industries covered: Technology, Manufacturing, Retail, and Financial Services
Average organization size: 6,084 employees

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Live quiz (5/5) 0 / 0

Join at
slido.com
#3896 629

Passcode:
ejrwby

How much funding did US Congress commit to set the US towards a transition to clean energy in the Inflation Reduction Act of 2022?

- Less than $10 billion
- between $10 billion and $100 billion
- between $100 billion and $250 billion
- greater than $250 billion

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

U.S. Government Push to Address Climate Change

Inflation Reduction Act of 2022 provides $370 billion for clean energy investment

Executive Summary

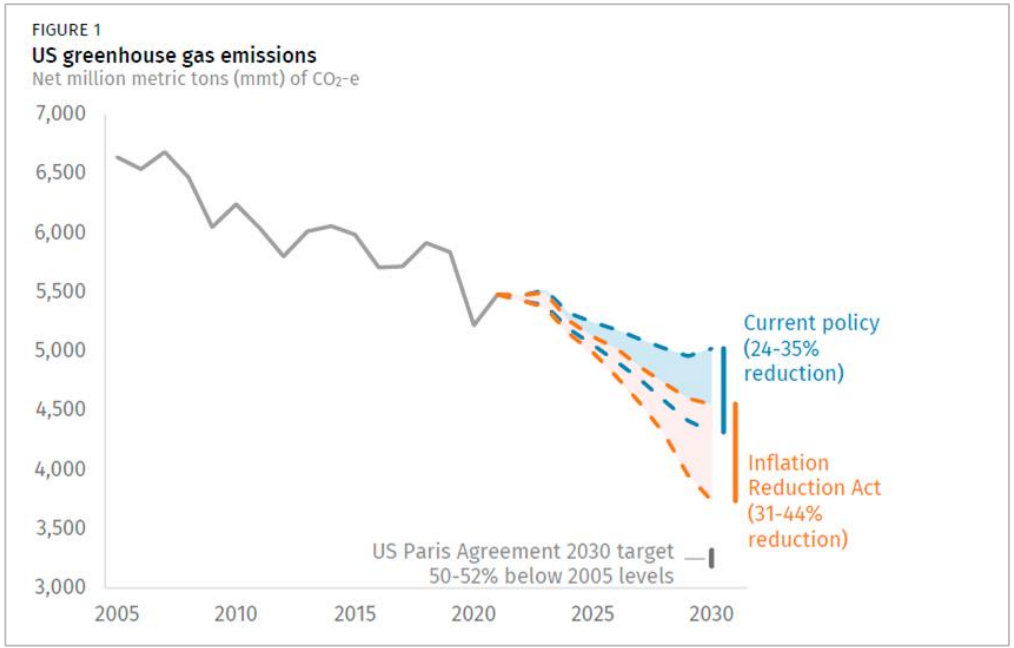
On August 16, 2022, President Biden signed the Inflation Reduction Act into law, marking the most significant action Congress has taken on clean energy and climate change in the nation's history. With the stroke of his pen, the President redefined American leadership in confronting the existential threat of the climate crisis and set forth a new era of American innovation and ingenuity to lower consumer costs and drive the global clean energy economy forward.

The Inflation Reduction Act is aimed squarely at building a better America and delivering on President Biden's vision to make sure the United States—powered by American workers—remains the global leader in clean energy technology, manufacturing, and innovation. The Inflation Reduction Act's $370 billion in investments will lower energy costs for families and small businesses, accelerate private investment in clean energy solutions in every sector of the economy and every corner of the country, strengthen supply chains for everything from critical minerals to efficient electric appliances, and create good-paying jobs and new economic opportunities for workers.

In keeping with the Biden-Harris Administration's commitment to working families, equity, and environmental justice, the Inflation Reduction Act prioritizes creating shared prosperity, making the nation more resilient to growing threats to health and well-being, and driving critical economic investments to historically underserved communities, particularly those living with legacy pollution. For several of the clean energy tax incentives, for example, the law offers bonus credits for projects that are located in economically distressed communities or traditional energy communities and for projects that meet requirements to pay the prevailing wage and hire qualified registered apprentices. The law also will advance the President's Justice40 Initiative, which commits to delivering 40 percent of the overall benefits of climate, clean energy, and related federal investments to communities that are marginalized, overburdened by pollution, and underserved by infrastructure and other basic services. Further, through an all-of-government effort, the Administration will work to ensure that investments under the Inflation Reduction Act facilitate state and local contracting opportunities for underserved small businesses.

The Inflation Reduction Act builds on the foundational climate and clean energy actions taken by the Biden-Harris Administration and investments that President Biden secured in his Bipartisan Infrastructure Law (or Infrastructure Investment and Jobs Act), signed in November of 2021. Historic in its own right, the Bipartisan Infrastructure Law provided billions of dollars to modernize the electricity grid, build a nationwide network of electric vehicle chargers, strengthen the battery supply chain, expand public transit and passenger rail, invest in new clean energy and emissions reduction technologies, improve resilience in physical and natural systems, and clean up legacy pollution in communities across the country—all while creating new, high-quality jobs, including union jobs, with good benefits and supportive services that build pathways for all to the middle class.

The Biden-Harris Administration is showing that American spirit and enterprise can alter the course of history and make people's lives better in pursuit of ambitious goals. In his first days on the job, President Biden set forth a bold climate agenda and has since vigorously advanced



Source: "A Brief Summary of the Climate and Energy Provisions of the Inflation Reduction Act of 2022." World Resources Institute.

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Why sustainability matters

Dollars saved through energy efficiency **decrease costs** for businesses

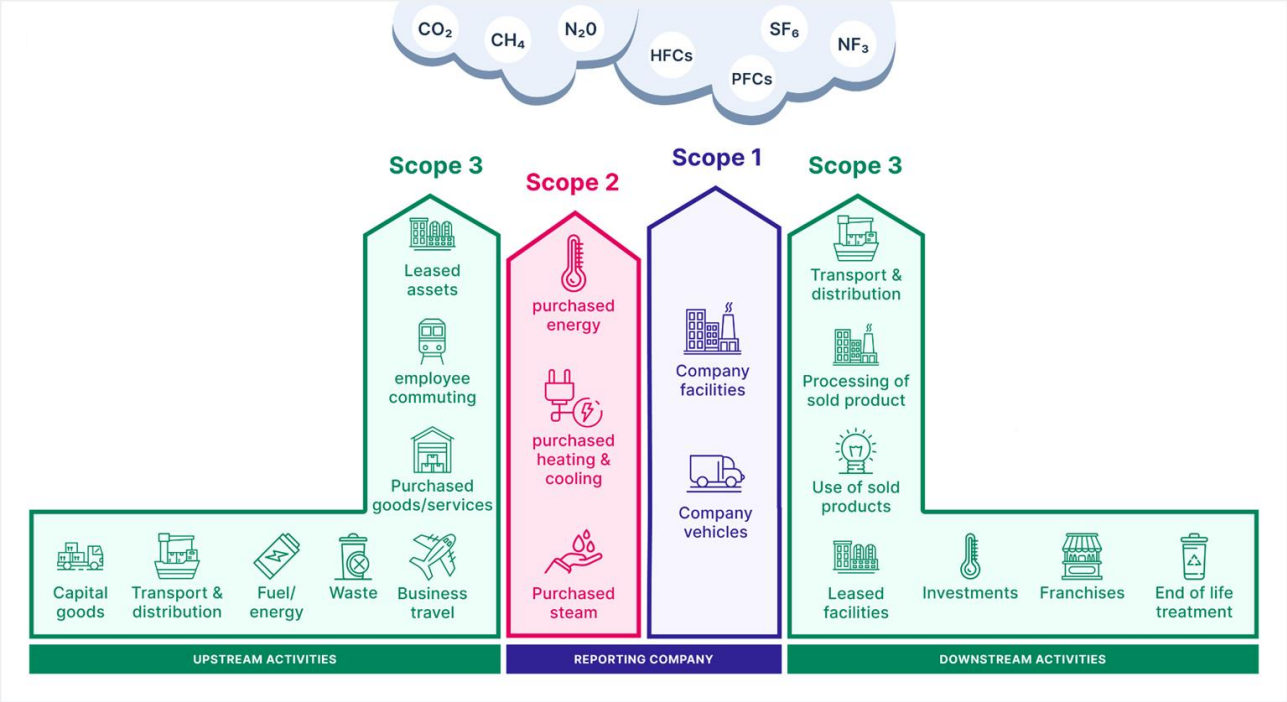
Consumer demand for sustainable products is high

US government is **taking action** to spur sustainability improvements

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Where Can Meraki Make an Impact?

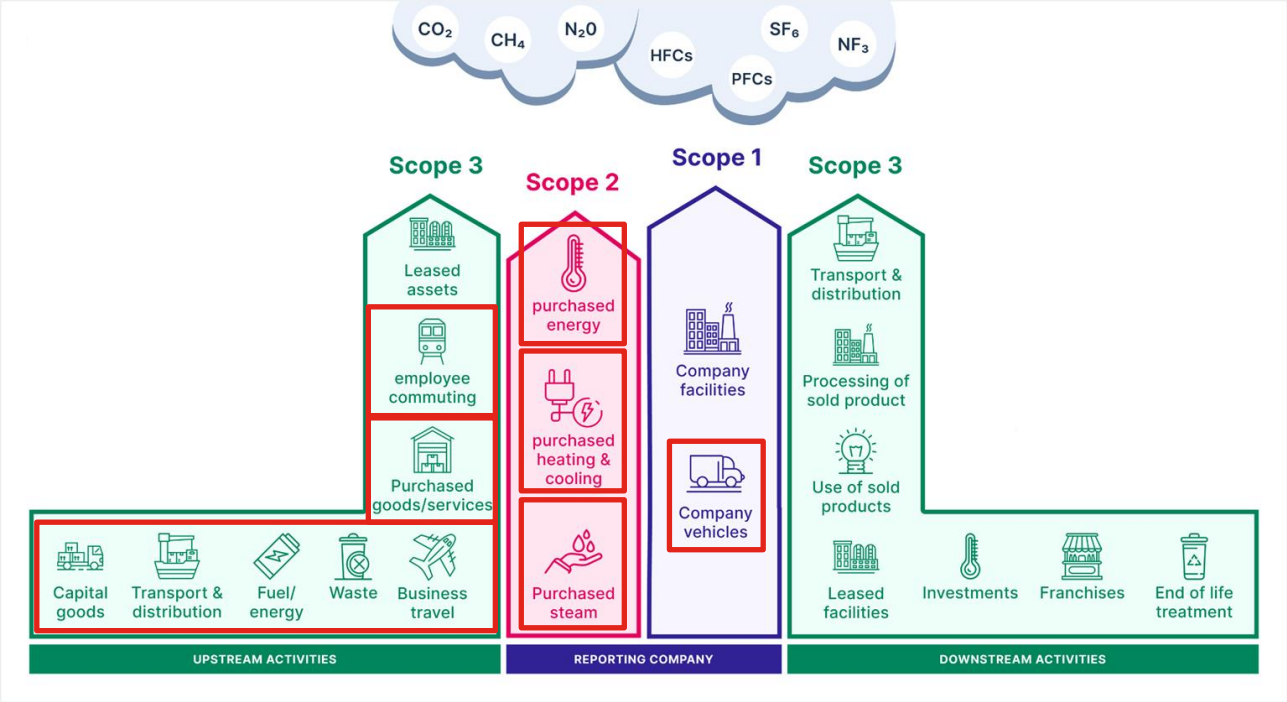
The 3 Scopes of Carbon Emissions



Source: “Scope 1, 2, 3 emissions explained.” Circularise.

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

The 3 Scopes of Carbon Emissions

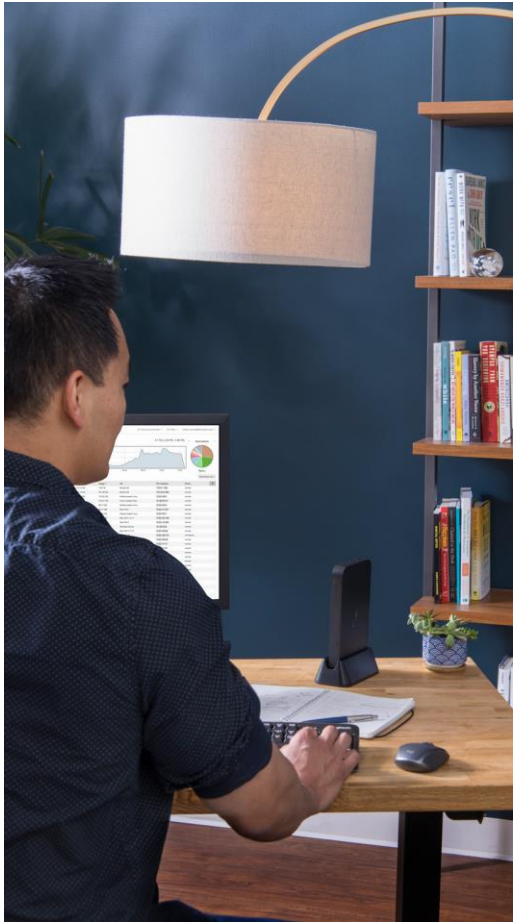


Source: “Scope 1, 2, 3 emissions explained.” Circularise.

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Organizations need visibility into their operations to achieve sustainability goals.

Ideally, data collection should be automated and accessible remotely.



© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Getting Visibility is Challenging

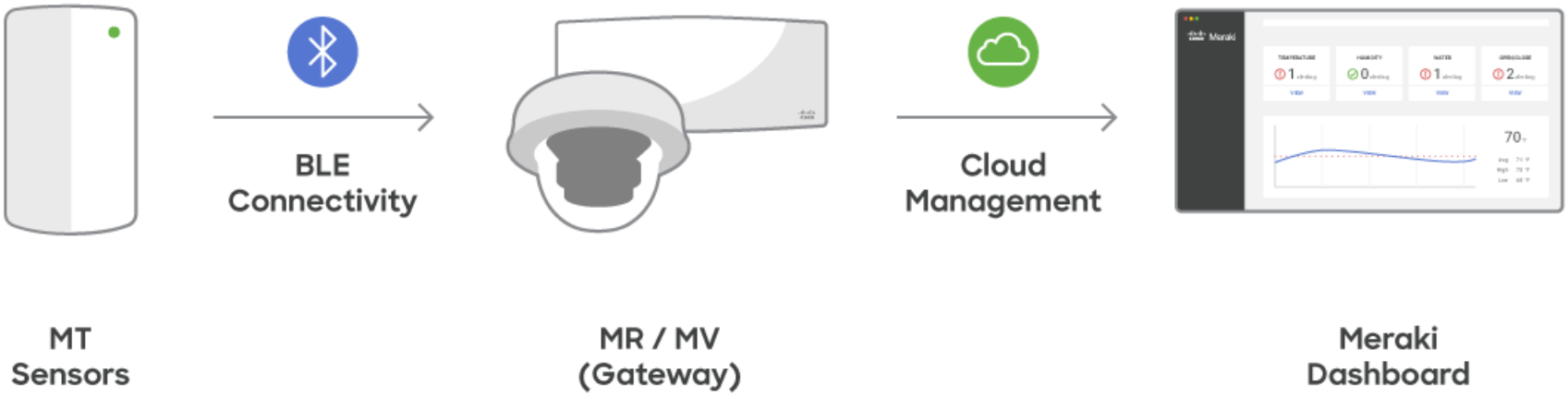
Distributed sites

Lean IT Teams

Scalability

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

An all-in-one solution



Powered by the Cisco Meraki Platform

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Sensors for sustainability applications

IT infrastructure monitoring

MT10
Temperature and humidity

MT12
Water leak

MT20
Door access (intrusion)

Power monitoring

MT40
Smart power controller

Cold storage

MT11
Temperature probe

Safe environments

MT14
Indoor air quality

Smart spaces

MT30
Smart automation button

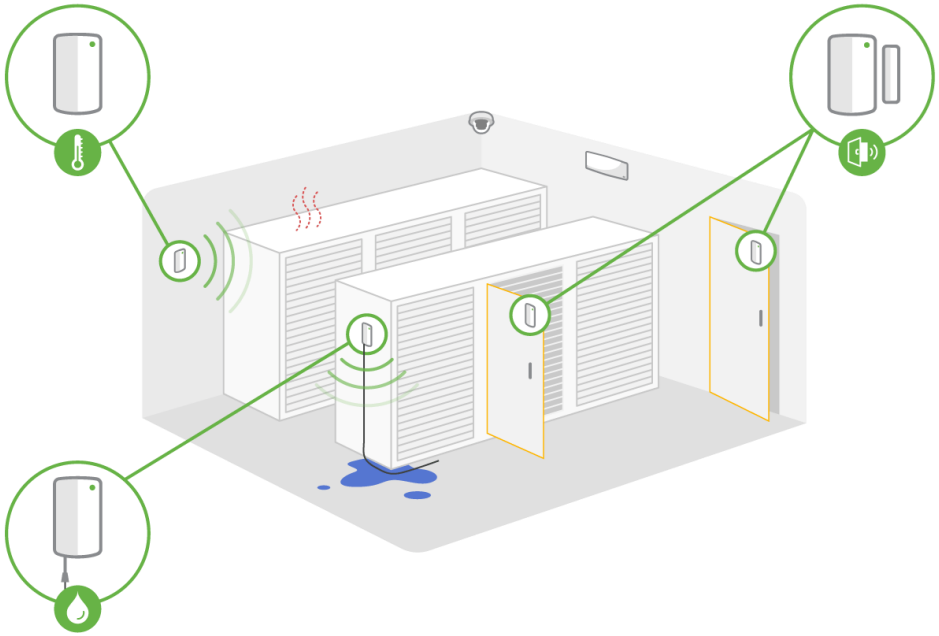
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Organizations can use IoT sensors and cameras to:

Optimize service calls and avoid unnecessary site visits (Scope 1, 3)

Extend equipment lifetime (Scope 3) and reduce network downtime costs by up to $400k/hr*

Optimize equipment usage, energy savings up to 27% per year (Scope 2)*

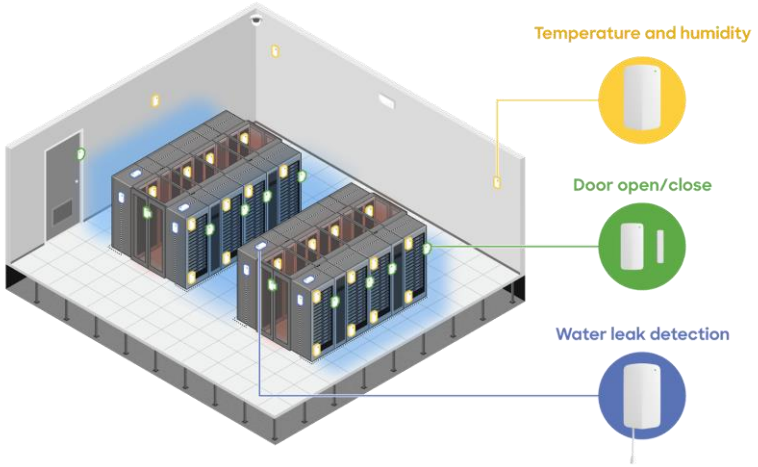


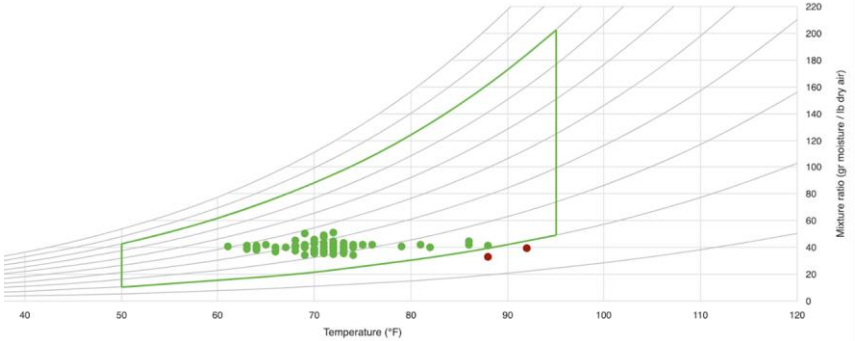
* Source: “The Total Economic Impact of Cisco Meraki MT Sensors.” Forrester. 2022.

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Customer Story

- Leading digital marketing firm with 107k employees, 60 sites
- Implemented hot aisle containment in datacenters to optimize HVAC efficiency
- Reduced HVAC costs and carbon footprint
- Saving up to $72k and 175 tonnes of CO_2 per year per campus





© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Introducing the
MT40 Smart Power Controller

Launched May 2023!

Feature highlights

Allows users to monitor power metrics and remotely manage power:

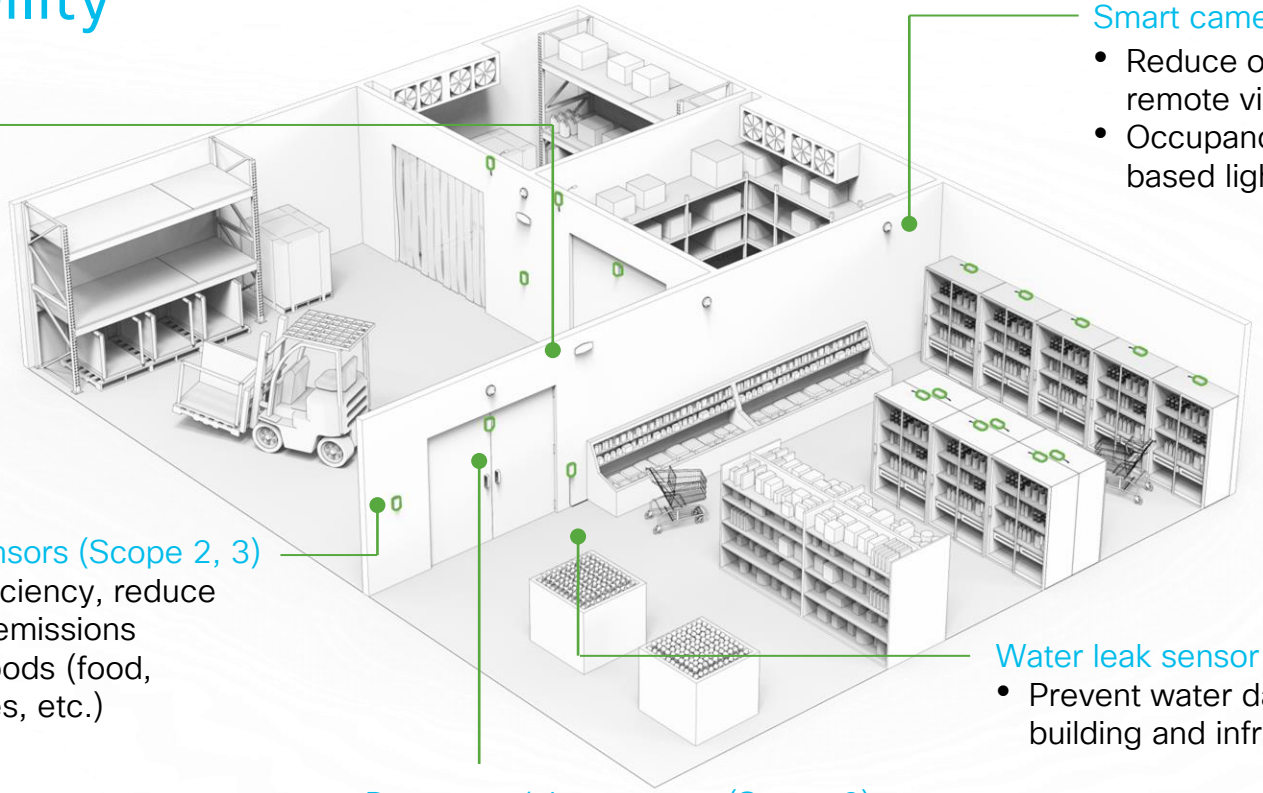
- Monitor energy costs across devices
- Remotely turn on, turn off, or power cycle devices
- Alert on anomalous power readings
- Identify power outages

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Demo #1
Let’s onboard MT40 for the first time!

Demo #2
MT controlling device in remote IDF

Meraki use-cases that advance sustainability



Energy savings schedule (Scope 2)

- Monitor energy trends and power down equipment during off-hours

Smart cameras (Scope 1, 2)

- Reduce on-site visits with remote visibility
- Occupancy / usage-based lighting

Temp/Air Quality Sensors (Scope 2, 3)

- Improve HVAC efficiency, reduce energy costs and emissions
- Prevent spoiled goods (food, medical substances, etc.)

Water leak sensor (Scope 2, 3)

- Prevent water damage to building and infrastructure

Door open/close sensor (Scope 2)

- Improve HVAC efficiency

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Customer Story

tarbell management group

- Small business management company with fast food, hospitality, and retail locations
- Monitor IT spaces and refrigerator units for temperature, humidity, and water
- Up to 1,000 working hours saved by automating data collection
- Saved over $130,000 in hardware replacement costs when an HVAC unit failed (Scope 1, 3)

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Demo #3

MT40 to automatically turn off unused equipment to save energy

Time to announce Slido winners!

Fill out your session surveys!

Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!

Attendees will also earn 100 points in the **Cisco Live Challenge** for every survey completed.

These points help you get on the leaderboard and increase your chances of winning daily and grand prizes

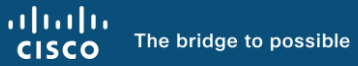
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

The bridge to possible

Thank you

Visit the Networking Experiences booth in the World of Solutions for an in-person demo

Check out cs.co/getsensors to start a trial!



Thank you

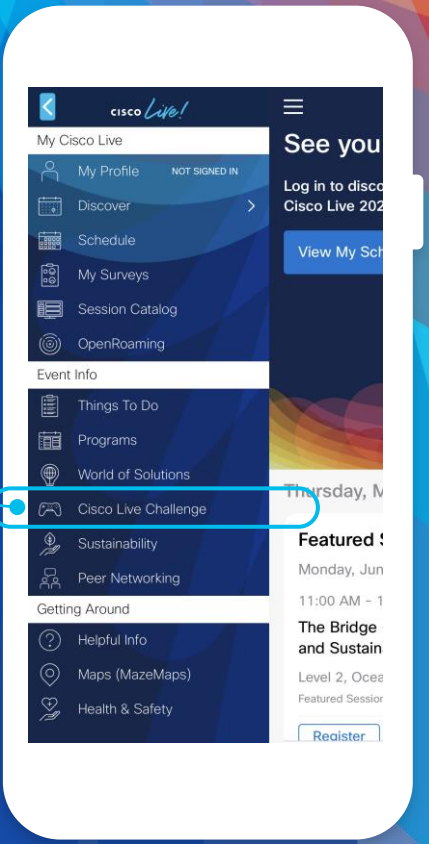
Cisco Live
Challenge

Gamify your Cisco Live experience!

Get points for attending this session!

How:

1. Open the Cisco Events App.
2. Click on 'Cisco Live Challenge' in the side menu.
3. Click on View Your Badges at the top.
4. Click the + at the bottom of the screen and scan the QR code:



cisco Live!

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

cisco Live!
Let's go
#CiscoLive