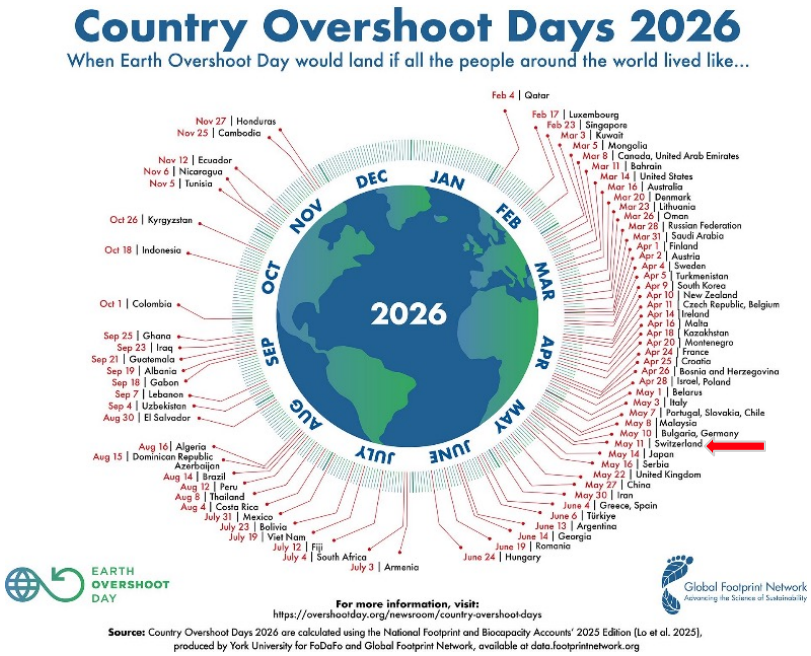
MISSION TO ZERO AM ABB STANDORT SCHAFFHAUSEN

WHAT HAPPENED ON MAY 11TH 2026?

Mission to Zero ABB CMC Schaffhausen

Swiss Overshoot Day 2026



«Swiss Overshoot Day»: Wir leben immer stärker auf Pump

Der Erdüberlastungstag der Schweiz ist 2026 schon am 11. Mai erreicht.

Das bedeutet: Wir verbrauchen innerhalb eines Jahres etwa das 2.5-Fache dessen, was die Ökosysteme an natürlichen Ressourcen bereitstellen können.

Sustainable Switzerland
NZZ

There is no Planet B, we have joint responsibility

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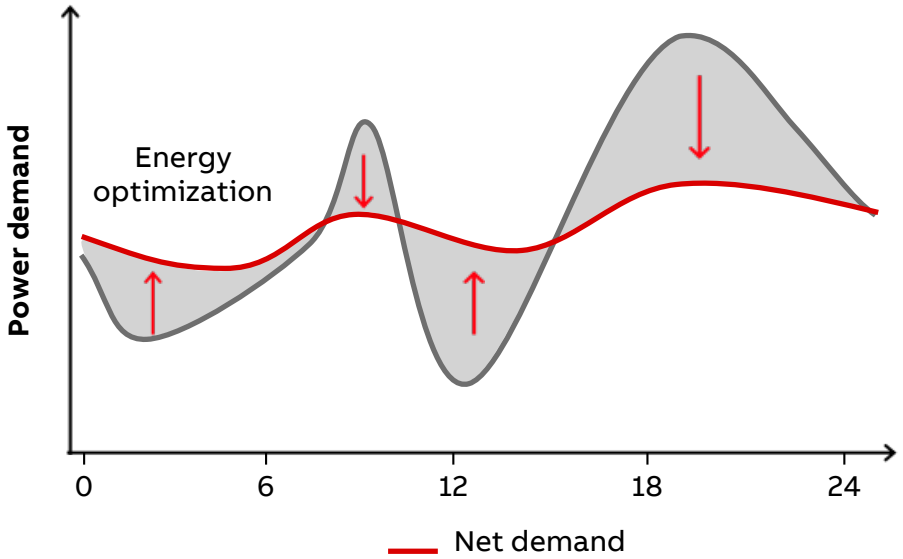
We're on a Mission to Zero™ — a journey to reach net-zero emissions and more sustainable operations. This scalable blueprint brings together technologies using ABB digital solutions and renewable energy to increase efficiency and reduce emissions. ABB's Mission to Zero is powered by people passionate about sustainability and driving a more resource-efficient future.

Megatrends impacting the power sector

Decarbonization, Electrification and Digitalization

Stylized power demand curve



Decarbonization

Growth in non-dispatchable and often decentralized renewables

Electrification of assets

Shift to electric transportation, heating solutions, processes

Digitalization

Key value enabler

Critical enabler to smooth peaks through supply & demand mgmt

Impact of megatrends on end-customers

Customer needs from energy partners changing significantly, strongly impacted by megatrends

End-customers' domain expertise gap

Energy management not a core skill for many prosumers

"The market lacks an integrator… someone could drop off all the parts to build a Ferrari in my driveway… and I would only build a go-kart[1]"

Consultative approach

Provide guidance on full spectrum of relevant challenges and solutions

From site operations to boardroom reporting

Integrated solutions

End-to-end approach

One-stop shop

"as a Service"

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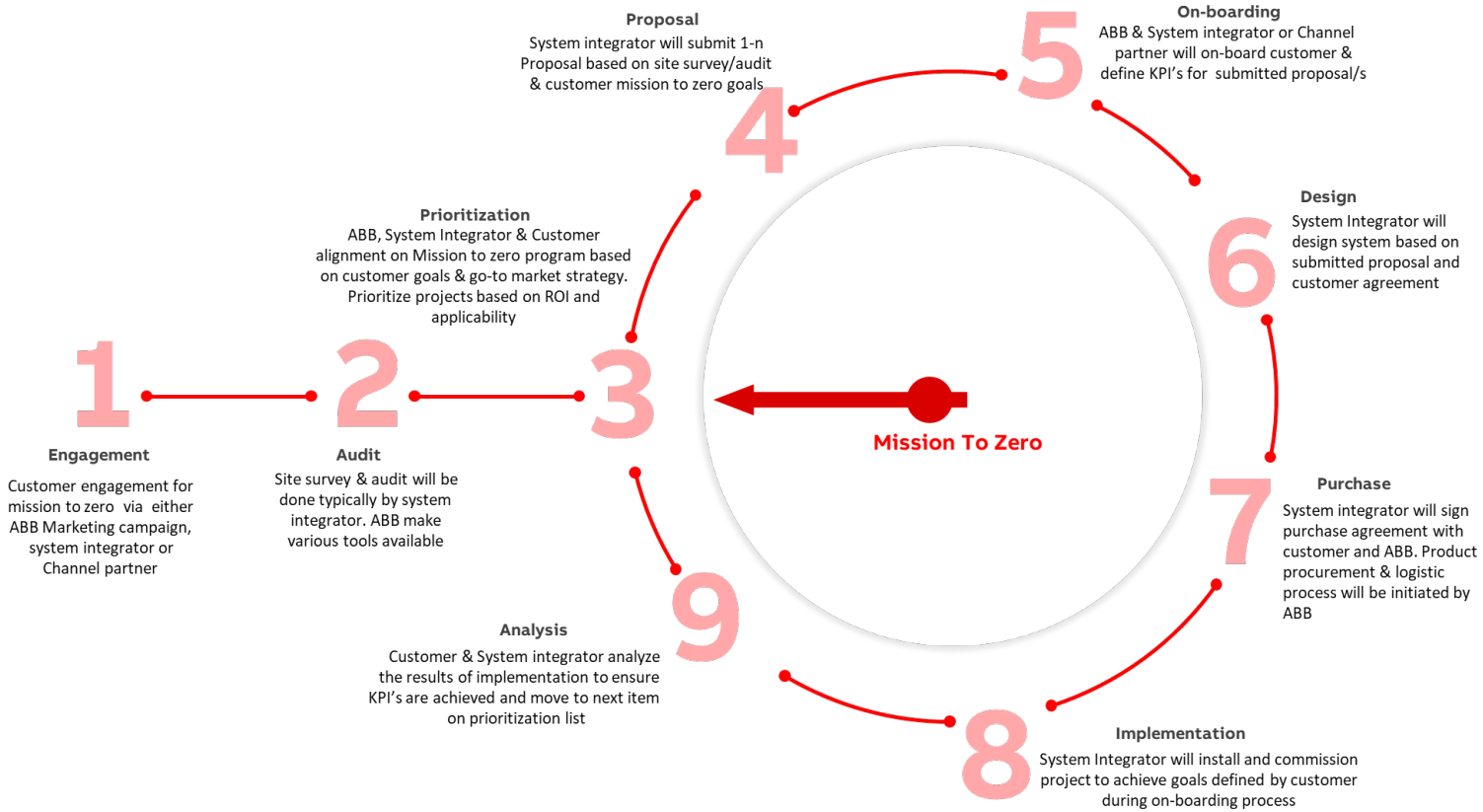
1. Source: Industry Survey "The new energy future: challenges and opportunities in corporate energy management", Edison Energy & ReD associates, 2017.

Mission to Zero™ Methodology
Stages

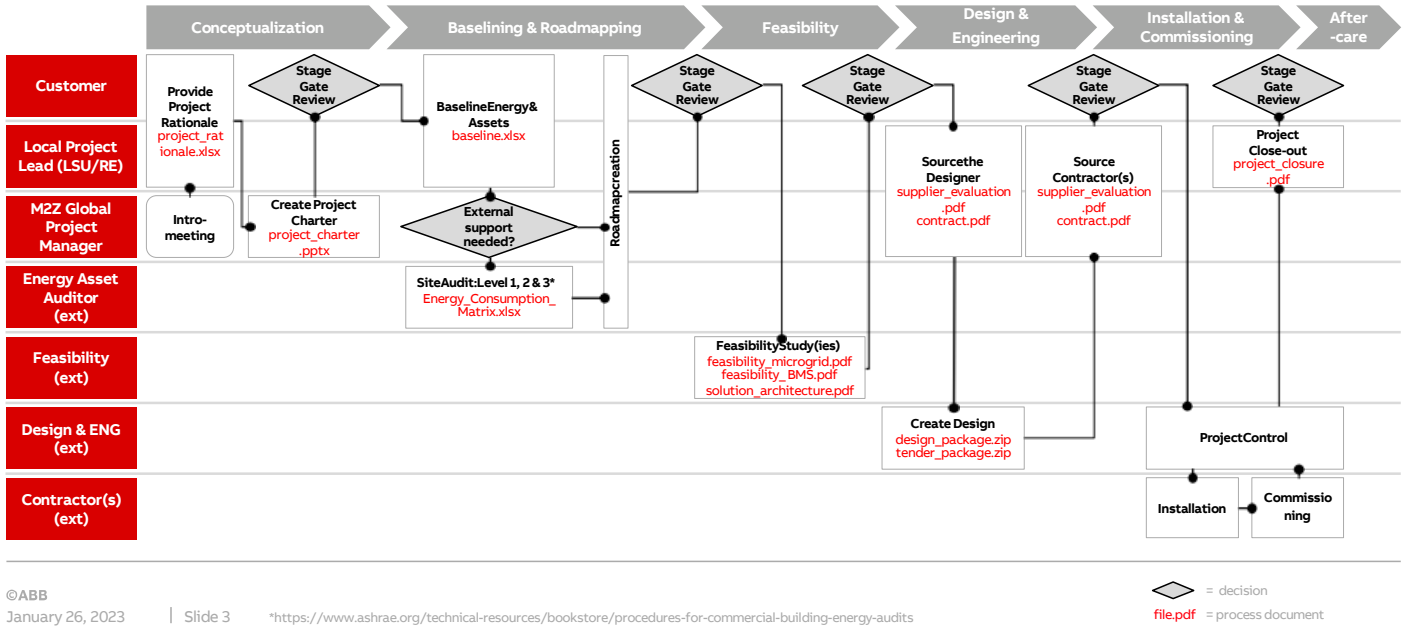


Mission to Zero™

Process Flow example ABB CMC Schaffhausen

A) Walking the talk on sustainability
B) Building up M2Z offering

ABB provides pre-packaged solutions for each segment together with a delivery blueprint



*https://www.ashrae.org/technical-resources/bookstore/procedures-for-commercial-building-energy-audits

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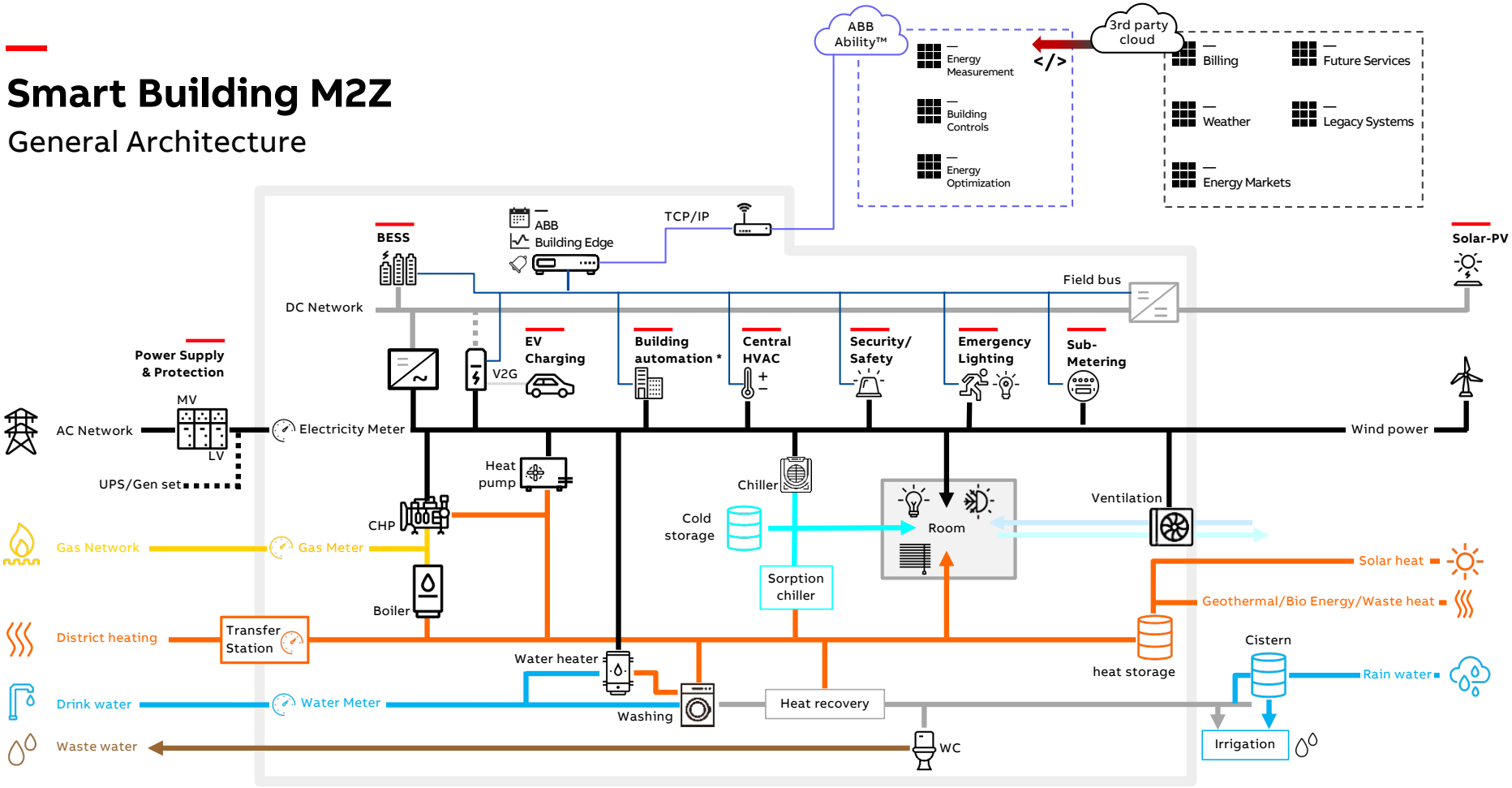
Smart Building M2Z

General Architecture



* includes lighting & shutter control, room HVAC

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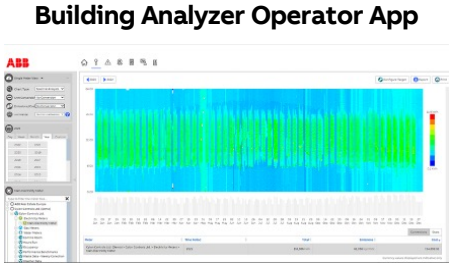
Energy Monitoring

Example PowerTower



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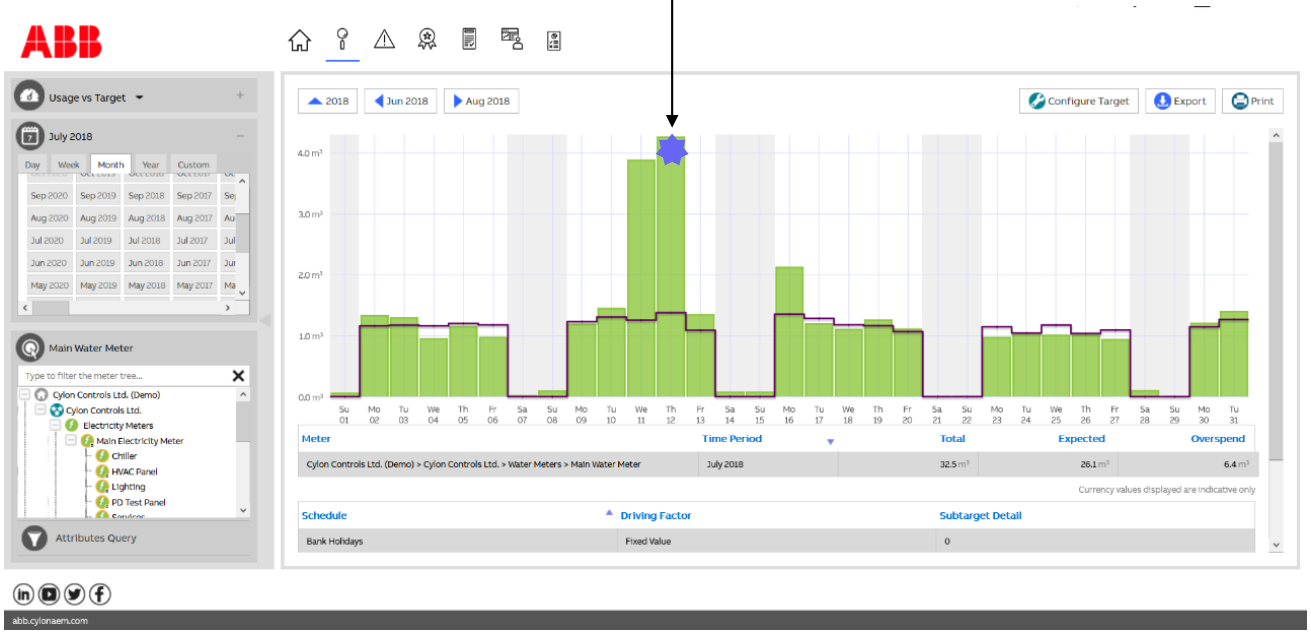
Facilities Management Benefits

Water Leak Captured and corrected

Sudden Increase In water consumption alert raised and corrective action taken



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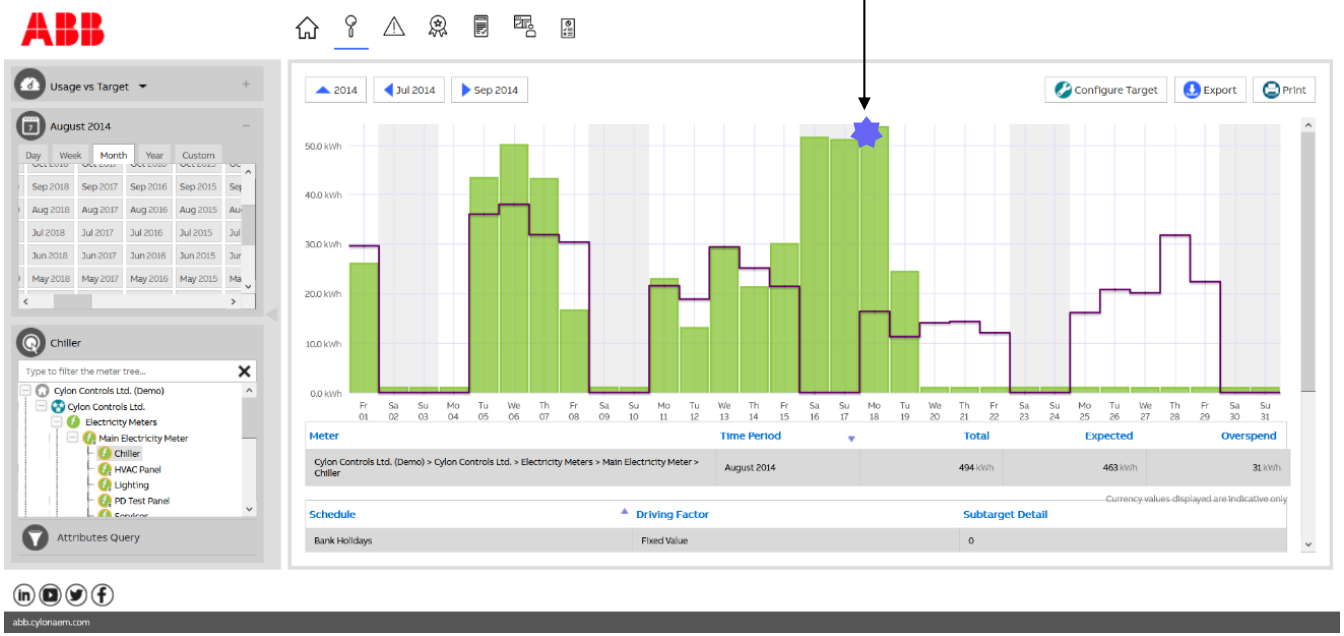
Facilities Management Benefits

Chiller Running over a weekend

Chiller Running Over a Weekend:
Caused by the chiller service engineer changing the control mode from BAS to Local on a Friday afternoon.
Detected and Corrected



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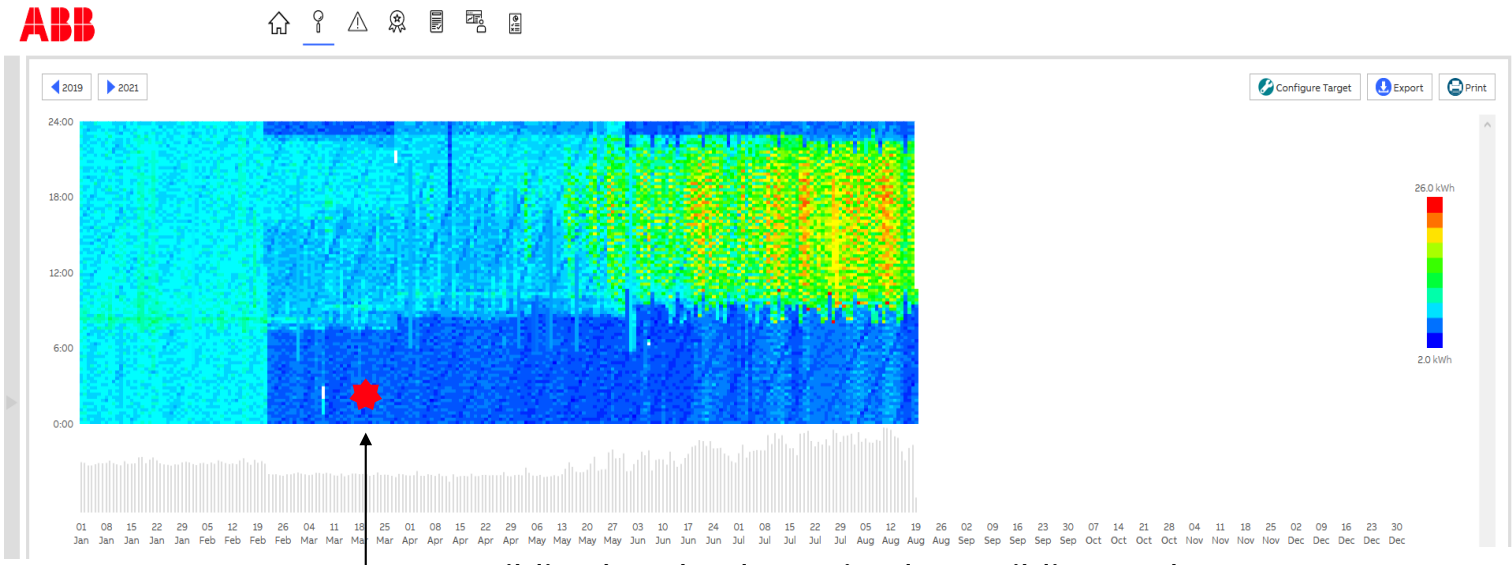
Facilities Management Benefits

Building baseload reduction



Building baseload examined on Building Analyzer outcome - BMS strategies updated to prevent non-essential plant from running out of hours

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Mission to Zero

ABB CMC CH

Where we are coming from

Key Facts

- installed state-of-the-art heat/cooling pump system including sector coupling & ABB Building Management System
- Converted waste heat into heating energy
- In production plant: gas consumption reduced by 85%
- In local community: 350-ton reduction in CO_2 emissions
- Strong courage, collaboration and curiosity across teams and in partnership with customers
- Defined as Lighthouse case

Team (L-R)

- Bernhard Cwiezel
- Evelina Szegedi
- Krassimir Gurov
- Rainer Rank
- Ralf Jäger
- Sebastian Moritz
- Tommaso Abbattista
- Torsten Edler

350 tons/year
CO_2 saved

85%/year
Gas consumption reduced

30%
Production capacity increased

0%
Electricity consumption increase

Next steps

Building Intelligence, one module at a time

ABB Ability™ BuildingPro Suites is our unified intelligence layer for integrated building and portfolio management. It transforms buildings into connected, efficient, sustainable, and comfortable environments.

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Many thanks for your attention

Bernhard Caviezel
Product Marketing Director
Mitglied der Geschäftsleitung
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