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24 November 2022

10:00 am -11:00 am | CET, Berlin, Madrid

2:30 pm – 3:30 pm | IST, Delhi

5:00 pm – 6:00 pm | CST, Beijing



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Smart Alarms – A step up in O&M efficiency unlocking portfolio expansion




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Welcome!

Do you have any questions? ? 

Send them in via the Q&A tab.  We aim to answer as many as we can today!

You can also let us know of any tech problems there.

We are recording this webinar today. 

We'll let you know by email where to find it and the slide deck, so you can re-watch it at your convenience.  



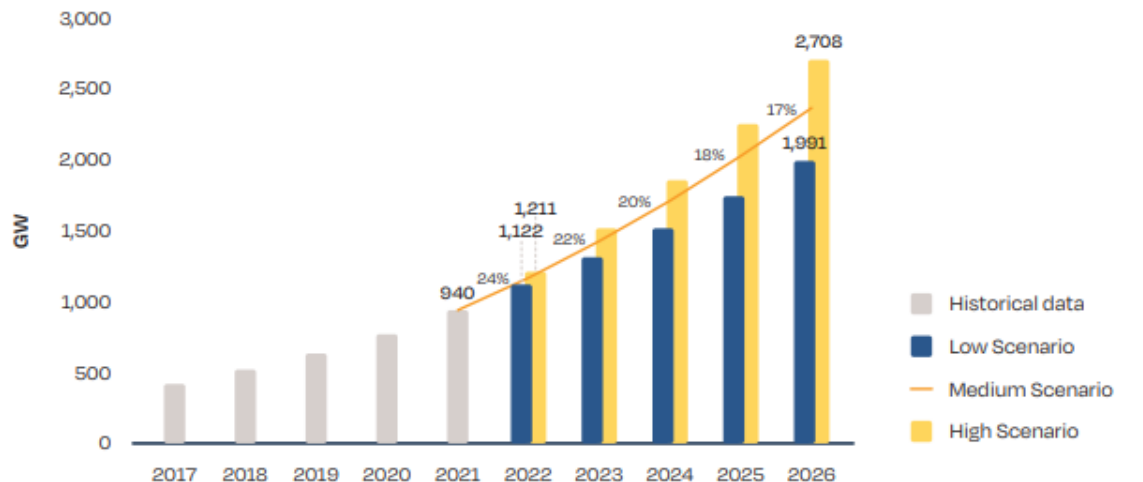
SMART ALARMS

*A STEP UP IN O&M EFFICIENCY
UNLOCKING PORTFOLIO EXPANSION*

November 2022



THE SOLAR PV MARKET



- ✓ Global solar market to reach Terawatt milestone
- ✓ Solar remains as the fastest growing energy technology
- ✓ Renewable portfolios are growing rapidly

THE EFFECT



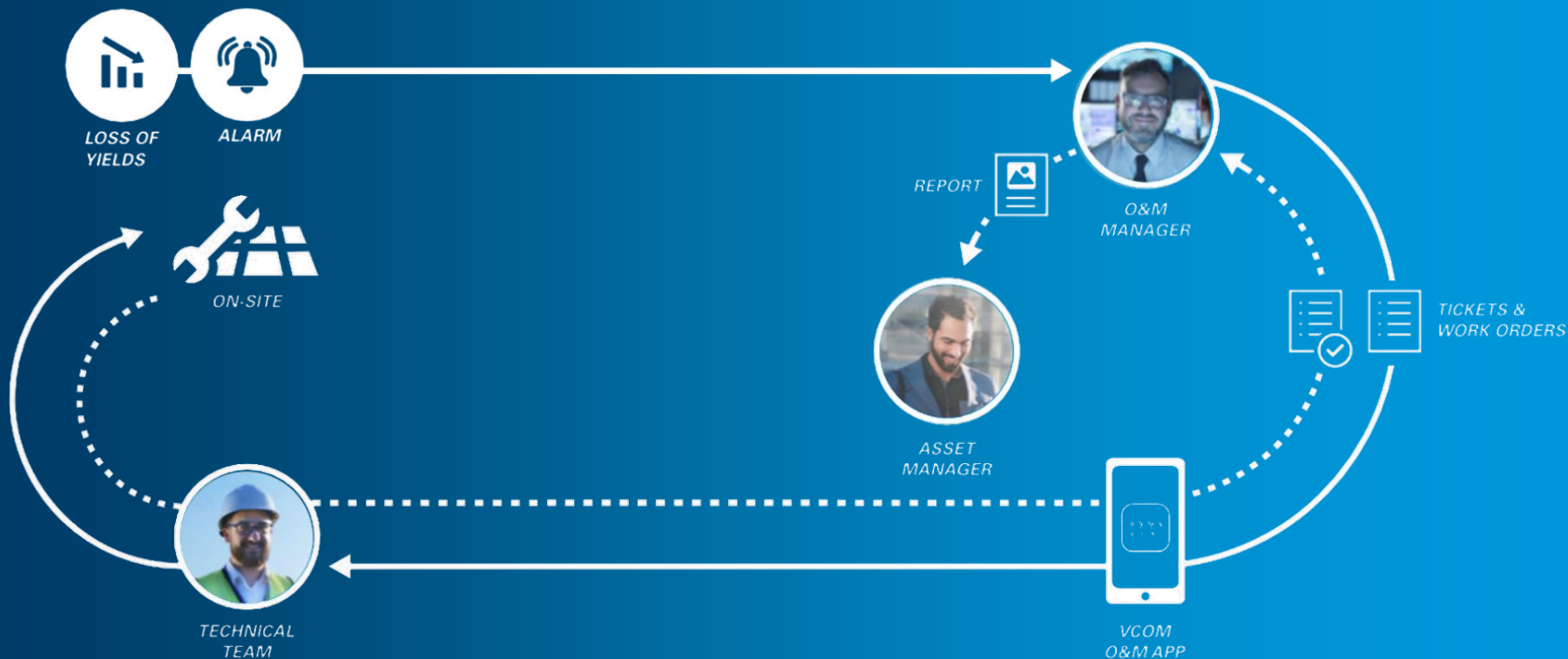
THE EFFECT



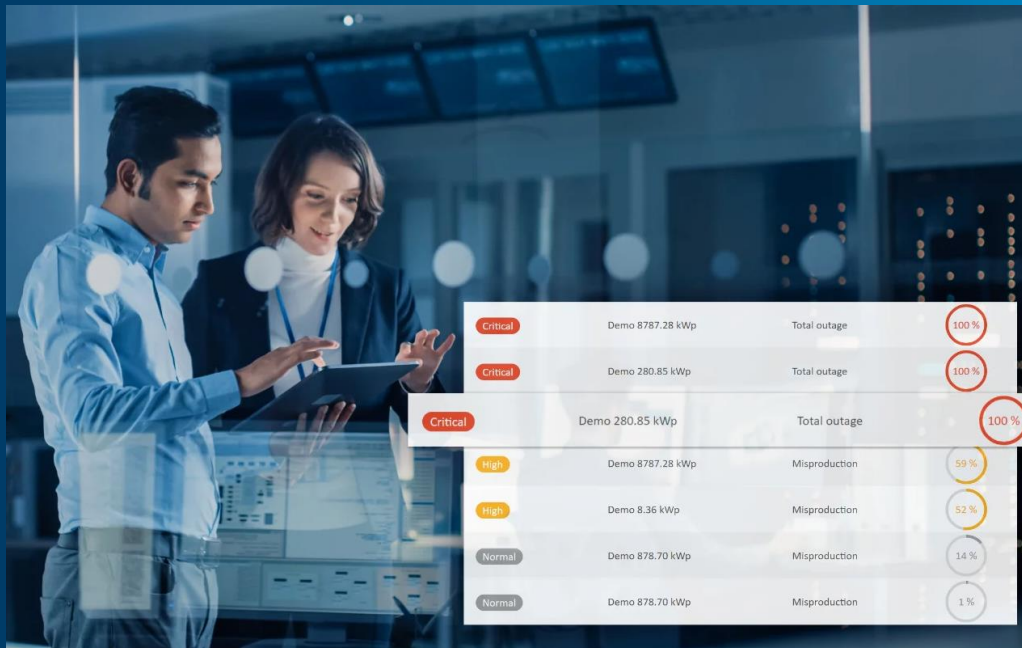
INCREASED COMPLEXITY OF O&M CONTRACTS



METEOCONTROL CLOUD WORKFLOWS



SMART ALARMS



- ✓ Increasing alarm quality and time efficiency in the O&M processes
- ✓ Scaling business by prioritizing failures economically
- ✓ Improve customer bonding due to increased O&M quality
- ✓ Reducing the risk of employee fluctuation and the business development limitation due to a lack of human resources

AN ADDED VALUE FOR O&M TEAMS AND TECHNICAL ASSET MANAGERS



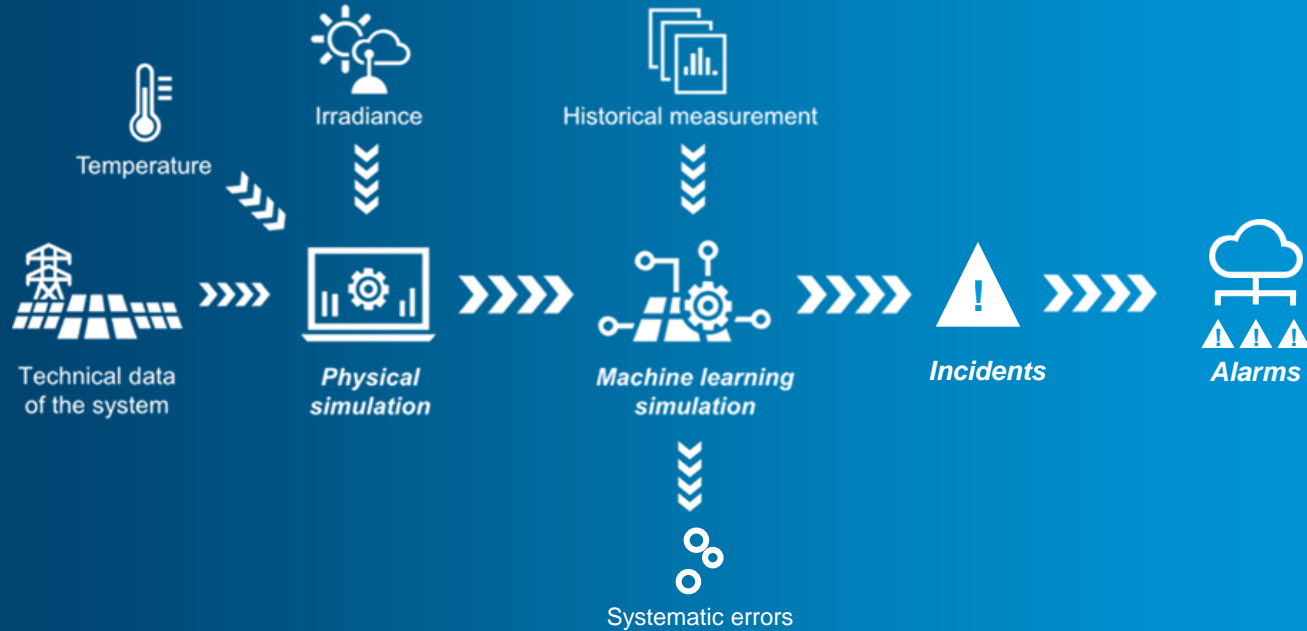
Ergonomic user interface



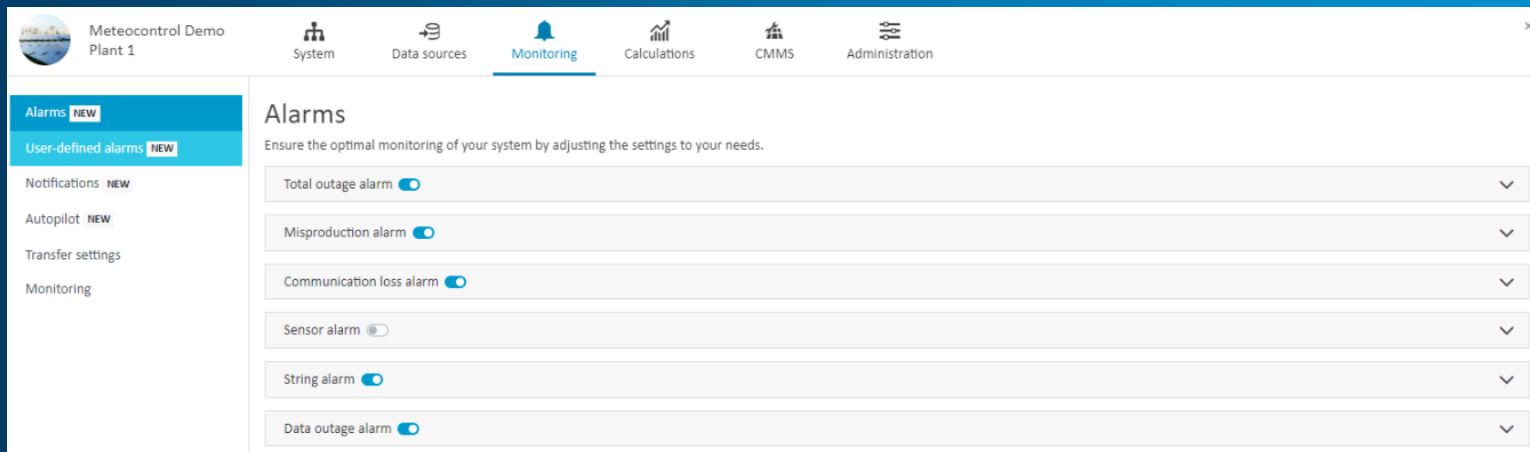
Data-driven & component based **alarming**



No redundancy: One affected component – One alarm

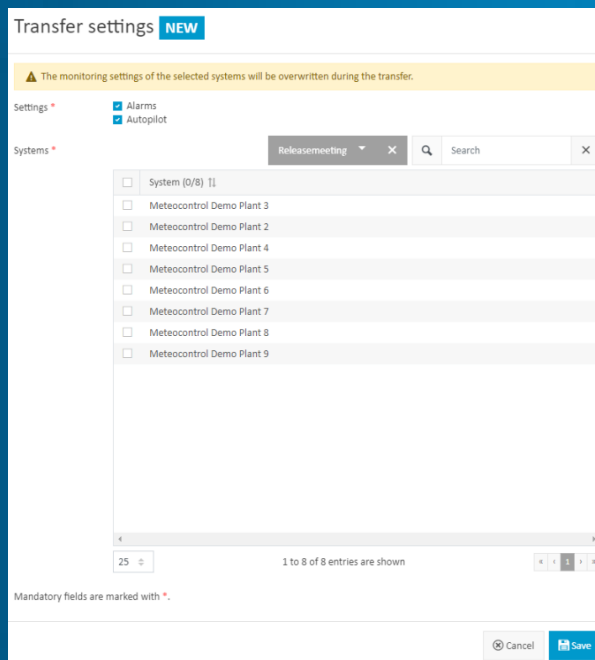


STANDARDISATION



✓ New user interface to facilitate the configuration for standard alarms

CONFIGURATION ROLL-OUT FOR PORTFOLIO SCALABILITY



Transfer settings **NEW**

⚠ The monitoring settings of the selected systems will be overwritten during the transfer.

Settings *
☒ Alarms
☒ Autopilot

Systems *
Release meeting ▾ × 🔍 Search ×

<input type="checkbox"/>	System (0/8) 11
<input type="checkbox"/>	Meteocontrol Demo Plant 3
<input type="checkbox"/>	Meteocontrol Demo Plant 2
<input type="checkbox"/>	Meteocontrol Demo Plant 4
<input type="checkbox"/>	Meteocontrol Demo Plant 5
<input type="checkbox"/>	Meteocontrol Demo Plant 6
<input type="checkbox"/>	Meteocontrol Demo Plant 7
<input type="checkbox"/>	Meteocontrol Demo Plant 8
<input type="checkbox"/>	Meteocontrol Demo Plant 9

25 1 to 8 of 8 entries are shown

Mandatory fields are marked with *.

Cancel Save

✓ Simple interface to transfer standard configuration to an existing portfolio

FLEXIBILITY

Edit user-defined alarm **NEW**

Title * Power Curtailment

Description An alarm is triggered when the plant is curtailed by grid operator

Type Power Plant Controller

Device PPC x

Value Actual valid active power setpoint [%] - PPC_P_SET_REL

Trigger alarm if the value is * less than

100 %

Ignore missing values ☐

Delay 0 minutes

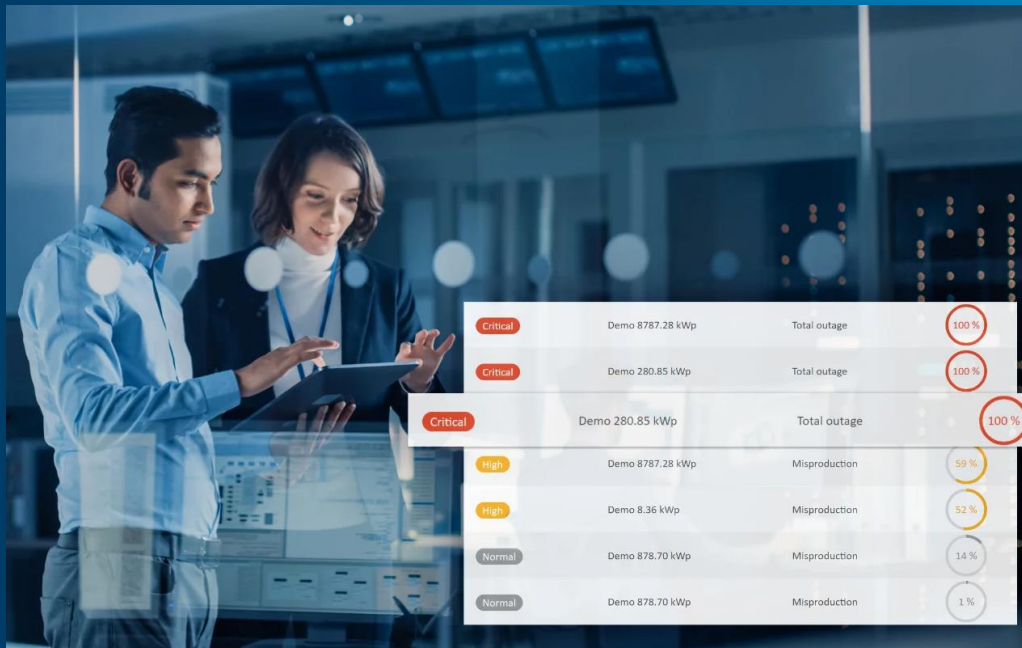
Consider daily values only ☒

0 minutes

Mandatory fields are marked with *.

✓ Full flexibility to track every single datapoint as a user-defined alarm

ALARM PRIORITIZATION



- ✓ Avoid any redundancy in the alarm creation by updating the alarms
- ✓ Different dynamic indicators for a smooth prioritization
 - ✓ What is the severity of the alarm?
 - ✓ When was the alarm created for the first time?
 - ✓ How long is the issue being detected by VCOM?
 - ✓ Is the alarm still relevant since its creation date?

USE CASE – INTELLIGENT ALARM SUPPRESSION

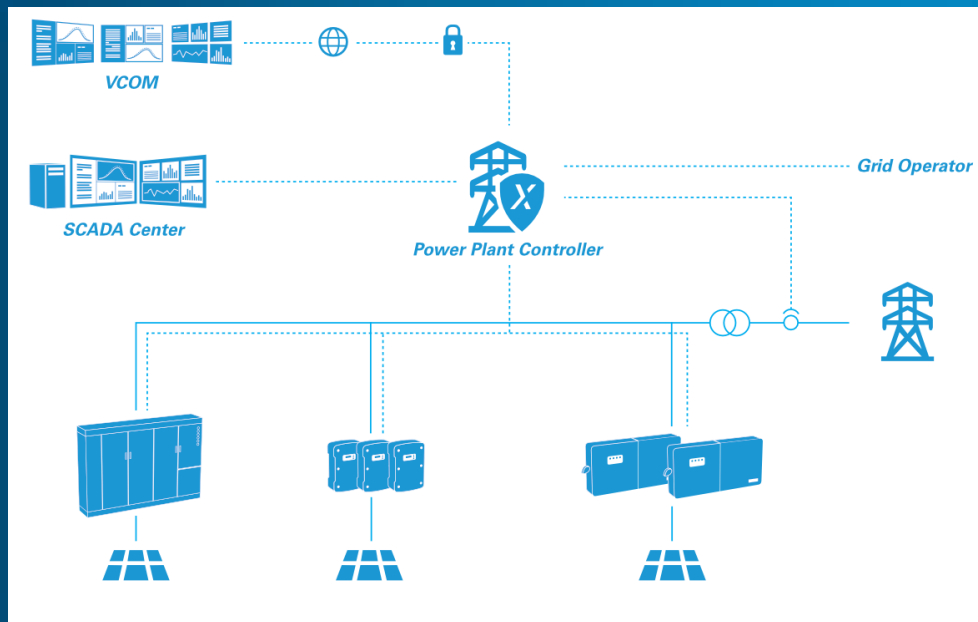
- ✓ One single alarm in case of system outage

Critical	Meteocontrol Demo Plant 1	100 %	8,786.16	Total outage	System
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- ✓ One single alarm on system level in case of a communication loss with all data loggers
- ✓ No string alarms in case of inverter outage

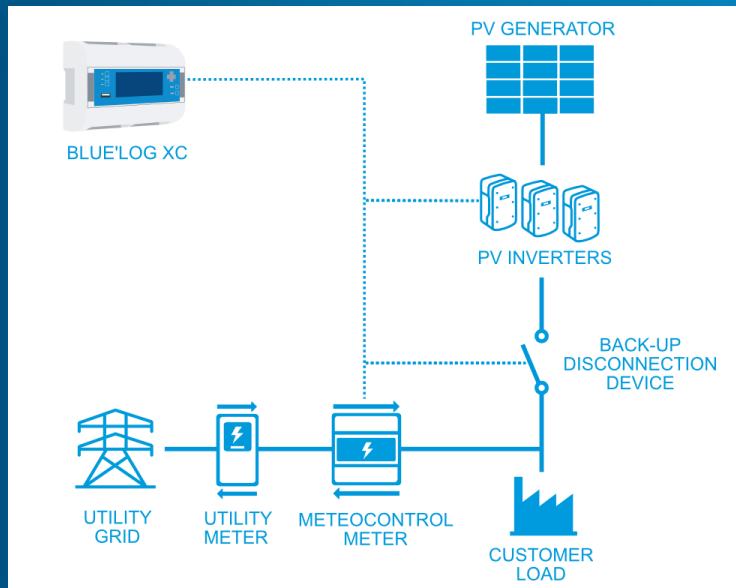
➤ Reduction by 3x in terms of alarm generation

USE CASE – GRID CONNECTED SYSTEMS



- ✓ Consideration of the setpoint at the grid connection point for the alarm generation

USE CASE – ZERO FEED-IN SYSTEMS



✓ Zero Feed-In solution

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US battery maker unveils solid-state storage systems for residential applications

by Anne Fischer



**Most-read
online!**

NREL updates interactive chart of solar cell efficiency

by Beatriz Santos



Coming up next...

Wednesday, 30 November 2022

9:00 am – 10:00 am GMT, London

10:00 am – 11:00 am CET, Berlin

Thursday, 1 December 2022

11:00 am – 12:00 pm EST, New York City

5:00 pm – 6:00 pm CET, Berlin, Madrid

Many more to come!

**From solar
module
production
to recycling**

**Understanding
utility-scale solar
and storage
operations and
maintenance cost
drivers**

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Editor
pv magazine

**Thank you for
joining today!**