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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



Marija Maisch
Editor
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pv magazine
webinars

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



Fadhel Hachicha
Product Manager Cloud Solution
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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



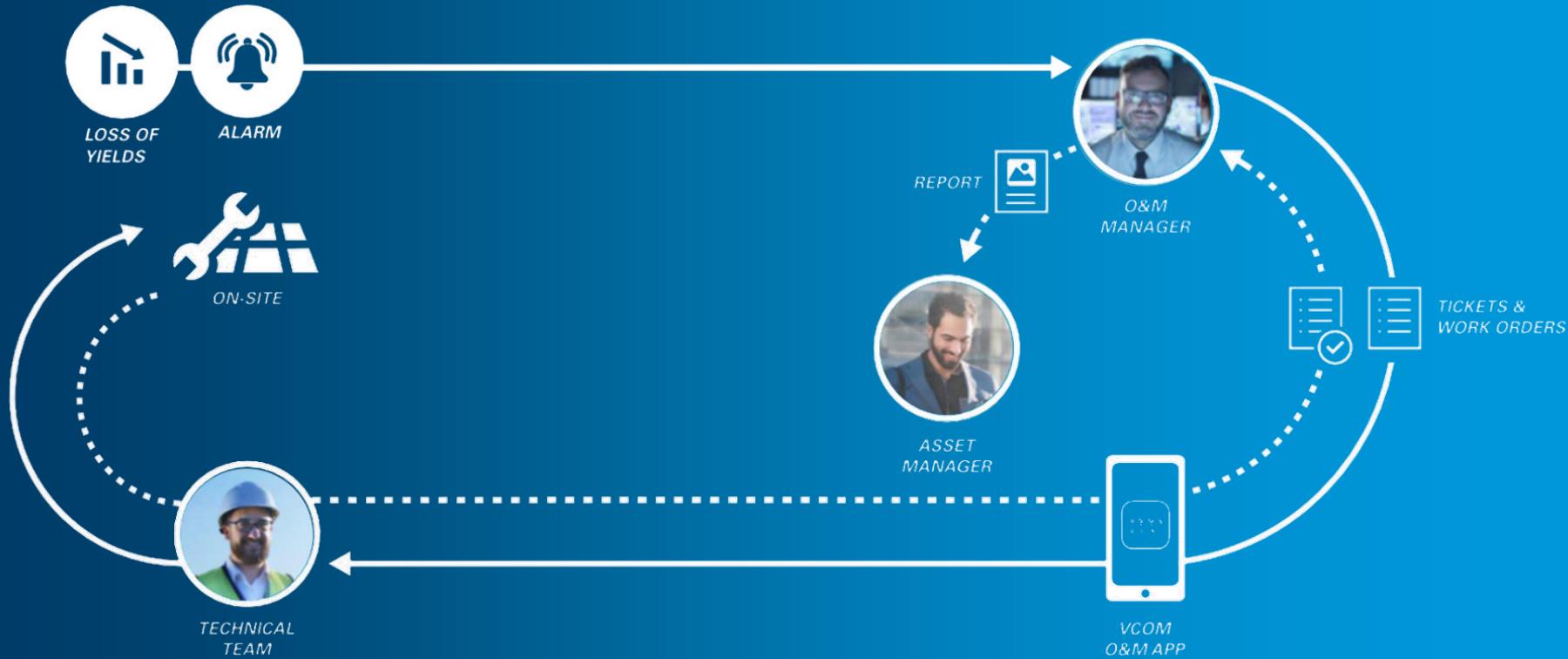
THE EFFECT



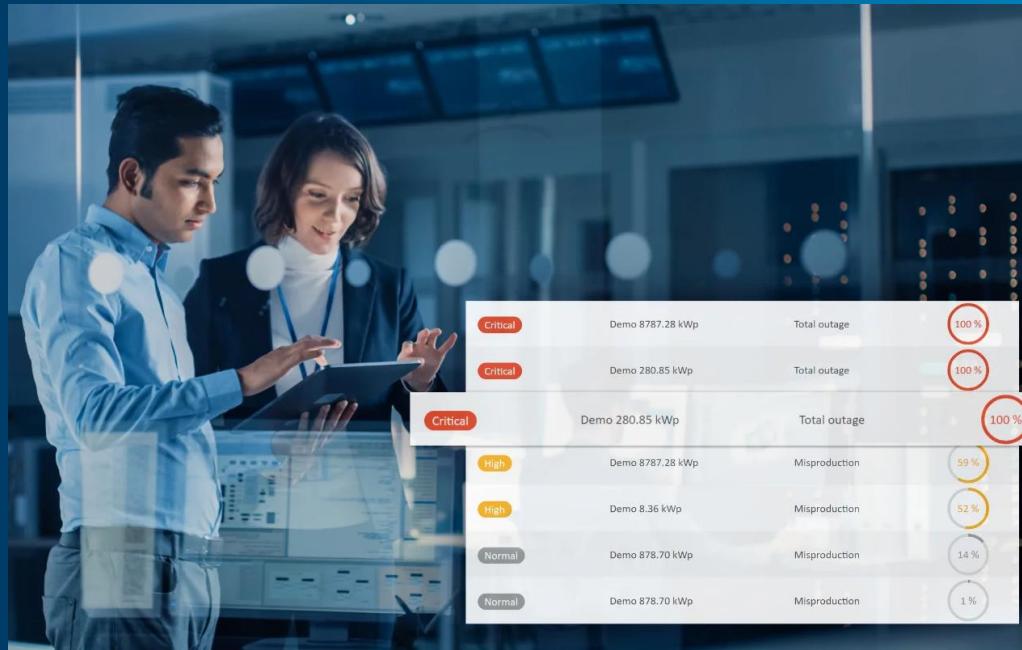
INCREASED COMPLEXITY OF O&M CONTRACTS



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



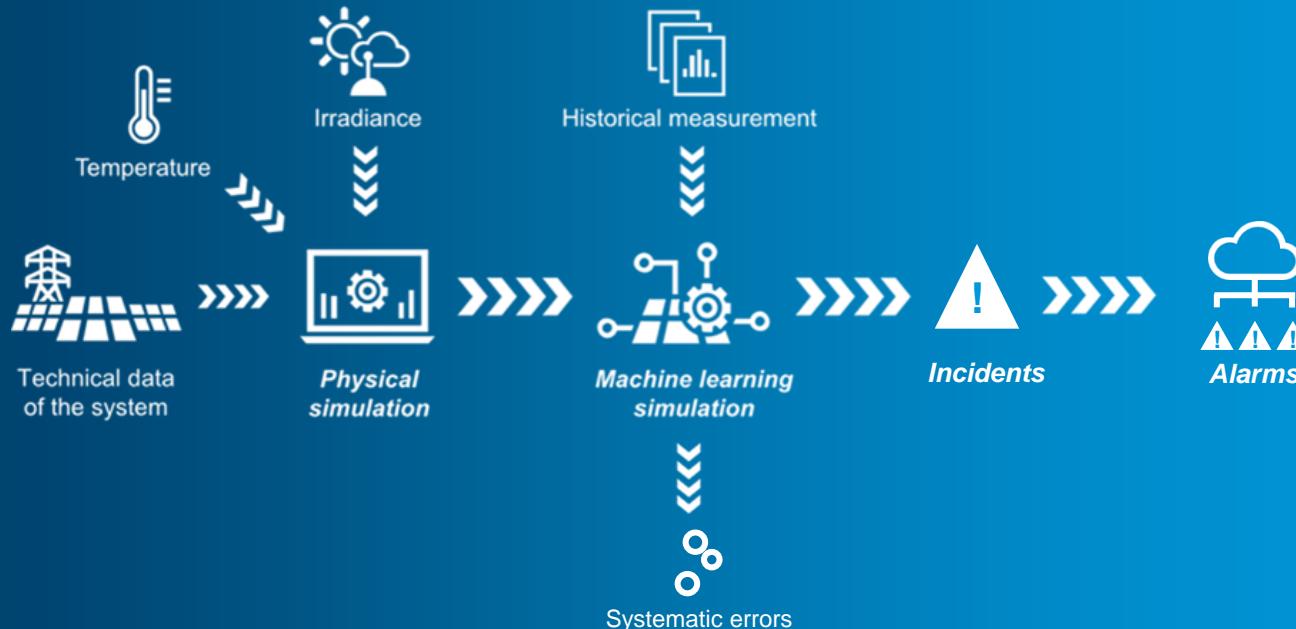
Ergonomic user interface



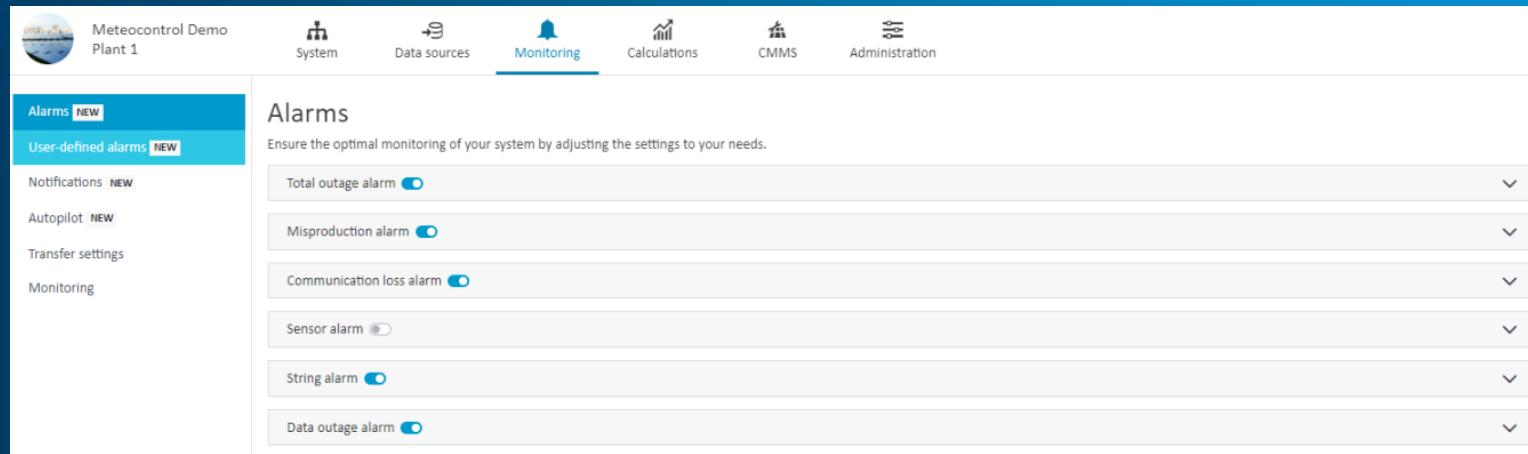
Data-driven & component based **alarming**



No redundancy: One affected component – One alarm



STANDARDISATION



Meteocontrol Demo Plant 1

System Data sources **Monitoring** Calculations CMMS Administration

Alarms **NEW**

User-defined alarms **NEW**

Notifications **NEW**

Autopilot **NEW**

Transfer settings

Monitoring

Alarms

Ensure the optimal monitoring of your system by adjusting the settings to your needs.

Total outage alarm

Misproduction alarm

Communication loss alarm

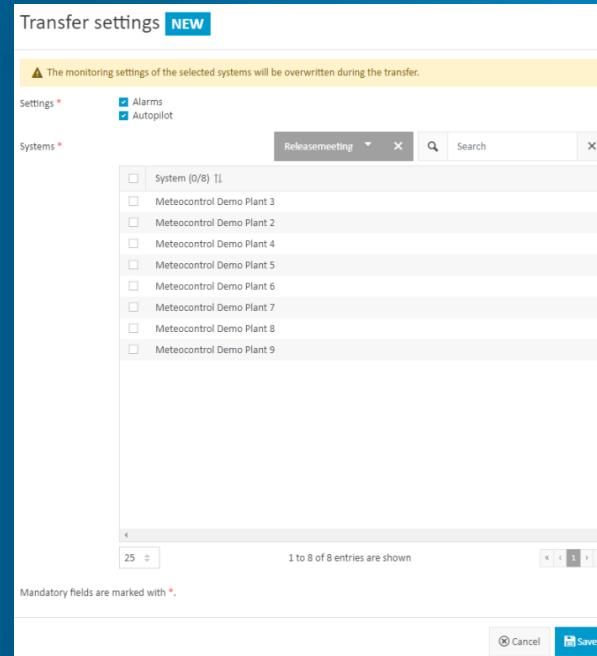
Sensor alarm

String alarm

Data outage alarm

✓ New user interface to facilitate the configuration for standard alarms

CONFIGURATION ROLL-OUT FOR PORTFOLIO SCALABILITY



- ✓ Simple interface to transfer standard configuration to an existing portfolio

FLEXIBILITY

Edit user-defined alarm **NEW**

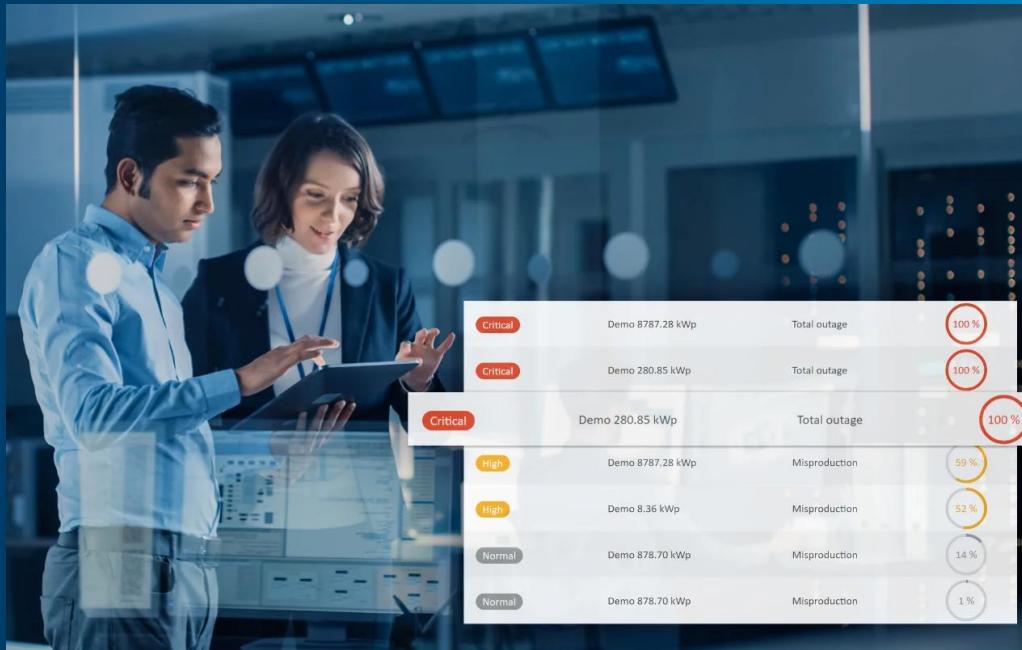
| | |
|---------------------------------|--|
| Title * | Power Curtaillement |
| Description | An alarm is triggered when the plant is curtailed by grid operator |
| Type | Power Plant Controller |
| Device | ppc x |
| Value | Actual valid active power setpoint [%] - PPC_P_SET_REL |
| Trigger alarm if the value is * | less than |
| | 100 % |
| Ignore missing values | <input type="radio"/> 0 minutes |
| Delay | <input checked="" type="radio"/> 0 minutes |
| Consider daily values only | <input type="radio"/> 0 minutes |

Mandatory fields are marked with *.

Cancel

✓ 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

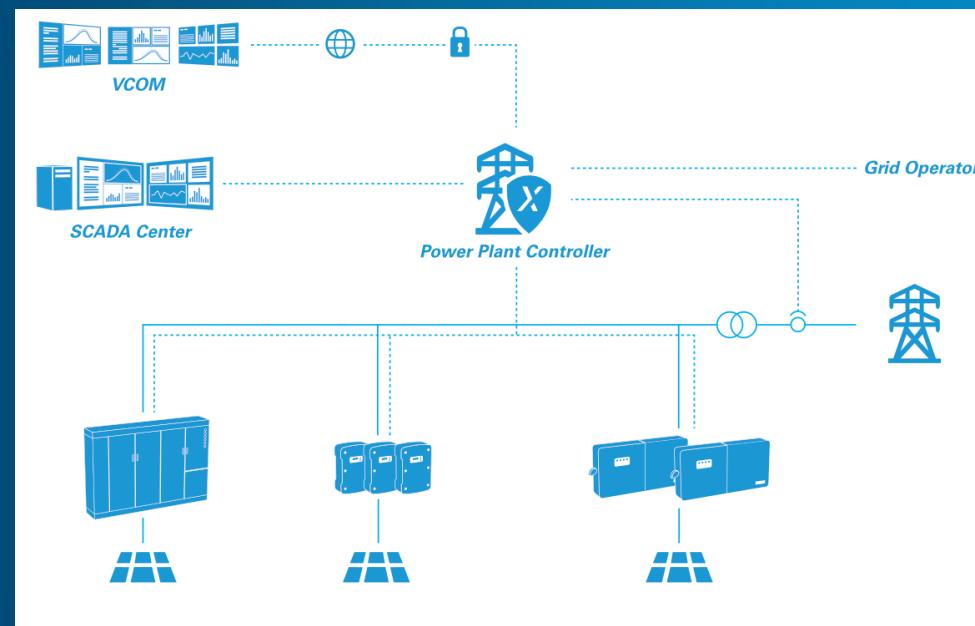
- ✓ One single alarm in case of system outage



- ✓ One single alarm on system level in case of a communication loss with all data loggers
- ✓ No string alarms in case of inverter outage

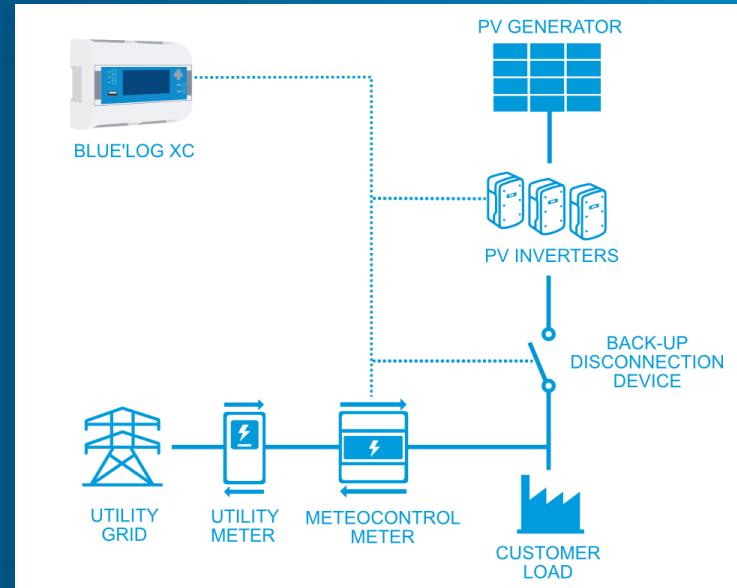
➤ Reduction by 3x in terms of alarm generation

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

The logo for meteocontrol, consisting of the lowercase letters 'mc' in a bold, white, sans-serif font, followed by a vertical line and the word 'meteocontrol' in a white, lowercase, sans-serif font.

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Q&A



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by Beatriz Santos



Most-
read
online!

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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**Thank you for
joining today!**