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7 November 2023

9:00 am – 10:00 am | GMT, London

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

5:00 pm – 6:00 pm | CST, Beijing



Marian Willuhn

Editor
pv magazine



Markus Hühnerbein

Product Manager Cloud Applications
meteocontrol



Faisal Iqbal


O&M Manager
YellowDoor Energy

pv magazine
webinars

New automation features ease O&M workload

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.  



AUTOMATION IN O&M MANAGEMENT

November 2023

***WHAT CAN WE DO TO ENABLE A
SUSTAINABLE FUTURE?***

OUR MISSION

We enable all renewable energy stakeholders to **maximize their business efficiently** and help energy suppliers to transit to 100% renewables.

OUR VISION

We turn **100% renewable energy** into reality to create a sustainable and prosperous future for everybody, worldwide.

A few numbers



60.000
MONITORED
PV PLANTS



25
GWp POWER
IN OUR PORTAL



250
DEDICATED
SPECIALISTS



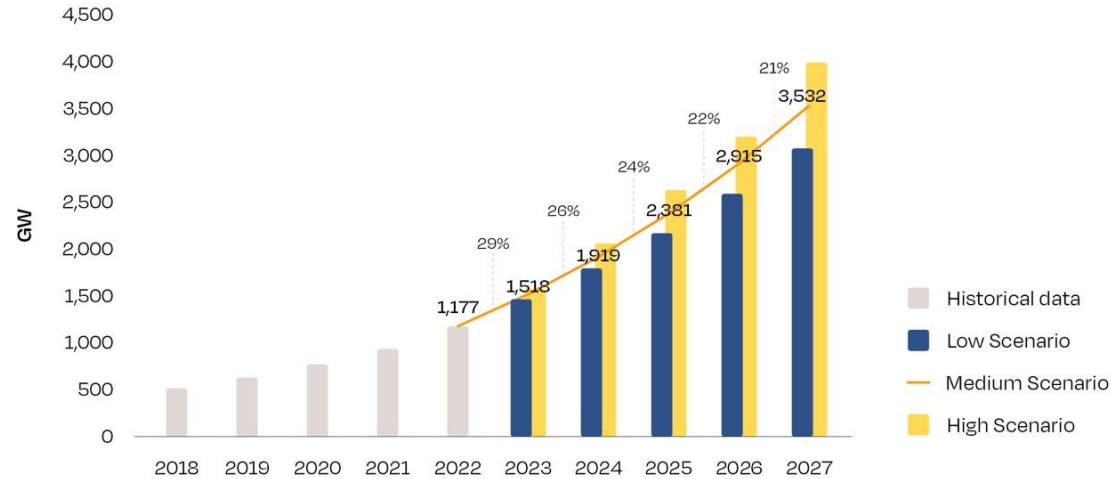
12
WORLDWIDE
LOCATIONS



25
YEARS OF
EXPERIENCE

Growth in the PV industry

FIGURE 18 GLOBAL TOTAL SOLAR PV MARKET SCENARIOS 2023 - 2027



A global irreversible solar tipping point may have passed [...]

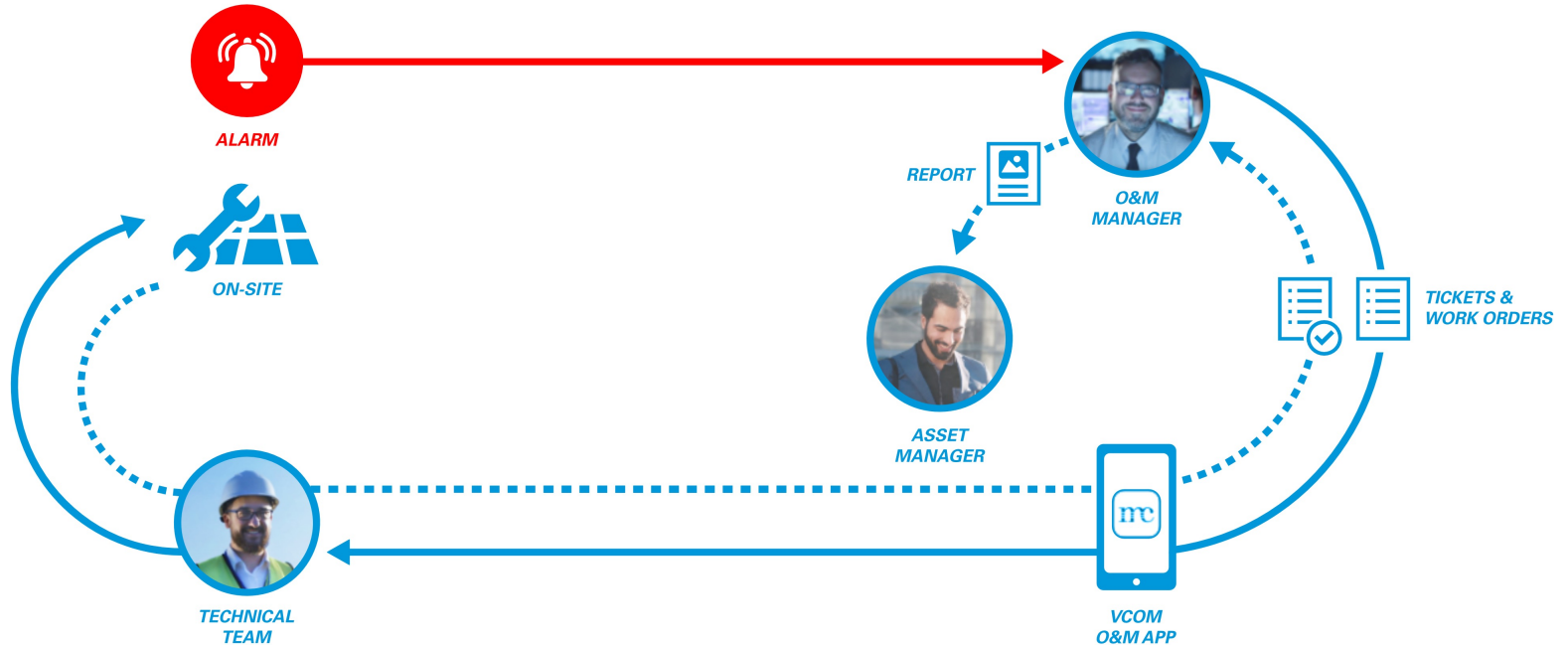
- NijJ.M.M., Mercure, JF., Ameli, N. et al. The momentum of the solar energy transition.sse, F.

© SOLARPOWER EUROPE 2023

***“DIGITALISATION IS CHANGING THE
ENERGY WORLD FROM TODAY INTO
TOMORROW.”***

www.solarpowereurope.org/interests/digitalisation

VCOM workflows

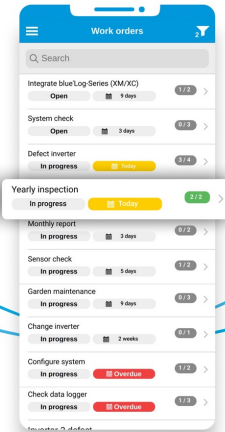


VCOM CMMS

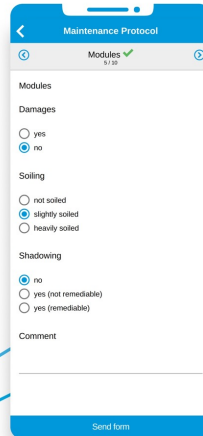


Access to all of your work orders online and offline synchronized with VCOM

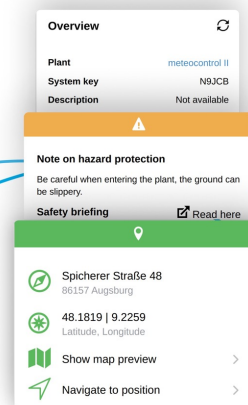
All open work orders at a glance



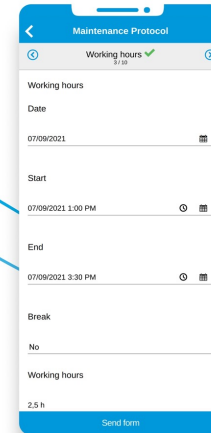
Standardized forms for efficient asset management



All relevant information for the use on the system



Complete documentation thanks to digital processing online and offline



Need for automation



94% of workers say they perform repetitive, time-consuming tasks in their role



9 out of 10 knowledge workers say that automation has improved people's lives in the workplace



2 out of 3 knowledge workers say automation has helped them be more productive at work

zapier.com/blog/state-of-business-automation-2021/#essential-software. Accessed on 12.10.2023


“About 60 percent of all occupations have **at least 30 percent** of constituent activities that could be automated”

A future that works: Automation, employment and productivity - McKinsey&Company, 2017

VCOM automation

Summary

Trigger

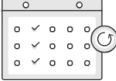
 **Recurring date**

↓

Action 1

Configure action


Select a trigger



Recurring date

Set up an automation that occurs on a regular basis.

Coming soon




Alarm occurred

Set up an automation based on a specific alarm occurrence.

VCOM automation

Summary

Trigger


 Every month
on the first Monday

↓

Action 1


Configure action

Select an action



Ticket with work order

Automatic creation of a ticket with a work order to be executed by a service team, for example.



Ticket

Automatic creation of a ticket for recurring events, as a reminder or for reporting purposes.

VCOM automation

Summary

Trigger

Every month on the first Monday

↓

Action 1

- Ticket
Monthly inspection
- Work order
Inspection instructions
- Systems and assignees

Select systems and assignees

+ Add systems

Q Search

<input type="checkbox"/>	Action	Systems ↑	Ticket assignee ☰	Work order assignee ☰
<input type="checkbox"/>		PV + 1 battery 620 kWp	Unassigned ▼	Unassigned ▼
<input type="checkbox"/>		PV 645 kWp	Unassigned ▼	Unassigned ▼
<input type="checkbox"/>		PV Utility 50 MWp	Unassigned ▼	Unassigned ▼

ABOUT YELLOW DOOR ENERGY



Provides **power purchase agreements / solar leases** to businesses



200+ MWp of solar projects in 6 countries



92 projects including Solar PV, BESS, LED Lighting & more!



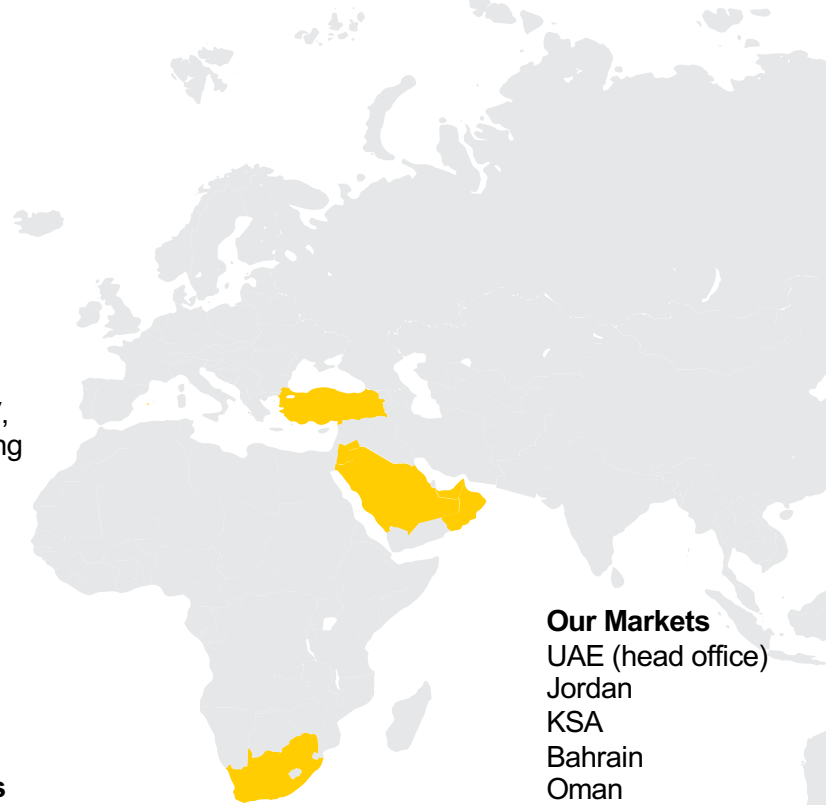
536,000 MWh of clean electricity generated as of September 30, 2023



380,000 metric tons of CO2e avoided as of September 30, 2023*



140+ employees hailing from 30+ nationalities



Our Markets

UAE (head office)
Jordan
KSA
Bahrain
Oman
South Africa
Türkiye

WE'RE WORKING WITH LEADING COMPANIES



SOLAR SUCCESS IN THE UAE



Capacity: 1.4 MWp Solar Carport for Trucks | Dubai, UAE



View full project list: <https://www.yellowdoorenergy.com>



PROJECT BENEFITS

- **Significant cost savings** with a solar lease
- **2,400 megawatt-hours** of clean energy generated in Year 1
- **1 million kilograms of carbon emissions** avoided in Year 1

OUR EXPERIENCE WITH METEOCONTROL

Usage

- Became client in 2017
- Work with a large asset management team
- Solar power plants / portfolio performance monitoring
- Alarms and Alerts customization
- Initial deployment of CMMS and automation (Tickets, Work Orders)
- Corrective Maintenance, Preventive Maintenance specific instructions / forms

Benefits

- Real time performance monitoring
- Portfolio asset management in efficient manner
- Time saved by avoiding manual repeating of tasks
- Great customer service

What's next?

Summary

Trigger

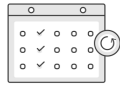
 Recurring date



Action 1

Configure action

Select a trigger



Recurring date

Set up an automation that you want to occur on a regular basis.



Alarm occurred

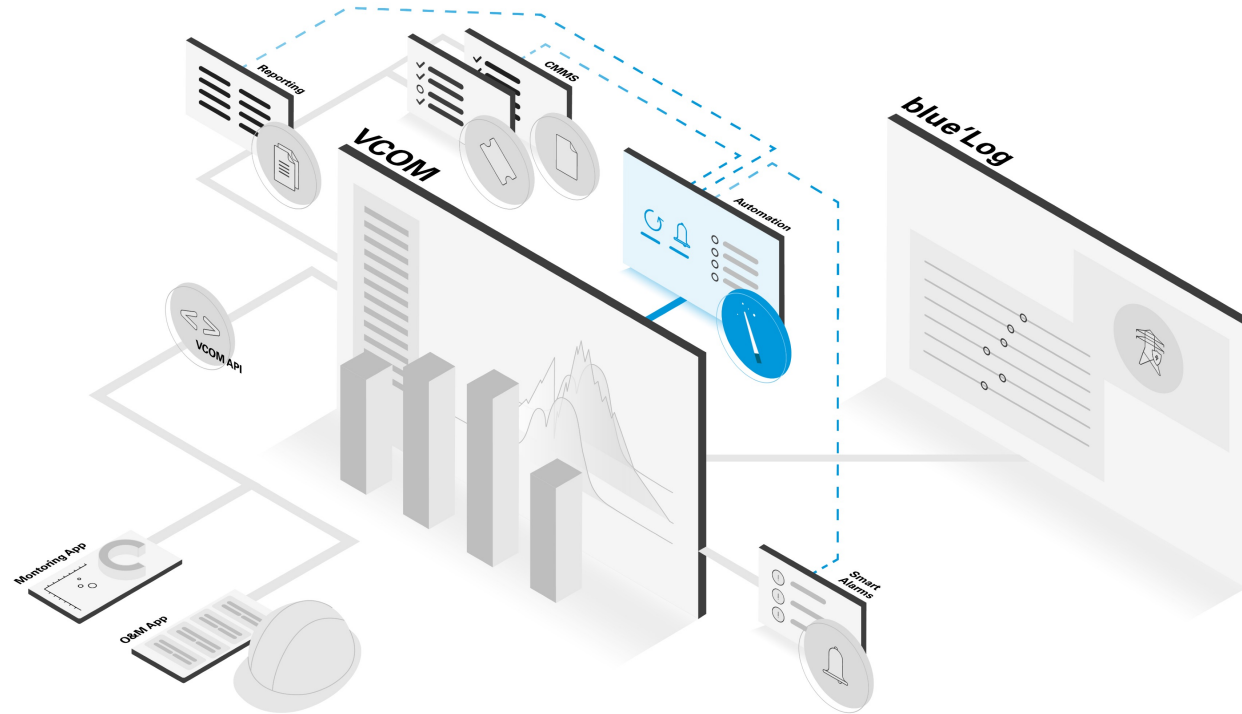
Set up an automation based on an specific alarm occurrence.



Curtailment

Set up an automation to calculate yield losses due to power curtailment.

Meteocontrol: Cloud solutions



#onemc



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meteocontrol GmbH
Pröllstr. 28
86157 Augsburg, Germany

Phone: +49 (0)821 34666-0
Email: info@meteocontrol.de



Markus Hühnerbein
Product Manager Cloud Applications

m.huehnerbein@meteocontrol.com

meteocontrol.com

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Q&A



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[Longi claims 33.9% efficiency for perovskite-silicon tandem solar cell](#)

by Vincent Shaw



Most-read online!

[Panasonic introduces residential solar kits](#)

by Uma Gupta



Coming up next...

Wednesday, 8 November 2023

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

5:00 pm – 6:00 pm CET, Berlin, Paris, Madrid

Thursday, 9 November 2023

11:00 am – 12:00 pm CET, Berlin, Paris, Madrid

3:30 pm – 4:30 pm IST, Delhi

Many more to come!

**A deep dive
into battery
supply chain
and pricing**

**Heterojunction
at the height of
its power**

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www.pv-magazine.com/webinars

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roundtables

EUROPE



DEC 5 & 6, 2023

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Marian Willuhn
Editor
pv magazine

**Thank you for
joining today!**