Scout – VAR

POWER FACTOR MONITORING SYSTEM





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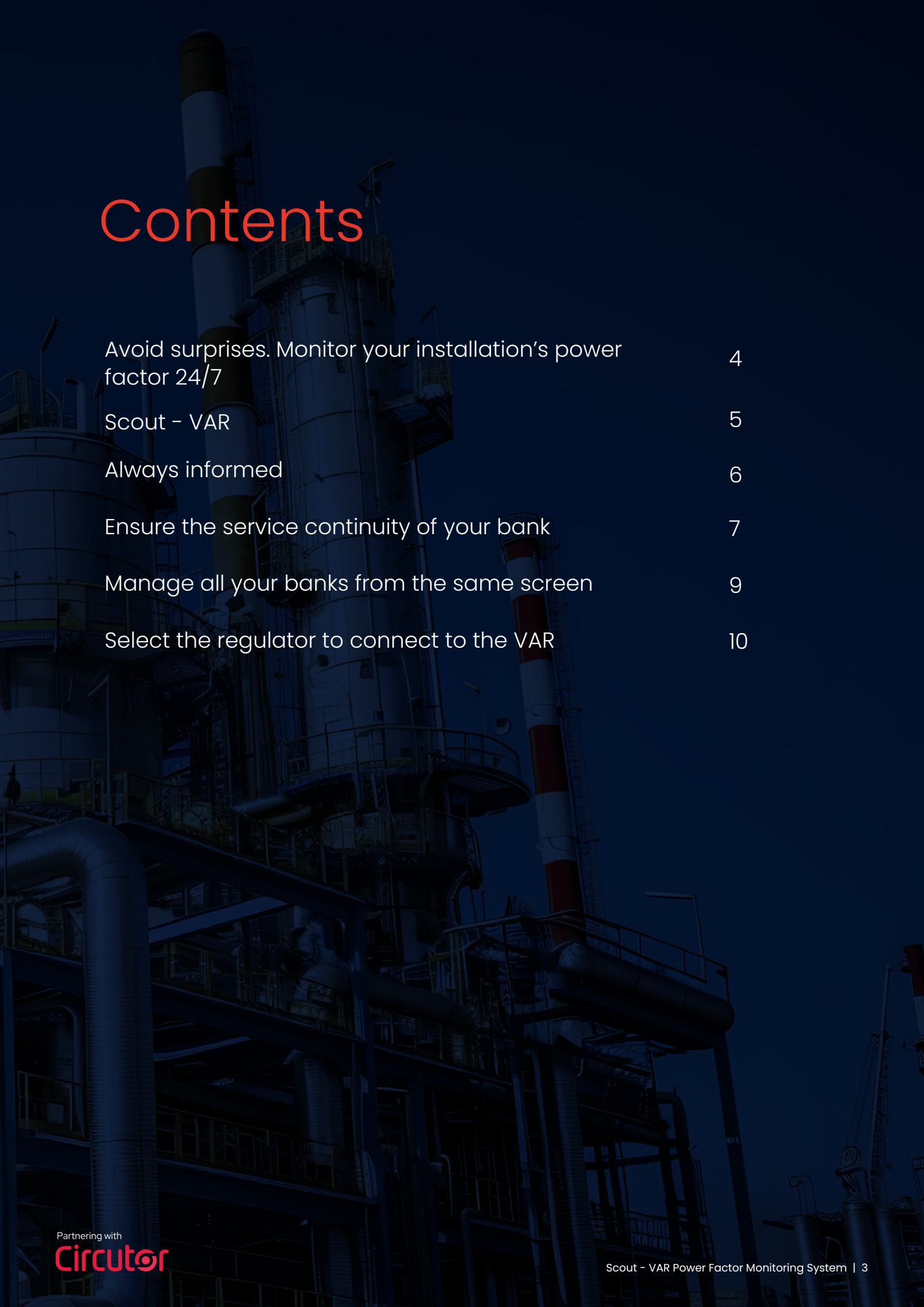


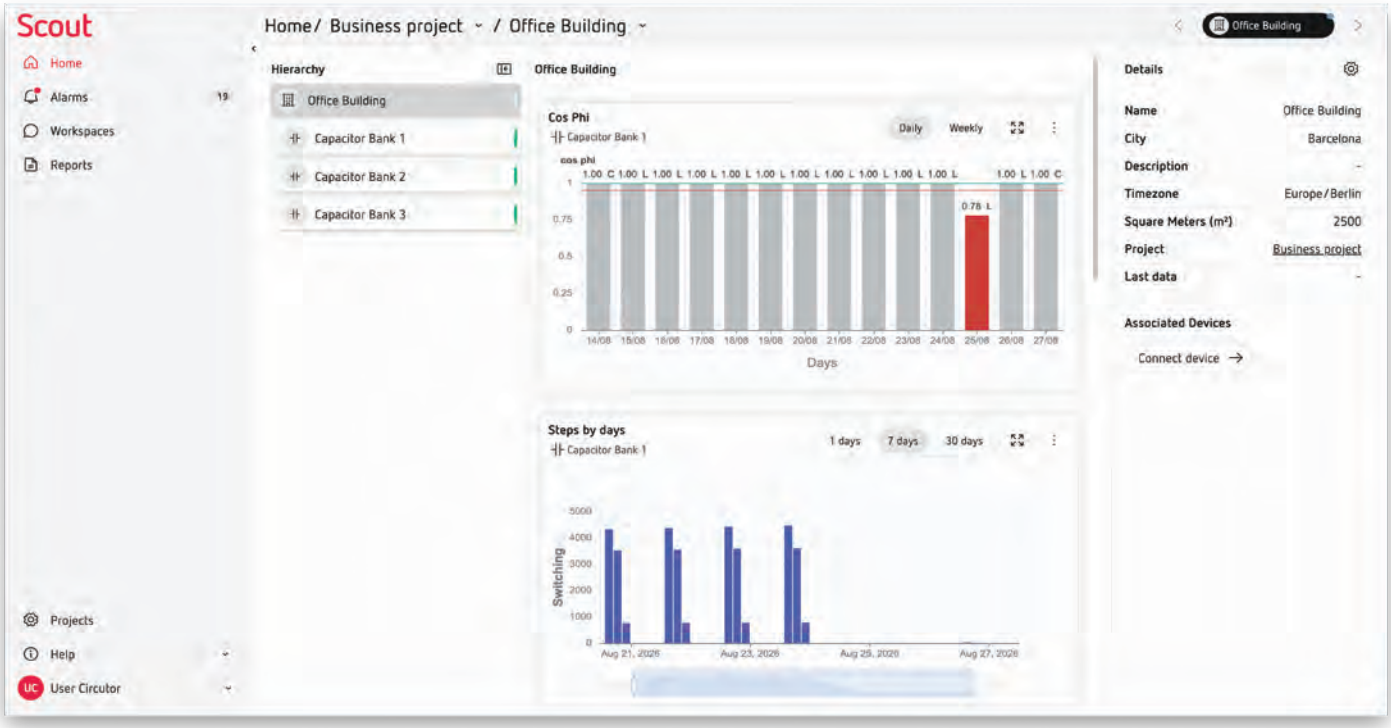
Partnering with Circutor

Avoid surprises. Monitor your installation's power factor 24/7.

The VAR (or more commonly, kvar) is the unit of reactive power. And from now on, the VAR is also the Power Factor Monitoring System in CIRCUTOR's capacitor banks.

The Scout - VAR System helps avoid inductive reactive energy penalties by providing smart notifications shown directly on the website of the service or via email, and it also facilitates maintenance by issuing reminders to ensure the proper operation of your capacitor bank.

Prolong the life of the bank and avoid penalties.



Scout - VAR
Power Factor Monitoring System

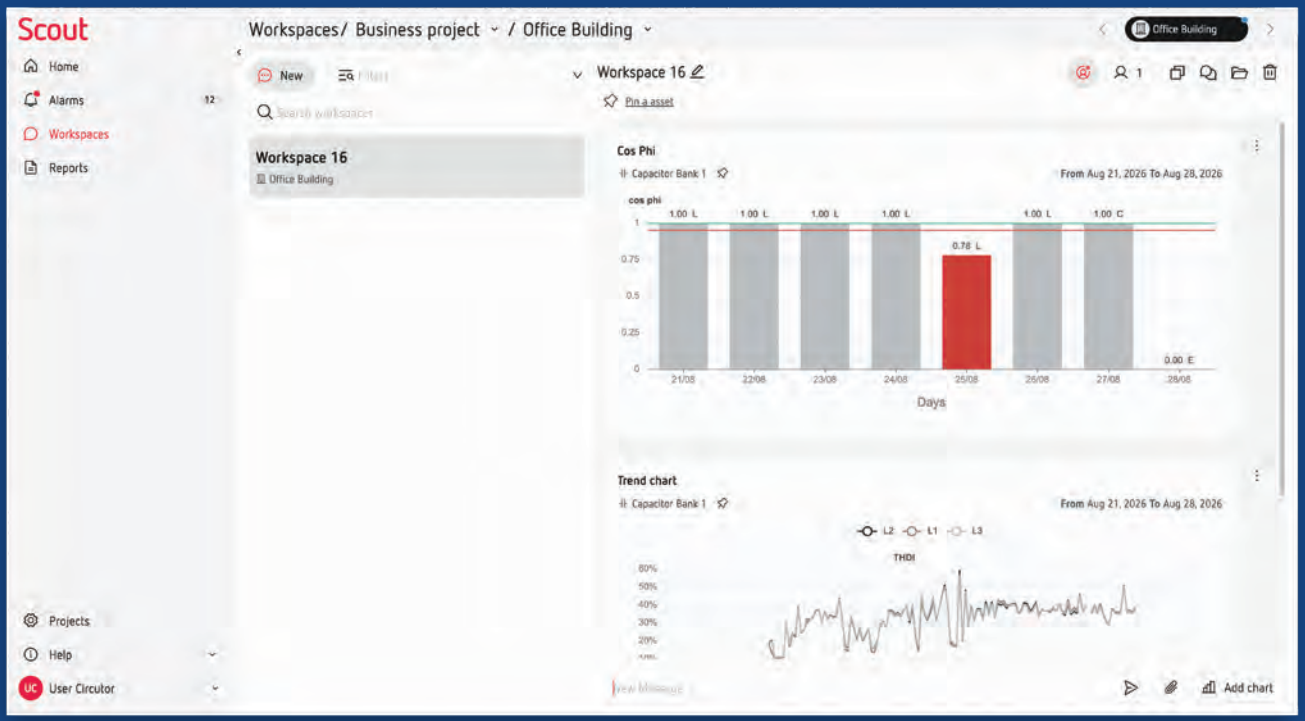
Don’t pay more than you have to. Avoid penalties.

The system offers online monitoring of your installation’s cos phi, and helps you avoid potential penalties on your electric bill.

Automatic email alerts

› **Target cos phi alert:** We will notify you when your installation’s cos phi falls below the target value.

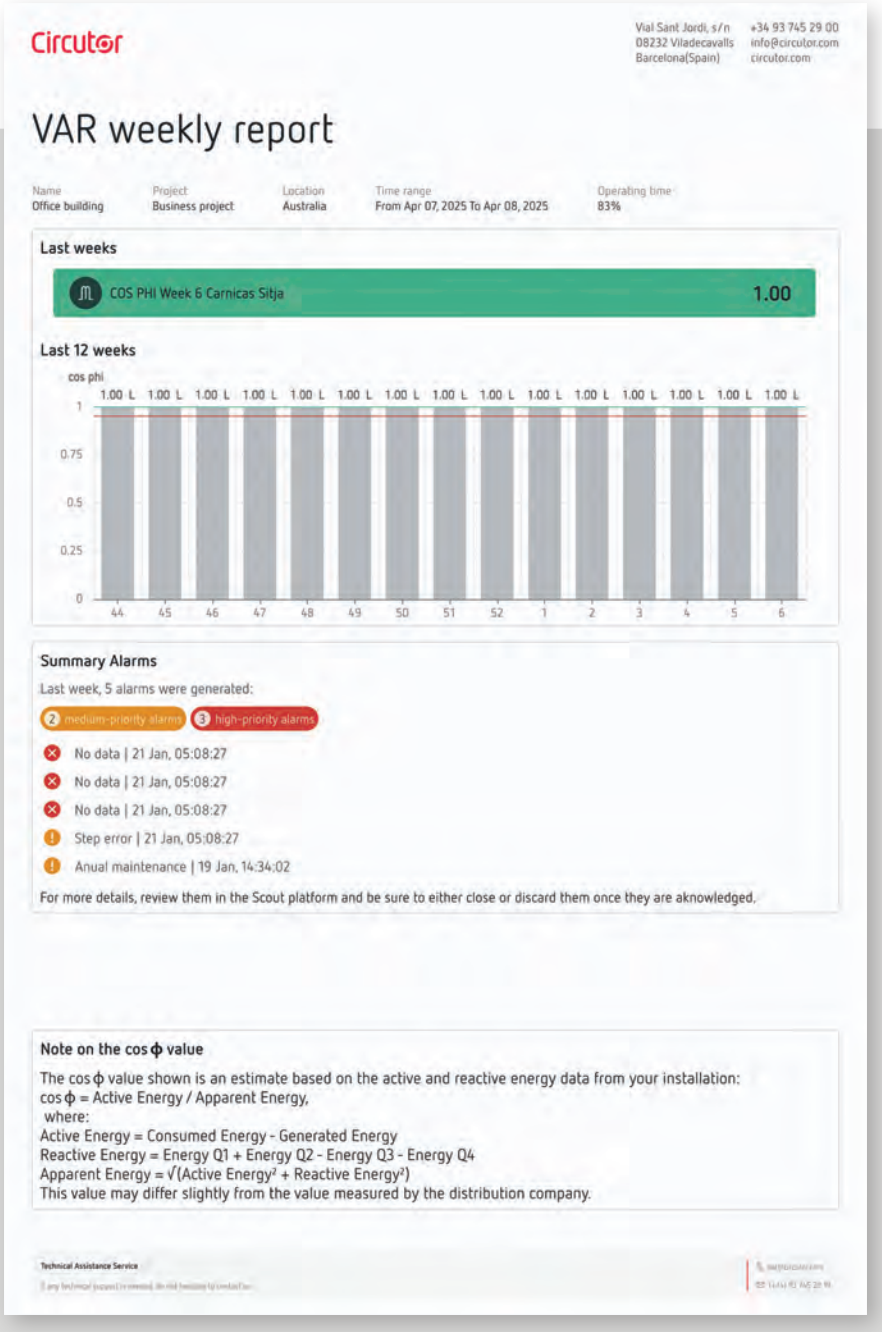
› **Trend warning:** We will notify you when your installation’s cos phi follows a downward trend. We detected a constant decrease in cos phi, indicating a drop in the bank’s ability to compensate.



Always informed

Receive weekly email reports with the following indicators:

- Value of cos phi: OK or KO
- Average value of cos phi in the last week
- Graph of the trend in cos phi in the last 12 weeks
- Alerts and active notifications.



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VAR weekly report

Name	Project	Location	Time range	Operating time
Office building	Business project	Australia	From Apr 07, 2025 To Apr 08, 2025	83%

Last weeks

COS PHI Week 6 Carnicas Sitja 1.00

Last 12 weeks

Summary Alarms

Last week, 5 alarms were generated:

2 medium-priority alarms 3 high-priority alarms

- No data | 21 Jan, 05:08:27
- No data | 21 Jan, 05:08:27
- No data | 21 Jan, 05:08:27
- Step error | 21 Jan, 05:08:27
- Anual maintenance | 19 Jan, 14:34:02

For more details, review them in the Scout platform and be sure to either close or discard them once they are aknowledged.

Note on the cos ϕ value

The cos ϕ value shown is an estimate based on the active and reactive energy data from your installation:
cos ϕ = Active Energy / Apparent Energy,
where:
Active Energy = Consumed Energy - Generated Energy
Reactive Energy = Energy Q1 + Energy Q2 - Energy Q3 - Energy Q4
Apparent Energy = √(Active Energy² + Reactive Energy²)
This value may differ slightly from the value measured by the distribution company.

Technical Assistance Service

Circutor

Ensure the service continuity of your bank

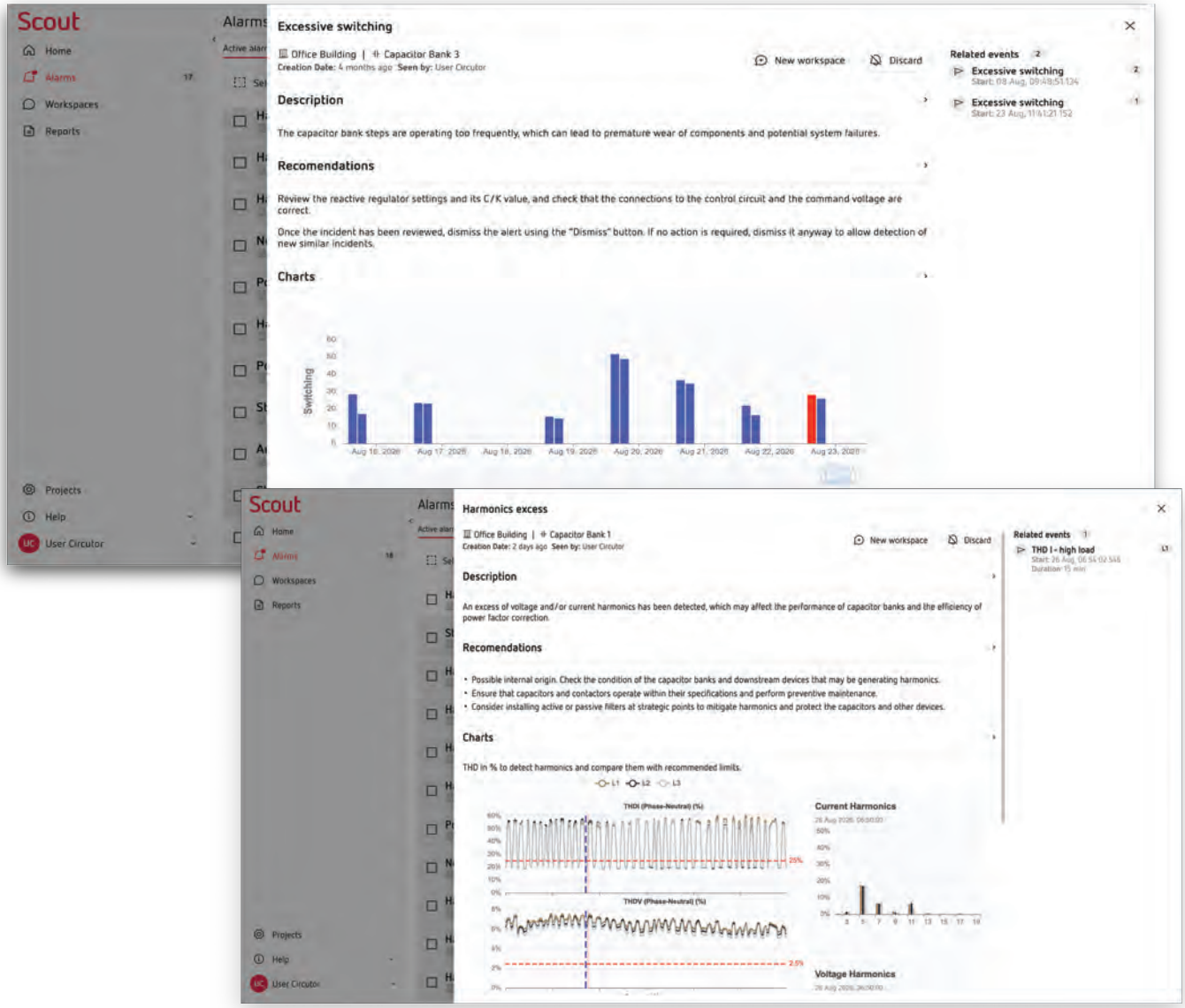
The Scout - VAR system lets you receive maintenance alerts and notifications to ensure the correct operation of your capacitor bank.

Receive emails when:

› A step is not compensating properly.

› A step is switching excessively.

› The recommended annual maintenance is due on the capacitor bank.



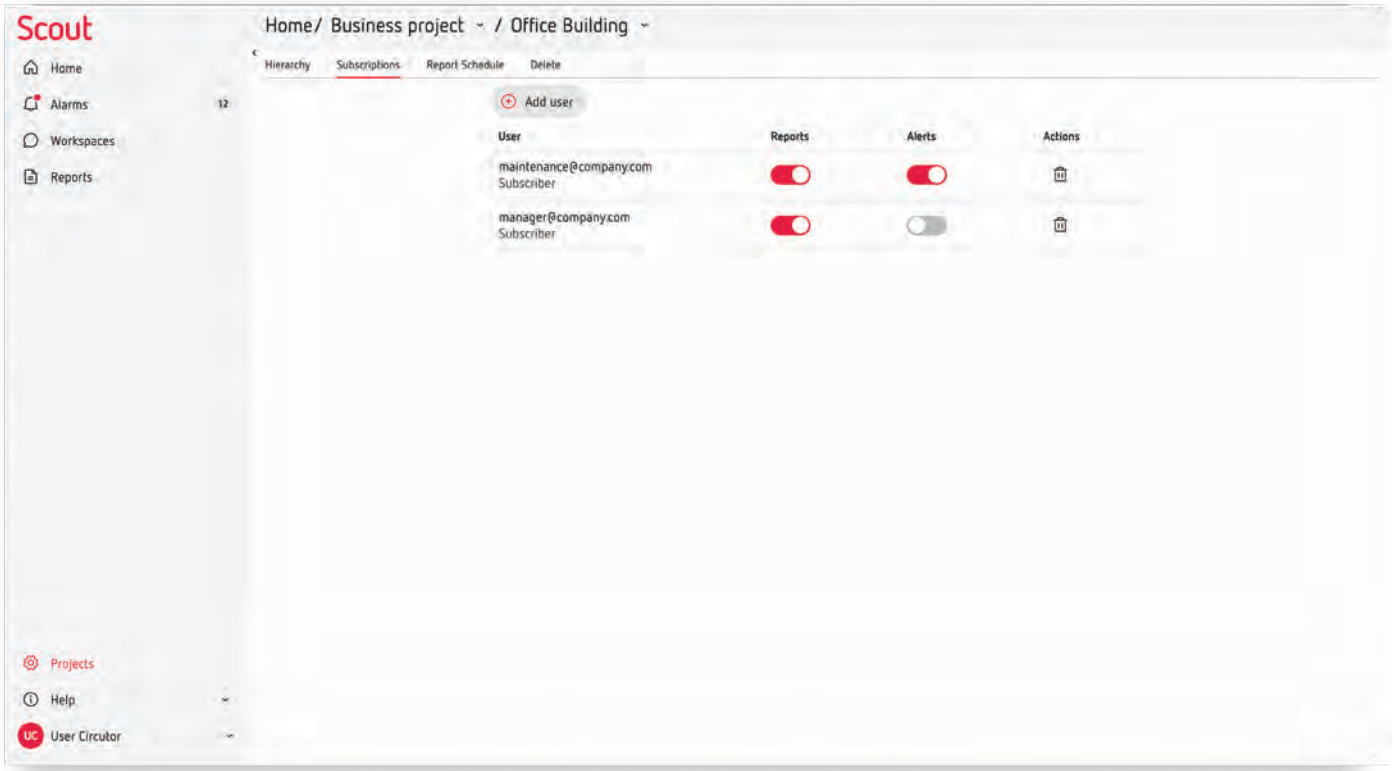


Manage all your banks from the same screen

If you have more than one bank with the VAR system, you can identify and locate at a glance the latest cos phi value and any active alerts for all your capacitor banks.

The Scout - VAR system lets you:

› See the status of all the banks at a glance.
› Decide which users will receive automatic alerts.
› View detailed information on your banks.
› Remotely monitor your capacitor banks.



Select the regulator to connect to the Scout - VAR

Computer C Wi-Fi



For 230 VAC or 400 VAC networks



› **Readings of basic electrical parameters**

Readings in 4 quadrants and up to 27 electrical variables.

› **Up to 4 alarms**

Maximum safety by adjusting alarms, including an anti-resonance alarm.

› **Plug&Play**

To get the device up and running quickly

› **Wi-Fi**

Computer Smart III + SmartLink VAR



For networks up to 520 VAC



› **Three-phase measurement**

Equivalent to the utility meter.

› **Power analyzer**

Measures over 150 electrical variables.

› **Preventive maintenance (alarms)**

Maximum safety by adjusting alarms.

› **Plug&Play**

To get the device up and running quickly.

› **RS-485 / Ethernet / Wi-Fi**



Partnering with

Circutor

Leading electrical energy efficiency company, creating innovative technological solutions for our clients, in the field of global energy transition since our foundation in 1973.

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