

PRODUCTS CATALOG

# SolarCleano



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# General overview - Commercial & Industrial



	<b>F1</b>	<b>M1</b>	<b>L1</b>	<b>T1</b>
<b>Controls</b>	Remote	Remote	Remote	Remote
<b>Cleaning Capacity</b>	1120 m <sup>2</sup> /h	600m <sup>2</sup> /h	2000 m <sup>2</sup> /h	N/A
<b>Length</b>	1450 mm	1139 mm	1800 mm	1620 mm
<b>Width</b>	1315 mm	893 mm	2483 mm	1332 mm
<b>Height</b>	333 mm	337 mm	386 mm	790 mm to 2410 mm
<b>Weight</b>	80 kg	37 kg	120 kg	400 kg
<b>Brush types</b>	4 types	4 types	4 types	N/A
<b>Wet-Dry Cleaning</b>	Wet/Dry	Wet/Dry	Wet/Dry	N/A
<b>Maximum Speed</b>	40 m/min	30 m/min	40 m/min	133 m/min
<b>Remote control range</b>	200 m	200 m	200 m	100 m
<b>Battery life</b>	1h45	3h	4h	4h

# General overview - Utility Scale



**B1**

**B1A**

**E1**

	B1	B1A	E1
Controls	Remote	Autonomous	Remote
Cleaning Capacity	7-20 MW/day	7-20 MW/day	4-5 MW/day
Length	4920 mm or 7020 mm	4920 mm or 7020 mm	5891 mm
Width	2200 mm	2200 mm	1454 mm
Height	3510 mm or 3810 mm	3510 mm or 3810 mm	2287 mm
Weight	1150 kg or 1250 kg	1150 kg or 1250 kg	735 kg
Brush types	Adapted to the soiling	Adapted to the soiling	Adapted to the soiling
Wet-Dry Cleaning	Wet/Dry	Wet/Dry	Wet/Dry
Maximum Speed	40 m/min	40 m/min	50 m/min
Remote control range	100 m	N/A	Controlled from the cabin
Battery life	7-10h	7-10h	7h

# General overview



Fastest robots on the market, from 500 to 4000 m<sup>2</sup>/h



Operate under any condition



One-year warranty with dedicated after-sales services



No microcracks: Fraunhofer certification



A range of robots to suit every budget and all types of solar panel installations

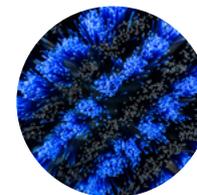


Also suitable for window and glass roof cleaning



No work at height: remote control from ground level

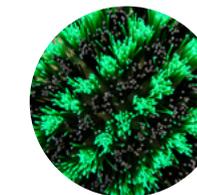
4 types of brushes for different soiling conditions



Soft



Standard



Hard



Very hard

# SolarCleano F1

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LED lights system for cleaning in nighttime conditions



Camera for remote operation

**Better safety**  
No work at height required.  
Easy handling  
**Remote control**  
Autonomy of 24h  
Water resistance IP65

Built-in filter for best water quality  
Connects to standard garden hoses of 13-15mm diameter & 2.5-8 bar water pressure



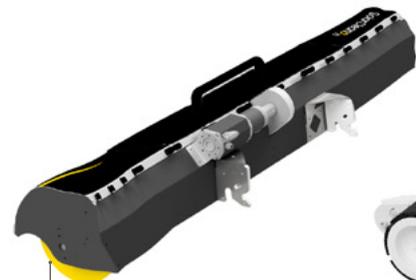
Central electric switching box  
Power supply by battery with an autonomy of 2h



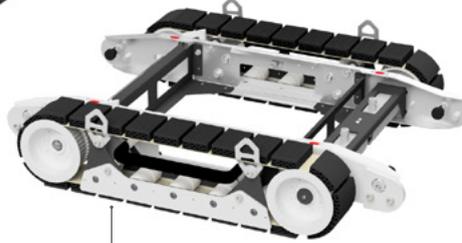
Water free system  
Valves to adjust the water consumption  
Average: 0.3l/m<sup>2</sup>



Helicoidal brushes from 1,1m to 1,2m with 4 bristle types

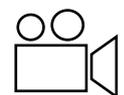
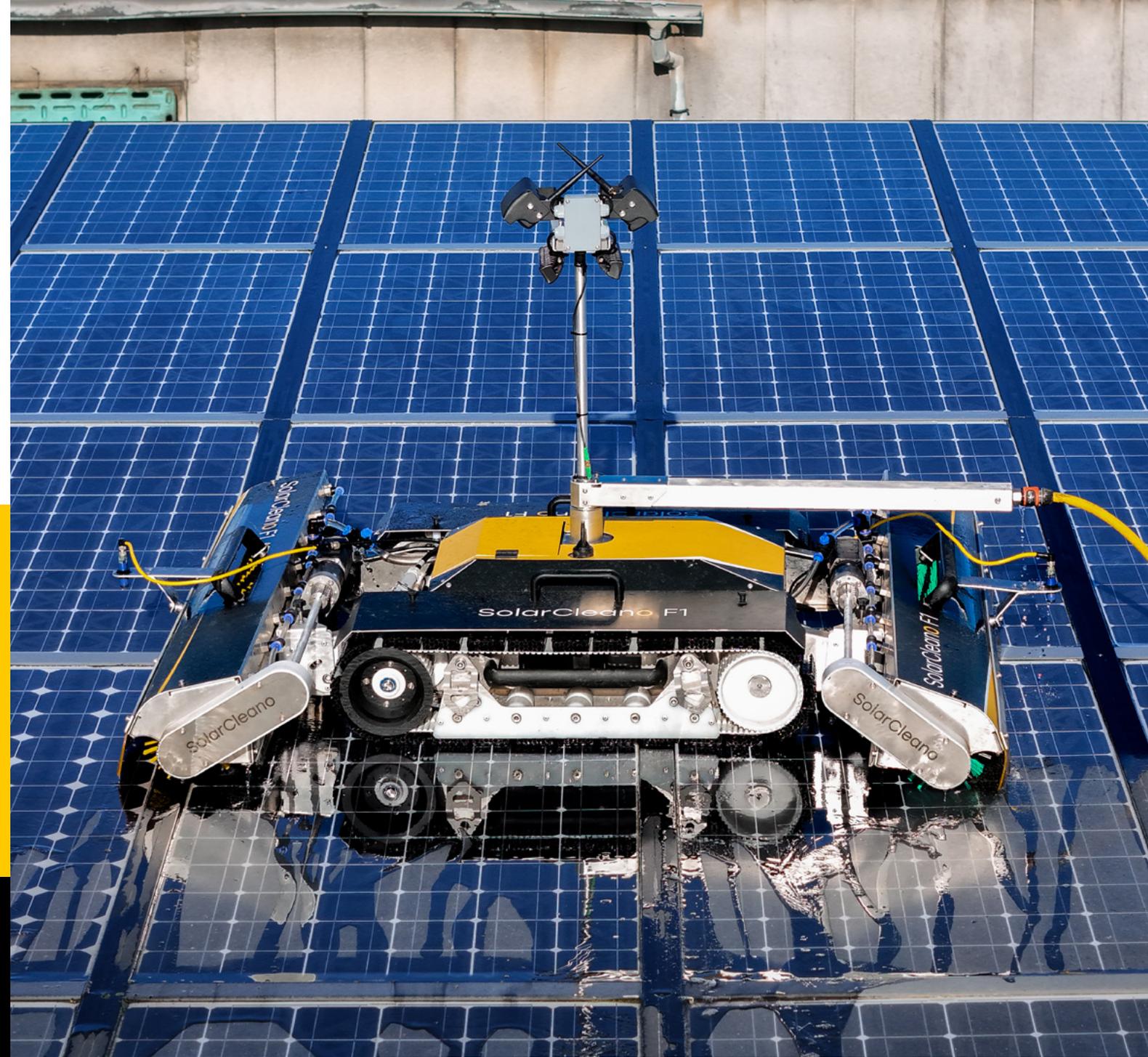
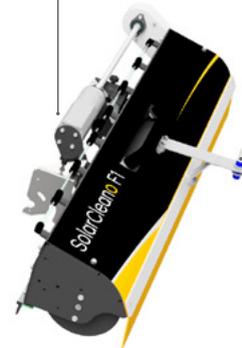


High end caterpillar tracks



For wet and dry cleaning  
For all kind of installation  
Up to 25° slope

Ultra-sound sensors for edge protection



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# SolarCleano M1



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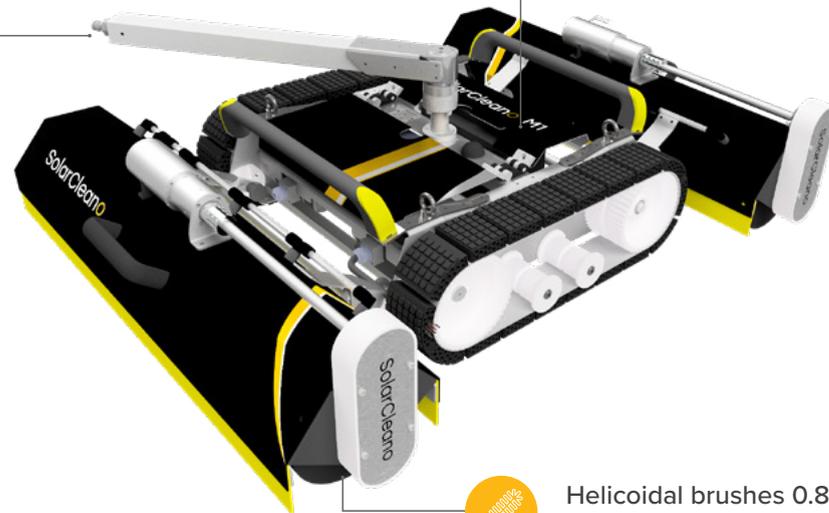
**Easy handling**  
Remote control  
Range of 200m  
Autonomy of 24h  
Water resistance IP65



**Lightweight structure**  
Dedicated to small installations



**Approved for dry cleaning**



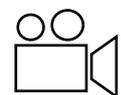
**Central electric switching box**  
Power supply by battery with an autonomy of 3h



Connects to standard garden hoses of 13-15mm diameter & 2.5-8 bar water pressure. Valves to adjust water consumption (0.25 to 0.8L/m<sup>2</sup>)



**Helicoidal brushes 0.8m with 4 bristle types.**  
Dry & wet cleaning, up to 18° slope.



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# SolarCleano L1



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 2.45m wide brushes

 4 types of bristles

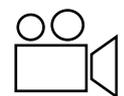
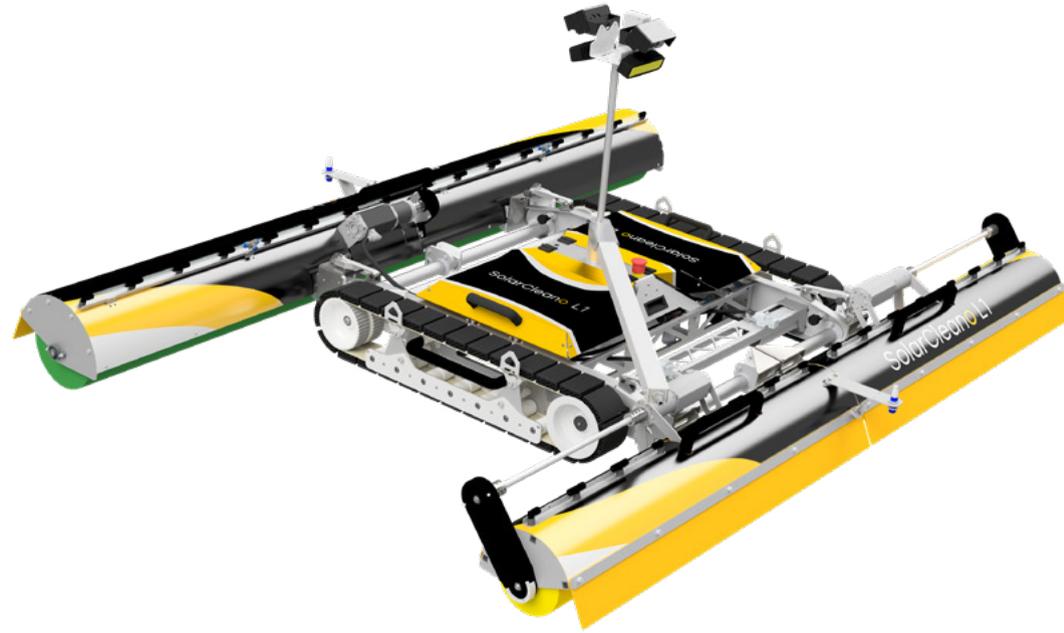
 Ideal for 1P trackers installations

 Max inclination 26°

 2 batteries for 4h autonomy

 Cleans up to 2000m<sup>2</sup>/h

 Compatible with camera and LED lights



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# SolarCleano T1



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1 single operator



Ideal for ground-mounted installation



Max inclination 34°



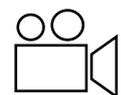
Platform height  
1.53 - 1.88m



Speed up  
to 54 m/min



Compatible with  
SolarCleano F1, M1 & L1



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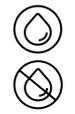
# SolarCleano B1



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Remote-controlled



For both water and waterless cleaning



Solution to ground-based utility-scale solar plants



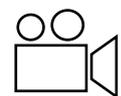
Cleaning capacity up to 8MW per day



Different options of brush up to 6m



Self-adaptation to height and inclination



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# SolarCleano B1A



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 Fully autonomous dry-cleaning robot

 Solution to ground-based utility-scale solar plants

 Cleaning capacity up to 15MW per day

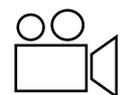
 Different options of brush up to 6m

 Self-adaptation to height and inclination

 Programmed sessions for cleaning anytime



We offer fully bespoke autonomous solar bridge cleaning solutions to your **large-scale power plants**



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# SolarCleano E1



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 Both wet and dry cleaning

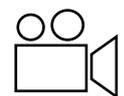
 Perfect for 1P trackers utility scale installations

 Designed for a one person operation

 Autonomous brush adaptation

 Cost-effective solution

 Comfortable use in any weather



[Click here to watch our YouTube Playlist](#)

# Accessories

		COMPATIBLE WITH			
		F1	M1	T1	L1
	<b>Safety glider</b> For safer cleaning on installations of more than 25°.	●	●		●
	<b>LED light</b> Solution to cleaning at night. The light is paired with a camera and screen set.	●			●
	<b>Osmosis system</b> Purifying the cleaning water with no residue on solar panels.	●	●		●
	<b>1.2m (F1) or 2m45 (L1) brushes</b> For wet and dry cleaning on different soiling types.	●			●
	<b>1.1m brushes</b> Especially designed for the cleaning of east-west and floating installations, and line on rooftops.	●			
	<b>0.8m brushes</b> For wet and dry cleaning on different soiling types.		●		

		COMPATIBLE WITH			
		F1	M1	T1	L1
	<b>Floating wheels</b> Making your cleaning more fluid on floating panels and smart solar trackers installations.	●	●		
	<b>Galileo</b> Track all your robots' performances, collect data and plan your maintenance.	●	●		●
	<b>Additional charger</b> Keeping your batteries fully-charged all the time.	●	●		●
	<b>Additional charger of 15A (T1)</b> Keeping your batteries fully-charged all the time.				●
	<b>Toolkit</b> Having all the necessary maintenance tools of the robot by yourself.	●	●	●	●
	<b>Fall arrest equipment</b> High-quality harnesses and lanyards.	●	●		●

		COMPATIBLE WITH			
		F1	M1	T1	L1
	<b>Spare part kit:</b> Simple and fast robot maintenance by saving the waiting time and replacing parts of the cleaning robot whenever necessary.	●	●		●
	<b>Remote control battery</b> Allowing your robot to clean for a longer time.	●	●	●	●
	<b>Remote control battery charger</b> If you have several batteries, make sure you have enough chargers!	●	●	●	
	<b>Camera and screen</b> Increasing operation safety and allowing you to pilot from the ground, or if vision is obstructed.	●			●
	<b>Sprayer</b> Easily spreads dedicated cleaning product on particularly soiled panels (Lichen, Cement, Bird Droppings,...)	●			
	<b>Anti-fall sensor</b> Detects the end of the panels' line to efficiently prevent any fall or other accidents.	●			●

# Demos, training, and support



## Demos

- We regularly organise free demonstrations and we are ready to present you our solar robot live on your installation.
- Contact us anytime for a demo request.

[sales@solarcleano.com](mailto:sales@solarcleano.com)



## Trainings

- Our experienced staff have done many robotic panel cleaning trainings to local cleaning companies. Our experience shows that the better you train your employees, the better they will use and maintain your robot.
- Get in touch for a training inquiry.

[sales@solarcleano.com](mailto:sales@solarcleano.com)



## Support and maintenance

- With a qualified and multilingual after-sales service team at your disposal, we look forward to answering your questions and studying your technical specifications.
- 7 a.m. - 6 p.m. (GMT+1) 5 days a week.

[service@solarcleano.com](mailto:service@solarcleano.com)



# What we represent



## Innovation

- State-of-the-art engineering
- Customised solutions for your need



## Customer service

- A dedicated and multi-lingual team at your services
- 10 spoken languages
- Monday to Friday: 7AM - 8PM (GMT+2)
- Saturdays and Bank Holidays: 9AM - 5PM (GMT+2)



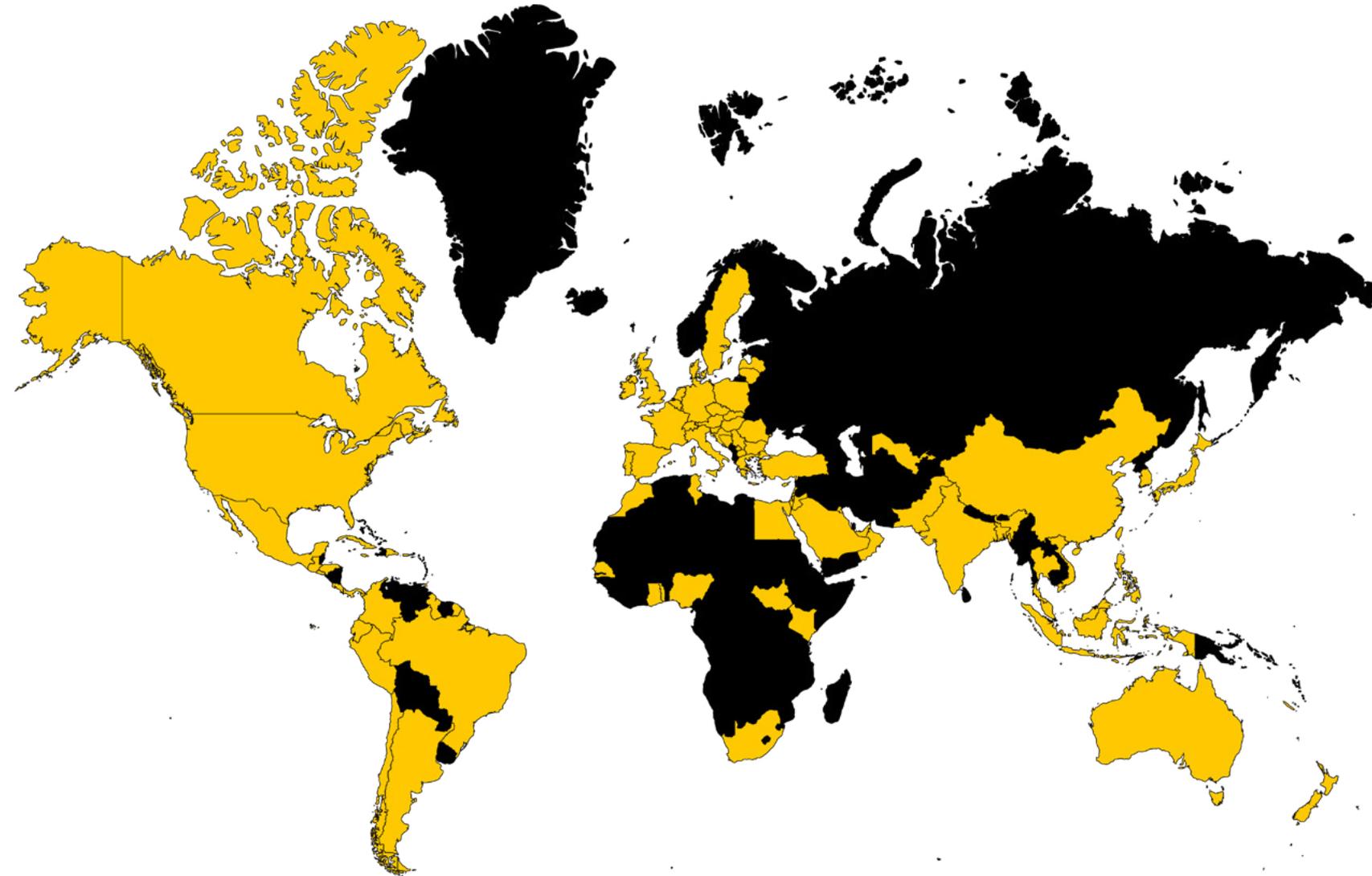
## Quality

- ISO 9001 certified
- Made in Europe, conform with the latest European standard and regulations (CE)
- N°1 semi-autonomous cleaning robots on the market



## Global Presence

- Already in more than 100 countries in 5 continents



## The Evolution of SolarCleano

 Robot-fluent R&D team, technology at the core

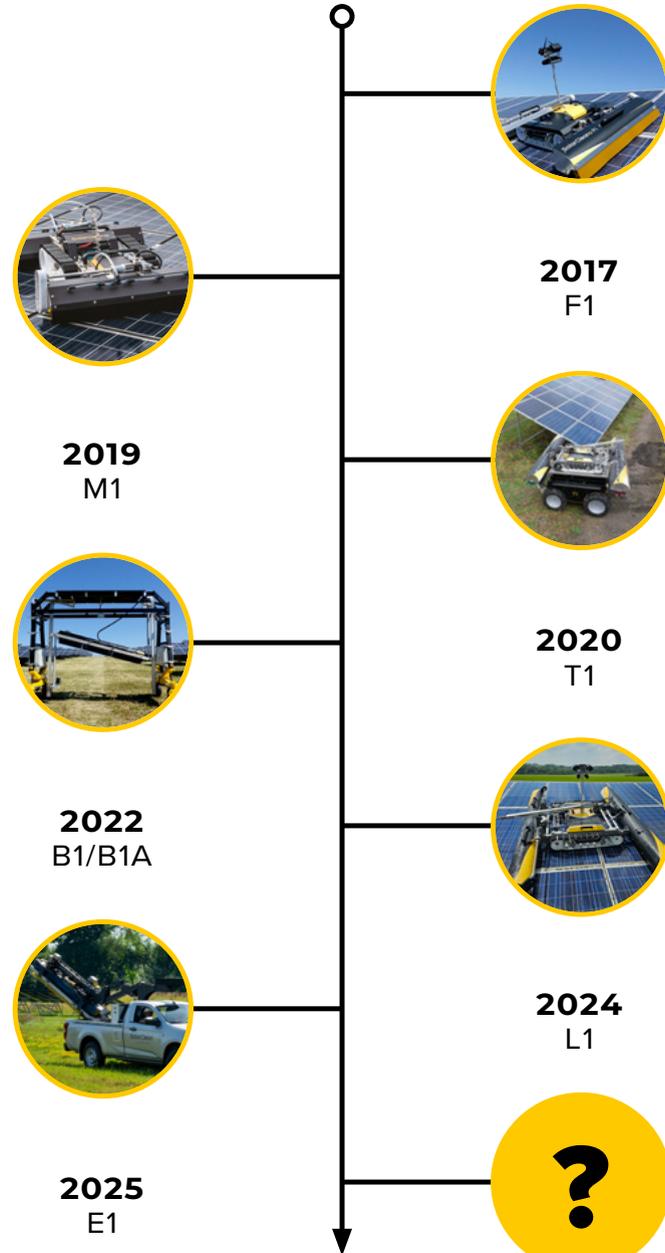
 Regular product updates to guarantee top efficiency

 New product release regularly

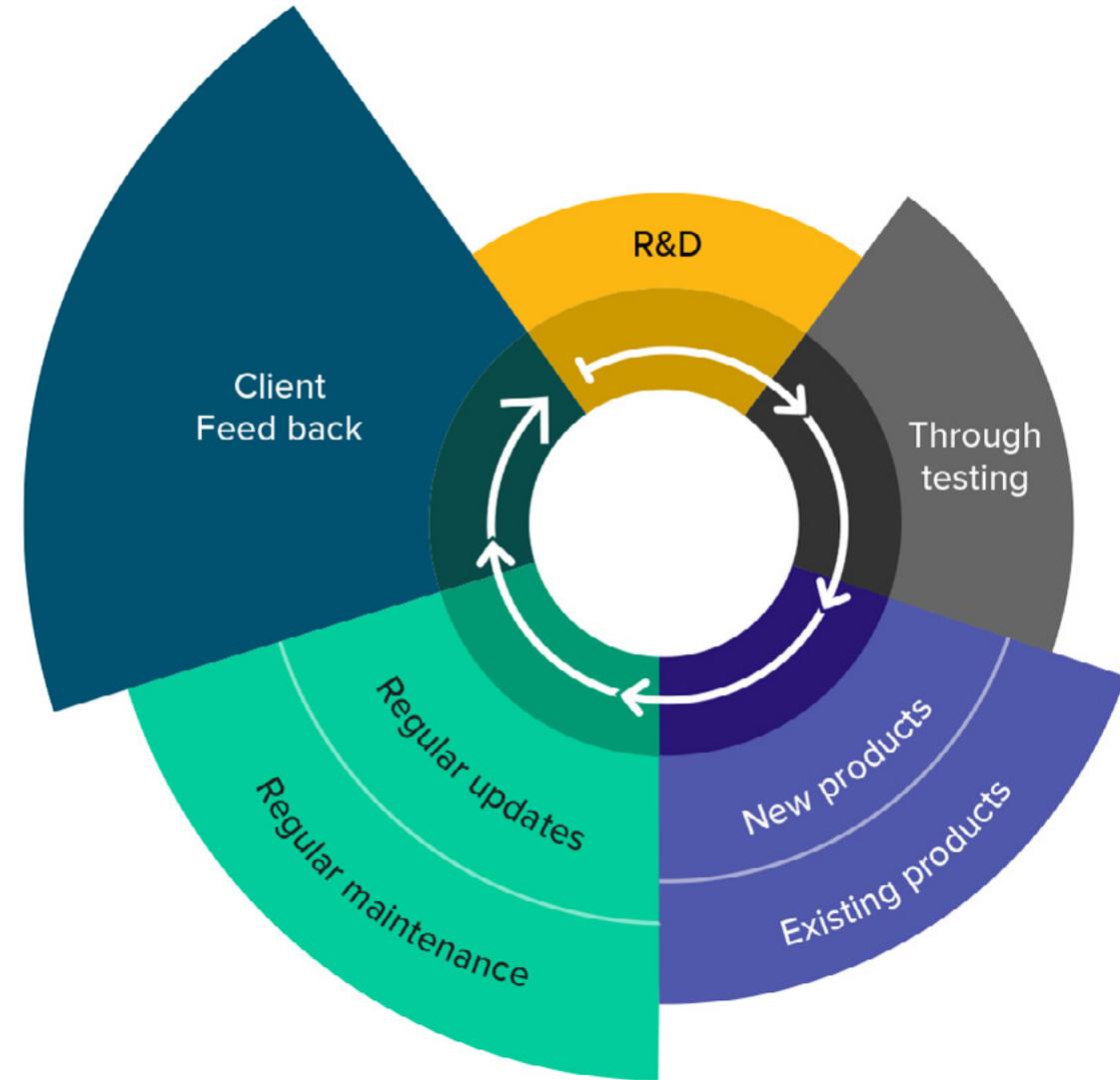
 Partnerships with customers for feedback and improvements

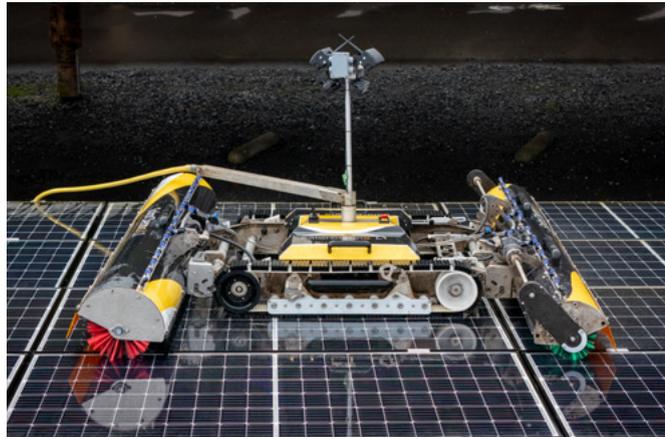
 Thorough testing on all products

 Regular maintenance and updates offer



## Innovation is part of our DNA

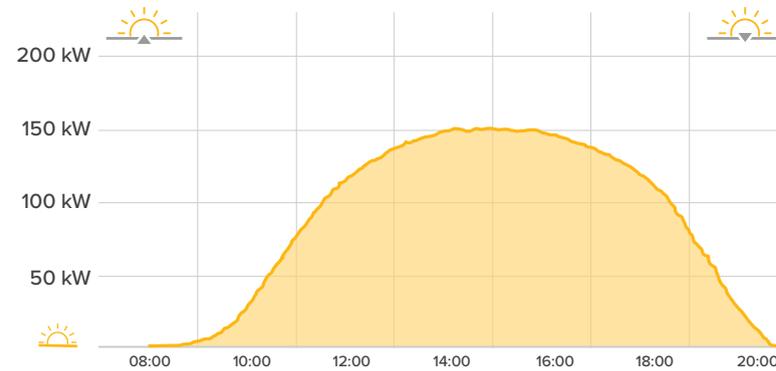




Regular cleaning maintains your photovoltaic installation and can help it regain performance, and participates to maintain your installation in a good state. The sunlight reflection diminishes with dirt and reduces the absorption of solar energy on photovoltaic cells. As a result, *cleaning regularly your solar panels is considered a good investment.*

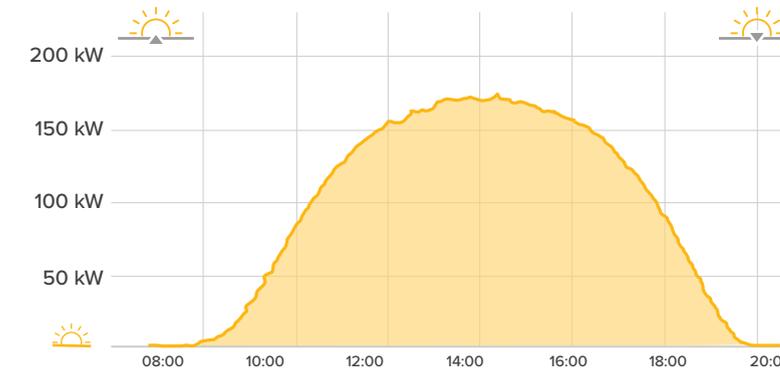
# Why cleaning?

## Before cleaning

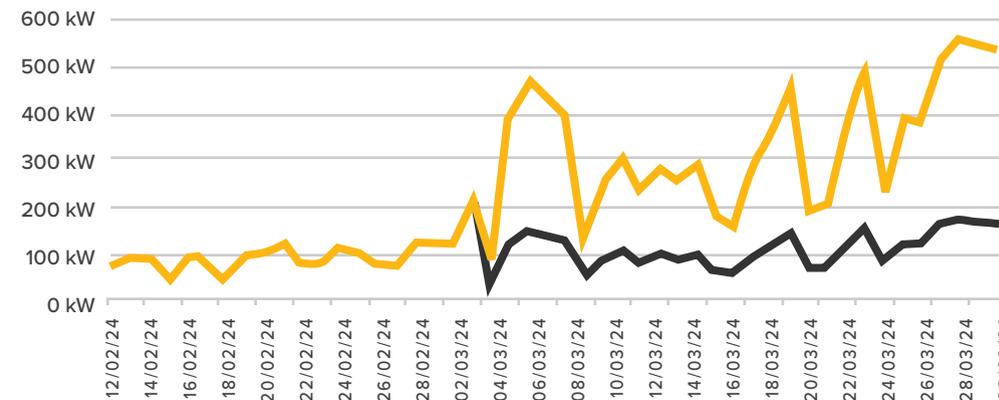


current		day	
injected current power Pac	31.96 kW	production	1.14 MWh
generator potency Pdc	35.82 kW	inject compensation	658.14 €
efficiency rate and n	89 %	specific yield	4.56 kWh/kWp
status	24x MPP	estimation	189.59 %
		<b>Total CO2 emission avoidance</b>	<b>1644.88 t</b>

## After cleaning



current		day	
injected current power Pac	31.96 kW	production	1.3 MWh
generator potency Pdc	35.82 kW	inject compensation	752.83 €
efficiency rate and n	89 %	specific yield	5.22 kWh/kWp
status	24x MPP	estimation	167.9 %
		<b>Total CO2 emission avoidance</b>	<b>1644.88 t</b>



PV production

## Before /After cleaning

— production without cleaning  
— production with cleaning



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