

# NOVA CLEANING TECH

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## Solar Solution

Panel Cleaning | Street Light | Storage System



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10.7% Revenue



A Fantastic Investment  
For Your Panel And Company

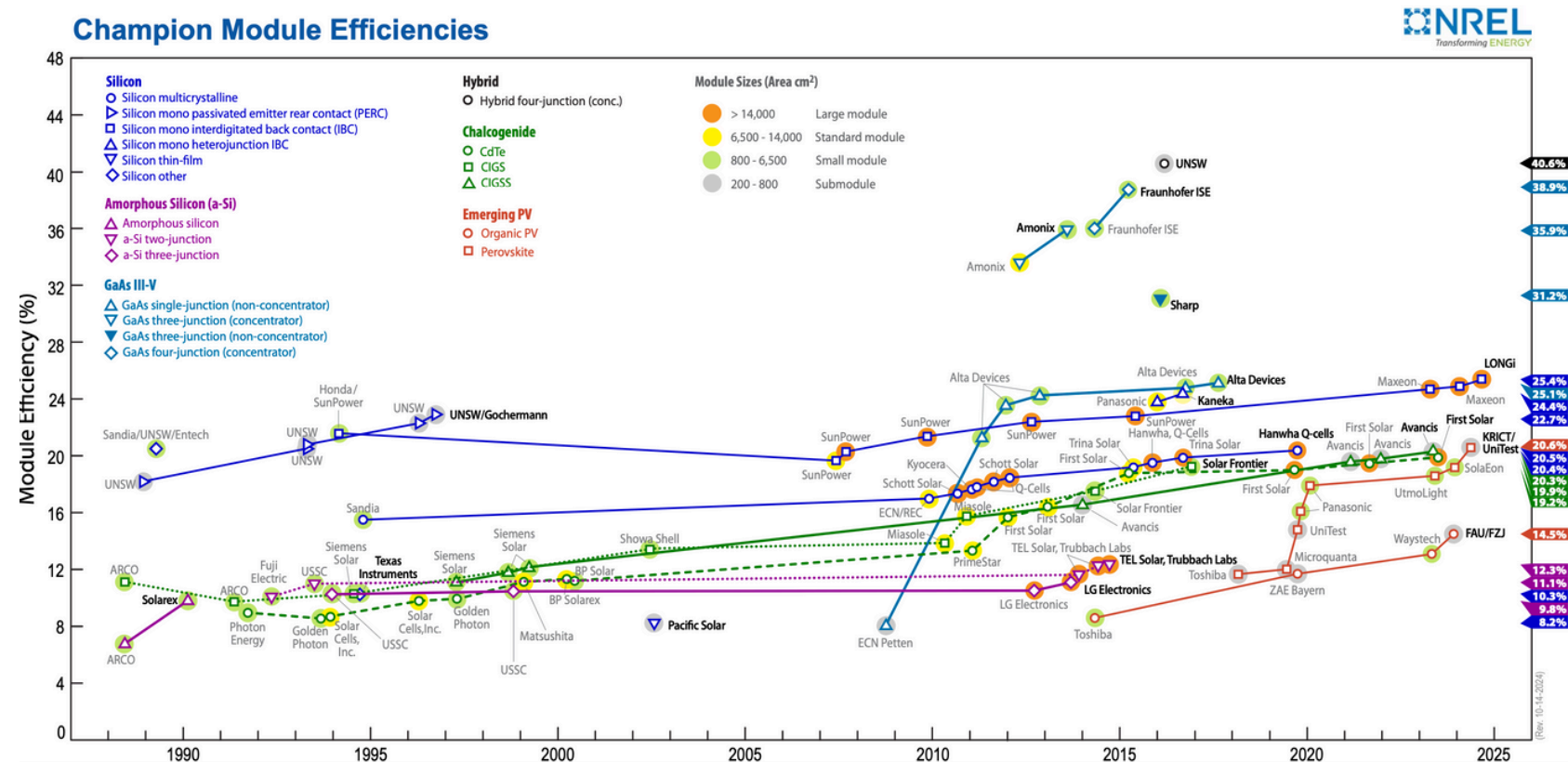
Higher prices correspond to

- ✓ better PV solar panels
- ✗ not higher power generation efficiency

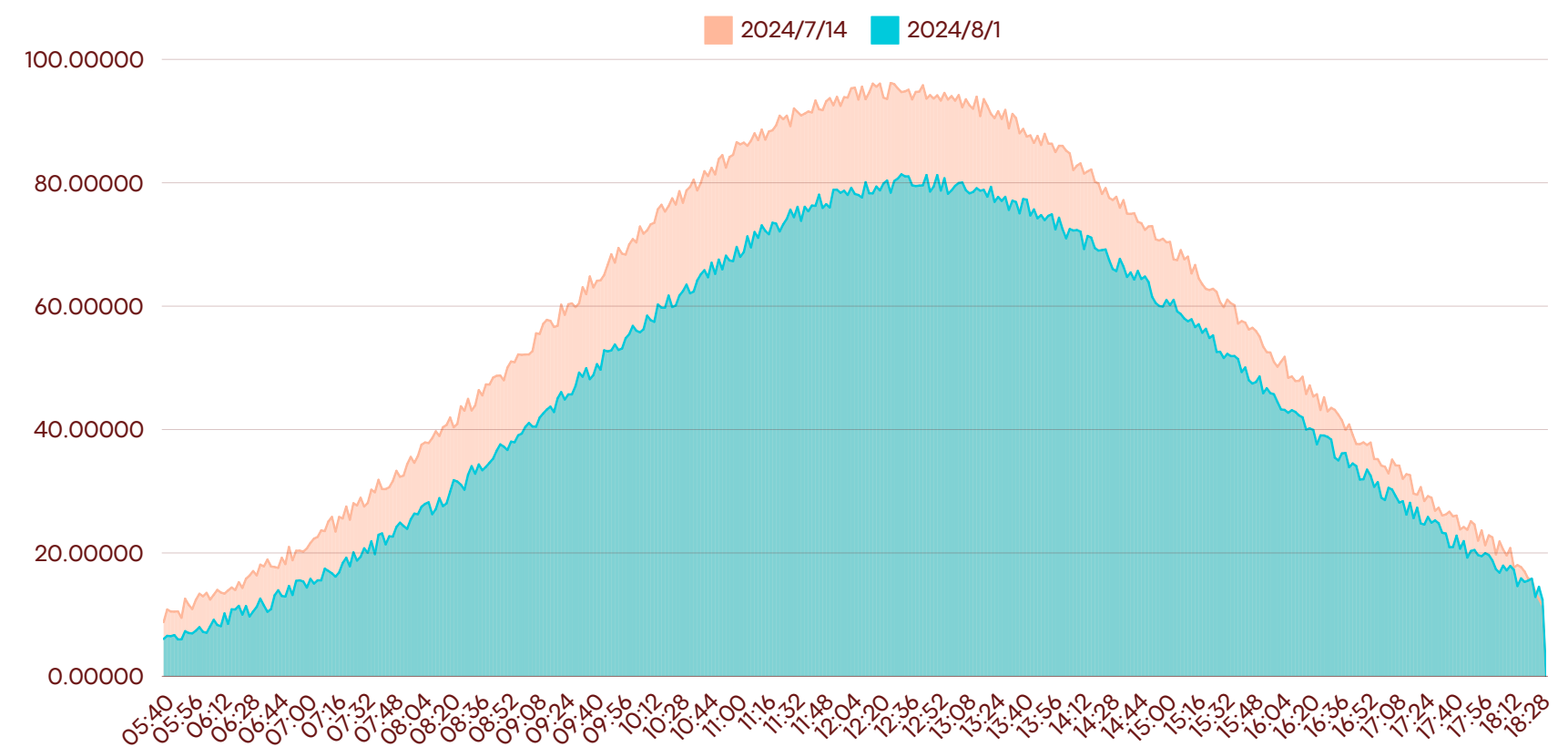
After Cleaning data shows

- ↑ 10.7% power and revenue
- ↓ 68% labor cost

[The average delivery rate of 27 overseas projects]



[from National Renewable Energy Laboratory (NREL)]

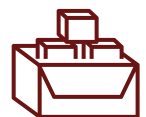


[collected from Guangxi Datang \*\*\* large power station project (113MW)]



## Experience

- delivery **46** projects, **11** countries
- Originally targeting **state-owned** CO.



## Quality

- **35** standard process
- **17** pre-delivery tests
- **2** supply company investment



## Product & Solution

- **Multi-form** products adapt scenarios
- **One-Stop** solution for software&hardware
- customization



## Service

- 8am - 6 pm (GMT+8), 5 days per week
- **1 years** after-sales warranty and quickly components replacement



Honors & Awards



Central Clients

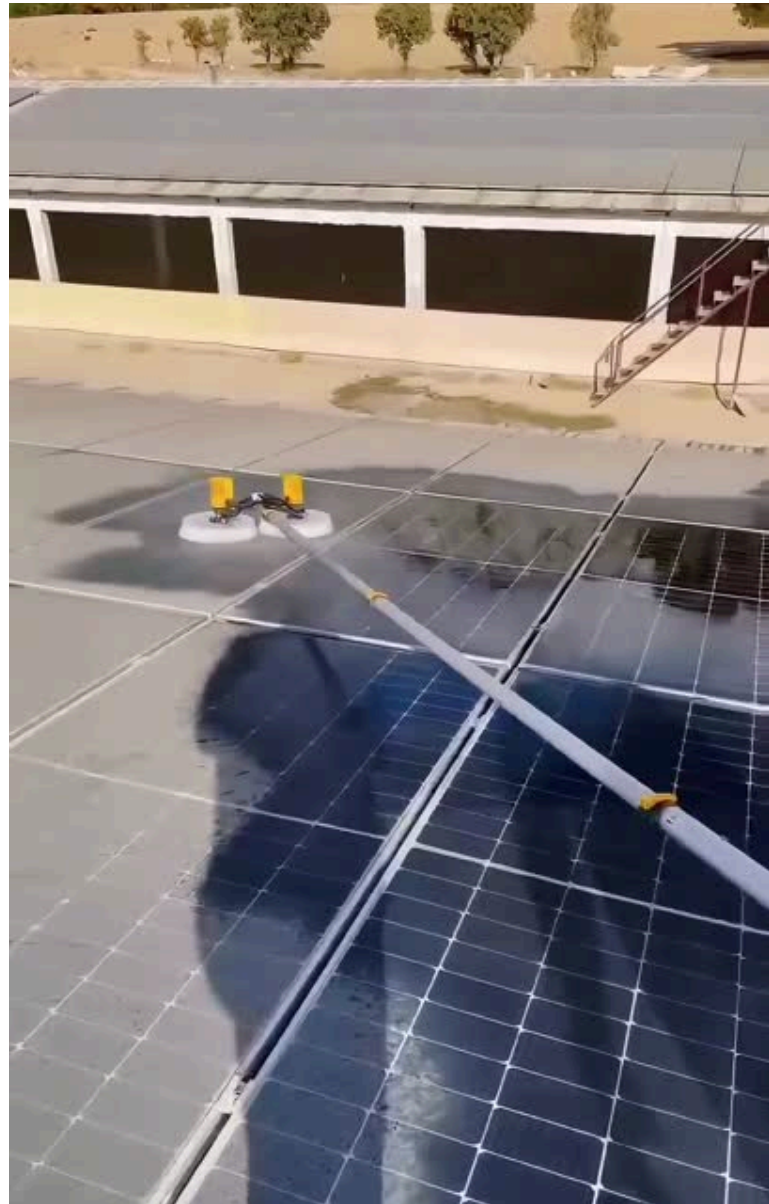


Scientific assembly line



Certificates & Patents





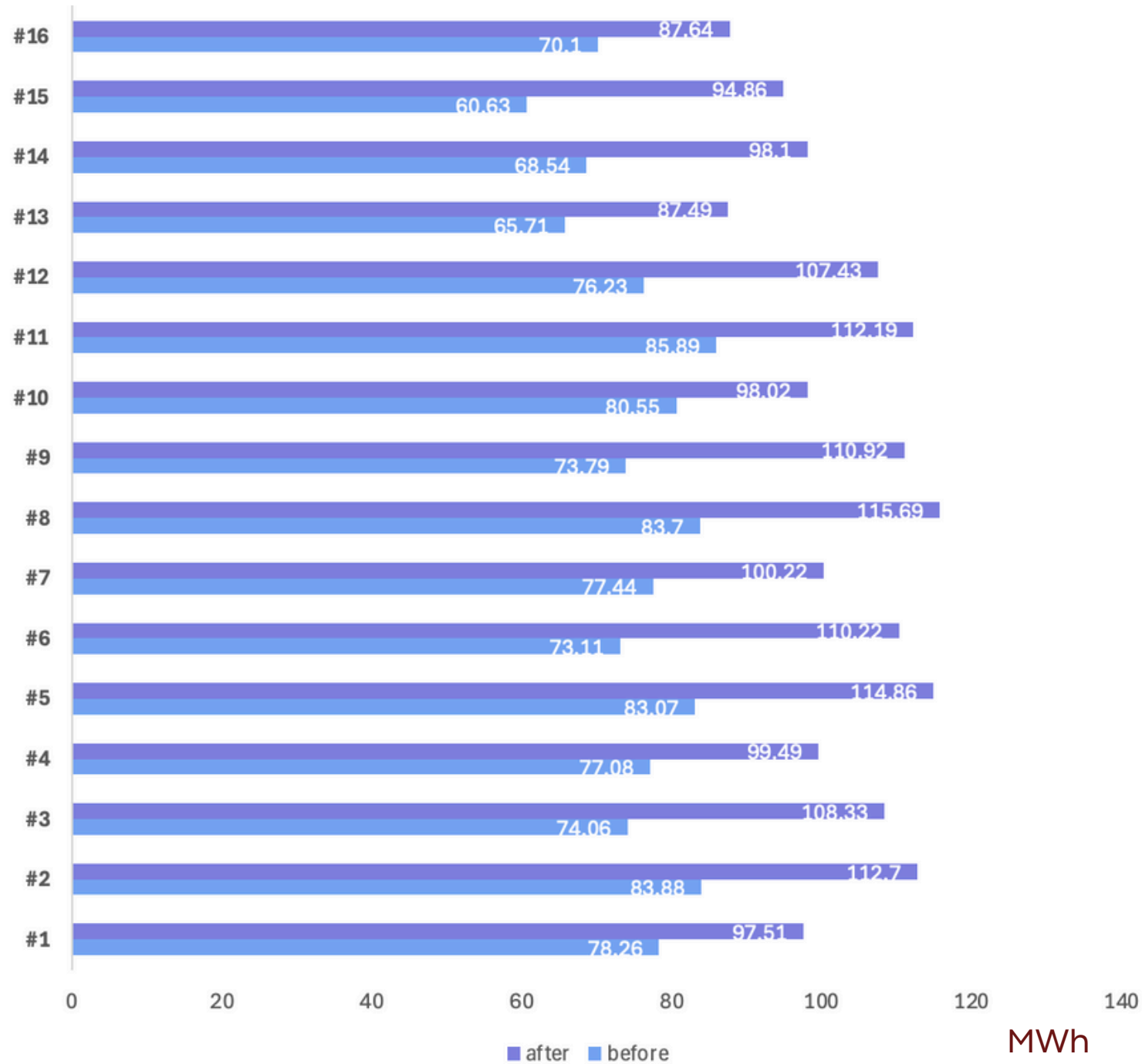
NF-X4



NF-X7



NF-X8



**+37%**

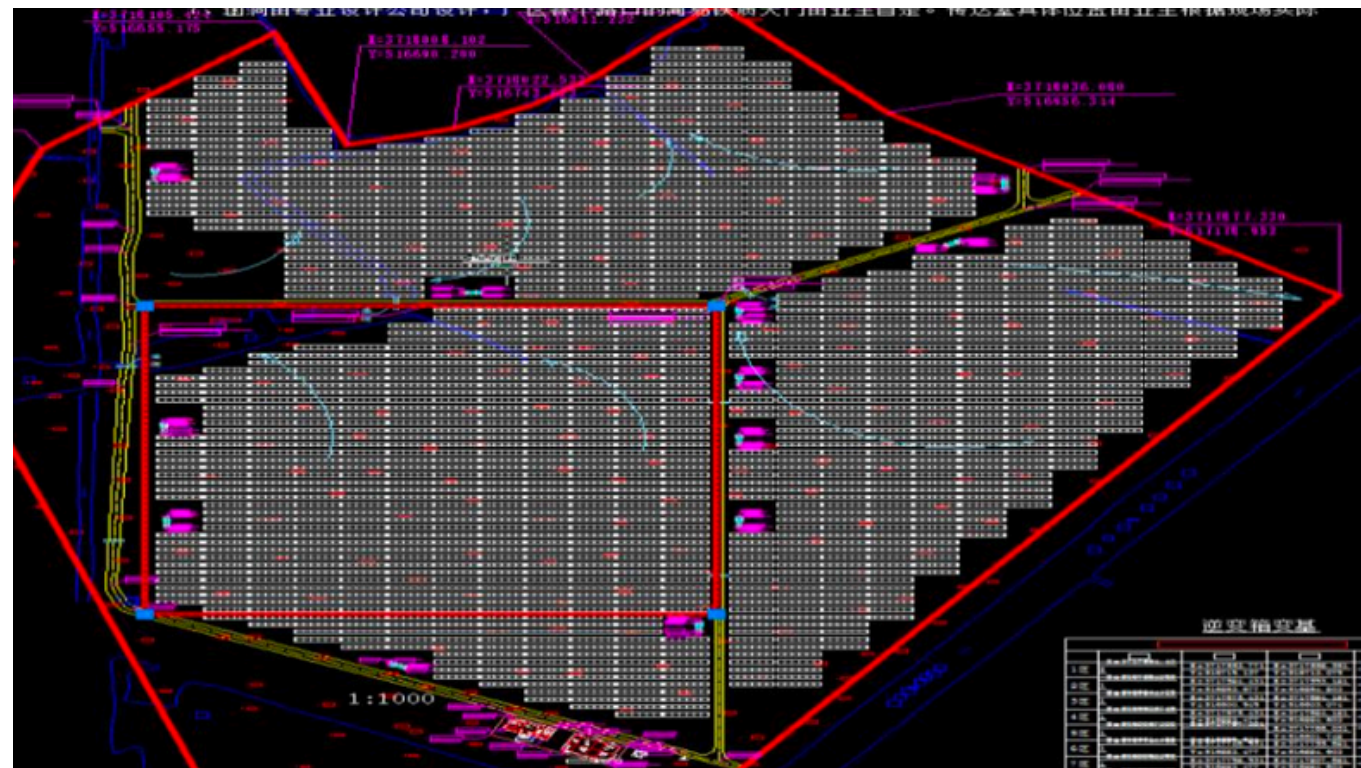
(collected from 2024.3.20~2024.4.15)

After using robot cleaning, the power generation increased by 37% under the same light radiation

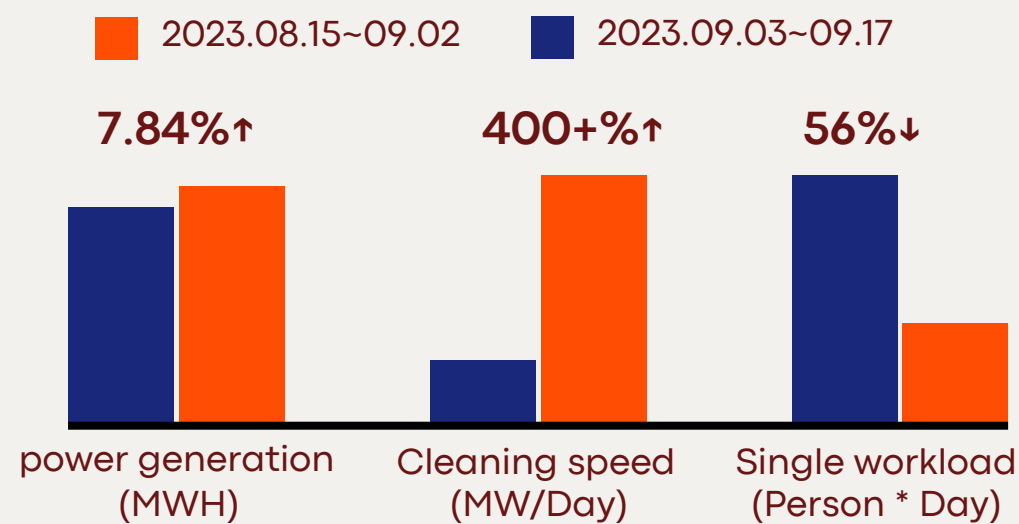
**16** roofs    **51** robots

**73%** ↓ person-day





### ShaoGuan Fishery-Photovoltaic \*\*\* Power Station (15.7MW)



Huai'an \*\*\* Power Generation Co., Ltd. is affiliated with China Power Solar Power Generation Project Co., Ltd.

The power station is a **15.7MW** ground-mounted pv power station with a bracket tilt angle of **28 degrees**, using **8 stand-alone cleaning robots**.

### Huizhou \*\*\* Rooftop Distribution Power Station (5.7MW)

# +9.1% generation

(collected from 2024.3.20~2024.4.15)

After **15 days** of construction delivery

## 7roofs 15robots



# Single head solar brush

[2024 Upgrade Version] Longer life, higher efficiency, Lowering Cleaning cost

- **Light weight** for family plant use of low cleaning frequency
- 3 energized versions: lithium battery/city power/dual



- **3.5-7.5m telescopic** rod for your unique cleaning need
- Theoretical life: **20000h** of BLDC version
- Plus: 100w DC pump for use





## BLDC Longer life, higher efficiency, Lowing Cleaning cost

[2024 Upgrade Version]

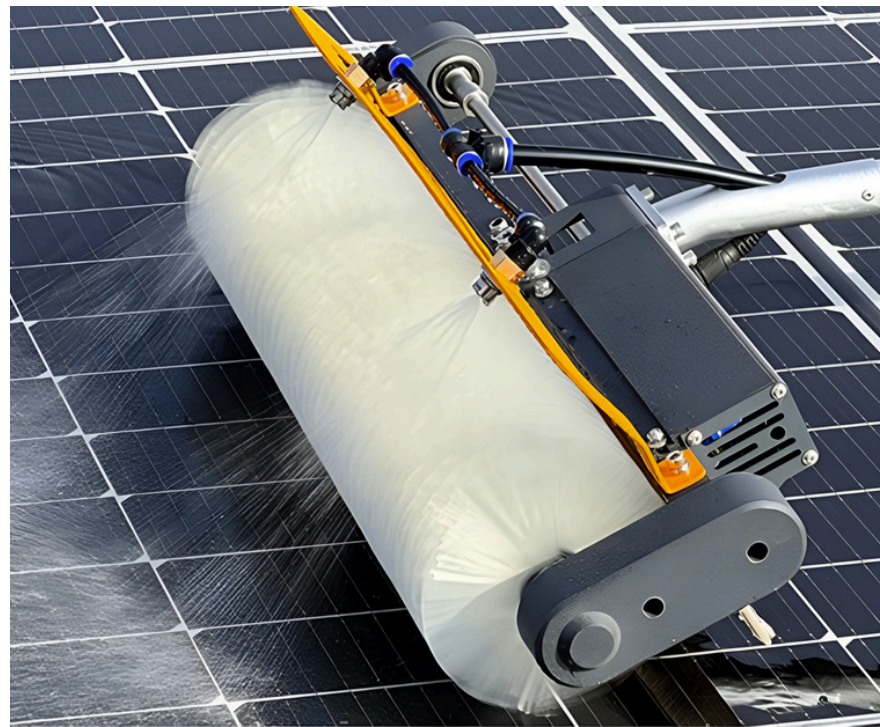


- **IP67**
- **4H** Battery life
- **20000H** Theoretical life
- Lithium battery & city power & Dual-purpose

- **320mm** Brush plate diameter
- **650mm** Cleaning width
- **350r/min** brush speed
- **150w** torque

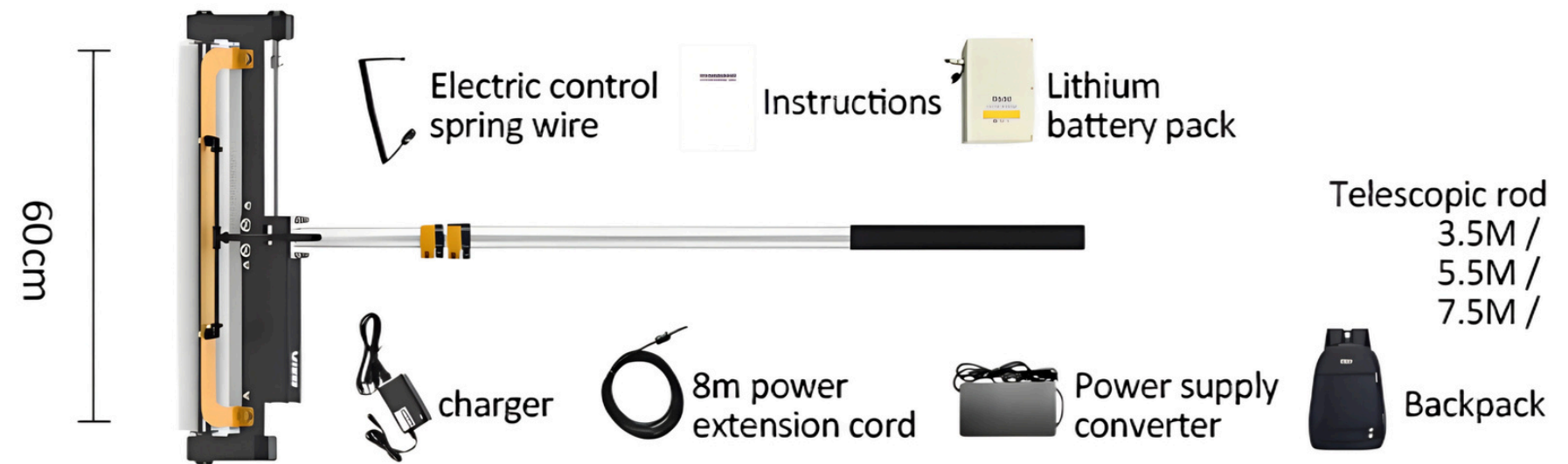
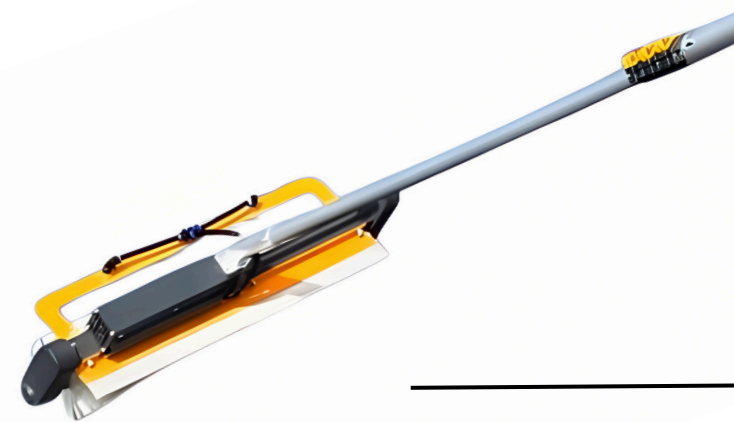
**13.4%**





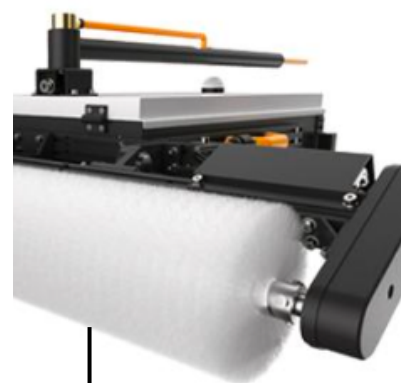
- Rolling brush perfectly for **small C&I station use**
- For both dry and wet solar panel wash

- Powerful cleaning for energy plant
- 3 energized versions: lithium battery/city power/dual
- 2 option for motors

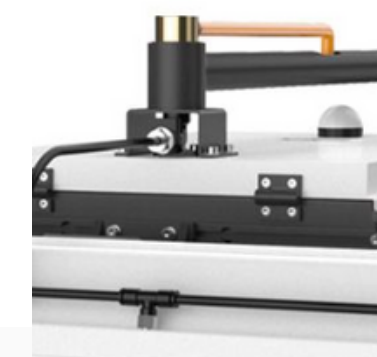


\*This is the dual energized version inbox look

# 03 Product -> NF-X7



- **1.2MW / Day**
- Washing / Dry Cleaning
- brush **500r/min** speed, **1100mm** width



- **150m** remote control
- **4H** Battery life
- **20L/min** water consumption



- **22m/min** travel speed
- **Anti-drop sensor**, can be manually shielded
- Universal direction,  $\leq 15^\circ$



[Host \*1、Remote Control \*1、Lithium Battery \*2]



[Charger \*2、Backpack \*1、Spare Tools and Accessories Kit \*1]



## Competitors

Travel Speed: 8~10 m/min  
8 hours cleaning: 1MWP

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Washing  
Roller speed: 300r/min  
brush length: 1650mm/1960mm/customized

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Endurance: 4~5 hours  
Tilt angle  $\leq 25^\circ$

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Weight: 40kg+  
Motor Power: 400W

## Ours

Travel Speed: **12~15 m/min**  
8 hours cleaning: **1.5MWP**

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Washing / **Dry cleaning**  
Roller speed: **550r/min**  
brush length: 1650mm/1960mm/customized

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Endurance: **6~7 hours**  
Tilt angle  $\leq 45^\circ$

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Weight: 25kg+  
Motor Power: 270W

# Customized Design

Based on power station design data  
1 week design, **self-installable**

# 03 Product -> One-stop cluster solution for software & hardware



**Revenue**  
Power generation & manpower

¥ **+730K \$** YoY ↑

**Electricity generation**  
Before and after cleaning

⚡ **+8.87%** MoM ↑

**Labor Cost**  
Inspection & cleaning cost

¥ **-68.3%** YoY ↑

**195+** Multi-type Robot

**2** System

**113** MWH generation

**25** Area

[Data collected from Guangxi Datang \*\*\* large power station project (113MWH)]

[Software & hardware] collaboration, [Inspection & Cleaning] Integration

## HardWare - Clustering



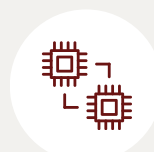
### Cleaning Machine

Line-break-crawler & Remote-control



### Inspection drones

Custom track, Efficiency inspection, Night cruise



### Ground inspection

Weeding, Grass collection, Watering



# 04 Process & assembly line



## 35 standard process

- Make it **automatic** if it can be
- Complete training system



## 17 pre-delivery tests

- Remove **0.3%** of defective products
- Life, Quality, Performance, Safety



## 2 supply company investment

- Holding **\*\*\*%** of shares
- It's better to produce than to test

Example: **Tilt angle test** line for cleaning robots before leaving the factory





### Customized solutions

- For you need
- Produce implementation plan within **1 week**.



### Warranty

- 1 year after-sales warranty
- **Core compoments free shipping**



### Product

- New product release every year
- Patents & Certificates & tests
- International Exhibitions & Online Platforms



### Delivery

- Multiple delivery methods
- **DDP, EXW, FOB, CIF ....**



### Service

- 8am - 6 pm (GMT+8), 5 days per week
- In person instruction and successful installation



# THANKS

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## Solar Solution

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