

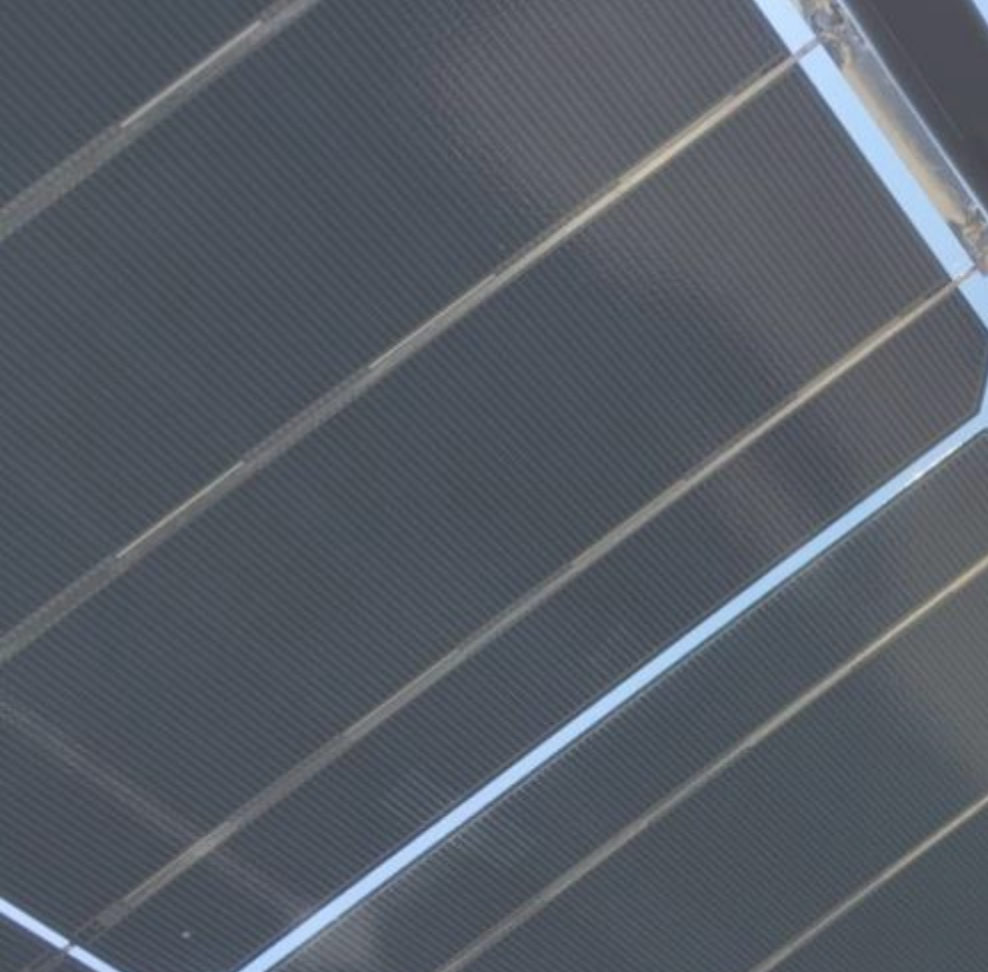
# UNITED RENEWABLE ENERGY Co., Ltd.

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2<sup>nd</sup> Sep. 2021

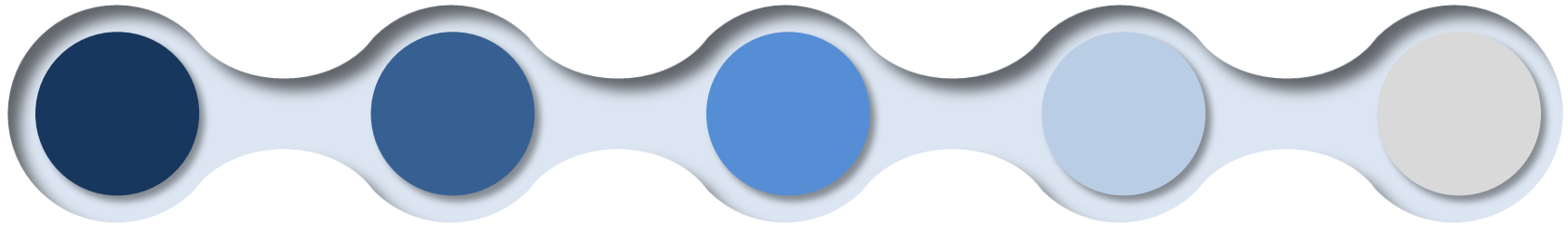




## WHO WE ARE

‘We, United Renewable Energy, are single biggest, largest and most vertical integrated solar company in Taiwan. Our customers are all over the Americas, Europe, Australia and Asia. With the support of government develop fund, it further enhances our financial strength as well as long term sustainability. As a leading green energy company, we advocate the importance of green energy in the world and encourage to utilize the renewable energy to treat our earth well.

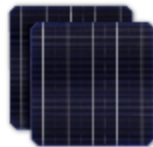
# URECO- Our Products



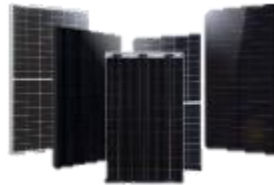
PV Systems



Solar Cells



Solar Modules



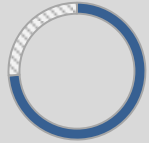
Storage



Hydrogen



# URECO Solar Product Global Capacity



## Thailand

Cells : 1,500MW/year



## Vietnam

Cells : 200 MW/year  
Modules : 600 MW/year

## China

Cells : 800 MW/year  
Modules : 2,000 MW/year



## Taiwan

Cells : 1,000 MW/year  
Modules : 1,000 MW/year



Cells

3.5 GW/Year

Modules

3.6 GW/Year



# 1

**United Renewable Energy:  
unique and aesthetically  
designed solar modules**

URECO continues to develop forward-looking technologies, and actively supports the national solar energy mandate and policy with our advanced, high quality, solar modules. We continue to offer a board range of solar solutions for each market, and strive to achieve the goal of self-sufficient and sustainable green energy generation.

## SOLAR MODULES

# Advanced Products

URECO solar products feature high quality, outstanding performance and reliability.

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540W

Double Glass

Black

23%





# Certificates

URECO has been granted awards and certification by many third parties and institutions around the world.



# Monocrystalline PRODUCTS

## M6-166mm cells size-MBB Half-Cell Series



MBB Half-Cell Technology



Better Shading tolerance by half-cut cell design



Design for 1500 VDC reduce the system BOS effectively



Multi-Busbar technology with better Micro-Crack Resistance



◆ MBB Half- Cell-120PS  
FAK\_E7X 370-380W



◆ MBB Half- Cell-120PCS  
FAK\_E7X 360-370W  
Black



◆ MBB Half- Cell-144PCS  
FAK\_E8X 440-460W

For URECO Internal Use Only



# Monocrystalline PRODUCTS

## M10-182mm cells size-MBB Half-Cell Series



MBB Half-Cell Technology



Better Shading tolerance by half-cut cell design



Design for 1500 VDC  
reduce the system BOS effectively



Multi-Busbar technology with better Micro-Crack Resistance



◆ MBB Half- Cell-120PCS  
FBK\_M7X 445-455W



◆ MBB Half- Cell-144PCS  
FBK\_M8X 535-550W



◆ MBB Half- Cell-108PCS  
FBK\_MFX 390-410W

For URECO Internal Use Only

# M6/M10-Double Glass Series



High Durability  
Double glass design and high durability materials



Design for 1500 VDC  
reduce the system BOS effectively



Dual side power generation  
Double side power generation technology



Multi-Busbar technology with better Micro-Crack Resistance



◆ **M6** 9BB Half-Cell-120PCS  
FAL\_A7X 360-380W

◆ **M6** 9BB Half-Cell-144PCS  
FAL\_A8X 430-450W



◆ **M10** MBB Half-Cell-108PCS  
FBL\_BFX 405-415W

◆ **M10** MBB Half-Cell-120PCS  
FBL\_B7X 530-540W

◆ **M10** MBB Half-Cell-144PCS  
FBL\_B8X 435-445W

# Niche Product-N-type HJT

(IEC certificate only)



Superior temperature coefficient  
Better performance in high temperature region



Dual side power generation  
Double side power generation technology



Zero light induced degradation effect  
Enhanced performance warranty  
(NHJT)

- ◆ **M6** MBB Half- Cell-120PCS  
FAG\_A7X 370 - 390W  
1755mm x 1038mm x 30mm
- ◆ **M6** MBB Half- Cell-144PCS  
FAG\_A8X 445 - 465W  
2094mm x 1038mm x 30mm



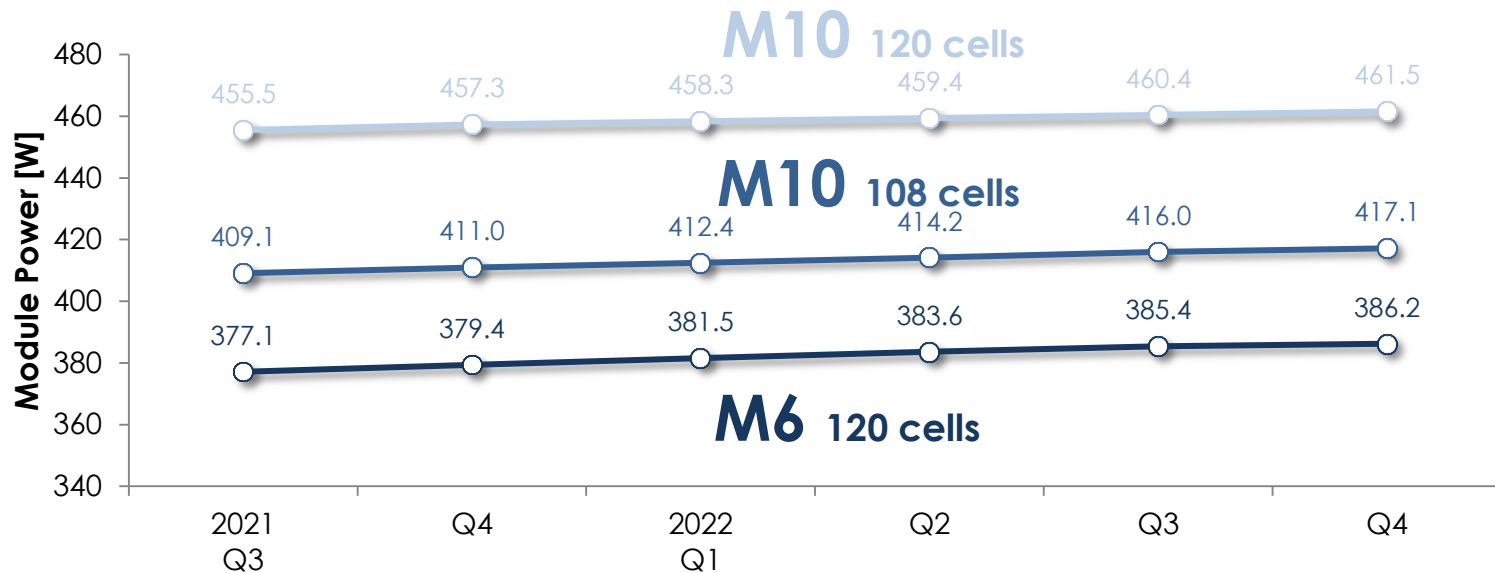
# NHJT



# URECO Power Roadmap



PEACH Series 120 cells and 108 cells

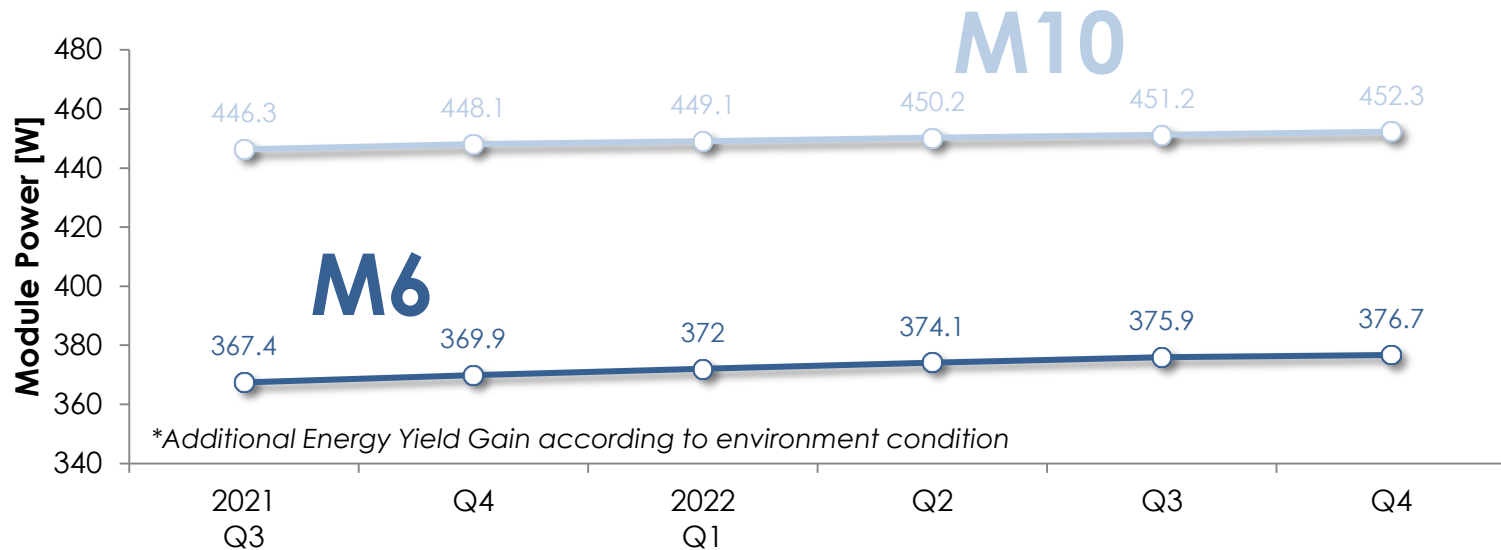


- URE provides M10 450W+ product solution for customer with 120 cells size.

# URECO Power Roadmap



Glory PEACH Series 120 cells (G2G Bifacial)

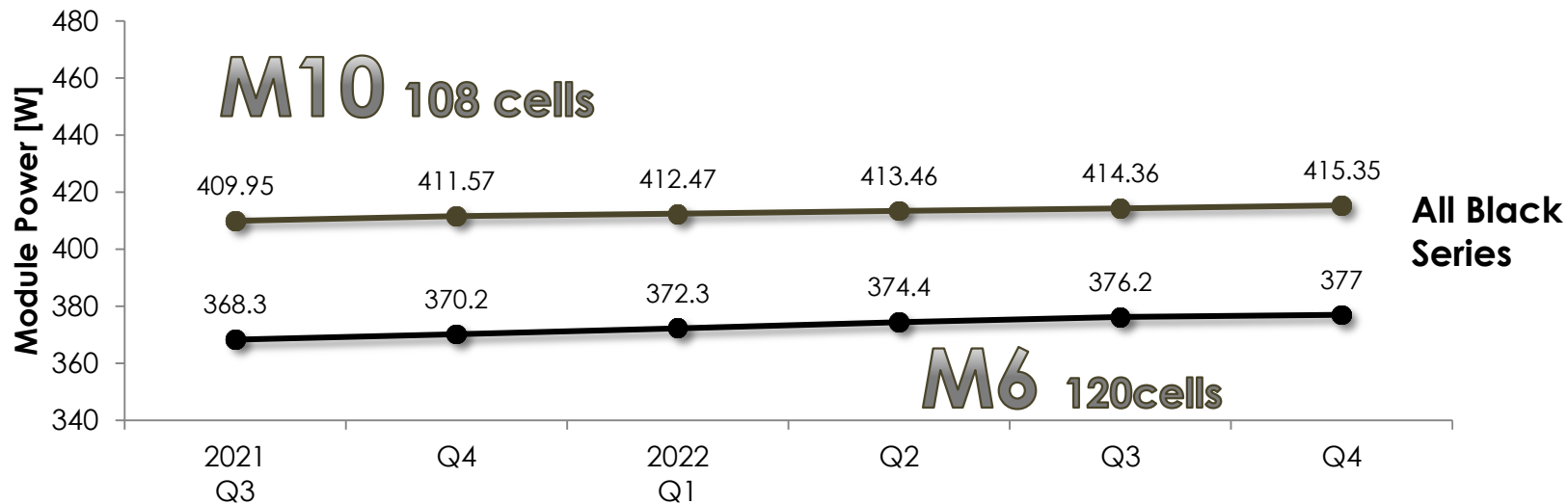


- URE high durability bifacial module can achieve M10 445W front side power with 120 cells size.
- Additional power gain from rear side by bifacial technology.

# URECO Power Roadmap



PEACH Series Black Module M6 120 cells and M10 108 cells



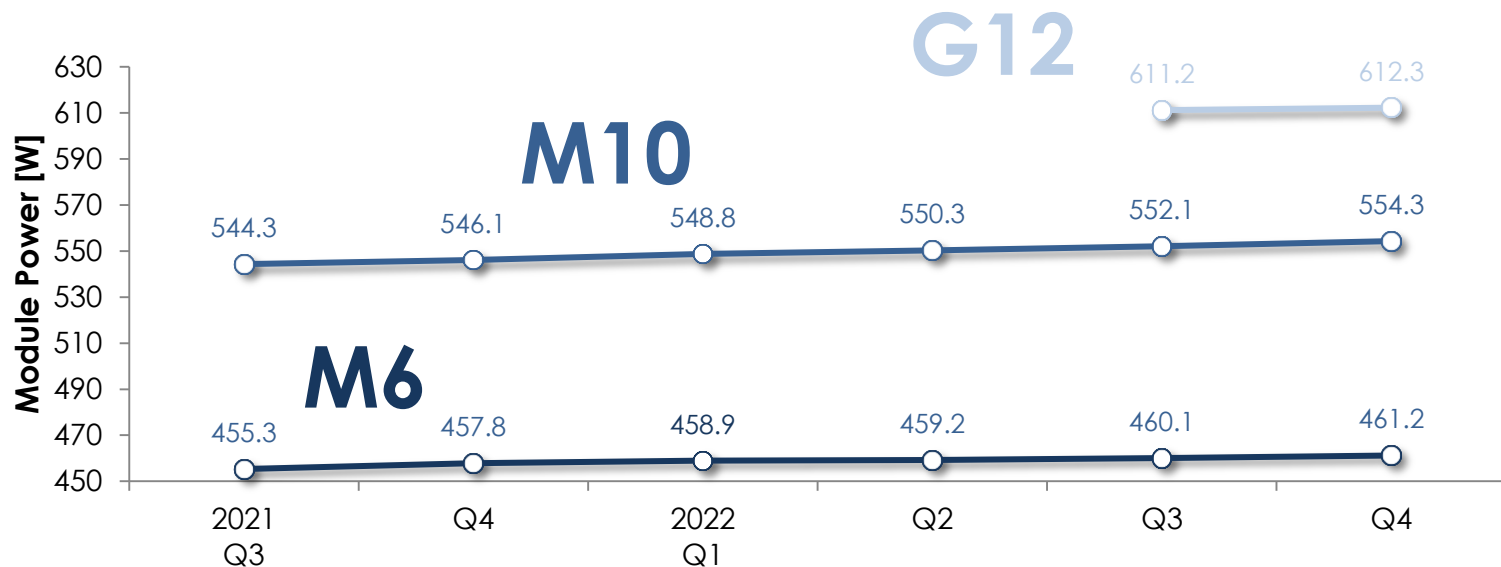
- URE provide back module for residential rooftop system with better PV panel aesthetics.



# URECO Power Roadmap



PEACH Series 144 cells

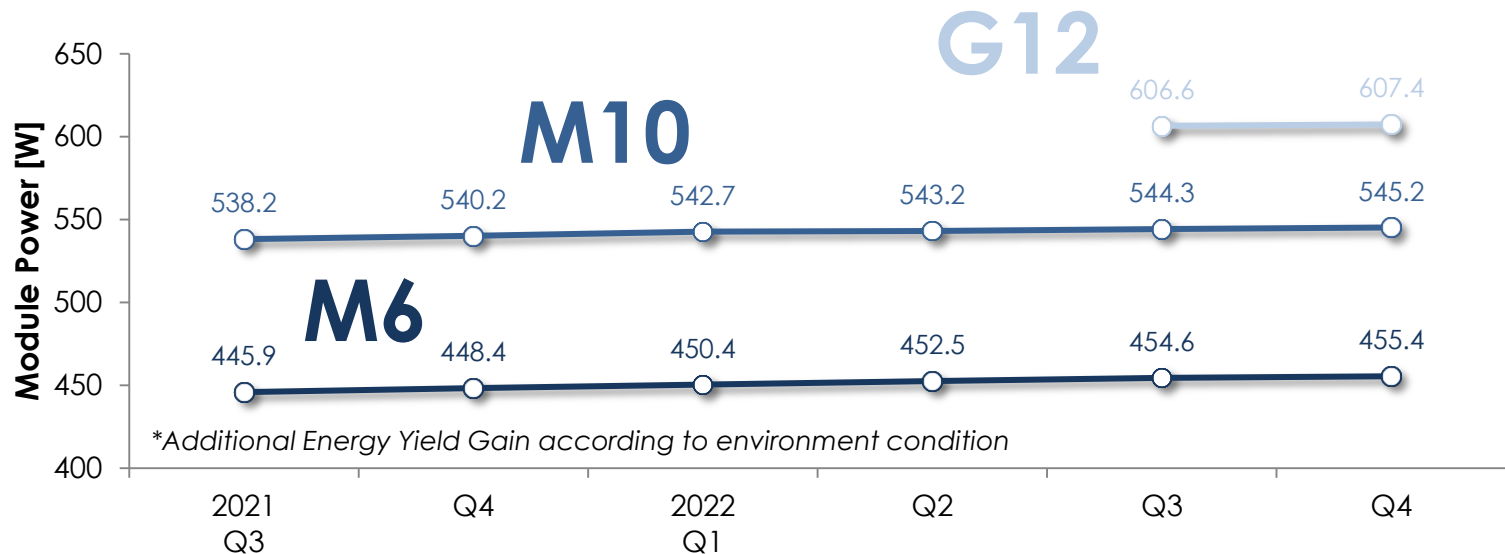


- URE provide M10 540W+ products solution for customers with 144 cells size module.

# URECO Power Roadmap



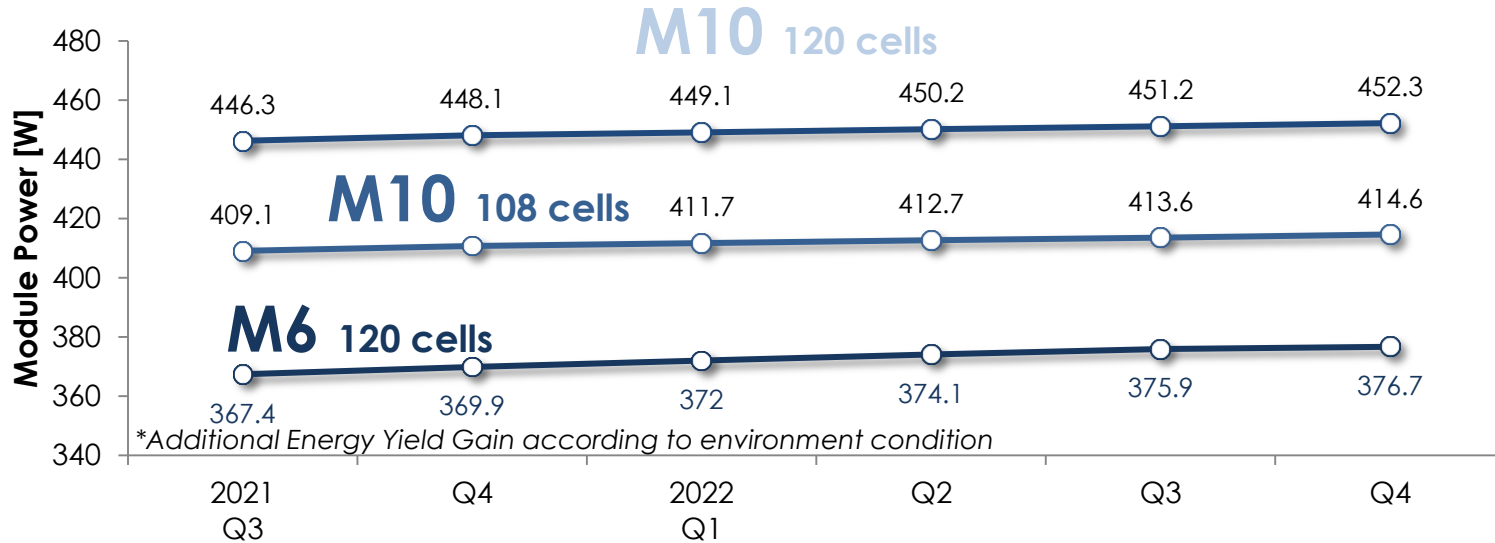
Glory PEACH Series 144 cells (G2G Bifacial)



- URE high durability bifacial module can achieve 530+W front side power.
- Additional power gain from rear side by bifacial technology.

# URECO Power Roadmap

Glory PEACH Series 120 cells and 108 cells (G2G Bifacial)



- URE high durability bifacial module can achieve 400+W front side power.
- Additional power gain from rear side by bifacial technology.

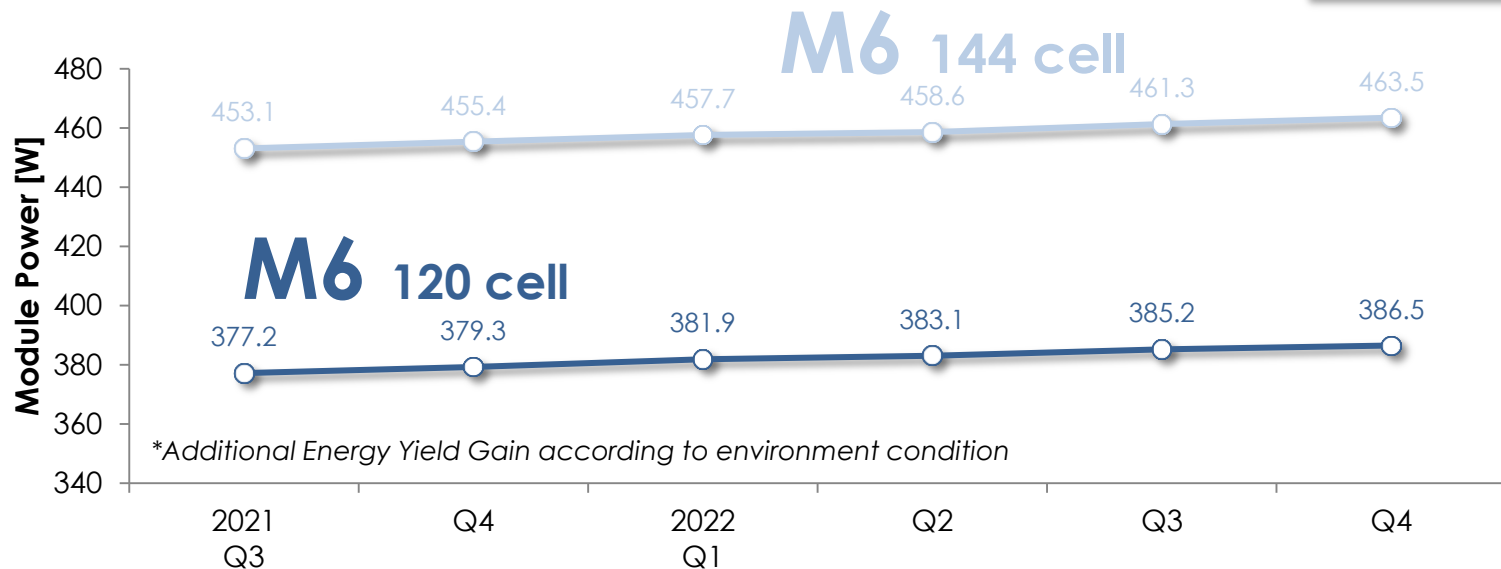


# URECO Power Roadmap

Glory Hello N-Type HJT Series (G2G Bifacial)



(IEC certificate only)



- Additional power gain from rear side and temperature coefficient by HJT bifacial technology.

# Bloomberg Tier 1 (since 2017)

URECO is long-term listed in Bloomberg Tier 1

Firm/ brand	Annual module capacity, MW/year	Firm/ brand	Annual module capacity, MW/year
ZNShine	6,000	Leapton Energy	600
Waaree*	2,000	Kyocera	600
VSUN Solar*	2,600	Jolywood*	3,000
Vikram Solar*	1,200	Jinneng/ Jinerjy	2,700
Ulica Solar	1,000	Jinko*	30,000
Trina Solar*	21,500	Jetion	2,500
Talesun*	10,000	JA Solar*	23,200
Swelect	140	HT-SAAE*	2,000
Suntech*	10,000	Heliene	380
SunPower/ Maxeon*	2,800	Hanwha Q Cells*	10,700
Sumec/ Phono Solar*	2,000	Hansol Technics	600
Shinsung	300	Haitai New Energy	5,000
Sharp	210	First Solar*	6,500
Seraphim / SEG*	5,500	ET Solar*	1,600
S-Energy	530	Eging	5,200
Risen Energy*	14,000	Chint/ Astronergy*	5,000
Renesola Yixing	1,500	Canadian Solar	16,100
Recom	460	BYD	2,400
REC Group*	1,800	Boviet*	1,500
Neo Solar Power/ URE	1,800	AE Solar	2,025
Longi*	45,000	Adani/Mundra*	1,500
		<b>Total</b>	<b>253,455</b>

Neo Solar Power/ URE 1,800

# Additional Product Warranty (optional)

URE can give optional reinsurance of product and performance warranty



Customer





# 2

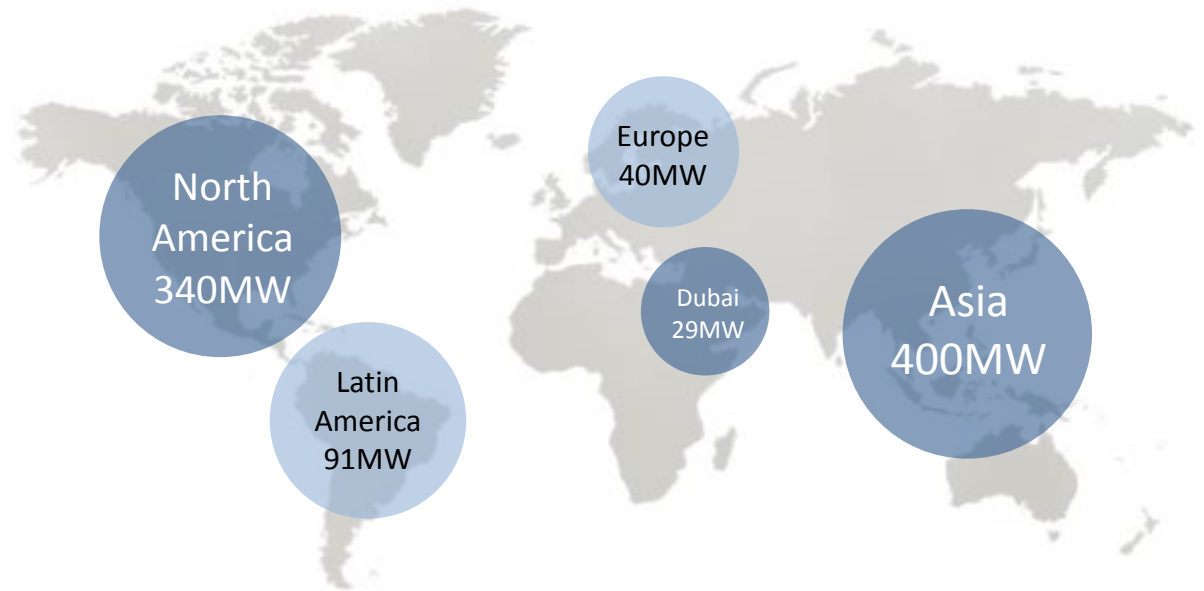
## United Renewable Energy: PV System projects

United Renewable's business model is based on system business and module brands. We actively engage in the development and construction of solar power generation systems and provide power station asset management services.

# SOLAR SYSTEM

# URE Solar Systems around the world

URE has built up its core competencies in development, construction, sales, and financing of global solar system projects.



- Accumulated on-grid solar system projects exceed **600 MW**.
- Undergoing pipelines are reaching **1 GW**.



# Signature US Solar Projects with URECO Panels



**C&I System**



**Ground-Mounted System**



**Airport System**



**Commercial Rooftop & Solar Carport Systems**



# Examples of Projects in the U.K.



## Residential Rooftop System

- Location: Manchester
- Total solar system: 8 MW



## Ground-Mounted Systems

- Location: Wales, Shropshire, Cumbria, etc.
- Total solar system: 30 MW





# Projects in Japan

## Ground-Mounted Systems

- Location: Fukushima
- Total solar system: 14 MW
- The largest solar plant sold to Clean Energy Canada in 2017

# Projects in the Middle East



## Rooftop Systems

- Location: Dubai
- Total solar system: 28 MW
- The largest rooftop system in Middle East area.



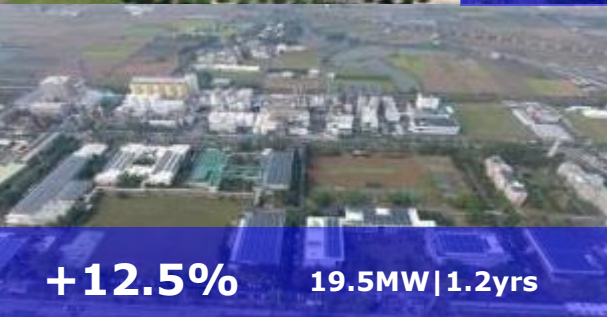
# Projects in Taiwan



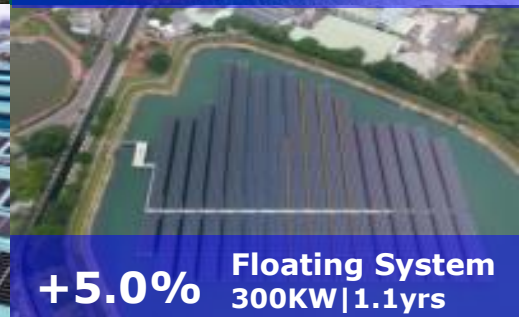
**+15.1%** 300KW|0.8yrs



**+12.3%** 100MW|1.3yrs



**+12.5%** 19.5MW|1.2yrs



**+5.0%** Floating System  
300KW|1.1yrs



# 3

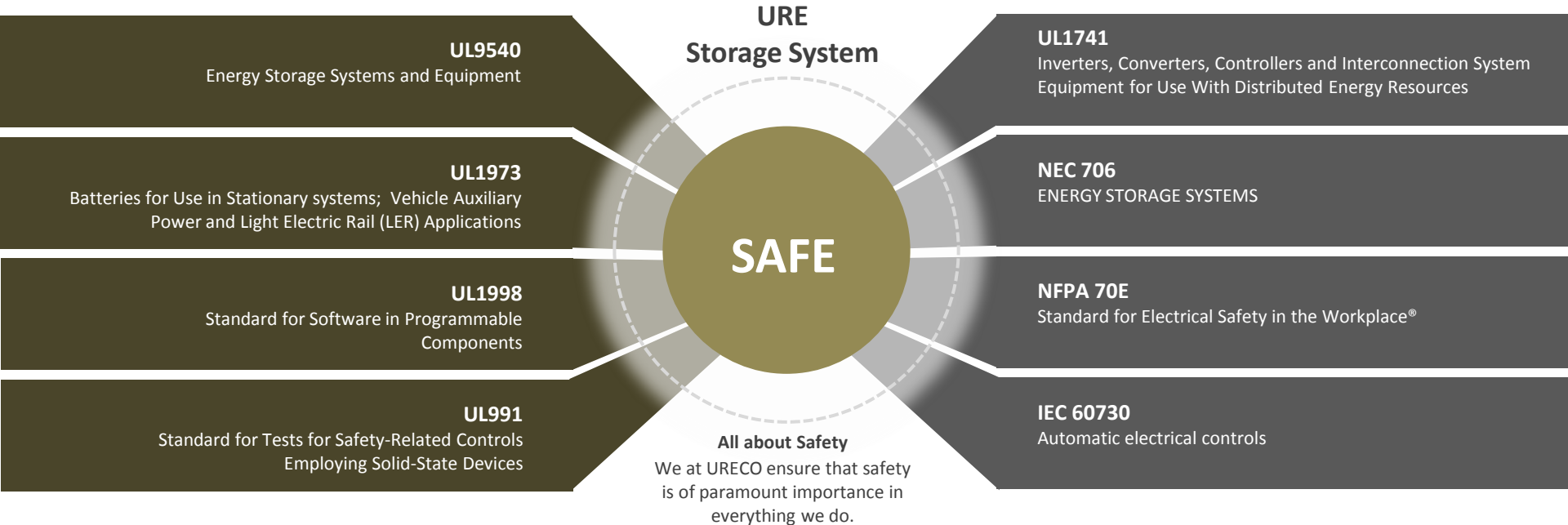
## United Renewable Energy: Our own custom designed solar storage systems

United Regeneration has developed and designed energy storage related products. They range from small and medium-sized household energy storage, to industrial-grade energy storage system including lithium battery power packs. At present, our large-scale industrial-grade energy storage system is the first in Taiwan to obtain UL9540 certification from the UL laboratory in the United States.

# SOLAR STORAGE



# URECO- All about SAFE



The world's first large-scale industrial and commercial energy storage system has achieved UL9540 certification



- UL9540
- UL1973
- UL1998
- UL991
- UL1741
- NEC 706
- NFPA 70E





# C&I

## Large Storage Device 250KWh~1MWh

- Peak saving
- Voltage and frequency regulation
- Micro grid application
- Demand response



# Residential

- Energy independence
- Reduce electricity cost
- Backup power
- Environmental friendly

## Storage Device 5KWh~20kWh



# UPS

## Lithium-Ion Battery Pack

- UPS LFP Battery
- Customize Lithium-Ion Battery Pack
- Specialized Mobile Radio

400KVA~800KVA



# Portable

- Energy independence (mobility)
- Outdoor activities and rescue tools
- Backup power





Thank You for Your Attention  
Please Visit Our Website

For more information:  
Solar Module /Solar Cell:  
Storage:  
Contact:

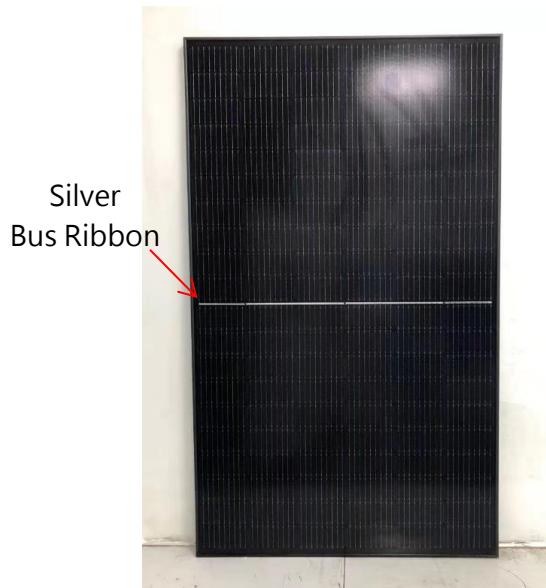
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Sales@urecorp.com](http://www.urecorp.com/Sales@urecorp.com)  
[BESS.sales@urecorp.com](mailto:BESS.sales@urecorp.com)  
+886-3-5780011



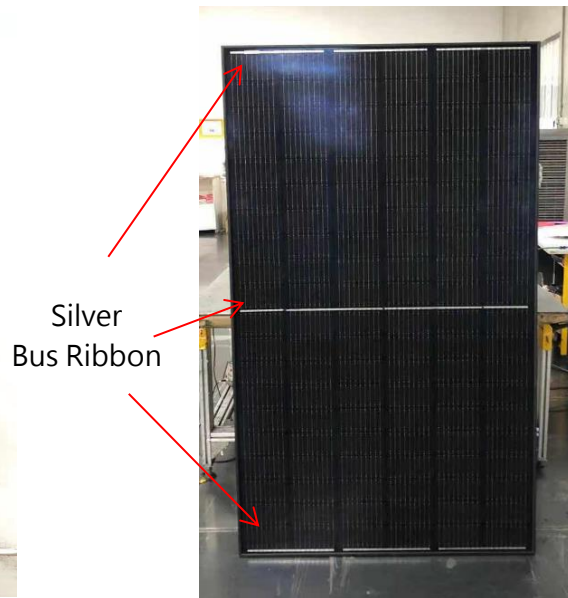
# Black Module Type



Super All-black



All-black



Regular black module