

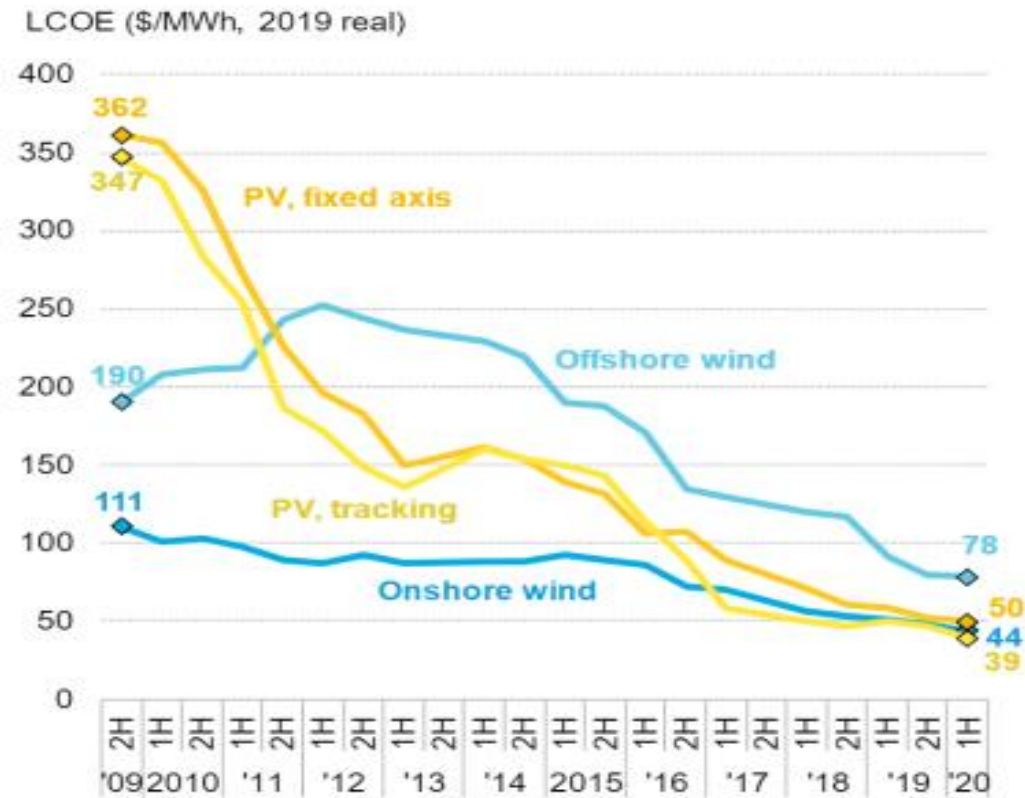
# **TIGER Pro Series**

***Andrea Viaro,  
Head of Technical Service and Product  
Management EU***

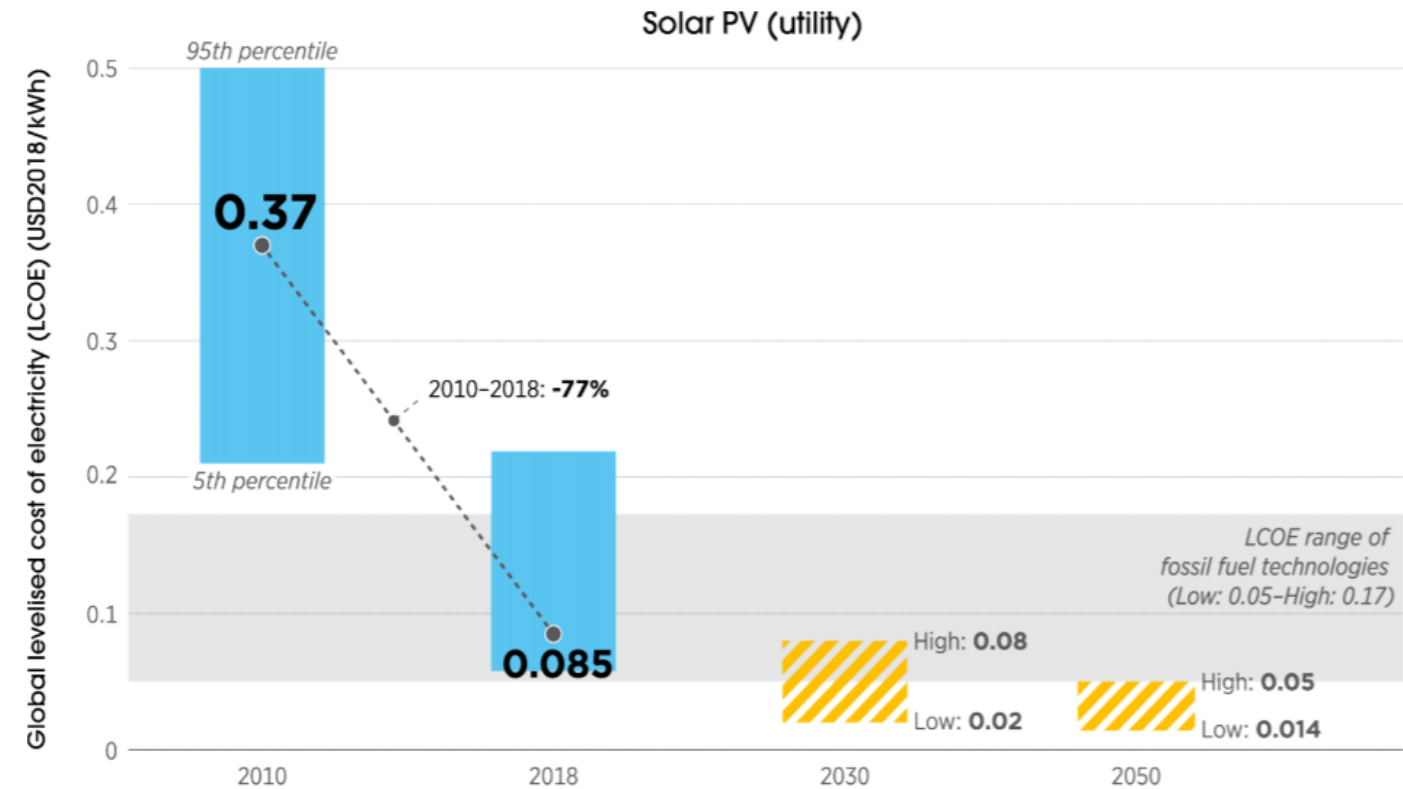


# LCOE Trend

TIGER Pro

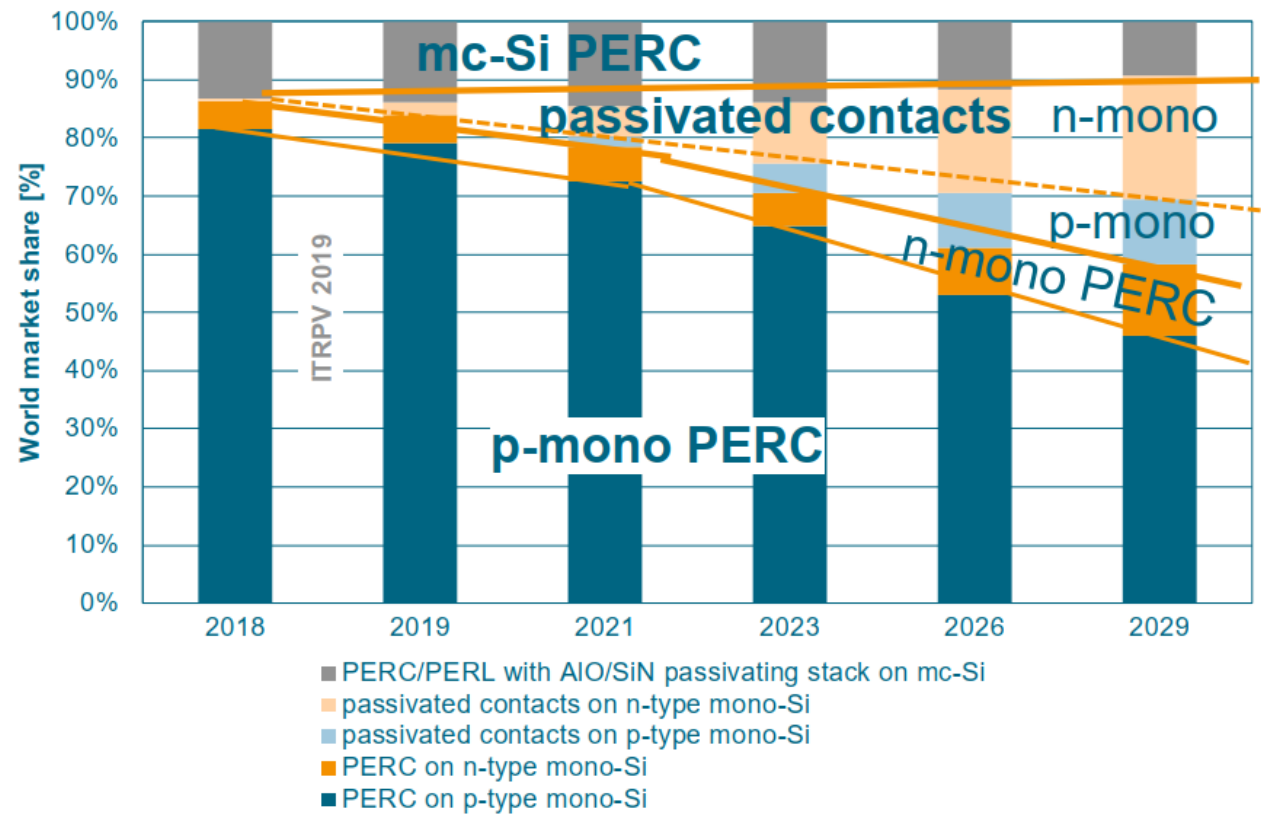


Source: BNEF



Source: IRENA 2019

## Trend: Passivated Emitter and Rear concepts



Source: ITRPV

## Bifacial cell in world market

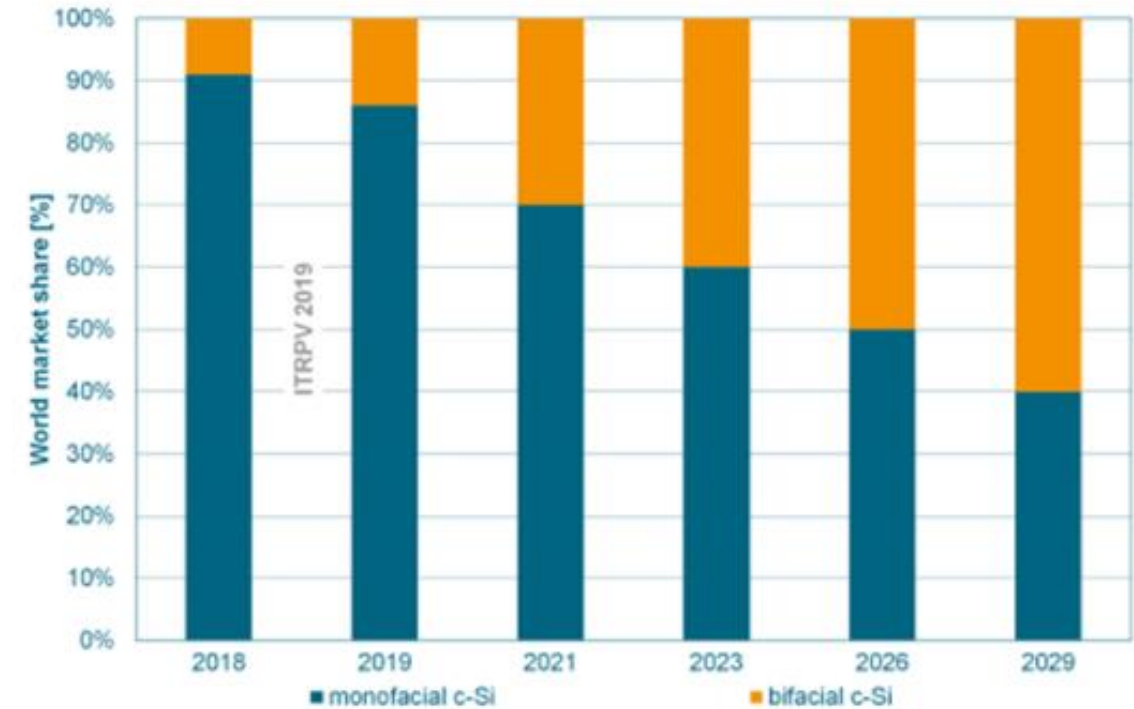
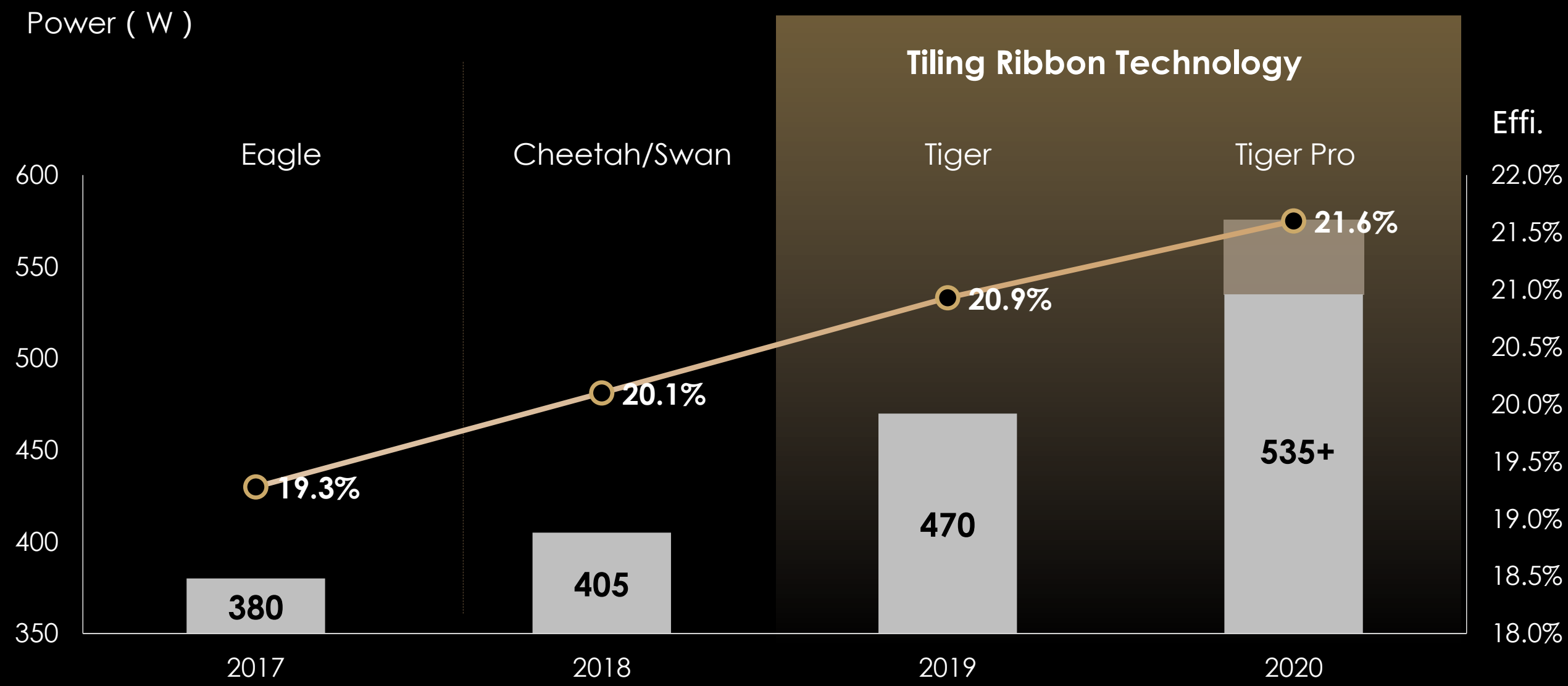


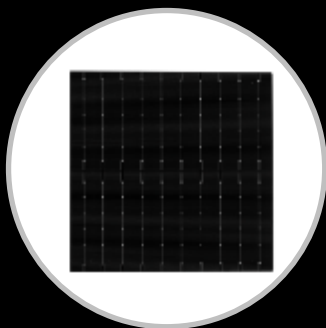
Fig. 42: Worldwide market shares for bifacial cell technology.

# Technology Development of Solar Module

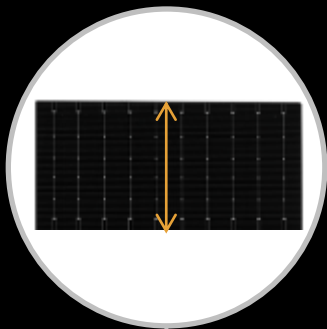
**TIGER Pro**



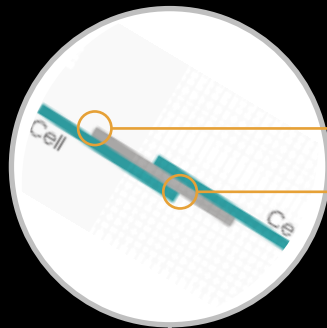
**MBB**  
Decrease power loss effective



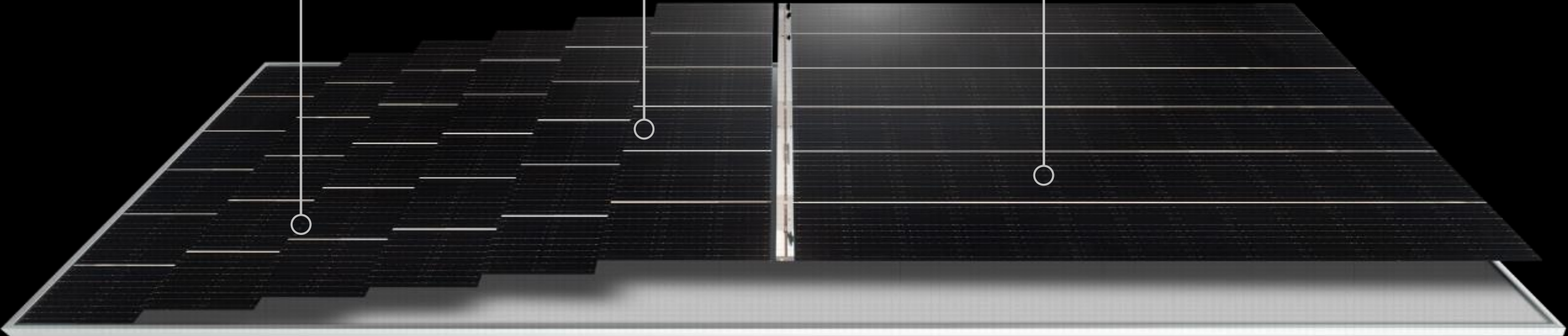
**HC technology**  
Improved shading tolerance because of splitting a full-cell into half



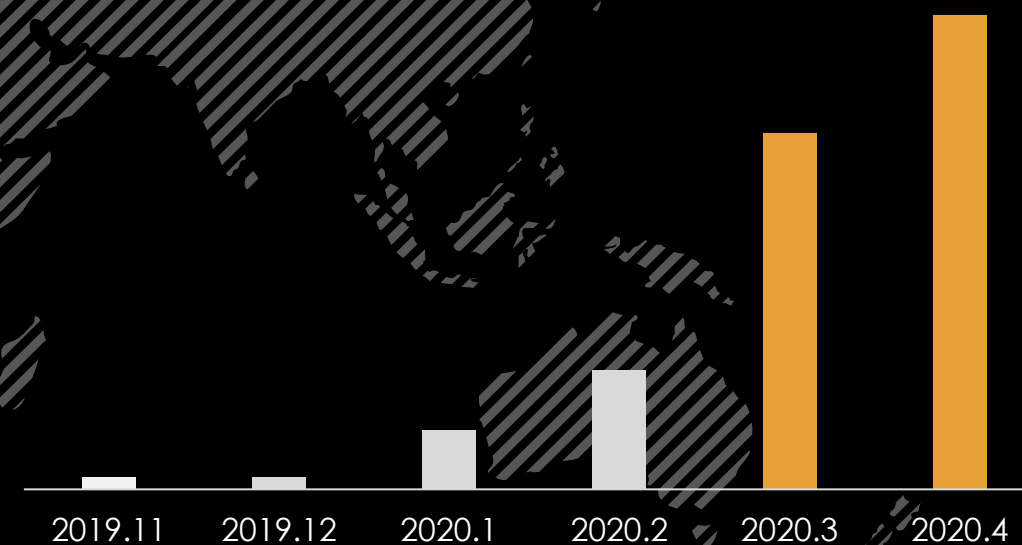
**Tiling Ribbon (TR)**  
Eliminate cell gap to increase module efficiency significantly.



Uses circular ribbon  
Overlap on each cell to eliminate the gap



# Tiger shipment >2 GW





**TIGER Pro**

# Maximum Power Efficiency

**535W**

**21.6%**

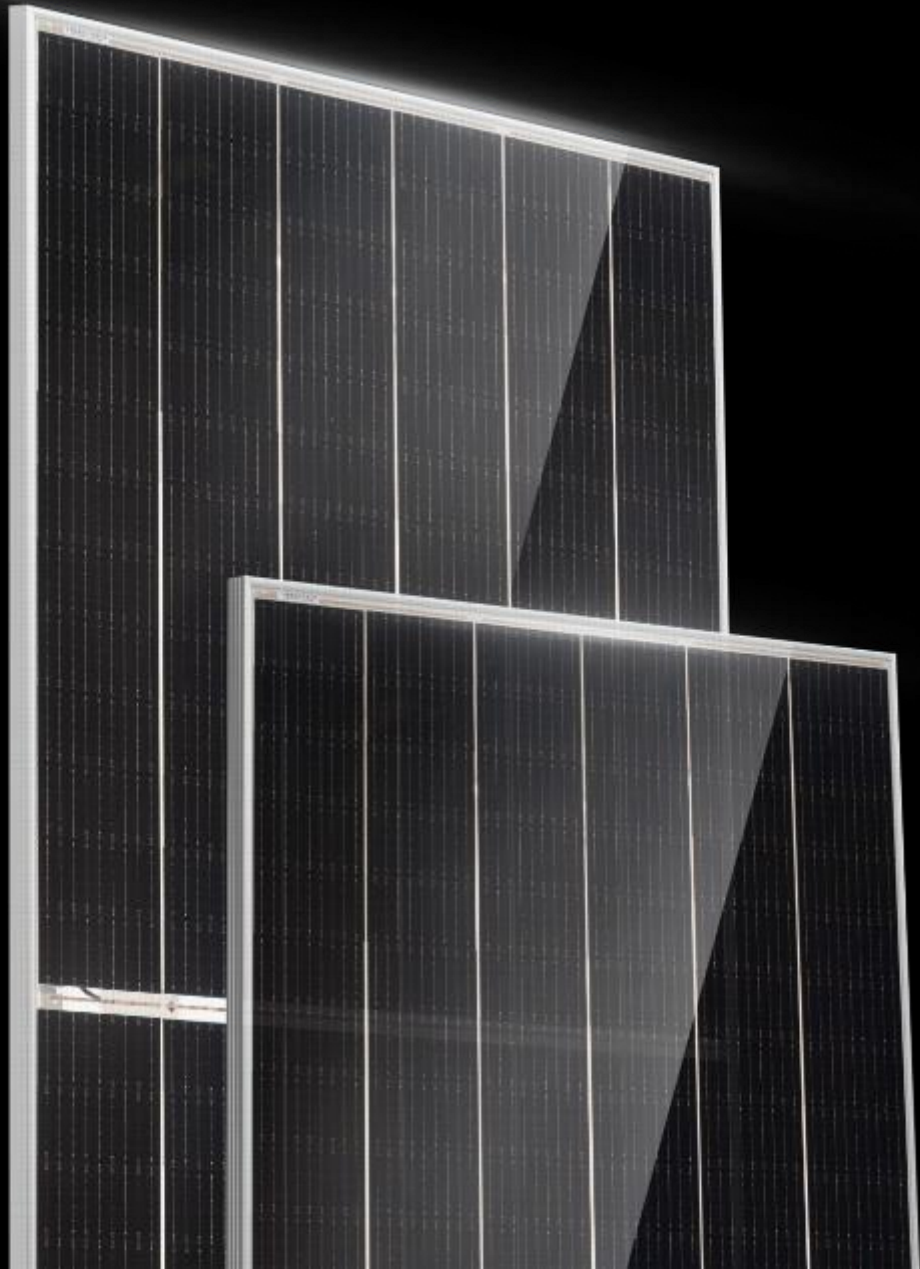
72-TR

**580W**

**21.6%**

78-TR





The most powerful panel : **535W**

The highest module efficiency : **21.6%**

The highest power density : **216W/m<sup>2</sup>**

Best temperature coefficients : **-0.35%/°C**

Better degradation : **2%** initial year **0.55%** annual

The most optimized Voc : **49.5V**



*TIGER* Pro

**530W**

**Bifacial  
Generation**

**5~25%**

Additional Power

*TIGER* Pro

# High Compatibility



Fixed installation



Multi-row interconnecting  
tracking system



Single-row independent  
tracking system



**TIGER Pro**

# High Compatibility

String Inverters



Centralized Inverters



\*The data calculation is based on 120MW projects in Vietnam

	G12 500/505W	TIGER Pro Monofacial 530/535W	TIGER Pro Bifacial 525/530W
Initial investment	71,196,752	70,311,035	70,464,288
Energy Generation	100%	100%	106.8%
BOS cost per watt	0.3383	0.3309	0.3322
Tracker	10,351,852	9,999,820	10,095,056
DC cable and its installation	2,473,499	2,277,442	2,255,926
Pile foundation	2,674,597	2,439,335	2,462,600
Labor cost	480,000	452,832	457,144
LCOE (USD cent/kWh)	4.2465	4.1583	3.8596
ROI	16.62%	16.98%	18.32%



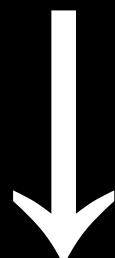
(Unit : USD)

Project	Ningshun Province
Capacity	120MW
Number of irradiation hours per year	1886
DC/AC	1.2
Bifacial gain	7%

**Project selection :**  
Tracker+Centralized Inverters  
+Monofacial/Bifacial Module

**TIGER Pro**

**TIGER Pro** 530/535W **VS** **G12** 500/505W



**2.3%**

BOS cost



**2.2%**

LCOE



**2.2%**

ROI

\*ROI Scale of change

\*The data were calculated based on 120MW in ningshun, Vietnam



Tiger Pro capacity

*TIGER* Pro

Q3

2020Q3 Mass production

10GW

Annual Capacity  
(2021)



# Thank you!



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