

**FUTURE**<sup>TM</sup>  
S O L A R



## Corporate House

Welcome to Samanvay Corporate House, the epicenter of our group's endeavors. The Samanvay Group stands out as one of the fastest-growing conglomerates, leaving its mark in Realty, Healthcare, and Chemical industries. We are now embarking on a new venture in the renewable energy sector, specifically in the manufacturing of PV Modules.

Within these walls, the synergy of innovation and collaboration is palpable, guided by a strategic vision that propels our collective success. As a dynamic group committed to excellence in diverse sectors, our corporate headquarters serves as the central hub for harmonizing talents, fostering growth, and aligning our businesses with a shared mission.

Step inside and experience a harmonious blend of expertise, ambition, and a culture that propels us towards a future of sustained prosperity.



#Vadodara

## Vision

Fueled by agility and innovativeness, we strive to forge impactful partnerships that promote environmental sustainability.

We believe in cultivating a culture that values and nurtures the potential of every individual. Our commitment to leadership extends beyond technology, embracing a collective journey toward social and ecological responsibility. Together, we illuminate the path to a brighter, greener tomorrow.



Our Brand Mascot



# Let's Grow Together.

**Welcome to Future Solar**, a tech innovation hub where sunlight transforms into boundless energy! As a pioneering solar panel manufacturing company, we take pride in crafting cutting-edge photovoltaic solutions that redefine sustainability.

Our vision is to provide end-to-end technology and backward integration, ensuring a seamless journey from solar panel production to renewable energy solutions.

**Future Solar is the solar PV manufacturing venture of Samanvay Group**, a diversified business conglomerate with a rich legacy in realty, healthcare, and chemicals in India over the past decade. Future Solar aspires to be one of India's fastest-growing solar companies with a 4.0 GW capacity, offering module manufacturing and services across the spectrum of products. The manufacturing facility at Karjan, Vadodara, Gujarat is strategically located near the North-South National corridor, giving us an edge for better supply chain management. With our fully automated production line by SC Solar with ATW Stringers, along with other advanced equipment, we aim to reduce costs and increase the scalability and reliability of our products.

Future Solar's comprehensive range of photovoltaic products, including the latest N-type and P-Type technology. Our initial capacity was 600 MW, and by year-end, we will have capacity of 4.0GW.

Our PV modules span up to 600 Wp, boasting an efficiency of up to 21.48% for Mono PERC (M10 10BB) and a range of 650 Wp up to 23.27% for TOPCon (M10 16BB). These modules are poised to spearhead a revolution in the solar market, setting elevated standards.

Our unwavering commitment to delivering high-quality modules is underscored by the integration of cutting-edge technology at our manufacturing unit.

Future Solar is proud to house a team of highly skilled technical experts, both in-house and as consultants, with unparalleled experience in the renewable energy fields, both locally and internationally. This ensures the delivery of perfect solutions to our clients. Our technology stands out through its ability to yield higher electricity in actual operating conditions. All our products and services are customer-focused, catering to home energy systems, as well as power plant development, with comprehensive support provided both before and after sales.

We offer exceptional solutions for residential, commercial, industrial and utility, roof top and ground mounted power plants at an unbeatable price. Our technology is recognized for its superior electricity yield in real-world conditions and low maintenance requirements.

We take pride in being a **'Make in India, Made for the World'** organization with excellent team support.

On the path to **#BuildGreenIndia**, we invite you to join hands with us as we work to grow together to achieve this common goal.

# Message from the MD & CEO



Dear All,

It gives me immense pleasure to introduce to you our new venture Future Solar.

"Green, Clean, and abundant renewable energy are the basic ingredients for the economic progress of our cities, state and country." Future Solar is proudly committed to taking the initiative of our Prime Minister Shri Narendra Modi of NET ZERO by 2047. We aspire to contribute to his vision, and philosophy and support our country's energy independence and sustainability. Our journey over a decade has been a fascinating saga of revolutionary initiatives and responsible business practices.

In our quest to deliver sustainable energy, we are setting new benchmarks for operational efficiencies and investing in advanced technology and research. Our focus will be on building long-lasting and trusted relationships with our customers, partners, employees, stakeholders and communities, for long-term sustenance. We aim to consumer delight by growing together.

As we strive to lead the reform process for sustainable power, we are also committed to safeguarding the environment for future generations and developing our business in a way that adds value to the local communities. We plan to set higher benchmarks in terms of development standards, and the implementation of cutting-edge, eco-friendly technologies and processes of energy management.

We are committed to sustainable supplies of electric power, good governance and being leaders in each sector. We are confident of being #FutureGenenergy and continue lighting up lives.

Yours Sincerely

**Ravi Rao**  
Founder & Managing Director / CEO

# Our Team



**Richi Shah Rao**  
Co-Founder & Director

Director in Samanvay Realty since 2014.

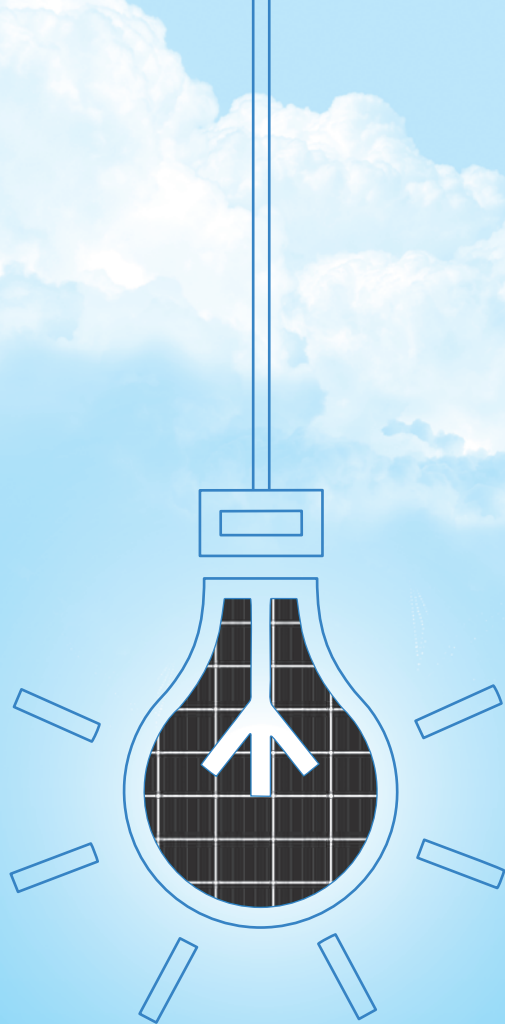
M.S in Electrical Engineering, San Jose State University  
B.E. in Electronics Engineering from Birla Vishwakarma Mahavidhyalaya.  
Worked with Intel Corporation (in the US) and Matrix Communications India.



**Dipak Shah**  
Director

Passionate in renewable energy after serving as a Research Team Coordinator at IBM and Semi-Conductor industries.

Dipak Shah holds a bachelor's degree in Business Administration from Gujarat State University and a Gemologist Degree from GIA, Los Angeles, California and Real Estate Finance from San Jose State University.



## Core Values

**Leadership** from being a business leader to nurturing future leaders.

**Innovativeness** driving ideas to reality.

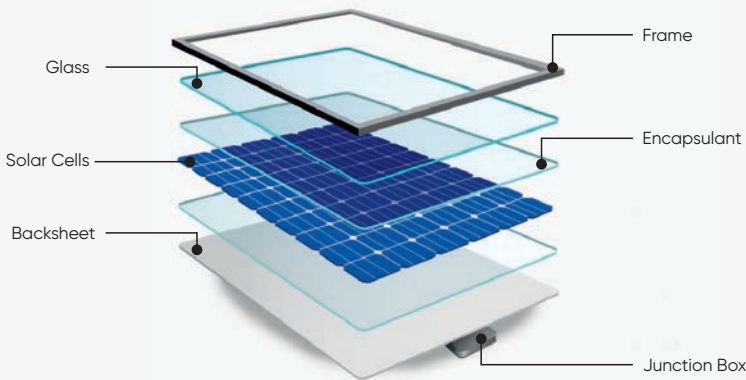
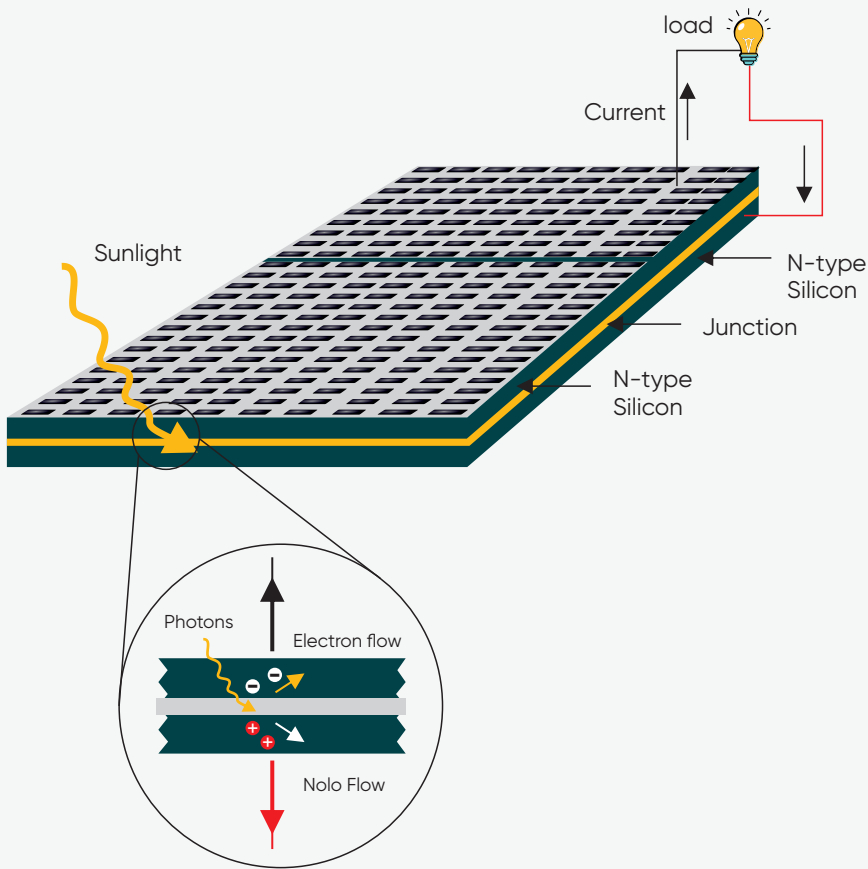
**Integrity** creates an environment of trust and transparency.

**Responsiveness** towards employees, customers and other stakeholders.

**Agility** towards Change that is only constant to the rapid dynamics of the world.



# Harnessing Solar Rays to Energy



## Solar Cells

N-type TOPCon with efficiency upto 25.3%

**Mono PERC**  
(Passivated Emitter & Rear Cell)  
P-type with efficiency upto 23.65%

## Solar Modules

Type - Mono PERC and TOPCon

Solar Cells - 120 - 156 Cell

Module Technology - Mono Facial and Bi - Facial ( Double Glass and Transparent Backsheet )

Features - Reliable, Durable, Cost-Effective, Energy Saving



# Module Manufacturing

## Diversified Products

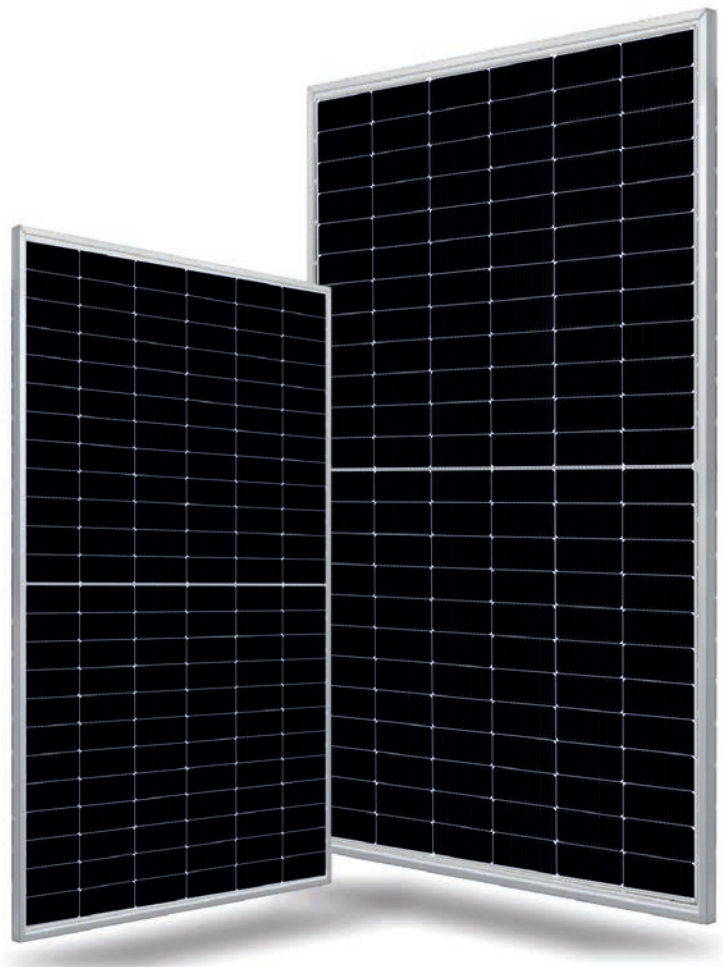
FUTURE SOLAR is a market-oriented company that has multiple products and different technologies, including PERC/TOPCon's latest technology with varied range of panels both mono-facial and bi-facial, and other customized panels as per the requirements of the customer. With continuous R&D investment, Future Solar plans to continuously launch new products that meet market demands and establish a competitive advantage.




### PV Modules

N-type TOPCon Series  
P-type PERC Series

# N-type TOPCon

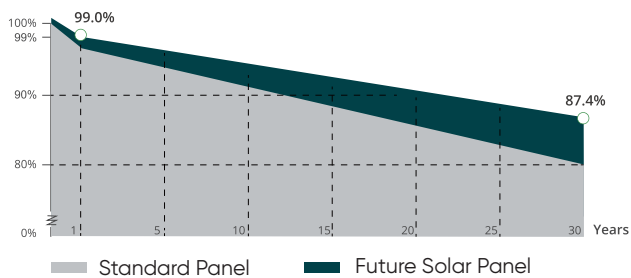
Half-Cut TOPCon Cell  
Bifacial Dual Glass



-  Higher Efficiency
-  Lower Degradation
-  Outstanding Power Generation
-  PID Free/Low LID Protection
-  Lower Temperature Coefficient
-  Less Hot Spot Shading Effects
-  Enhanced Bifacial Factor
-  Exceptional Mechanical Resistance

## WARRANTY

12 Year Product Warranty\* | 30 Year Linear Performance Warranty\*



<b>23.27%</b> Maximum Efficiency	<b>650 Wp</b> Maximum Power Output
<b>0~+4.99 W</b> Positive Power Tolerance	<b>GRADE A</b> Cells Guaranteed
	<b>BIFACIAL</b> Type of Panel



M10 Cells (182mm) 16BB



Residential



Commercial & Industrial



Utility



# P-type PERC

Half-Cut PERC Cell  
 Bifacial Glass to Glass & Transparent Backsheet  
 Monofacial Glass to White Backsheet

**DCR**

**Available**

**21.48%**

Maximum Efficiency

**0~+4.99 W**

Positive Power Tolerance

**600 Wp**

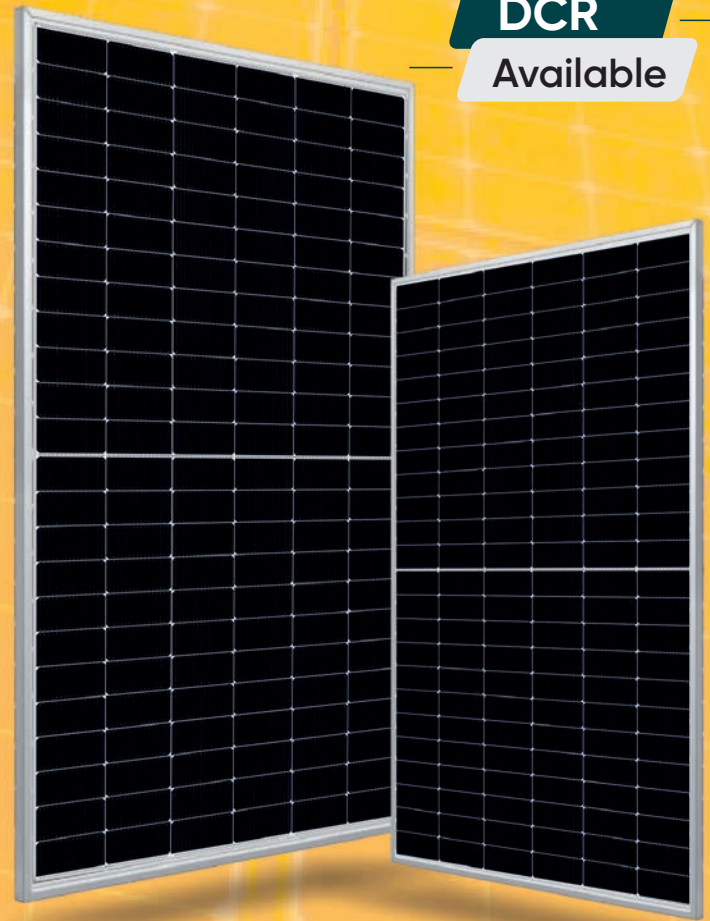
Maximum Power Output

**GRADE A**

Cells Guaranteed

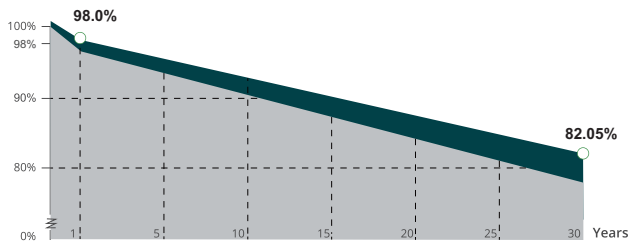
**BIFACIAL | MONOFACIAL**

Type of Panel



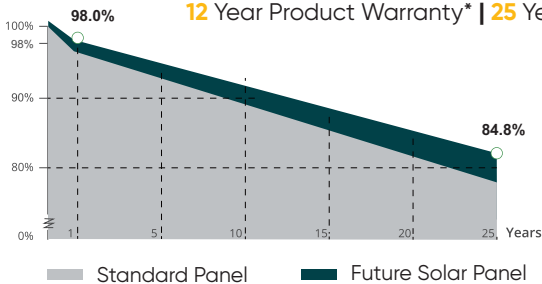
## WARRANTY ( Bifacial )

12 Year Product Warranty\* | 30 Year Linear Performance Warranty\*



## WARRANTY ( Monofacial )

12 Year Product Warranty\* | 25 Year Linear Performance Warranty\*



Standard Panel      Future Solar Panel

## KEY FEATURES

- Outstanding Power Generation
- PID Free/Low LID Protection
- Lower Temperature Coefficient
- Less Hot Spot Shading Effects
- Enhanced Bifacial Factor (For Bifacial Module)
- Exceptional Mechanical Resistance



M10 Cells (182mm) 10BB



Residential

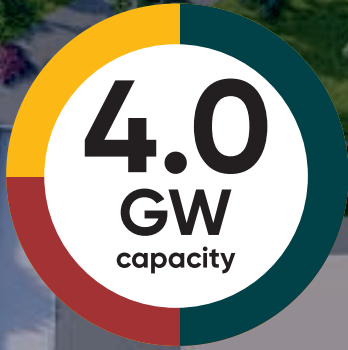


Commercial & Industrial



Utility

\*T&C Apply



MANUFACTURING  
UNIT - III  
(800 MW X 2 Lines = 1.6 GW)

MANUFACTURING  
UNIT - II  
(800 MW X 2 Lines = 1.6 GW )

MANUFACTURING  
UNIT - I  
(800 MW)



## Production Facility At Karjan Plant, Vadodara

Intelligent manufacturing state-of-the-art technology, intelligent logistics, intelligent business system, to achieve comprehensive intelligent management, to ensure product quality, improve operational efficiency and service efficiency.



World-class  
automated  
manufacturing



Improve customer  
revenue levels



Lower production  
cost



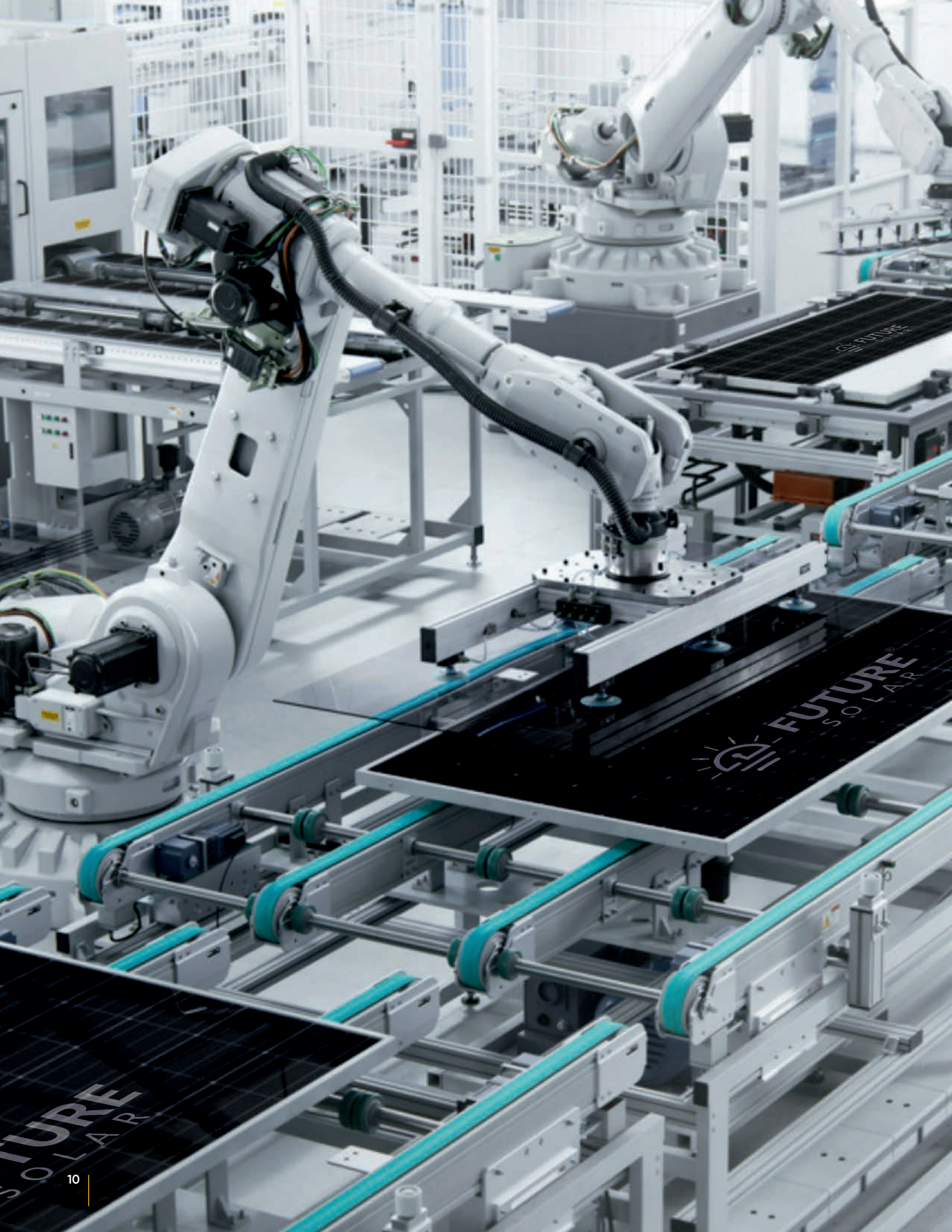
Fully transparent  
intelligent manufacturing  
process



SMBB Technology



Auto Bussing &  
Soldering Technology



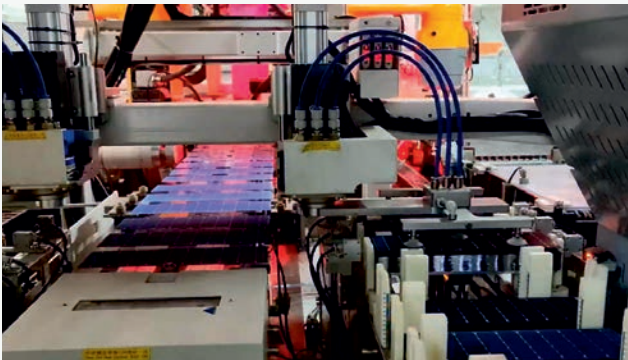
 FUTURE  
SOLAR

FUTURE  
SOLAR

# Our Technical Prowess

Fully automated state-of-the-art technology

**THE NEED OF HOUR – TO MAKE CLEAN,  
RENEWABLE ENERGY**



**World-Class Technology ATW Auto Stringer  
& SC Automation line**

# R&D Facility & Certifications

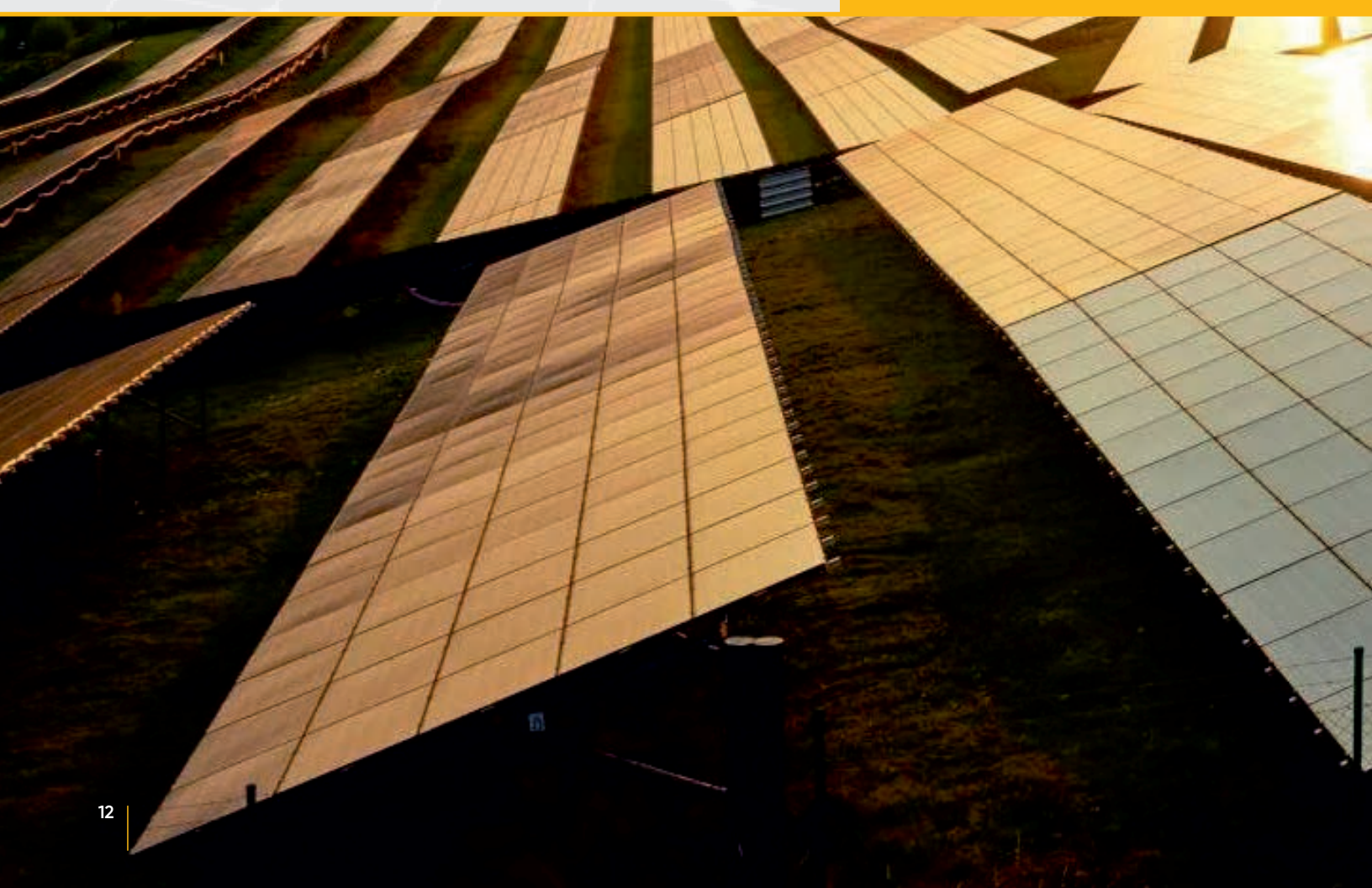
The Photovoltaic Lab at FS Green Energies Private Limited, Vadodara, has a laboratory and testing facility specifically for encapsulants, backsheets, and their raw materials. An independently run facility, the lab is one of its kind that performs analytical and quality assurance tests for all polymers of encapsulants and backsheets.

Thus, periodic testing beyond a simple visual checking, of these components becomes a significant indicator of PV module quality.

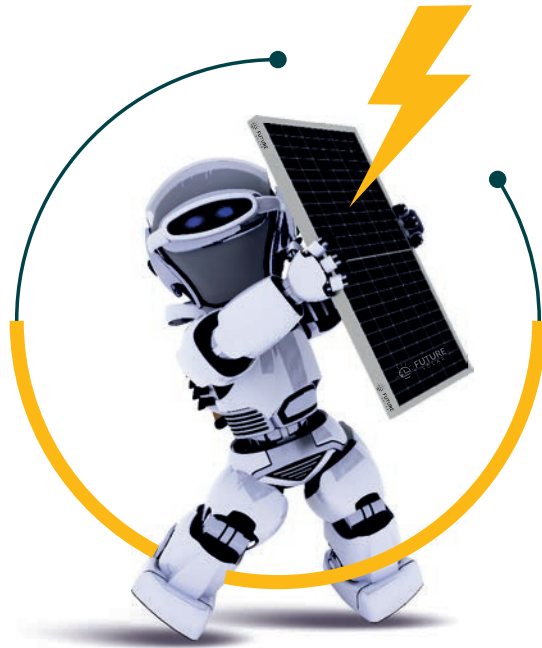
## Some of the critical testing parameters include:

- Gel content/Crosslinking rate
- Adhesion Strength
- Tensile Strength
- Transparency
- Pull Strength
- Mechanical Load test
- Wet Leakage testing
- Thickness
- Density
- Thermal Shrinkage

## Certifications







### USA Office

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Manufacturing Unit :

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