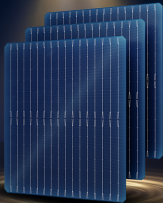


CELLORAA
ENERGY





Infinite Energy, Eternal Impact

Enabling the next generation of sustainable energy systems through innovation, scalability, and intelligent industrial advancement.

Key Highlights:



1.2 GW Annual
Manufacturing
Capacity



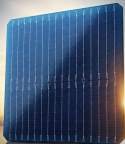
>25.2% Cell
Efficiency



100% Made-in
India (DCR) Cells



N-Type TOPCon
Technology

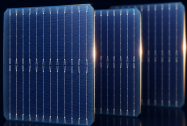


ABOUT US

An Energy Transformation Company Building the Future of Sustainable Energy Ecosystems

Celloraa Energy is focused on enabling cleaner, smarter, and more scalable energy systems through advanced technologies, sustainable manufacturing, and future-focused industrial innovation.

- ✓ Building a 1.2 GW solar cell state-of-the-art facility
- ✓ Future-proofed architecture designed for multi-GW scalability
- ✓ German technology integrated with intelligent automated workflows
- ✓ Indo-German technology partnerships with RENA Technologies, Centrotherm, and ISC Konstanz
- ✓ Focus on high-efficiency N-Type TOPCon solar cell technology



1.2 GW
Annual Production
Capacity



Indo-German
Technology
Partnership



>25.2%
Energy Conversion
Efficiency



Made in India
TOPCon DCR Cells

Building the Energy Ecosystems of Tomorrow

Celloraa Energy is creating a foundation for future energy growth through a connected ecosystem of technology, manufacturing, and infrastructure.



Renewable Energy Technologies

Advancing
high-efficiency solutions
driving the global energy
transition.



Advanced Manufacturing

Building world-class
manufacturing with
precision, automation,
and innovation.



Sustainable Infrastructure

Creating cleaner,
smarter, and more
resilient infrastructure
for the future.



Energy Innovation

Adopting
next-generation
technologies that
improve efficiency and
performance.

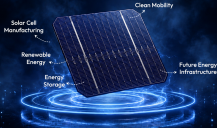


Industrial Transformation

Enabling industries to
transition toward
low-carbon, future-ready
ecosystems.

Building More Than Manufacturing. Building the Future of Energy.

The future of energy demands more than products. It demands vision, innovation, industrial capability, and long-term commitment.



The Renewable Energy Opportunity

The global renewable energy industry is entering its largest growth phase in history.

Solar energy has emerged as the most scalable and cost-effective renewable energy technology.

India has rapidly become one of the world's largest renewable energy markets.



Solar Cell
Manufacturing



Renewable
Energy



Energy
Storage



Clean
Mobility



Future Energy
Infrastructure

INDIA'S SOLAR MANUFACTURING REALITY

Manufacturing Capacity:

Particulars	Capacity
Solar Cell Manufacturing Capacity (2026)	~27-30 GW
Solar Module Manufacturing Capacity	~173-194 GW

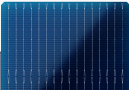
India currently possesses:

- ✓ Surpassed the USA and became the second-largest solar-producing nation.
- ✓ Approximately 173-194 GW solar module manufacturing capacity.
- ✓ Approximately 27-30 GW solar cell manufacturing capacity.
- ✓ Strong government support through subsidy schemes.
- ✓ Rapid renewable energy deployment.
- ✓ Growing domestic and international demand.

However, a substantial Manufacturing gap remains.

Domestic solar cell production continues to lag, creating a critical gap in the renewable energy value chain.

As solar cells contribute Nearly **60% OF A MODULE'S VALUE**, expanding domestic cell manufacturing is essential for strengthening energy security, reducing import dependence, and enhancing India's self-reliance in clean energy technologies.



INDIA'S MANUFACTURING GAP

Critical Market Insight

✓ Why This Matters

- ✔ Strong module manufacturing
- ✔ Growing renewable demand
- ✔ Government incentives
- ✔ Global manufacturing interest
- ✔ National goal of 500+ GW renewable energy

⚠ Challenges

- ❗ Insufficient solar cell manufacturing
- ❗ Dependence on imports / Indo-DCR cells
- ❗ Supply chain vulnerability



This creates a **Massive opportunity for advanced TOPCon cell manufacturers.**

Current Gap

 Module Manufacturing	~172-194 GW
 Cell Manufacturing	~27-30 GW
 Gap	~140+ GW



Strong module manufacturing



Growing Renewable Demand



Government Incentives



Global Manufacturing Interest



National goal of 500+ GW Renewable energy



100% **MADE-IN-INDIA**

DCR TOPCon Technology Powering India's Energy **Transformation.**

Celleroo Energy is building India's advanced solar cell manufacturing ecosystem with DCR TOPCon technology - driving self-reliance, sustainability, and global competitiveness.



DCR TOPCon technology.

High efficiency, high reliability,
future-ready



Energy Security

Strengthening India's clean
energy independence



100% Made-in-India

Designed, developed and
manufactured in India



Creating Jobs

Building skills, Empowering
communities, Fueling growth.



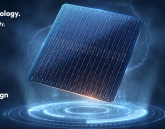
Sustainable Design

Lower carbon footprint and
higher energy yield



Atmanirbhar Bharat

Reducing import dependency,
Building a self-reliant India.



100% **MADE-IN-INDIA**

ADVANCED. SUSTAINABLE. RELIABLE.
BUILT FOR INDIA. BUILT FOR THE WORLD.

At Cellerac Energy, we are building India's advanced solar cell manufacturing ecosystem with global standards, future-ready technology and a commitment to a sustainable tomorrow.

THE GROWING MARKET OPPORTUNITY

India's Renewable Energy Goal
500+ GW by 2030

Massive solar demand
Accelerating every year

Global shift to high-efficiency
TOPCon technology

POWERING A SELF-RELIANT & SUSTAINABLE TOMORROW



Energy Security
Strengthening India's clean energy independence.



Reduce Import Dependency
Building a resilient and secure supply chain.



Job Creation
Creating thousands of direct & indirect employment opportunities.



Sustainable Future
Driving a cleaner, greener and sustainable planet.



Economic Growth
Fueling industrial growth and India's solar leadership.

100% MADE-IN-INDIA

OUR FOUNDATION. OUR COMMITMENT. OUR FUTURE.



VISION

Our vision extends beyond a single product category. We believe the future of energy requires scalable technologies, intelligent infrastructure, and integrated renewable ecosystems capable of supporting long-term environmental progress.



MISSION

To accelerate sustainable energy transformation by combining innovation, advanced engineering, and responsible manufacturing.



PURPOSE

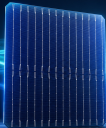
To contribute in the transition to energy systems that are more intelligent, scalable, and clean.



BRAND PHILOSOPHY

Infinite Energy. Eternal Impact.

Energy has the power to transform industries, empower communities, and create lasting impact. Cellenox Energy exists to harness this power responsibly and build solutions that create value for generations to come.



OUR CORE VALUES

Six values that drive our purpose and shape a sustainable future.



Innovation with Purpose

We continuously develop future-ready technologies and intelligent energy systems designed to accelerate sustainable transformation.



Engineering Excellence

Precision, performance, and advanced manufacturing are at the core of how we build scalable renewable energy solutions.



Sustainability Driven

We are committed to creating cleaner, smarter, and environmentally responsible energy ecosystems for future generations.



Global Collaboration

Through strategic global partnerships and Indo-German technology collaborations, we combine international expertise with local innovation.



Integrity & Responsibility

We believe in building long-term trust through transparency, responsible operations, and ethical business practices.



Customer & Partner Commitment

We value strong relationships and collaborative growth by delivering reliable solutions, trusted partnerships, and long-term value creation.

MANUFACTURING CAPACITY & FACILITY

BUILDING WORLD-CLASS MANUFACTURING INFRASTRUCTURE



MANUFACTURING LOCATION

- ✓ Surat, Gujarat, India



FACILITY CAPACITY

- ✓ 1.2 Gm State-of-the-Art Manufacturing Facility



PRODUCT

- ✓ Advanced G126 TOPCon Bifacial Solar Cells



TECHNOLOGY PERFORMANCE

- ✓ 27%+ Efficiency
- ✓ Superior bifacial performance
- ✓ Lower degradation
- ✓ Better framed stability
- ✓ Higher long-term energy yield



MANUFACTURING STRENGTHS

- ✓ AI-Powered Manufacturing Ecosystem
- ✓ Precision Engineering Systems
- ✓ Advanced Process Automation
- ✓ Intelligent Quality Assurance
- ✓ Sustainable Manufacturing Infrastructure
- ✓ Future Multi-Gm Expansion Capability



The facility has been designed as the foundation of Celloraa Energy's long-term manufacturing roadmap and future integrated renewable ecosystem.

STAKEHOLDER PARTNERSHIPS

Collaborating with global technology leaders and research institutions to drive innovation, quality, and sustainable impact.

TECHNOLOGY
Advanced Solutions



RENA
TECHNOLOGIES

	Organisation	Renix Technologies
	Country	Göttingen, Germany
	Website	www.rena.com/en/company/rena-germany
	Role	Advanced wet chemical processing technology partner

Contribution

- ✓ Surface finishing systems
- ✓ Cleaning technologies
- ✓ Wet chemical processing equipment
- ✓ Water-efficient manufacturing

Benefit

RENA's advanced process technologies support superior solar cell quality, improved manufacturing consistency, higher production efficiency, and environmentally responsible operations.

centrotherm
TECHNOLOGIES

	Organisation	Centrotherm
	Country	Blauhofen, Baden-Württemberg, Germany
	Website	www.centrotherm.de/en
	Role	Thermal processing and PECVD technology partner

Contribution

- ✓ PECVD systems
- ✓ Thermal diffusion systems
- ✓ Thin-film deposition technologies
- ✓ Advanced process engineering

Benefit

Centrotherm's technologies help achieve superior passivation quality, improved solar cell efficiency, enhanced reliability, and globally benchmarked manufacturing standards.

ISC
KARLSTADT

	Organisation	International Solar Energy Research Center (ISC) Karlsruhe
	Country	Karlsruhe, Germany
	Website	www.isc-karlsruhe.de/en/star-hubs-english/
	Role	Technology consulting and process optimisation partner

Contribution

- ✓ TOPCon technology expertise
- ✓ Manufacturing qualification
- ✓ Process optimisation
- ✓ Research and development support

Benefit

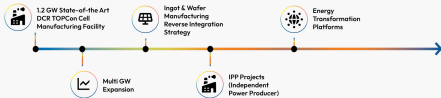
ISC Karlsruhe provides access to advanced photovoltaic research, process validation, manufacturing optimisation, and future technology readiness.



PARTNERSHIP VALUE

Together, RENA Technologies, Centrotherm, and ISC Karlsruhe create an integrated Indo-German technology ecosystem that strengthens Cellaeroo Energy's manufacturing capability, product quality, operational excellence, and long-term innovation strategy.

FUTURE ROAD MAP





Celloraa Energy Pvt Ltd.

📍 **Corporate Address:** 802, Solaris Bay View, near
Iscon Mall, Pipled, Surat, Gujarat 395007, India

📍 **Plant Location:** Sevni, Gujarat



Contact: +91 997-805-0508



Email: Contact@Celloraaenergy.com