Solex Energy Ltd.
STOCK CODE NSE Emerge SYMBOL SOLEX
CIN: L40106GJ2014PLC081036
GST: 24AAVCS0328R1ZN

SOLEX ENERGY

May 27, 2025

To,
The Manager
National Stock Exchange of India Limited
Exchange Plaza, Plot No. C/1, G Block,
Bandra – Kurla Complex, Bandra (E),
Mumbai – 400051

Symbol: SOLEX

Sub.: Investor Presentation for Post Earning Conference Call

Dear Sir / Madam,

Pursuant to Regulation 30 of SEBI (Listing Obligations and Disclosure Requirements) Regulations 2015, please find enclosed herewith the Investor Presentation along with key highlights for half year and year ended March 31, 2025 for the Post Earning Conference Call scheduled on May 27, 2025

Kindly take the same on the record.

Thanking you,

Yours faithfully,
For, Solex Energy Limited

AZMIN MEHRZIN CHINIWALA

Digitally signed by AZMIN MEHRZIN CHINIWALA
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SOLEX ENERGY LTD.

Azmin Chiniwala
Company Secretary & Compliance Officer

Encl.: as above

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L.P. Savani Road, Pal, Surat - 395009, Gujarat, Bharat

REGISTERED OFFICE
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SOLEX ENERGY LIMITED

Investor Presentation

H2 & FY2025

SOLEX®
OWN YOUR POWER...

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AGENDA

ABOUT SOLEX

SOLEX – A BRIEF

SOLEX ENERGY LIMITED, founded in 1995, specializes in renewable energy solutions and stands as a leading pioneer in **Solar Photovoltaic (PV) Module manufacturing in India**. Originally known as Sun Energy Systems, the company began its journey by producing solar water heaters. Over time, it expanded its product line to include solar home lighting systems and ventured into the manufacturing of solar PV modules in 2007.

Mission:

- Deliver high-quality, innovative, and sustainable solar energy solutions.
- Accelerate the transition to renewable energy globally.
- Empower industries, communities, and individuals with clean energy technologies.
- Consistently set benchmarks in quality, performance, and sustainability.
- Contribute meaningfully to achieving a carbon-neutral planet.

Vision:

To be the most trusted and trailblazing leader in the solar energy sector, driving a sustainable future with excellence and reliability.

Over **30 Years**
Of Experience

10,000+
Successful projects

1.5 GW
PV Module Production Capacity
(Additional 2.5 GW Under Development)

2 Mn+
Module Shipped

Global
Presence

OUR JOURNEY

1995

Established "**Sun Energy Systems**"

1998

Started manufacturing "**Solar Water Heaters**" along with wood and gas fired water heaters

2000

Started manufacturing of "**Solar Home Lighting Systems**"

2007

Started manufacturing of "**Solar PV Modules**"

2014

Renamed to "**Solex Energy Private Limited**" & increased the Solar PV Module **Manufacturing capacity to 30MW.**

2018

Listed on NSE Emerge – "**Solex Energy Limited**"

2022

Launch of **Global Factory with 1.2 GW** Solar Module manufacturing capacity with In-house Reliability Test Lab

2023

Launched **Tapi range of efficiency PV modules under the SOLEX brand** & became the **preferred OEM partner for the Global Brands**

2024

Unveiling **Vision 2030** & launch of **Tapi-R series** (India's First Rectangular Cell-Based Solar Modules with N-Type TOPcon Technology)

2025

Added **800 MW (Total 1.5 GW)** solar module line; Brownfield expansion underway to reach ~**4 GW manufacturing capacity**

2026

Exploring development of new **2 GW Solar Cell manufacturing facility**

2030

Expansion of **Module manufacturing capacity upto 15 GW**

Scaling **Cell manufacturing facility upto 5 GW**

OUR CORE TEAM

Chetan Shah
Chairman & MD

+ Hailing from the renowned Nemji family, with a century-long legacy of trust and goodwill.
+ With three decades of service industry experience, specializing in PV module manufacturing for 16 years.
+ A respected figure in solar manufacturing, driving innovation and leadership.
+ Committed to leading Solex Energy Limited to unparalleled success through strategic vision and steadfast leadership.

Kalpesh Patel
Whole Time Director

+ Extensive Solar Industry Experience with over 25 years of dedicated experience in the solar industry.
+ Successfully transitioned Sun Energy Systems into Solex Energy Limited, listed on the NSE Emerge platform in 2018.

Piyush Chandak
Whole Time Director

+ Youngest Director MBA from Auro University, Surat and BBA from Christ University, Bangalore
+ Aim to build a multi-pronged business empire through a professional approach.
+ Experienced in textile processing, telecom, and now driving strategic decisions for Solex

Anil Rathi
Non-Executive Director

+ Brings 28+ years of diverse industry experience including textiles, steel, and recycling.
+ Renowned leader with entrepreneurial ventures in garmenting, textile dyeing, steel recycling, and more.
+ Instrumental in production, HR, admin, and business development at Solex

Vipul Shah
Non-Executive Director

+ Chartered Accountant with over 20 years of experience in tax advisory and project finance.
+ Extensive expertise in Tax Advisory, Project Finance Advisory, and Management Advisory.
+ Active member of various social, educational, and charitable organizations.

Kiran Shah
Executive Director & CFO

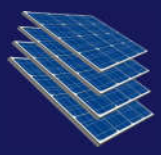
+ 25 years of hands-on experience in Accounts & Treasury management.
+ Manages financial reporting, tax preparation, audit assistance, and liaisons with banks and financial institutions.
+ Proficient in financial statement analysis, regulatory reporting, and general ledger accounting.

Brijesh Khanna
President - Operations

+ Accumulated 31 years of broad expertise across service and manufacturing domains.
+ Proficient in optimizing workflows and maximizing resource utilization to enhance efficiency and productivity.
+ Prioritizes Quality Assurance to uphold rigorous standards and regulatory compliance, ensuring operational integrity.

Business Overview

BUSINESS SYNOPSIS



Well-recognized module brand with national and international presence

One of the oldest manufacturer of **"Solar Photovoltaic (PV) Modules"**

Equipped with manufacturing capabilities for PV modules utilizing **P-Type Mono PERC and N-Type TOPcon technology**.

Engaged in **OEM & ODM partnerships with esteemed Indian and International entities** for module production under their brand names

Employing **Advanced Technology**, latest in the industry for Solar PV Module Production

Operations include Turnkey Projects, spanning **Residential Rooftop, Commercial, Industrial, and Utility Ventures**

Started with **1st Production Line of Global Facility with 700 MW** since H2'FY23 & added a **2nd line with 800 MW** in H2'FY25, totaling to 1.5 GW

Development process encompasses **Design, Development, Testing, Manufacturing & Delivery**

TURN-KEY PROJECTS AND ASSET MANAGEMENT

1 **DEVELOPMENT**

+ Project Conceptualization
+ Land Identification, Acquisition & Clearances
+ Project Finance Modelling

2 **EPC**

+ Optimized Designing
+ Quality Engineering
+ Efficient Execution

3 **ASSET MANAGEMENT**

+ Cost Effective O&M Solutions
+ Dedicated Team
+ Timely Reporting

CORE COMPETENCIES & PRINCIPLES

World-Class Facility Complying with Global Standards

Module Brand with a Strong Reputation

Commitment to Social Impact & Upholding Integrity

Excellence in Quality

Fostering Creativity and Advancement

Supporting Collaborative Partnerships

Prioritizing Customer Needs

Promoting Environmental Responsibility

Facilitating Employee Empowerment

GLOBAL FACILITY (1/2)

Current Production Capacity
1.5 GW

Existing Production Line – 700 MW (since Oct'22)
New Production Line – 800 MW (since Mar'25)

Existing Technology:
P-Type Mono PERC

Integration of New Technology:
N-Type TOPcon

Fully Automated and State-of-the-Art Production Facility

Equipped with an **in-house Reliability Test Laboratory** for comprehensive quality assurance

Facility **established since September 2022** and **capacity expanded in March 2025**.

Includes a **high-speed 800 MW manufacturing line tailored for Tapi-R series** (585–625 Wp) using **N-Type rectangular cell technology** -

- Operates **30% faster than conventional lines**, improving throughput and reducing lead times.
- Artificial Intelligence **(AI)** and Automated Optical Inspection **(AOI)** integrated for **enhanced quality control and minimal manual intervention**.
- Features **India's largest chamber laminators** for high-efficiency, single-cycle module production.

1

GLOBAL STANDARDS
Constructed in accordance with global standards, ensuring top-tier quality and efficiency.

2

JOURNEY 2.0
State-of-the-art Solar PV Module manufacturing facility in Surat marks the inception of our transformative Journey 2.0.

3

INDUSTRY 4.0 & BIG DATA
Fully automated factory, embracing Industry 4.0 principles and harnessing the power of Big Data for optimized operations.

4

INFRASTRUCTURE
Equipped with a ready infrastructure for 1.5 GW and gearing towards 15.0 GW in a phased approach.

5

ADVANCED TECHNOLOGY
Manufacturing next-generation modules employing latest technology, ranging from 540 Wp to 750 Wp, with enhanced performance, efficiency, and durability.

GLOBAL FACILITY (2/2)

Employing Best of Practices in the Industry

Lean Manufacturing
Emphasizing waste reduction and ongoing process enhancement for peak efficiency.

Six Sigma
Employing data-driven methods to reduce defects and ensure consistent high product quality.

Total Quality Management (TQM)
Focuses on continual quality enhancement from design to delivery.

Advanced Manufacturing Technologies
Integrating advanced tech like automation, robotics, MES, and AI to boost productivity, flexibility, and responsiveness.

Supply Chain Management
Optimizing supply chains for timely raw material delivery, efficient production scheduling, and effective inventory management.

Environmental Sustainability
Solex plant, powered by clean energy, reduces environmental impact, minimizes waste, and fosters sustainability in manufacturing.

Strategic Partnerships and Collaboration
Partnering with suppliers, customers, and industry peers to innovate, share best practices, and add value throughout the supply chain.

Regulatory Compliance
Maintaining product quality, safety, and ethical practices through industry regulation compliance.

PRODUCTS/SOLUTIONS (1/2)

tapi **Range of Products**

1. **Monofacial**
2. **Bifacial**
3. **Black**
4. **Trans**
5. **Tapi-R** (Latest Addition)

Solar Product Range:

Other Products:
Solar Street Lights

Solar Modules (Up To 750Wp):

Ensuring maximum yield in all weather conditions with outstanding performance in low light and high temperatures.

Demonstrating exceptional stability, verified through rigorous testing for wind and snow loads.

Facilitating independent operation of the upper and lower halves of the module.

Solex has the highest number of modules registered on the Approved List of Models & Manufacturers (ALMM).

Utilizing non-destructive cell cutting technology for enhanced efficiency and longevity.

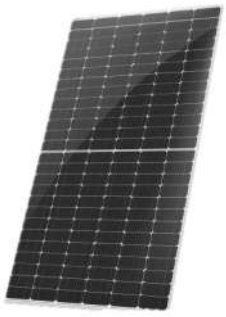
Achieving precision manufacturing without human intervention.

Implementing touchless stringing, bussing, and junction box soldering for seamless production processes.

Supported by a 12-year product warranty and a 30-year performance warranty.

PRODUCTS/SOLUTIONS (2/2)

tapi-R



Next-Gen Solar Module for Utility-Scale Excellence

India's First Rectangular Cell Module Powered by N-Type TopCon Technology

Engineered for Superior Energy Generation and Reliability

High Output Performance
- Up to 625 Wp power output
- 23.14% module efficiency
- Cell size: 182.2 x 210 mm with 132 Half-Cut cells

Optimized for Harsh Environments
- ~80% bifacial rate for higher energy yield
- Excellent thermal performance with power temperature coefficient of -0.28%/°C

Long-Term Durability & Assurance
- 12-year product warranty
- 30-year linear performance guarantee with lowest annual degradation

Weather Resistant

Lower LCOE Higher Savings

Ideal for large Scale Projects

Super Performance & Reliability

RELIABILITY TEST LABORATORY

An **Integral and essential part** of our Expansive Global Facility.

Adhering to the **latest IEC 2021 standards**, surpassing the industry standard of IEC 2016.

Testing adheres to **standards on par with those of renowned laboratories** such as UL, TUV, and others.

Conduct thorough **testing of solar PV modules**, evaluating their performance under extreme temperatures, varying wind speeds, static loads, and other conditions.

Continuous **testing spans 2,500 to 4,000 hours** to ensure durability and reliability.

Our testing protocols aim to guarantee the **sustainability of solar PV modules for a minimum of 30 years**.

Every batch of raw materials undergoes meticulous testing to maintain quality assurance

OFFERING SOLAR INSTALLATIONS & SOLUTIONS

Solar Residential Rooftop

Solar Industrial Rooftop

Solar Power Plant

Solar Water Pumps

Solarizing Commercial Spaces

Solar Car Port

* ABOVE IMAGES ARE FOR THE REPRESENTATION PURPOSE ONLY

OUR RECENT PROJECTS (EPC)

Radhadarshan Petropack LLP **(2.5 MW)**
Ankleshwar, Gujarat

Vatsalaya Paper Industries LLP **(5.0 MW)**
Kukarmunda, Gujarat

Inorbit Mall **(1.17 MW)**
Malad, Maharashtra

Torrent Power Ltd **(3.0 MW)**
Surat, Gujarat

Sonali Dying Pvt Ltd **(2.2 MW)**
Olpad Gujarat

Eminent Paper Industries **(943 KW)**
Hubli, Karnataka

Gagan Silk **(3.0 MW)**
Olpad, Gujarat

Sankalp IN **(1.0 MW)**
Patan, Gujarat

SWOT ASSESSMENT

S

Established Brand
Built a strong reputation in the solar energy industry.

Technological Expertise
Possesses advanced technology and expertise in solar energy solutions.

Diverse Product Range
Offers a diverse range of solar products and services catering to various customer needs.

Strong Market Presence
Significant presence in domestic and international markets.

Robust Supply Chain
Well-developed supply chain ensuring efficient production and distribution.

W

Dependence on Government Policies
Changes in government policies related to renewable energy incentives and subsidies may affect the growth.

Dependence on Suppliers
Operations could be impacted by disruptions in the supply chain.

O

Growing Demand for Renewable Energy
Increasing awareness and demand for renewable energy sources present significant opportunities to expand the market share.

Emerging Markets
Expansion into emerging markets with favorable regulatory environments can drive growth.

Technological Advancements
Leveraging technological innovations can enhance product offerings and efficiency, staying ahead of competitors.

Strategic Partnerships
Collaborating with other companies or governments can open new avenues for business development and expansion.

T

Intense Competition
Competition from both established players and new entrants in the solar energy industry.

Regulatory Changes
Changes in government regulations or policies related to solar energy could impact the company's operations and profitability.

Supply Chain Disruptions
Disruptions in the supply chain due to natural disasters, geopolitical tensions, or other factors could impact production and distribution.

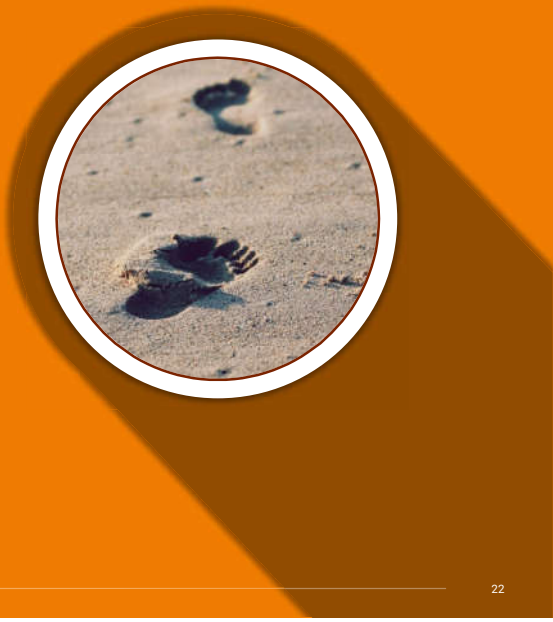
CATERING ACROSS INDUSTRIES

- Government
- Real Estate
- Agriculture
- Manufacturing
- Banking Institutions
- Residential Societies
- Hospitality
- Healthcare
- Educational Institutes
- Transport & logistics
- Media & Entertainment
- Telecom & Communication

CLIENTELE (1/2)

CLIENTELE (2/2)

Way Forward



WAY FORWARD

Implementing Advanced/Latest Technology
"N-Type TOPcon"

Establishing **new facilities equipped** with the latest technology & **upgrading existing facility** to incorporate the latest technological features

Expansion with additional infrastructure
(Reach approximately 4.0 GW Capacity)

Aiming to **reach a total production capacity of ~4.0 GW**, which involves ramping up the Manufacturing Facility with an **additional 2.2 GW** by Q3FY26.

Exploring expansion into cell manufacturing
(For 1.0 GW + 1.0 GW Capacity)

In the exploration phase for a **Solar Cell Manufacturing Line with total 2.0 GW of capacity**.

VISION 2030

Advancing Solar Technology & Scaling Operations

Positioning as a Fully Integrated Solar Company

Key element of Vision 2030 is the launch of the Tapi-R series, featuring N-Type TOPcon Technology and a rectangular cell design.

GROWTH ROADMAP

Expansion of Module Manufacturing Capacity Following the recent capacity expansion to 1.5 GW, plans to increase manufacturing capacity to 15 GW.

Development of New Cell Manufacturing Facility Exploring the development of a new cell manufacturing facility with an initial capacity of 2 GW, designed for scaling up to 5 GW.

Aiming to increase the workforce to over 25,000 to fuel the growth.

Performance Update & Financial Highlights

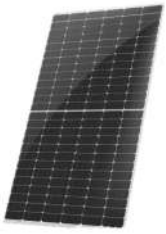
KEY BUSINESS HIGHLIGHTS – H2 & FY25

HIGH-SPEED 800 MW LINE COMMISSIONED WITH ADVANCED AUTOMATION & PRECISION MANUFACTURING

- **Commercial Production (800 MW)** started at Tadkeshwar facility in March 2025, bringing **total capacity to 1.5 GW**.
- Designed for **high-speed, precision-driven production**, fully automated and tailored for mass production of N-Type, rectangular cell Tapi-R series modules.
- Integrates Artificial Intelligence **(AI)** and Automated Optical Inspection **(AOI)**, significantly **enhancing quality control.**
- Features **India's largest chamber laminators**, boosting production throughput.

NEXT-GEN PRODUCT LAUNCH & SCALABLE MANUFACTURING EXPANSION

- Launched **Tapi-R Series** (585–625 Wp, 23.14% efficiency), built with **N-Type TOPCon rectangular cells**.
- **New 2.2 GW Solar Module Line** under commissioning; INR 200 Cr investment to raise capacity to **~4 GW** by Q3 FY26.
- Advanced **AI & AOI-driven automation** with less than 16 sec/module cycle time.



Tapi-R Series

BUSINESS GROWTH & MARKET RECOGNITION

- Achieved **65,000 monthly module production** milestone in Dec 2024.
- Achieved 81% YoY revenue growth in FY25.
- Became **India's 1st PV module manufacturer** with **MCS 005 BSI Kitemark** certification – gateway to UK, Europe, and UAE markets.

MIGRATION TO MAIN BOARD

- Initiated migration from **NSE Emerge to NSE Main Board –** expected to complete by mid CY 2025.
- Reinforces market credibility and positions Solex for broader **investor participation**.

KEY PERFORMANCE HIGHLIGHTS

Total Income From Operations

H2 FY25	FY25
INR 3,917 Mn	INR 6,658 Mn
42.8% YoY ▲	80.9% YoY ▲

EBITDA

H2 FY25	FY25
INR 514 Mn	INR 767 Mn
144.5% YoY ▲	151.5% YoY ▲

EBITDA Margin

H2 FY25	FY25
13.1%	11.5%
+546 bps YoY ▲	+323 bps YoY ▲

PBT

H2 FY25	FY25
INR 395 Mn	INR 567 Mn
287.3% YoY ▲	391.4% YoY ▲

PAT

H2 FY25	FY25
INR 298 Mn	INR 428 Mn
271.9% YoY ▲	389.9% YoY ▲

PAT Margin

H2 FY25	FY25
7.6%	6.4%
+468 bps YoY ▲	+405 bps YoY ▲

Closing Order Book (as on 31st March 2025)

INR 1,756 Mn

Recent Major Order Win (on 5th May, 2025)

INR 4514.1 Mn order secured to **supply 310 MW of N-Type TOPCon 615 Wp Glass-to-Glass (G12R) Modules**.

HALF YEARLY RESULT SUMMARY (CONSOLIDATED)

(INR Mn)

Particulars	H2FY25	H1FY25	H2FY24	YoY%	HoH%	FY25	FY24	YoY%
Revenue from Operations	3,891.3	2,730.9	2,728.9	42.6	42.5	6,622.2	3,659.2	81.0
Other Income	25.2	10.8	13.8	83.2	133.8	36.0	20.9	71.8
Total Income from Operations	**3,916.5**	**2,741.7**	**2,742.6**	42.8	42.8	**6,658.2**	**3,680.2**	80.9
COGS	2,886.5	2,233.3	2,300.8	25.5	29.2	5,119.9	2,979.4	71.8
Employee Benefit Expenses	136.6	91.8	78.0	75.1	48.8	228.4	140.0	63.1
Other Expenses	379.4	163.5	153.5	147.1	132.1	542.8	255.6	112.4
Total Expenditure	**3,402.5**	**2,488.6**	**2,532.3**	34.4	36.7	**5,891.1**	**3,375.1**	74.5
EBITDA*	**514.0**	**253.1**	**210.3**	144.5	103.1	**767.1**	**305.1**	151.5
EBITDA Margin (%)	13.1	9.2	7.7	+546 bps	+389 bps	11.5	8.3	+323 bps
Depreciation	51.6	40.7	43.8	17.7	26.7	92.3	84.6	9.1
EBIT	**462.4**	**212.4**	**166.4**	177.8	117.7	**674.8**	**220.5**	206.1
Interest	67.0	40.7	64.3	4.1	64.4	107.7	105.0	2.5
Profit Before Tax	**395.5**	**171.7**	**102.1**	287.3	130.3	**567.1**	**115.4**	391.4
Tax	97.7	41.5	22.0	343.4	135.2	139.2	28.1	395.9
Profit After Tax	**297.8**	**130.2**	**80.1**	271.9	128.8	**427.9**	**87.3**	389.9
Net Profit Margin (%)	7.6	4.7	2.9	+468 bps	+286 bps	6.4	2.4	+405 bps
Reported Earnings Per Share (Rs)	**26.84**	**15.54**	**10.01**	168.2	72.7	**43.82**	**10.92**	301.3

* EBITDA is computed based on Total Income from Operations.

ANNUAL INCOME STATEMENT (CONSOLIDATED)

(INR Mn)

Particulars	FY22	FY23	FY24	FY25
Revenue from Operations	719.2	1,617.1	3,659.2	6,622.2
Other Income	3.7	26.8	20.9	36.0
Total Income from Operations	**722.9**	**1,643.9**	**3,680.2**	**6,658.2**
COGS	606.1	1,325.8	2,979.4	5,119.9
Employee Benefit Expenses	23.0	66.9	140.0	228.4
Other Expenses	71.6	11.2	255.6	542.8
Total Expenditure	**700.6**	**1,403.9**	**3,375.1**	**5,891.1**
EBITDA*	**22.3**	**240.0**	**305.1**	**767.1**
EBITDA Margin	3.1%	14.6%	8.3%	11.5%
Depreciation	2.5	45.3	84.6	92.3
EBIT	**19.8**	**194.6**	**220.5**	**674.8**
Interest	7.5	56.1	105.0	107.7
Profit Before Tax	**12.3**	**138.5**	**115.4**	**567.1**
Tax	2.4	11.4	28.1	139.2
Profit After Tax	**9.9**	**127.1**	**87.3**	**427.9**
Net Profit Margin	1.4%	7.7%	2.4%	6.4%
Reported Earnings Per Share (Rs)	**1.28**	**3.39**	**10.92**	**43.82**

* EBITDA is computed based on Total Income from Operations.

ANNUAL BALANCE SHEET (CONSOLIDATED)

(INR Mn)

Particulars	FY23	FY24	FY25
EQUITY & LIABILITIES			
Shareholders' Fund	**376.3**	**462.4**	**1,606.3**
Share Capital	80.0	80.0	108.0
Reserves & Surplus	296.3	382.4	1,498.3
Minority Interest	**-**	**-**	**8.9**
Non-Current Liabilities	**487.2**	**506.8**	**723.5**
Long Term Borrowings	447.3	472.0	686.9
Deferred Tax Liabilities (Net)	4.8	12.0	19.3
Long Term Provisions	35.1	22.8	17.2
Current Liabilities	**544.4**	**1,150.4**	**2,463.9**
Short Term Borrowings	212.1	489.6	788.1
Trade Payables	278.2	535.7	916.7
Short Term Provisions	1.1	32.3	136.6
Other Current Liabilities	53.0	92.8	622.6
TOTAL	**1,407.8**	**2,119.6**	**4,802.5**

(INR Mn)

Particulars	FY23	FY24	FY25
ASSETS			
Non-Current Assets	**580.6**	**613.5**	**1,180.9**
Property, Plant & Equipment	544.7	543.3	1,101.3
Intangible Assets	0.8	0.7	3.7
Capital WIP – Tangible Asset	8.4	0.9	16.2
Intangible Assets Under Development	-	2.2	-
Non-Current Investments	8.3	23.8	24.2
Other Non-Current Assets	18.4	42.6	35.4
Current Assets	**827.2**	**1,506.1**	**3,621.6**
Current Investments	-	120.0	-
Inventories	303.8	663.9	1,795.2
Trade Receivables	302.5	466.9	1,161.2
Cash & Cash Equivalents	1.3	1.9	120.5
Short Term Loans & Advances	79.9	46.8	143.7
Other Current Assets	139.6	206.6	401.1
TOTAL	**1,407.8**	**2,119.6**	**4,802.5**

Industry Overview

RENEWABLE ENERGY INDUSTRY (1/2)

India has **limited conventional energy resources** given its extensive population and rapidly growing economy.

Can harness the **huge potential of solar energy** as it receives sunshine for most of the year.

Has vast **potential in the hydropower sector** which is being explored across states, especially in the northeast

India ranks as the **world's 3rd largest energy consuming nation**. The peak power demand in the country stood at 243.27 GW on November 30, 2023.

India holds the **4th position globally in terms of Renewable Energy Installed Capacity**, including Large Hydro. Furthermore, as per REN21 Renewables 2024 Global Status Report, India ranks **4th in Wind Power and 5th in Solar Power capacity**.

Various Sources of Renewable Energy

- Hydro Energy
- Small Hydro Power
- Wind Power
- Bio Power
- Solar Power

India's Vision:

- Committing to achieving 500 GW of non-fossil fuel-based energy by 2030 at COP26, with approximately 60% from Solar Power
- Targeting to meet 50% of energy needs from renewable sources by 2030
- Aiming to reduce total projected carbon emissions by 1 billion tonnes by 2030
- Striving to lower the carbon intensity of the economy by under 45%
- Setting the goal of becoming a net zero carbon country by 2070
- By 2047, aiming for energy independence and to achieve 90% of energy from renewable sources

Source: IBEF, Invest India, ET, Mordor, etc.

RENEWABLE ENERGY INDUSTRY (2/2)

Solar and wind energy currently contribute more than 50% of the total renewable capacity of the country

India & Renewable Energy:

- India's energy demand is expected to increase more than that of any other country in the coming decades due to its sheer size and enormous potential for growth and development.
- India's announcement that it intends to achieve net zero carbon emissions by 2070 and to meet 50% of its electricity needs from renewable sources by 2030 marks a historic point in the global effort to combat climate change.
- India's ambitious renewable energy goals are transforming its power sector. The rising population and widespread electrification in rural homes are fueling the demand for energy to power homes, businesses and communities.

India's renewable energy potential is estimated at 900 GW from commercially exploitable sources

Solar energy: 750 GW

Wind power : 102 GW

Bio-energy: 25 GW

Small Hydro: 20 GW

As of August 2024, Combined installed capacity of renewable energy sources, including large hydropower, amounts to 199.52 GW

Solar Power: 89.43 GW

Wind Power: 47.19 GW

Large Hydro: 46.92 GW

Biomass/Co-generation: 10.35 GW

Small Hydro power: 5.07 GW

Waste to Energy: 0.60 GW

Source: IBEF, Invest India, ET, Mordor, etc.

SOLAR ENERGY INDUSTRY (1/2)

The Indian solar energy market, especially solar panels, is set for substantial growth due to rising energy demand, focused on renewable energy, declining costs & government support.

The Solar Energy Industry in India has seen a significant growth in recent years.

India's strategic location in the solar belt (400 S to 400 N) makes it one of the prime beneficiaries of solar energy, enjoying abundant availability of Sun Light.

From 2025 to 2030

The **India Solar Energy Market** is projected to **grow at a CAGR of 19.80%.**

The solar PV segment is anticipated to lead the market due to decreasing costs of solar modules and their versatility in generating electricity and heating water, resulting in the largest market share.

Module manufacturing capacity is **forecasted to exceed 150 GW**, while cell capacity is **anticipated to reach 75 GW by 2026**, as per Mercom India Research.

Source: IBEF, Invest India, ET, Mordor, etc.

SOLAR ENERGY INDUSTRY (2/2)

India's solar power sector has experienced a **remarkable 3450% growth over the past decade**, expanding from just **2.82 GW in 2014 to 100.33 GW of installed capacity** as of January 31, 2025, with an additional 84.10 GW currently under implementation.

In the first half of 2022 alone, India saved an impressive **US$ 4.2 billion** in fuel costs through solar power generation, effectively avoiding the use of **19.4 million tonnes of coal**.

Supportive Government policies:

- Ministry of New and Renewable Energy is implementing a **₹24,000 crore PLI scheme to boost GW-scale manufacturing of high-efficiency solar PV modules** in India.
- The **Budget 2025** has set the **Basic Customs Duty (BCD) on both solar cells and solar panels at 20%,** effective from **February 2, 2025**.
- From **April 1, 2024,** the Ministry of New and Renewable Energy (MNRE) has reimposed the **Approved List of Models & Manufacturers (ALMM)** for Solar Modules.
- The approval for solar city projects per state and the establishment of **59 solar parks, each with a capacity of 40 GW**, are significant steps towards boosting solar energy adoption nationwide.
- Additionally, the government is promoting **Floating PV Projects**.

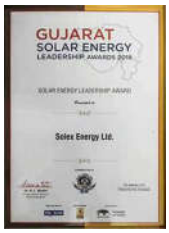
Source: IBEF, Invest India, ET, Mordor

Annexures

AWARDS & ACCOLADES

3rd Renewable Energy Expo 2009

India 500 Best Brand Winner 2021



Gujarat Solar Leadership Award

Asia Energy Tech Expo 2017

NSE Emerge Listing

Imagineers

NSE Emerge

SMERA NSE 1 Credit Rating

3rd Energy Tech Exhibition 2016

CERTIFICATIONS

R-72008125

IS 14286: 2010
IS/IEC 61730-1: 2004
IS/IEC 61730-2: 2004

E531180
UL 61730-1 & 2 : 2017
Safety Qualification

ISO – 9001:2015
ISO – 14001:2015
OHSAS – 45001:2018

California
CEC 300 : 2018

IEC 61215-1 & 2 : 2016
IEC 61730-1 & 2 : 2016
IEC 61701 : 2020
IEC 62804 : 2015
IEC 61853-1 & 2 : 2016
IEC 60068-2-68 : 1994
IEC 62716 : 2013
IEC 60904-1
IEC TS 63342 : 2022
IEC 61215-2 (MQT 08, 19.1)

CE

ALMM

MCS CERTIFIED

SOLEX
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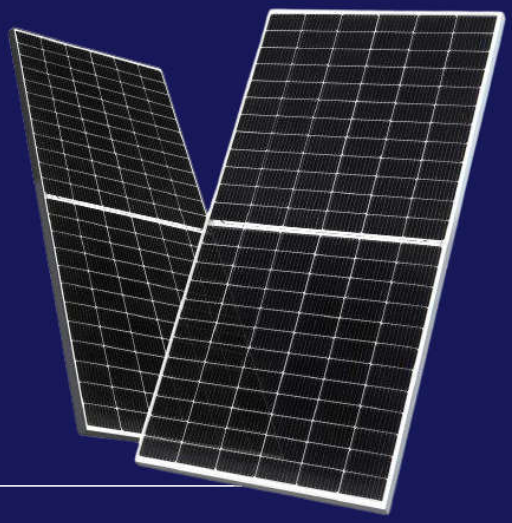

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