## Transforming Glass for a Better Tomorrow



INVESTOR PRESENTATION Q2FY25

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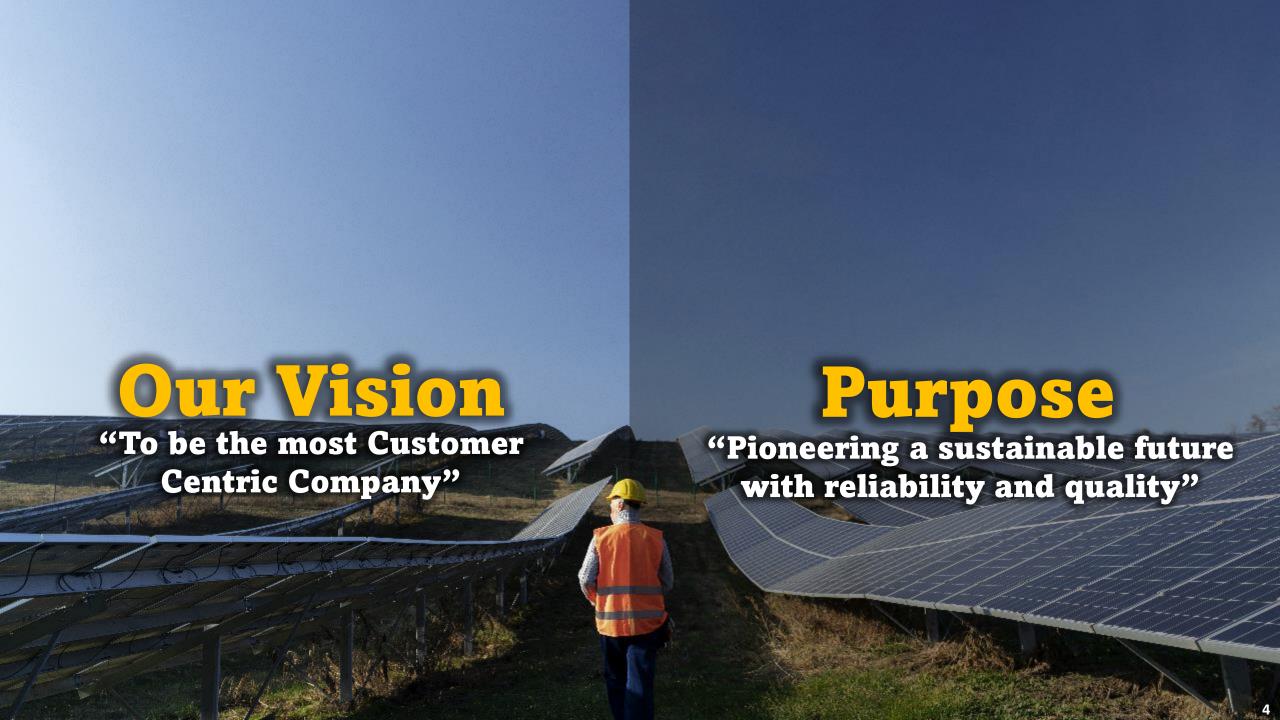
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# Our Group-



## More than 60 Years of Excellence



<sup>\*</sup>As on 11th Nov 2024 - NSE

<sup>\*\*</sup>Includes 350 TPD (2GW) capacity of German Subsidiary





	Standalone Profit & Loss Snapshot							
				YoY	QoQ			
Particulars (₹ Crs)	Q2FY25	Q1FY25	Q2FY24	Change%	Change%	H1FY25	H1FY24	FY24
Revenue	264.94	241.40	280.17	-5%	10%	506.34	517.99	985.87
EBITDA	52.88	29.71	26.60	99%	78%	82.59	83.12	118.93
EBITDA %	20.0%	12.3%	9.5%	110%	62%	16.3%	16.0%	12.1%
Interest	7.61	6.17	7.76	2%	-23%	13.78	15.21	26.23
Depreciation	27.82	28.54	25.74	-8%	3%	56.36	56.33	114.04
PBT	17.45	-4.99	-6.90	353%	449%	12.46	11.58	-21.34
PAT	12.62	-3.64	-5.80	318%	446%	8.98	7.88	-16.52

## Standalone Q2/H1 FY25



#### Key highlights of Standalone Quarterly Results

- ❖ Overall, the Company's performance has shown improvement compared to the immediately preceding quarter. The Total sales during Q2FY25 grew by 9.75%, inching upto INR 264.94 cr from INR 241.40 Cr in the preceding quarter. The improvement in the EBITDA performance was greater, with INR 52.88 Cr representing 20% up from 12.3% in the previous quarter. This improvement was driven by an increase in production efficiencies and a rise in ocean freight for imports which allowed us to charge higher selling prices.
- ❖ Export sales, including those to SEZ customers, amounting to INR 34.39 Cr in Q2FY25, accounted for 13% of the turnover, compared to INR 22.42 Cr in the preceding quarter when exports made up 9.3% of turnover.
- The company achieved a Profit after tax of **INR 12.62 Cr** in Q2FY25, compared to a post-tax loss **of INR 3.64 Cr** in the preceding quarter.

## Consolidated Q2/H1FY25 P&L-



	Consolidated Profit & Loss Snapshot							
				YoY	QoQ			
Particulars (₹ Crs)	Q2FY25	Q1FY25	Q2FY24	Change%	Change%	H1FY25	H1FY24	FY24
Revenue	372.42	370.79	401.66	-7%	0%	743.21	756.16	1,369.28
EBITDA	34.57	25.91	37.14	-7%	33%	60.48	71.58	74.85
EBITDA %	9.3%	7.0%	9.2%	0%	33%	8.1%	9.5%	5.5%
Interest	9.64	7.29	9.61	0%	-32%	16.93	18.62	29.22
Depreciation	33.30	33.95	30.97	-8%	2%	67.25	63.39	131.72
PBT	-8.38	-15.32	-3.43	-144%	45%	-23.70	-10.43	-86.09
PAT	-13.13	-14.24	30.47	-143%	8%	-27.37	18.94	-50.27

❖ The consolidated net revenue for the quarter under review stands at INR 372.42 Crs and EBIDTA of INR 34.57 Crs as compared to net revenue of INR 370.79 Crs and EBITDA of INR 25.91 Crs in the preceding quarter. The improvement visible here has arisen from the better results of our Indian operations.

# **Proposed Fund Raise Status**-



- The Company on 10th June 2024 had filed a draft letter of offer (DLOF) to SEBI to raise funds upto **INR 450 Crs** by a Rights Issue of equity shares.
- The proceeds are proposed to be utilized mainly to reduce the debt for the Indian operations as well as at the overseas operating subsidiary.
- The Company has received in-principal approvals for Rights Issue, from the BSE Limited and the National Stock Exchange of India Limited.
- The Company has also received final observations from SEBI and is now in the process of filing the updated draft letter
  of offer.
- The detailed terms of the Rights Issue including but not limited to the issue price, rights entitlement ratio, record date and timing will be determined by the Board or its duly authorized committee, in accordance with applicable laws.

## INDUSTRY UPDATES-



#### UPDATES ON REGULATORY AND POLICY FRONT AND OTHER ANALYSIS

- The Ministry of Finance (MoF) have imposed Basic Customs Duty (BCD) on imports of solar glass (10%) effective from 1st October 2024. This will provide some support in the selling prices and encourage domestic manufacturing of solar glass in India.
- The Ministry of Commerce & Industry has on 5th November 2024 recommended levy of Provisional anti-dumping duty on imports of Solar glass from China and Vietnam. The matter is now with Ministry of Finance. This once implemented will provide substantial relief to the domestic solar glass industry.

#### FALL OF PRICES ACROSS SOLAR MODULE VALUE CHAIN GLOBALLY

- The price of solar-grade silicon dropped by 80% in a little more than a year, and the cost of modules has continued to fall, hitting a record 9 cents per watt on Oct 31st, 2024 (ref: PV Infolink).
- Exporters from China/Vietnam have slashed the Solar glass FOB prices by as much as 32% between June and September bringing the domestic prices to unsustainable levels and endangering the survival.

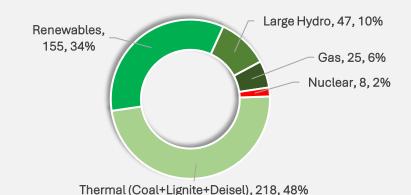
#### POLITICAL SUPPORT IN EUROPE TO STRENGTHEN THE EUROPEAN PHOTOVOLTAIC INDUSTRY

- The European Parliament on 25th April 2024, adopted the Net Zero Industry Act (NZIA), a regulation for mandatory non-price resilience and sustainability criteria to be applied in public procurements, auctions, and other forms of public intervention for net-zero products
- While some of the countries e.g. the Austria, Italy, Poland and Portugal have introduced a 'made in Europe' subsidy bonus for European photovoltaic components to subsidize any fresh investment, the major economies i.e. Germany and France where the most of manufacturing as happening, have yet to take any concrete steps.

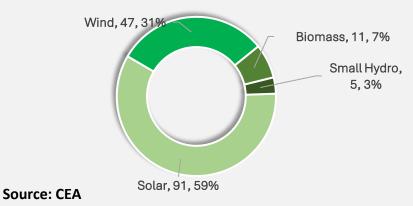
# Increasing Share of \_\_\_\_\_\_\_ Solar in Rising Renewables



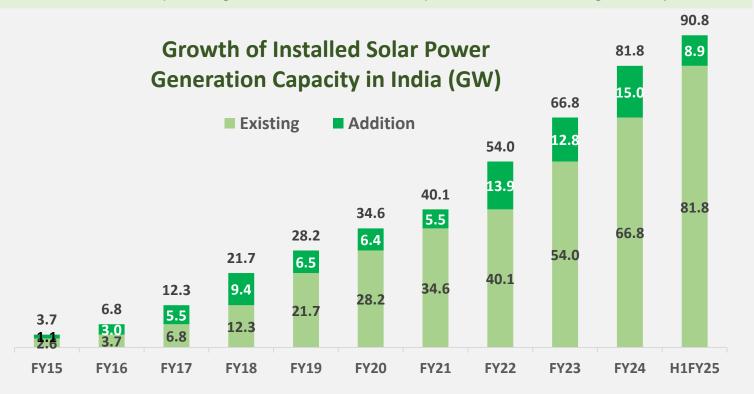
## Total Installed Power Generation Capacity in India 453 GW as of Sep'24 (in GW)



Renewable Power Generation capacity in India ~155 GW as of Sep'24 (in GW)

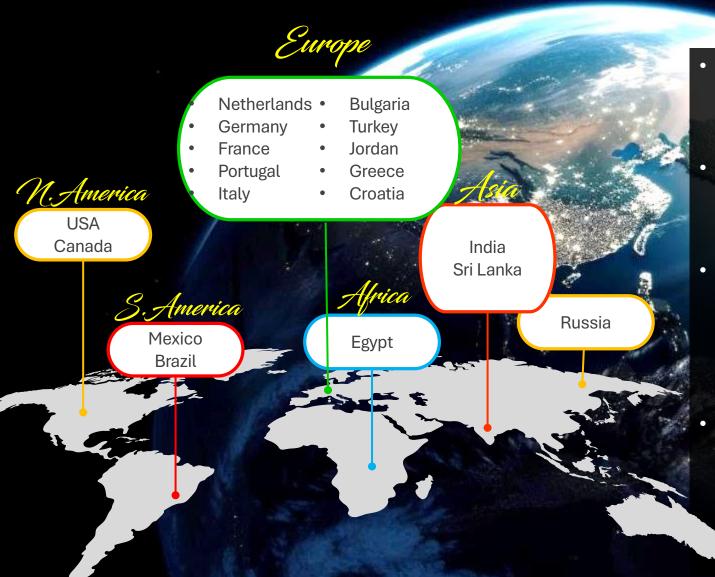


- ➤ Out of total installed power generation capacity of ~453 GW as of Q2 FY25 in India, the share of renewables has reached 34% (~155 GW). The share of solar (91 GW) has further increased to about 59% of the renewable capacity.
- > The target for solar has since been raised to install 280 GW by 2030 indicating a huge potential.
- FY24 has witnessed the highest ever annual solar installations **of 15 GW**. With clarity on ALMM, hike in the module manufacturing capacity, low prices of solar cells/modules, and strong focus on renewables, the pace of growth in installations is expected to accelerate significantly.



# Our Worldwide Presence.





- A global presence with products matching international standards and quality requirements, with over 18.45% of revenue coming from exports.
- The largest manufacturer of solar glass in India, offering lower lead times and flexible order quantities, supplying over 100 domestic customers.
- The majority of international customers are based in Western Europe and Turkey. The company has expanded its outreach to geographies such as the Americas and MENA while nurturing and growing existing markets and adding new customers.
- There is a huge export opportunity in Europe, the USA, and Turkey due to the preference for local production of modules in these countries.

New segments being developed include glass for greenhouses and Building-Integrated Photovoltaics (BIPV).

# Our Capacity (TPD)





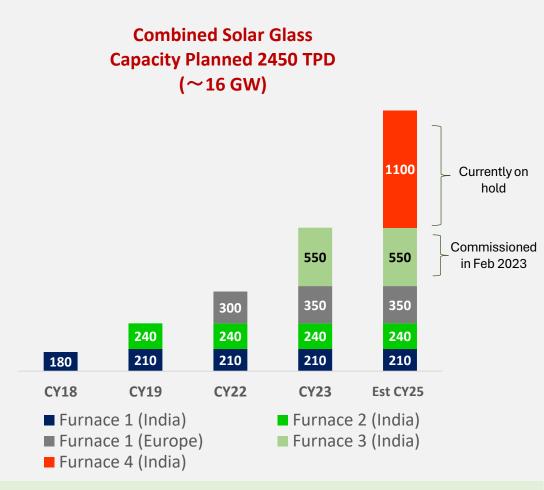
# Capacity Planning.



	CY18	CY 20	CY 22	CY 23 & 24	Est CY 25
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180 TPD	450 TPD	750 TPD	1350 TPD	2450 TPD
	Rebuilt 1st furnace with enhanced capacity of 210 tons/day	Acquired Interfloat Group the largest solar glass manufacturer in Europe with a capacity of 300 TPD	Addition of 3 <sup>rd</sup> furnace with a capacity of 550 TPD during Q1 of CY23.  Furnace in Europe was rebuild to a higher capacity of	The proposed addition of a 4th furnace with a capacity of 1,100 tones/ day in CY25.
	furnace with 240 tons/day capacity  Running at full capacity		350 TPD during Q2 of CY23	On hold. The final decision will be taken in due course and revised schedule will be updated

#### **Combined Installed Capacity (TPD)-Projected**

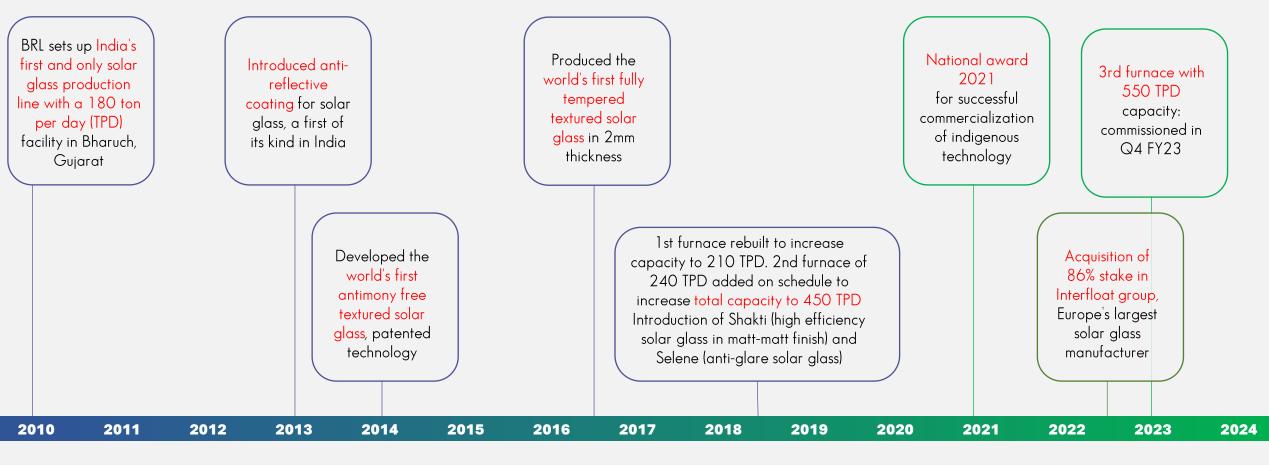


Solar glass demand outlook is positive looking at the growth in module manufacturing. The expansion plan is currently on hold and a decision will be taken after imposition of Anti dumping duty on imports of solar glass.

## **Our Growth**



# BRL's journey has been marked with innovation and firsts in the industry...



## **OUR USP**—



### **HIGHER TRANSMISSION**

#### **ENGINEERED FOR LONG TERM DURABILITY**

- Low sodium. Low PID (Potential Induced Degradation)
- High chemical durability: superior glass performance
- Very High hydrolytic resistance

#### **ENHANCED MECHANICAL STRENGTH**

- Withstood > 180 Mpa, (Standard 90 Mpa as per EN 12150-1)
- 2 x more strength than heat-strengthened glass
- 4 x more strength than annealed glass

#### TEMPERED GLASS IS SAFER AND STRONGER

- Tempered glass has a breakage of small particles
- Much safer than the large & sharp pieces resulting from broken heat strengthen glass





Normal heat strengthen glass



Borosil's fully tempered glass

Light transmission: Solar glass of leading suppliers	
92.4% 91.9% 91.4% 90.9% 90.4% 88.9% 88.4% 88.9% 88.4% 87.4%	18 16 14 12 1 18 10 10 10 10 10 10 10 10 10 10 10 10 10
380 580 780 980 1180 1380 1580 1780 1980 2180 2380 Wavelength (nm)	
—Borosil —Company X —Company H —Company Y AM 1.5 (W*m-2*nm	-1)

Wavelength range (nm)						
Supplier	380-780	380-1100	380-2500			
BOROSIL	91.76%	91.68%	91.31%			
Company X	91.73%	91.51%	91.00%			
Company H	91.74%	91.58%	91.08%			
company Y	91.41%	91.39%	91.18%			

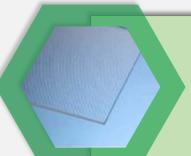
## **OUR INNOVATIONS**-



#### **INNOVATIONS: NEW PRODUCTS**



First solar glass manufacturer to have successfully produced without using Antimony (a harmful chemical) in its textured solar glass production and has a patent

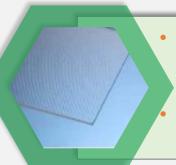


- Matt finish on both sides
- Meeting specific customer requirements



Anti-glare solar glass for PV projects near airports
Prevents glare from interfering with the pilot's vision

#### **UPGRADING EXISTING PRODUCT LINES**



- Flagship product with low PID, high mechanical strength, and chemical durability
  - Have developed lowest iron content solar glass



World's 1st fully tempered 2mm solar glass
 Poised to capture industry trends and result in cost efficiency for customers



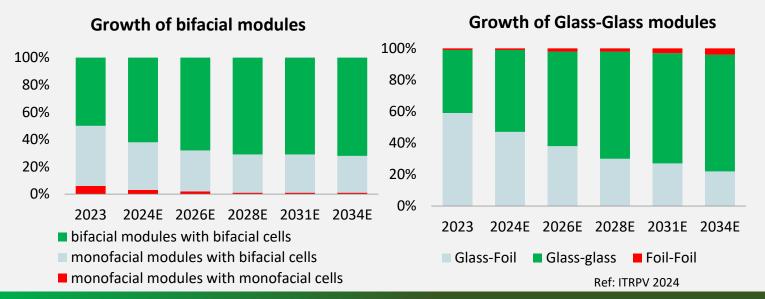
Use of world-class anti-soiling (ASC) and anti-reflective coating (ARC) Leads to direct performance improvement and indirect maintenance savings

## CONSTANT EVOLUTION



Products designed to align with changing demands and emerging needs

Solar PV market is moving towards use of bifacial modules and glass-glass modules which has accelerated the use of thinner solar glass to optimize module weight. This shift will significantly increase the overall usage of solar glass





#### BRL manufactures 2mm textured solar glass with proven product quality



## **Growth Drivers**



#### **National Solar Mission**

Targets of **280 GW** installed solar capacity to be achieved by 2030. Need annual solar installations of 30 +GW to achieve the target

#### **SECI/IREDA Tenders**

Tenders by SECI /IREDA for large ISTS connected projects assuring offtake and payment security to the project developers

#### **PM Suryaghar Yojana**

This scheme aims to provide rooftop solar power systems to one crore households across the country expecting to add 10 GW of capacity.

#### **Kusum Program**

The Union Budget 2018–19 has allocated a total of Rs. 48,000 crores over the following ten years for this effort. The government has extended PM-KUSUM scheme till March 2026 as its implementation was significantly affected due to the pandemic.

#### **PLI Scheme**

Total Production Linked Incentive (PLI) granted in two tranches is about Rs. 18,500 Cr. This will propel domestic manufacturing of high efficiency solar modules and solar cells with further backward integration to create a robust eco system to ensure a robust supply chain for high growth.

#### **Demand for RTC Renewable Power**

Upcoming Hybrid (Wind+Solar) tenders and falling prices of storage batteries are expected to drive demand for solar power

#### **CPSU Program**

**12 GW** of Solar Projects proposed for Captive Power Consumption (2019 - 2023) with domestic content requirement for Solar Cells and Modules to boost Domestic Manufacturing. **5 GW** capacity awarded recently to CPSUs.

#### **National Tariff Policy**

Enforcing the Renewable Purchase Obligation targets to promote constant growth of Solar Energy

#### **Solarization of Railways**

500 MW of Rooftop Generation Capacity by 2022 and 20 GW of Land Capacity to be installed by 2030 for self sustenance



# Indian Solar PV Manufacturing



- India has a solar module manufacturing capacity of around 75 GW currently and projected to reach 150 GW in the next 2
  years as new capacities are expected to be added by various existing and new players.
- In H1FY25, the solar installations were higher at about **8.9 GW as against 4.96 GW in H1FY24**. This brings the overall solar installations to about **91 GW** today, on the way to achieve the target of **280 GW** by 2030 .
- We expect that the pace of solar installations will accelerate much quickly in view of robust demand, order pipeline and very economic cost.
- The share of domestically produced modules is rising as the Approved List of Models and Manufacturers (ALMM) is enforced from 1st April 2024. On the other hand, there has been a further significant drop in the prices of imported modules over last 2 quarters due to excess capacity in China.
- The rise in domestic manufacturing is leading to a much higher demand for components in India including solar glass.

# On the Cusp of Surge in Manufacturing

## **Product Portfolio**



#### **MARKET SEGMENTS**

- · High-Performance Solar Glass for
- · Utility-scale ground solar PV
- High-Performance Green House
- Solar Rooftop
- · Bifacial, Glass-glass, BIPV
- Solar Thermal projects

#### **CUSTOMIZED SIZES**

- Glass for 96/72/60 cells module (and other sizes specified by the customer)
- Capable to make larger sizes
- SAM Glass: Glass for Small Area Modules

#### **GLASS COMPOSITION**

- Borosil Solar Glass with low Antimony content
- NoSbEra: Borosil Solar Glass without Antimony



## ADDITION OF VALUE ADDED PRODUCTS

- Shakti / Clear : High Efficiency Matt Matt Finish
- Selene / Deflect : Anti-Glare Solar Glass
- GMB Vetrasol: For Greenhouses

## GLASS IN VARIOUS THICKNESSES

- 2 mm
- 3.2 mm
- 2.5 mm
- 4 mm
- 2.8 mm

### SOLAR GLASS WITH COATINGS

- Anti Reflective Coatings (AR)
- High Transmission AR Coating (HTAR)
- Anti Soiling Coatings (AS)
- AR + AS coatings

## **Eco-Conscious Innovators**-





- Efficient and cost-effective, low energy intensive process
- A Life Cycle Assessment carried out by a reputed European institute indicated that the company maintained a 22% lower carbon footprint in comparison with the default value for glass manufacturing.
- Use of low-cost renewable energy: Own 1.5 MW of wind farm and investment in 10 MW Wind-Solar Hybrid power plant which is commissioned in May'23. 27% of the total electricity consumption is met through the renewable sources installed for captive consumption.
- Further exploring additional investment to procure renewable power under open access.



 World's 1st company to develop a process to remove a toxic element Antimony (Sb) from textured solar glass (Patented technology)



 Use of reusable packing material thereby saving cutting of trees



- Received a patent to use the waste materials as a part of raw material
- Bag filters For fine dust control
- Close loop water circuit system- For water treatment and reuse of water
- Installed sewage treatment plant

# ESG Journey



ESG is outcome-driven and not just good intentions.



	Environment	Social	Governance
Investors	<ul><li> Emissions</li><li> Water</li><li> Energy</li><li> Climate change</li></ul>	<ul> <li>Employee health and safety</li> <li>Community relations</li> <li>Labour practices</li> </ul>	<ul><li>Risk management system</li><li>Code of conduct</li></ul>
Customers	<ul><li>Emissions</li><li>Water</li><li>Energy</li><li>Climate change</li><li>Waste</li></ul>	<ul><li>Health and safety</li><li>Community relation</li></ul>	<ul><li>Risk management</li><li>Code of conduct</li></ul>
Suppliers	<ul><li>Emissions</li><li>Water</li><li>Energy</li></ul>	<ul><li>Employee health &amp; safety</li><li>customer relationship</li></ul>	<ul><li>Board Structure</li><li>Code of conduct</li></ul>
Employees	<ul><li>Emissions</li><li>Water</li><li>Energy</li></ul>	<ul><li>Employee health &amp; safety</li><li>Community relationship</li></ul>	<ul><li>Risk management</li><li>Code of conduct</li></ul>

What matters to our stakeholders: Analysis based on our interactions with them

Various important ESG issues in the current context

# **ESG Journey**



#### **Our strategic ESG priorities**

- Aim to achieve Carbon neutral operations
- Explore waste management opportunities
- Transition to low carbon energy
- Become an equal-opportunity employer
- Integrate suppliers as business partners
- Building resilient communities
- Focusing on highest ethical standards
- Creating a risk management framework
- Creating a strong IT infrastructure
- Enhancing transparency & fairness





Robust governance



#### **Our Actions**

- ESG target disclosures and dedicated dashboard to track emissions.
- Increase the ratio of sales in reusable packaging material and explore further opportunities.
- 27% total electricity from renewable sources.
   With further efforts to increase this share.
- Company-wide strategic supply chain management program launched
- Multiple community development programs launched on a need basis
- A group-wide code of conduct applicable to all employees and leadership.
- ESG risks are incorporated in the risk management framework.
- A group-wide program on the evaluation of IT risks
- Establishing Ombudsman to address grievances.

BRL aims to disclose quantifiable targets in short to medium term and transparently report performance against the targets.

# Awards & Accolades





Mr. P. K. Kheruka received prestigious EY entrepreneur of the year award in a category-2023



Great Place to Work Mar 22 to Mar-23



Top Exporter Award from CAPEXIL for FY21-22



17th FGI AWARDS for EXCELLENCE in the category of "Outstanding Entrepreneur" in 2022



National Award

By Dept. of Science and Technology,

Govt. of India



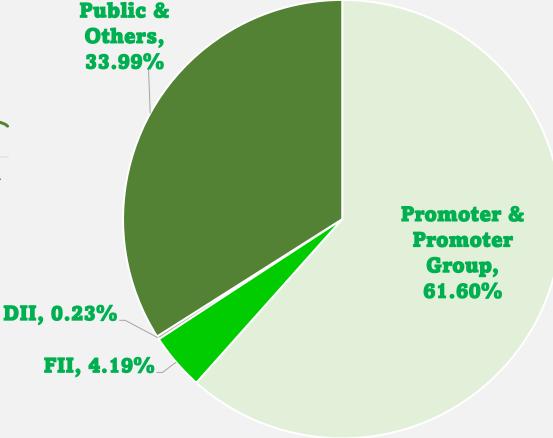
AIGMFs
Balkrishna Gupta Award for
Exports for FY21

# **Shareholding Pattern-**









₹6535<sub>cr</sub>
Market Cap

NSE: as on 11th Nov 2024

As on 30th Sep 2024

## **Board Of Directors**





Industrialist having Rich experience in the Glass Industry



Mr Shreevar Kheruka Vice Chairman

Also the Managing Director and CEO of Borosil Limited with more than 17 years Corporate experience.



Mr Pradeep Bhide

Independent Director

He is an I.A.S. (Retd.) and has a career spanning 40 years in the Indian Administrative Service

**Mr P.K. Kheruka** *Executive Chairman* 



Mr Ashok Jain
Whole-Time Director

42 years in Corporate Sector – Finance, Commercial, Sales and General Management.



Mr Raj Kumar Jain Independent Director

Wide experience in Statutory Audit, Concurrent Audit, Revenue Audit, Stock Audit and has specialization in Investigation Audit.



Mr Asif Ibrahim
Independent Director

Former Director of the Intelligence Bureau, the main internal intelligence agency of India.



Mr Sunil Roongta
Whole-Time Director
& CFO

With over 32 years of experience in senior finance roles with extensive expertise in Finance, Accounting, Audit, Taxation, and Business Strategy.



Mrs Shalini Kamath Independent Director

Three decades of work
experience in three distinct
fields – Human Resources,
Business Development and
Social & Community
Development.



Mr Haigreve Khaitan Independent Director

Partner of Khaitan & Co. and also heads the firms Merger and Acquisition Division

# **Key Abbreviations**

INR

IΡ

kWp

mm

Mn

MT

MW

N.A.

NAPCC

NSM

OEE

**MNRE** 

: Millimetre

: Metric Tons

: Megawatt

: Not Available

: National Solar Mission

: Overall Equipment Effectiveness

: Million



**ADD** : Anti-dumping Duty

**ARC** : Anti-Reflective Coating

**AS** : Anti-soiling

BCD : Basic Custom Duty

BRL : Borosil Renewables Limited

**CAGR** : Compounded Annual Growth Rate

Capex : Capital Expenditure

**CAR** : Corrective Action Request

**CEA** : Central Electricity Authority

**CP** : Consumer Product

**CPSU**: Central Public Sector Undertakings

**CSR** : Corporate Social Responsibility

**CVD** : Countervailing Duties

**DGTR** : Directorate General of Trade Remedies

**EBITDA** : Earnings before interest, tax, depreciation and

· amortization

**EU** : European Union

**EVA** : Ethylene Vinyl Acetate

FY : Financial Year ending 31st March

**GW** : Gigawatt

**GWh** : Gigawatt-hour PA : Per Annum

: Indian Rupee PAT : Profit after tax

: Intellectual Property PBT : Profit before tax

IPO : Initial Public Offering PID : Potential Induced Degradation

IPP : Independent Power Producers PLF : Plant Load Factor

JNNSM : Jawaharlal Nehru National Solar Mission PPA : Power Purchase Agreement

**KUSUM** : Kisan Urja Suraksha evam Utthan Mahabhiyan PPM : Parts Per Million

: Ministry of New and Renewable Energy

National Action Plan on Climate Change

**KWh** : Kilowatt Hour

REC : Renewable Energy Certificate : Kilo Watt peak

**ROCE**: Return on capital employed

**RPO**: Renewable Power Obligation

**SECI** : Solar Energy Corporation of India

**SEZ** : Special Economic Zone

SG#1 : Solar Glass plant 1

SG#2 : Solar Glass plant 2

SG#3 : Solar Glass plant 3

SG#4 : Solar Glass plant 4

**SGD**: Safeguard Duty

SIP : Scientific and Industrial Products

**TPD** Ton per Day

