

# PLANET POSITIVE

JSW Energy places paramount importance on addressing climate change, recognising its significance in safeguarding business interests and communities' resilience. The company's climate philosophy permeates every facet of its operations, drawing keen attention from stakeholders who understand the urgency of action. As a key contributor to the economy and society, JSW Energy assumes responsibility and pledges to act decisively. Embracing partnerships and individual efforts, the company commits to preserving the delicate balance of ecosystems. Through collaborative initiatives and sustainable practices, JSW Energy strives to champion climate resilience and contribute to a greener, more sustainable future. With a steadfast commitment to environmental stewardship, JSW Energy stands as a beacon of responsible corporate citizenship, leading the charge towards a climate-resilient world.

At the forefront of environmental stewardship, JSW Energy diligently tackles global ecological challenges. Through robust monitoring and management systems, it addresses pivotal issues such as climate change, water conservation, emissions reduction, waste management, and biodiversity preservation. These efforts are guided by key performance indicators (KPIs), facilitating ongoing evaluation and strategic refinement to achieve long-term targets. As a key player in the global energy landscape, JSW Energy sets the bar high with its commitment to substantial carbon reduction initiatives spanning its entire operational spectrum. Embracing a proactive stance, the Company identifies and mitigates climate risks, aiming to fortify business assets and foster resilient communities. With a bold pledge to attain Net-Zero status by 2050, JSW Energy champions transformative initiatives like Paris Agreement 2015, the Global Framework for Decarbonising Heavy Industries, and the UN Energy Compact. By aligning with global standards and frameworks, including the UN Global Compact, the organisation enhances its sustainability

footprint, fostering continuous growth and progress towards a greener future. In FY 2024, as per the annual sustainability plan, the company has completed its TCFD phase – 1 assessments, Biodiversity assessments, Human Rights Due diligence of targeted plant locations and Digital monitoring enhancement of Sustainability KPI & other parameters. A focussed

Sustainability plan for FY 2025 has also been prepared & budgeted which will effectively be carried out. Through comprehensive Climate Risk Assessments and Biodiversity Risk studies, JSW Energy ensures a holistic approach to environmental stewardship, earning recognition for its unwavering commitment to combating climate change.



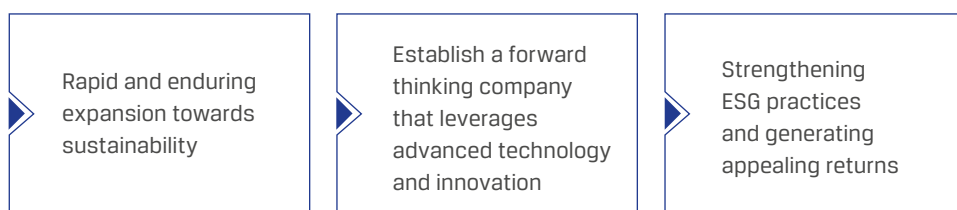
Power Plant, Ratnagiri



## CDP Performance

The company's strong commitment to the environment shines through its recent achievement of an 'A-' leadership band rating in the CDP Climate Change Disclosures. As the only energy company in India to receive such recognition, this highlights its dedication to fighting climate change on a global scale. Additionally, in its first submission, the company earned a respectable 'B' rating for Water Security, marking a promising start in this area. These accomplishments reflect the company's proactive approach to sustainability and inspire continued efforts towards environmental conservation.

## Key Business Prerogatives



## Environmental Stewardship Policies

JSW Energy is committed to environmental stewardship, integrating sustainable practices into every aspect of its operations. With a focus on reducing carbon emissions, conserving water, and

minimising waste, the Company implements robust policies to mitigate its environmental impact. By investing in renewable energy sources, adopting eco-friendly technologies, and adhering to stringent regulatory standards, JSW Energy strives to preserve

natural resources and promote ecological sustainability. Through ongoing monitoring, assessment, and improvement initiatives, the Company aims to continuously enhance its environmental performance and contribute positively to the planet's well-being.



## Performance Against Targets

		Actuals			Target	Status
Env Parameter	KPI	FY 2022	FY 2023	FY 2024	FY 2030	
<b>Climate Change</b>	GHG Emissions (Scope 1+2) - tCO <sub>2</sub> e/MWh	0.68	0.685	0.62	0.215	▲ Under Progress
<b>Water Security</b>	Sp. Freshwater consumption (m <sub>3</sub> /MWh)	1.11	1.116	0.95	0.591	▲ Under Progress
<b>Waste</b>	Waste - Ash Utilisation (%)	96.90%	100%	100%	100%	● Achieved
<b>Air Emissions</b>	Sp. PM (Kg/MWh)	0.14	0.12	0.106	0.053	▲ Under Progress
	Sp. SOx (Kg / MWh)	1.52	1.24	1.18	0.683	▲ Under Progress
	Sp. NOx (Kg/MWh)	0.81	0.7	0.64	0.373	▲ Under Progress
<b>Biodiversity</b>	Biodiversity at our Operating sites	Biodiversity Eco-systems study initiated at Barmer plant	Biodiversity Eco-systems study in progress at 5 plant/ project locations. Completed at Barmer.	Implementation of Biodiversity Management plan at Barmer Plant and one season Biodiversity study completed at Ratnagiri Plant	Achieve No-Net loss of Bio-diversity	▲ Under Progress

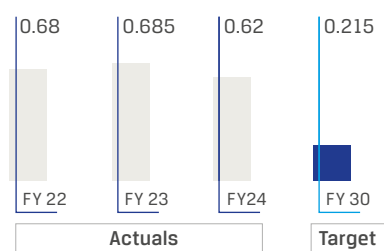
▲ Under Progress ● Achieved

## Graphical Representation of the Key Performance Indicators

### Climate Change

#### GHG Emissions (Scope 1 + 2)

tCO<sub>2</sub>e/MWh

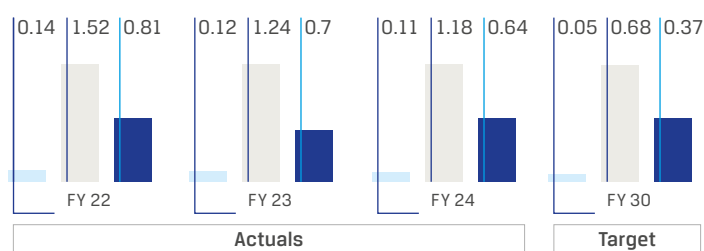


■ Climate Change GHG Emissions  
■ Climate Change (Scope 1+2) - tCO<sub>2</sub>e/MWh  
FY30 Target = 0.215 is aligned with SBTi

### Air Emissions

#### PM, SOx, NOx

(%)

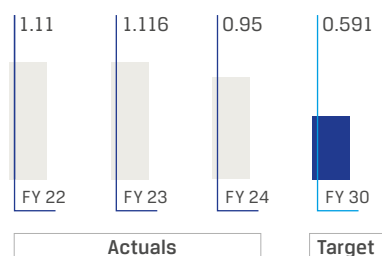


■ Air Emissions PM (Kg/MWh) ■ Air Emissions SOx (Kg/MWh)  
■ Air Emissions NOx (Kg/MWh)

### Water Security

#### Sp. Freshwater consumption

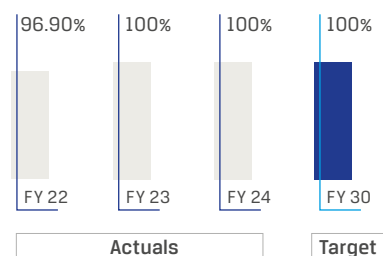
(m<sup>3</sup>/MWh)



### Waste (Non-hazardous)

#### Ash Utilisation

(%)





# Climate Change

## Climate Strategy – Striving for Deeper Decarbonisation

### Key Highlights

Increased share of RE for decarbonisation - Total RE operational capacity increases from 3,406 MW (Q4 FY 2023) to 3,737 MW (Q4 FY 2024)

TCFD – Identified associated short-term, medium-term and long-term risks

Overall 25.7% GHG emissions target achieved wrt 2030 target

### Strategic Approach

JSW Energy is dedicated to making sustainable development a reality through its innovative initiatives and practices. As a major player in the energy sector, the Company understands its crucial role in moving towards a low-carbon economy and supporting India's Net-Zero goals. To achieve this, JSW Energy focusses on building robust infrastructure and integrating plans to reduce greenhouse gas emissions and adapt to climate change impacts.

One key aspect of JSW Energy's strategy is to diversify its energy resources by exploring and investing in renewable energy sources like wind and solar power. By expanding its renewable energy portfolio, JSW Energy aims to increase its operational capacity to 20 gigawatts (GW) by the fiscal year 2030. This ambitious goal positions the company as a leader in renewable energy technologies and contributes significantly to India's clean energy transition.

Recognising the urgent need to address climate change, JSW Energy conducts detailed studies to understand the potential risks and impacts on its business operations. These studies help the company identify vulnerabilities and develop strategic plans to ensure resilience under various

climate scenarios. By proactively managing climate-related risks, JSW Energy aims to safeguard its business continuity and long-term sustainability.

At the governance level, JSW Energy takes climate change seriously. The company's Board of Directors oversees all climate-related issues, ensuring that climate considerations are integrated into decision-making processes. Additionally, a dedicated Sustainability Committee coordinates actions at the plant level to implement effective management plans. This

collaborative approach ensures that climate change mitigation and adaptation measures are prioritised across the organisation.

JSW Energy has already made significant progress in reducing its carbon emissions. Compared to the baseline year of 2020, the company has achieved a commendable 25.7% of the total emission reduction target of 2030. This achievement demonstrates JSW Energy's commitment to combating climate change and reducing its environmental footprint.



Control Room, Solar Plant, Telangana



# Target:

## Reduce Our Carbon Emissions by More Than 50% (Baseline 2020) By 2030

### SDGs Impacted



### GHG Emissions

JSW Energy is committed to managing its greenhouse gas (GHG) emissions effectively. Through rigorous monitoring and mitigation efforts, the company strives to minimise its carbon footprint across all operations. Adopting innovative technologies and best practices, JSW Energy aims to reduce GHG emissions while ensuring operational efficiency and sustainability. By setting ambitious targets and implementing comprehensive strategies, the company demonstrates its dedication to combating climate change and transitioning towards a low-carbon future.



— Solar Plant, Telangana

### GHG Emissions Intensity (tCO<sub>2</sub>/MWh)

<b>0.68</b>	<b>0.68</b>	<b>0.685</b>	<b>0.62</b>
FY 2021	FY 2022	FY 2023	FY 2024



Scope 1 (tCO <sub>2</sub> e)*	Scope 2 (tCO <sub>2</sub> e)*	Scope 3 (tCO <sub>2</sub> e)*
1,85,24,364 FY 2024	36,578 FY 2024	17,88,822 FY 2024
1,60,62,496 FY 2023	26,293 FY 2023	16,34,697 FY 2023
1,50,86,661 FY 2022	33,292 FY 2022	12,19,298 FY 2022

\* Rounded off to nearest integer

#### Categories considered under Scope 3 Emissions (tCO<sub>2</sub>e)

Scope 3 - Category Details*	Total
<b>Categories</b>	
1. Purchased goods and services	12,895.32
2. Capital goods	2,931.96
3. Fuel and energy	17,64,989.39
4. Upstream transportation and distribution	257.53
5. Waste generated in operations	6,932.02
6. Business travel	617.71
7. Employee commuting	197.72
<b>Total</b>	<b>17,88,821.65</b>

\* Category 8 - 15 are not applicable to the business.

#### Energy Conservation Initiatives

Energy conservation is crucial for JSW Energy as it enhances operational efficiency and reduces greenhouse gas emissions, aligning with global sustainability goals. By conserving energy, we strive to lower operating costs and optimise resource use. It also supports regulatory compliance and strengthens the Company's reputation as a responsible energy provider.

#### Total Energy Saved through Conservation Initiatives

Location of Plant	Energy Reductions in GJ	GHG Emissions saved in MTCO <sub>2</sub> e
Barmer	79,126.19	7,313.45
Ratnagiri	4,62,626.00	37,200.00
Vijayanagar	20,067.54	34,586.84
Nandyal	2,360.26	1,697.03

Total GHG emissions saved for all Plants = 80,797.32 MTCO<sub>2</sub>e

The GHG emissions intensity only for thermal power plants is 0.915 tco<sub>2</sub>e / MWh. (scope 1 + scope 2)

For detailed information about the energy savings initiatives undertaken across the plants, please refer to Natural Capital page number 148-149.