

Forward Looking and Cautionary Statement



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JSW Group Overview



Amongst India's leading Conglomerates with a turnover of US\$22 Bn



JSW Energy

- Power producer with 9.9 GW locked-in portfolio,
- Targeting 20GW by 2030 (81% renewable capacity)
- Market Cap: ~US\$ 6.4 Bn



Infrastructure

- Amongst Top 5 Indian port companies
- Operates environment-friendly seaports & terminals
- Targeting 200mtpa cargo handling capacity in next few years



Paint:

- India's new age Paints company offering a path-breaking Any Colour at One Price
- State-of-the-art Facilities in Maharashtra and Karnataka
- Ranks Number 1 in Industrial Coil Coatings



Sport

- Supporting Indian sports ecosystem
- Teams Owned: Bengaluru FC, Delhi Capitals, Haryana Steelers





- India's leading integrated steel producer
- Installed crude steel capacity of 29.2mtpa, growing to 38.5mtpa
- Market Cap: ~US\$ 21.4 Bn



Cement

- India's leading Green cement company
- Current capacity of 17mtpa, with a medium term target of 25mtpa
- Product range includes PSC, GGBS, Concrete & Construction Chemicals



Ventures

- Early-stage, tech-focused, VC fund
- Portfolio: Purple, LimeTray, Homelane, CureSkin and Zvlov



Foundation

- Social development arm of JSW Group
- Footprint across 11 states and 15 districts
- Positively impacts more than a million lives across India









JSW Energy at a Glance

Sustainability

Asset Overview

Why JSW Energy?

Risk Mitigation

Annexures

JSW Energy – At a Glance

The company is well placed to achieve its capacity growth target of 10 GW much ahead of the stated timeline of FY25 and being future-ready with increased share of renewables and new energy solutions.

9.9 GW

Diversified Asset Portfolio (61% Renewable) 4.8 GW

Installed Capacity

Thermal – 3,158 MW Renewable – 1,626 MW **2.6** GW

Under Construction

-Entirely Renewable – 2,233 MW In Pipeline

-Entirely Renewable – 426 MW

2.5 GW

Under Acquisition

- -1,753 MW Mytrah Energy RE assets
- -700 MW Thermal Power Ind-Barath

* Details of the deal in the annexure

Healthy Operations and Financials (4.8 GW Operational)



85%

Capacity under LT PPA¹

~95%

EBITDA contribution from LT

21BUs

Net Generation

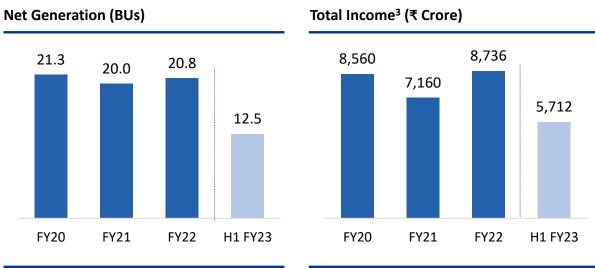
₹ 2,395 Cr

Cash PAT 2

Figures are for FY22

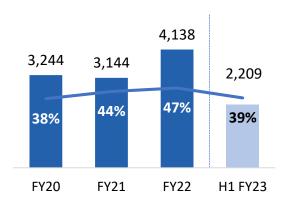
- Steady operations and robust financial: Track record of strong yearly cash profits of ~₹2,300 Crores.
- High LT PPA tie-up rendering high cash flow visibility
 - Almost all LT PPA under two-part tariff (imported/domestic fuel cost/forex pass through)
 - Remaining Avg. Life of PPA: ~20 years
 - Remaining Avg. Life of Assets: ~30 years
- Diversified off-takers
 - All plants placed favorably in Merit Order Despatch
 - Hydro projects under 'must-run' status
 - Consolidated Trade receivables at ₹ 1,769 Cr equaling to 66 receivable days as on Sep 30, 2022

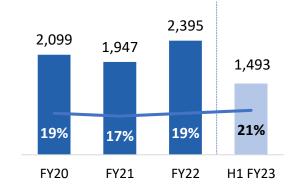
Business model resilient with steady cashflow generation despite several sectoral headwinds











Robust balance sheet to support renewable-led growth



1.77x

Net Debt/EBITDA

0.45x

Net Debt/Equity

7.94%

Wt. average cost of debt

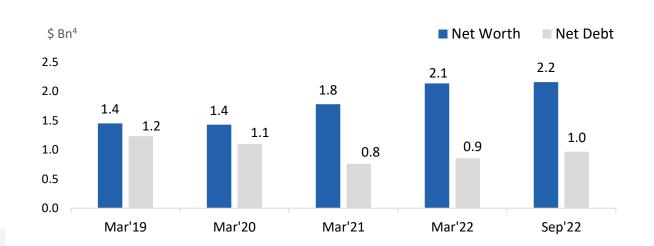
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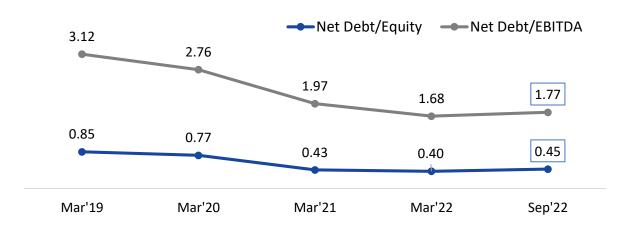
Receivable Days

Figures as of Sep 30, 2022

- ✓ Strong Liquidity with healthy cash balances: ₹ 3,327 Crore (\$ 408 Mn³)
- ✓ Financial flexibility enhanced by equity investments:
 - Holding 7Cr (70mn) JSW Steel shares (Value¹: ~\$542 Mn³)
- ✓ Healthy Credit Ratings:
 - India Rating & Research: AA (Stable outlook)
- ✓ Access to diverse pools of liquidity
- ✓ Existing portfolio of 4.8 GW generating healthy CF & mid-teen equity IRR²
- ✓ Weighted average cost of debt is 7.94% as of Sep 30, 2022

Large balance sheet headroom & strong cashflow available to pursue growth





¹ Value of JSW Steel Share holdings as on Sep 30, 2022. Net Worth is impacted by change in value of listed equity investments through Other Comprehensive Income, 2. Calculated as FCFE Yield on Adj. NW is ~14%; Adj NW: Net worth adjusted for non-strategic equity investments held 3. 1 USD =81.6 INR



Continuing our Health & Safety Excellence Journey





Zero severe injuries/fatalities (Q2 FY23 & YTD)



89% of contractors covered by JSW CARES audit

9 Contractors achieve 5 Star rating & 3 contractors achieve 4 Star in a stringent Internal Safety Assessment



43,000+ Cumulative Safety Observations Resolved YTD

Influencing 'positive safety behavior' of our workforce by reporting smallest of the safety considerations thereby avoiding any major / minor incident



Strengthening of Safety systems by initiating the Internal Safety Audits conducted by inter-location safety professionals

Internal Safety Audit of 3 plants completed by JSW Safety professionals of other locations. Audit of all remaining plants shall be completed in Q3 FY23. The audit aims to strengthen Safety Governance, statutory compliances, Risk assessments and safety monitoring systems



Enhancing Safety Systems & Response

- JSW Hydro Energy Conducted Mock Drills with NDRF (National Disaster Response Force) and administration teams for 'Flash Floods & Rescue' Scenario
- Barmer Thermal Power Plants Mock Drill Conducted on Fire Safety Response for 'Fire in Main Oil Tank' Scenario







Sustainability: Framework and Policies



17 Focus Areas with 2030 Targets from 2020 as Base Year



Climate Change:

Committed to being carbon neutral by 2050

Reduce our carbon emissions by more than 50%



Renewable Power:

Enhance the renewable power to 2/3rd of our Total Installed Capacity



Biodiversity:

No Net Loss for Biodiversity



Waste Water:

Zero Liquid Discharge



Waste

100% Ash (Waste) utilization



Water Resources:

Reduce our water consumption per unit of energy produced by 50%



Operational Health & Safety



Supply Chain Sustainability



Resources



Employee Wellbeing



Social Sustainability



Air Emissions



Local Considerations



Business Ethics



Indigenous People



Cultural Heritage



Human Rights

Energy

Aligned to National & International Frameworks















Governance & Oversight by **Sustainability Committee**

2 Independent Directors

Mr. Sunil Goyal

Ms. Rupa Devi Singh

1 Executive Director

Mr. Prashant Jain

ESG Ratings – best amongst peers

MSCI: BB

CDP: A- (Leadership Level)

Sustainalytics: 27.8 (Medium Risk)

FTSE4Good Index constituent

Carbon Neutrality by 2050



Committed to set science based targets to keep global warming to 1.5°C under SBTi

Integrated Reporting since FY19













Sustainability: Targets and Strategy



SD Targets			FY20 Actuals	FY30 Targets	Improvement	Strategic Initiatives and Approach		
	Climate Change	 GHG Emissions tCO₂e/ MWh 	0.76	0.304	60%	 Increased share of renewable energy for deep decarbonization Process efficiency improvements Replacement of condenser tubes with graphene coatings 		
	Water Security	 Specific fresh water intake (m³/MWh) 	1.10	0.591	46%	 Maintaing zero liquid discharge across operations Optimising utilisation of rain water harvesting system Installation of technology for operating cooling towers with higher Cycles of Concentration with modified chemical regime Reuse of treated effluent of Sewage Treatment Plan for horticulture 		
F	Waste	 Specific Waste (Ash) Generation (t/MWh) Waste Recycled - Ash (%) 	0.070 100	0.032	54%	 Integrated Strategy towards efficient waste management Optimizing utilisation of low ash coal 		
É	Air Emissions	Specific process emissions(Kg/MWh) PM SOx NOx	0.16 1.78 1.01	0.053 0.683 0.373	67% 61% 63%	 Ensuring ESP (Electrostatic Precipitator) Fields availability Optimising Lime dozing system efficiency Process efficiency improvements 		
	Biodiversity	Biodiversity at our operating sites	-	Achieve 'no net loss' of biodiversity	<i>,</i>	 Continue to enhance Biodiversity at all our locations and operations to acheive 'no net loss' Increase green cover across operations Eco-system studies (all seasons) in progress for finalising a Bio-diversity management plan at Barmer location. 		

Sustainability: Q2 FY23 Performance



Key Highlights



- Increased share of renewable energy for deep decarbonization
- Solar 225 MW project at Vijayanagar: Generation started resulting in low GHG, CO2, SOx and NOx emissions
- Biomass feeding (trials done) to reduce coal consumption at Ratnagiri Plant
- Installation in progress for Wind Projects at Tuticorin



- Maintain zero liquid discharge across operations
- Rain harvesting at Ratnagiri and Vijayanagar plants resulting in rain water utilization of 236,910 m3 and 185,891 m3 respectively
- Utilization of PTP sludge in Horticulture & Gardening in the form of fertilizer at Barmer Plant



Waste

- 100% Ash utilization initiatives at all plants through tie-ups with cement factories & other industrial businesses
- Phase 1 trials completed for the 45kt Silo for ash export from Ratnagiri plant



Air Emissions

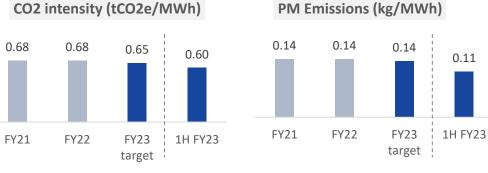
- Ensuring ESP (Electrostatic Precipitator) Fields availability
- Process efficiency improvements
- Lime Dozing system availability and parameters optimization at Barmer for reduced air emissions



- Eco-System Study at Barmer: Summer season site report submitted & Monsoon season data collected by Confederation of Indian Industry (CII)
- New Mango plantations (2,478 nos) around Ratnagiri plant, different species plantation around Vijanagar Plant (3,145 nos) and Hydro Power Plant (500 nos)

Performance

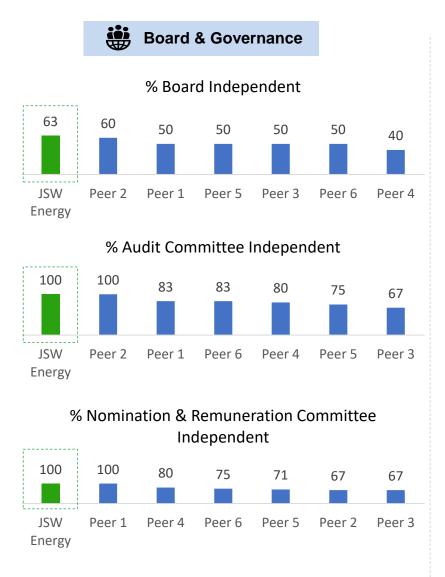


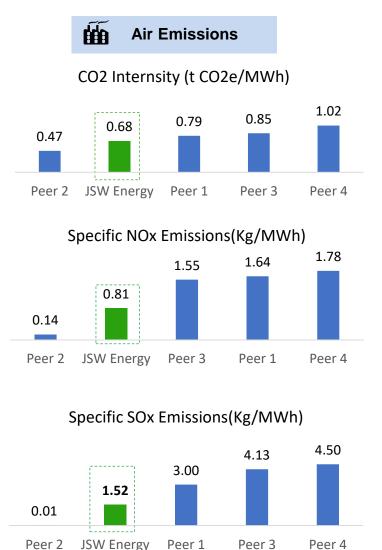


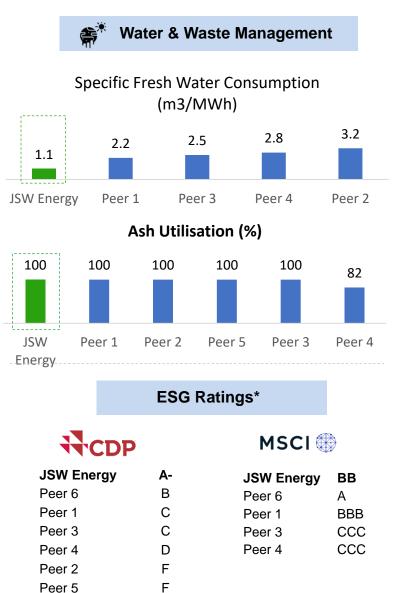


Advantage JSW: Superior ESG Profile







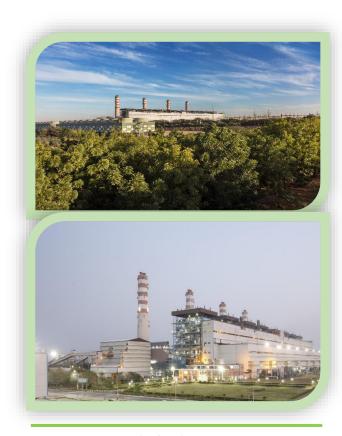


Sustainability: Initiatives and Disclosures

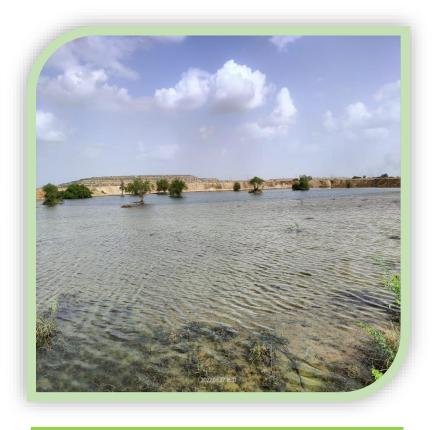




Plantation drives spanning across Ratnagiri, Vijayanagar & Hydro Power Plants



Green Belt & Plantation near Barmer Power Plant



Watershed Development at Barmer

Comprehensive ESG Data profile with ~300 factors across 15 sustainability frameworks

JSW Energy



JSW Hydro Energy



Sustainability: Empowering Our Communities





Sports Promotion & Development

- Project Shikhar: Organised inter– Shikhar boxing championship with a participation of 60 boxers.
- Participation in State Boxing Boys Junior Championship at Nagrota Bagwan in July. (8 medals won in Q2)



Health & Nutrition

- Strengthening health public infrastructure by supporting Government hospital in Barmer.
- Total 44 vision screening camps were organized at Tuticorin and Jaigad which benefitted 5,044 individuals



Skill Development & Livelihoods

- Under Project Charkha, the artisans participated an exhibition organised by NABARD at Mandi, Himachal Pradesh on National Handloom Day where artisans showcased their products
- Mobilisation of artisans is ongoing for 'Off-farm Producer Organisations' in partnership with NABARD



Community Development & Support

- Project Margdarshak: To empower rural India with access to applicable welfare schemes of central and state governments and enable it through awareness generation and technological support.
- Solar Street Lights: Installed 175 solar street lights in remote location of 13 **Gram Panchayats of Barmer District**









Agri-livelihoods













Strong Board Oversight and Leadership





Mr. Sajjan Jindal Chairman & Managing Director



Mr. Prashant Jain
Joint Managing Director
& CEO



Mr. Pritesh Vinay
Director (Finance)



 Fully Independent Audit and Remuneration Committees



Mr. Parth Jindal
Non-Executive, NonIndependent Director



Ms. Rupa Devi Singh Independent Director



Mr. Sunil Goyal Independent Director



Mr. Munesh Khanna Independent Director



Mr. Rajeev Sharma
Independent Director



Mr. Desh Deepak Verma Independent Director

Audit Committee

■ Compensation & nomination & remuneration Committee

■ Risk management Committee

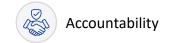
■ Stakeholder's relationship Committee

Corporate social responsibility Committee

■ Sustainability Committee

Permanent invitees to Sustainability Committee

Our Core Principles











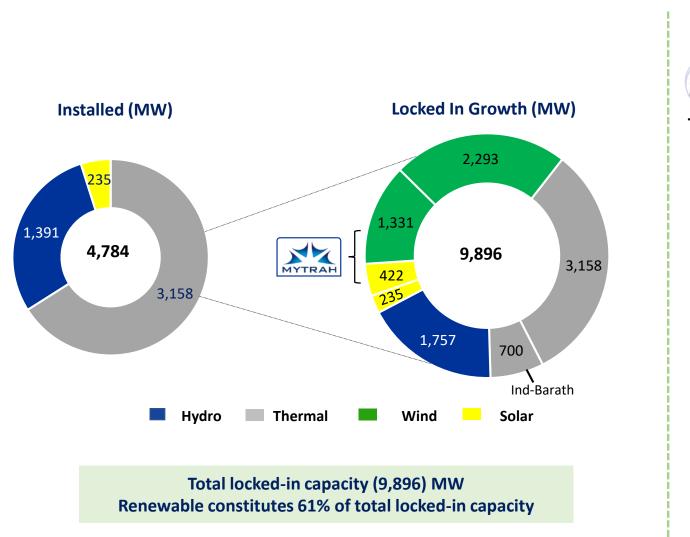


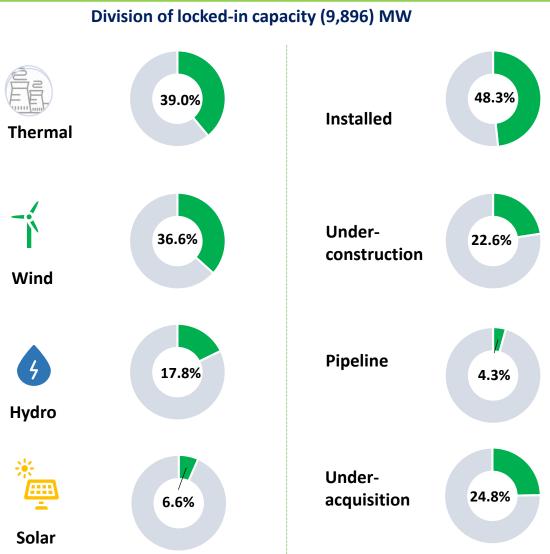


Asset Overview – 9.9 GW Locked-In



Green portfolio driving capacity growth





Installed Portfolio – 4.8 GW



Barmer: 1,080MW

- Configuration: 8 X 135MW
- Units operating: since 2009³
- **Technology:** Sub-critical pithead Lignite based TPP
- Fuel Source: Captive Lignite mines of BLMCL¹
- Power Offtake: Long Term PPA: 100%
- Project Cost: INR 7,165 Crore/\$879mn²

Ratnagiri: 1,200MW

- Configuration: 4 X 300MW
- Units operating: since 2010³
- **Technology:** Sub-critical TPP
- Fuel Source: Imported Thermal Coal
- Power Offtake: Long Term PPA: 96%
- Project Cost: INR 5,516 Crore/\$676mn²

Nandyal: 18 MW

- 1x18MW Thermal Power Plant
- 100% LT PPA under Group Captive scheme

Vijayanagar: 860 MW

- Units operating: since 2000³
- **Technology:** Sub-critical TPP

- Project Cost: INR 3,096 Crore/\$379mn²

4.8 GW installed

34% Renewable 66% Thermal



Map for illustrative purposes, showing

project locations

Baspa II: 300MW & Karcham Wangtoo: 1,091MW 4

- Configuration: 3x100MW (Baspa II); 4x272.75MW (Karcham)
- Units operating: Baspa II since 2003³ and Karcham Wangtoo since 20113
- Technology & Fuel Source: Hydro
- Power Offtake: Long Term(1300MW), Short Term(45MW)
- Asset Value to JSW Energy: INR 9,275 Crore/\$1,137mn²

Solar: 10 MW

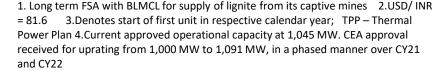
 Ground based and rooftop solar power projects across various locations with captive power tie-up within JSW Group

Vijayanagar Solar: 225 MW

- Configuration: 225 MW AC
- Power Offtake: PPA with JSW Steel

Remaining Avg. Life of PPA: ~20 years

Remaining Avg. Life of Assets: ~30 year

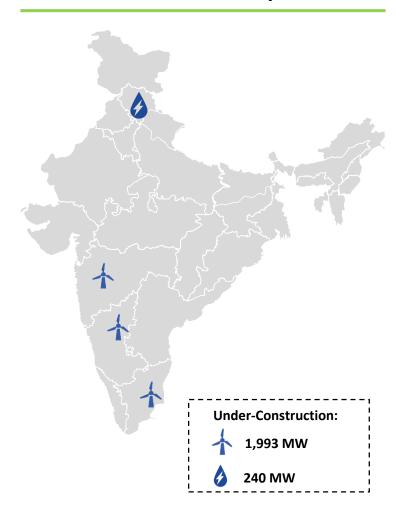


- Configuration: 2 X 130MW and 2 X 300MW
- Fuel Source: Imported Thermal Coal & Gas
- Power Offtake: Long Term PPA: 35%

Under Construction Projects – 2.6 GW (1/3)



2.2 GW Renewable Projects



Map for illustrative purposes, showing project locations

Under Construction Portfolio

Plant	Capacity (MW)	Segment	Location	PPA/Offtaker	Scheduled Commissioning	Target Commissioning	
SECI - IX	810	Wind	Tamil Nadu	25-Year; SECI	Dec-23	progressively from Q3 FY23	
SECI - X	450	Wind	Tamil Nadu	25-Year; SECI	Jun-23		
Group Captive – JSW Steel	733	Wind	Karnataka, Maharashtra & Tamil Nadu	25-Year; JSW Steel	NA	progressively from Q1 FY24	
Kutehr	240	Hydro	Himachal Pradesh	35-Year; Haryana Discom	-	Sep-24	

Metrics for RE projects (Incl. 225 MW of solar projects commissioned at Vijayanagar)

Blended tariff ₹ 3.08/unit (excl. hydro)

PPA PPAs Signed

Total: ~ ₹ 16,660 Crore
 Spent: ~₹ 4,700 Crore

■ Committed: ~₹ 10,720 Crore

426 MW Pipeline Projects

- SECI XII Letter of Award received in Jul-22 for 300 MW ISTS connected Wind power capacity
- Letter of Intent received in Oct-22 for allotment of 126 MW Chhatru HEP

Capex

Update on Under Construction Projects (2/3)



SECI-IX & X Wind, Tamil Nadu (1,260 MW)







Nacelle and WTG erection

Update on Under Construction Projects (3/3)



Kutehr HEP, Himachal Pradesh (240MW)



Steel Cantilever Bridge



HRT Gantry Concrete Lining



Kutehr HEP

■ Completed ~84% (17.7 km) tunneling work (up from ~75% in Q1) well ahead of timelines

Under Acquisition 2.5 GW - Mytrah Energy



Value Accretive Deal

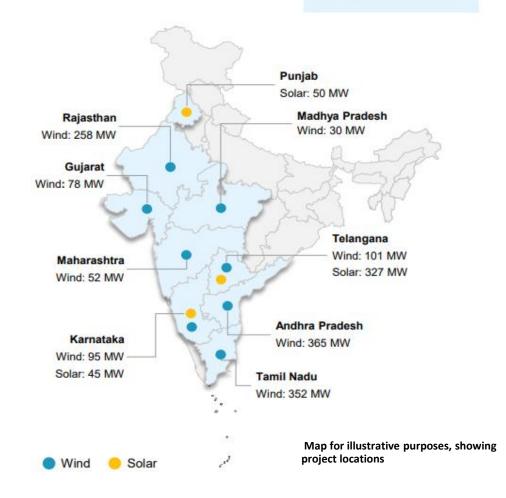
- ✓ Acquired portfolio consists of 422 MW solar and 1,331 MW wind
- The assets were acquired at an EV of approximately ₹ 10,530 Cr
 after adjusting for net current assets implying a EV/EBITDA
 multiple of 6.4x on a normalized EBITDA of ₹ 1,650 Cr

Progress Update on Acquisition

- ✓ Received CCI approval for acquisition
- ✓ Progressing towards completion of other conditions precedent and expect consummation of the deal in Q3FY23.

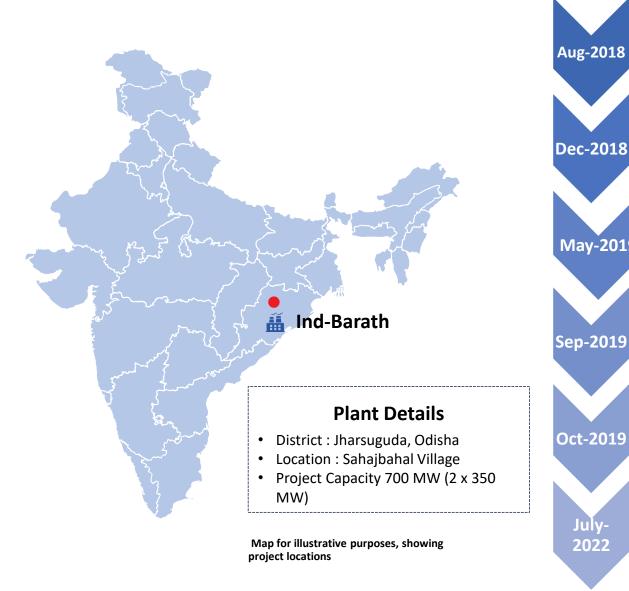
Mytrah RE Assets: Geographically diverse

Total: 1,753 MW



Under Acquisition 2.5 GW - Ind-Barath





Locked In 9.9 GW

• Corporate Insolvency Resolution Process initiated against 'Ind-Barath Energy (Utkal) Limited' pursuant to NCLT order

 Expression of Interest submitted Dec-2018

July-

2022

 Resolution Plan submitted May-2019

Under construction & Pipeline 2.6 GW

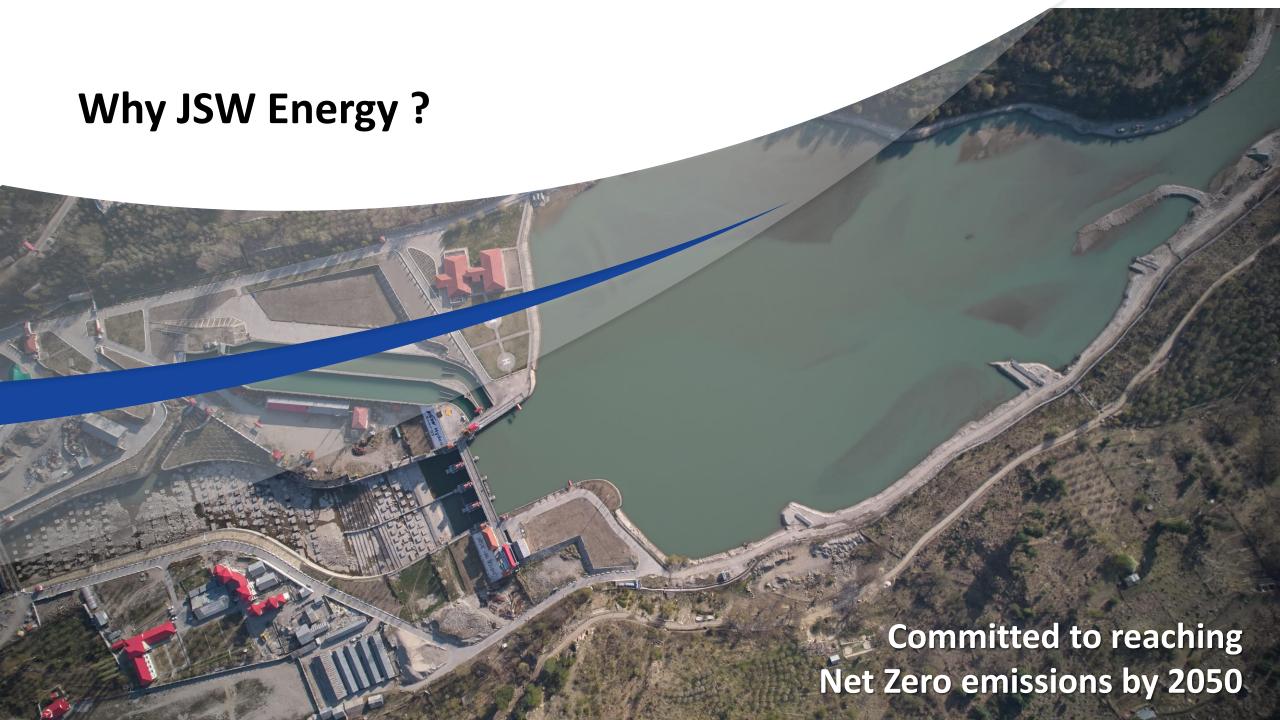
• Earlier Process annulled & JSWEL submitted Resolution plan under new process

• Subsequent to negotiation with CoC Revised Resolution Plan submitted

• The Resolution Plan was approved by the CoC and application was filed to NCLT for approval for the same

• Approval received from NCLT for the Resolution Plan under the corporate insolvency resolution process of the Insolvency and Bankruptcy Code, 2016

CoC- Committee of Creditors

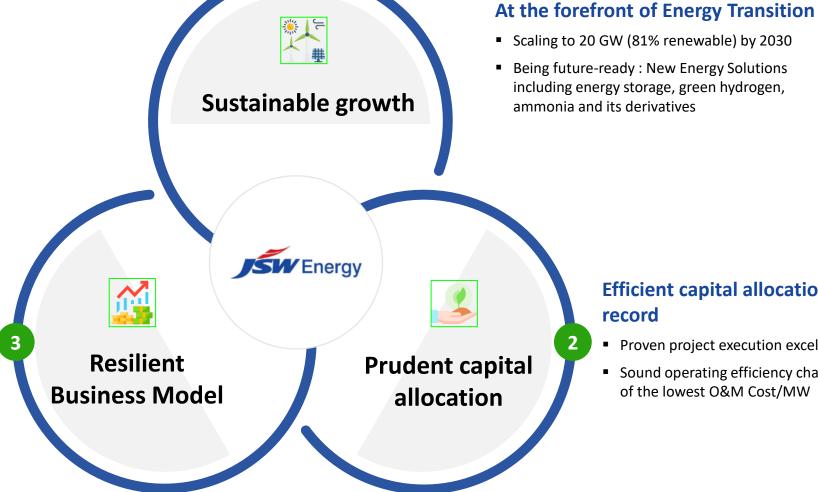


Compelling Investment Story





- Steady operations and robust financials
- Best-in class balance sheet and cash flows to support renewable-led growth



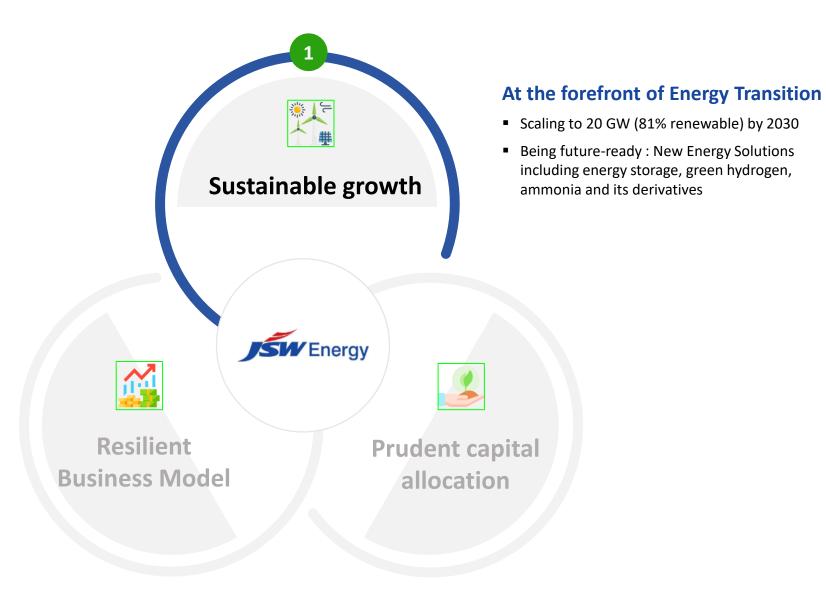
- Scaling to 20 GW (81% renewable) by 2030
- Being future-ready: New Energy Solutions including energy storage, green hydrogen, ammonia and its derivatives

Efficient capital allocation track record

- Proven project execution excellence
- Sound operating efficiency characterized by one of the lowest O&M Cost/MW

Compelling Investment Story

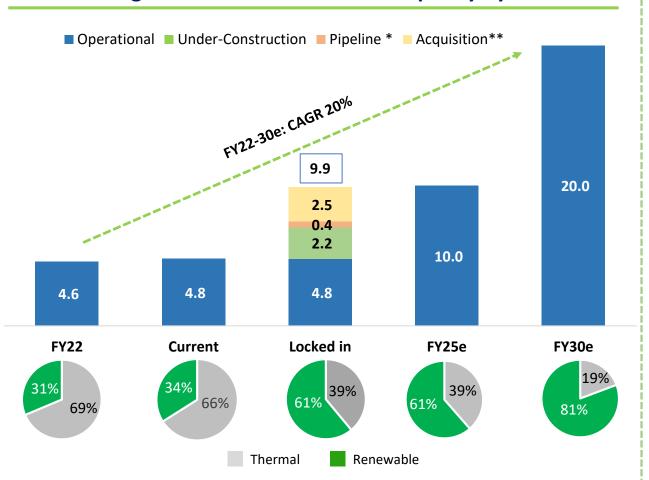




Twin Engines of Growth for significant value creation



Scaling towards 20 GW installed capacity by 2030



Mytrah RE Assets: CCI Approval received for acquisition

Transitioning towards Energy Products and Services



Energy Storage



Hydro Pumped Storage (PSP) - Targeting 10 GW

 Resources tied-up for ~6 GW PSP with various states



Battery Energy Storage System (BESS)

 Participated in SECI bid for the largest utility scale pilot BESS project (500MW/1000MWh)



Green Hydrogen /Ammonia

- Intend to foray into production of Green
 Hydrogen and its derivatives
- ✓ **No equity dilution** envisaged for growth
- ✓ **Diverse Sources of Capacity addition**: Solar and Wind bids, RTC power bids, Storage bids, C&I customers, RE Power for Green Hydrogen

Current locked-in capacity of 9.9 GW; Comprising of 61% Renewable capacity

Net-zero by 2050

Being Future Ready: Hydro Pumped Storage Projects (PSP)



India's Market Potential



Only 3.3 GWh operational out of 97 GWh potential

- Hydro Power Obligations to bolster development of PSPs
- Waiver of ISTS charges also allowed for Hydro PSP



Supporting 50% energy requirement from renewable sources by 2030

Hydro PSP to provide adequate peaking reserves, reliable grid operation and integration of variable renewable energy sources

Key Highlights:

- Long Project Life
- Low construction cost and better PLF vis-à-vis conventional hydro projects
- Supports Grid Stability
- High tariffs with attractive returns

JSW's Plans

✓ In Advanced Stages for 6 GW PSP

- Signed MoUs with Govt. of Maharashtra for 2.5 GW, Govt. of Telangana for 1.5 GW, Govt. of Chhattisgarh for 1 GW for Hydro Pumped Storage Projects and a Letter of Intent with Govt. of Rajasthan for 1 GW Hydro Pumped Storage projects
- Applied for Environmental clearance
- Techno economical feasibility studies are being done
- ✓ Benefit of JSW's proven experience with managing the largest hydro portfolio in the private sector
- ✓ PSPs integrated with RE power can provide firm despatchable RE power

Expected Timeline:

- Project Clearances: 3 Years (in progress since FY21)
- Project Construction: 3 Years (expected from early FY24)

First project will be a captive PSP at Vijayanagar, construction expected to commence in next calendar year

Source: Central Electricity Authority, IEA 31

Being Future Ready: Battery Energy Storage Solutions (BESS)



India's Market Potential



52GW/258GWh¹ installed capacity by 2032

- Facilitate RE capacity integration by addressing intermittency
- Balancing grid against load fluctuations
- Better utilization of transmission infrastructure



Supporting India's Clean Energy commitments

- Waiver of ISTS charges allowed for BESS
- Integral to RTC power infrastructure for clean energy

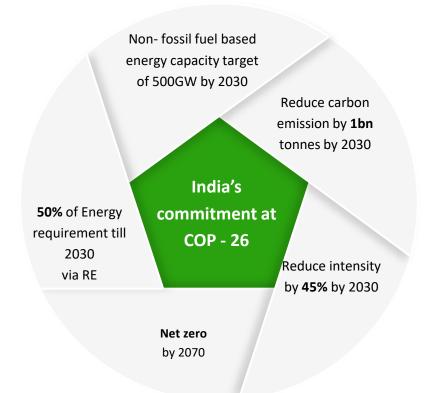
JSW's Plans

- ✓ Participated in SECI bid for the largest utility scale pilot BESS project (500MW/1000MWh)
 - Winning bidder; Letter of Intent yet to be received
 - Pilot project is Build Own Operate Transfer (BOOT) with tenure of 12 years
 - Battery Storage Purchase Agreement for 60% of the capacity with SECI and balance is open for sale
 - Identified site is at Fatehgarh, Rajasthan
 - Participate in ancillary market with the open capacity

Source: ¹ National Electricity Plan (Draft) Sept- 2022

Being Future Ready: Green Hydrogen Potential





Advantage India

Significant Hydrogen demand

Current demand ~6 MMT expected to grow to ~24 MMT by 2050

Huge RE potential

Existing RE capacity of ~165 GW (incl. Hydro)
Target – 50% of energy
requirement from RE by 2030

Low Tariffs

RE tariffs in India (INR ~ 2-2.5)

India's Import Bill

India is 3rd largest consumer of oil & gas, imports ~85% of oil and ~50% of Gas

Clean energy Commitment

GH adoption contributes to emission reduction & meet energy demand

Infrastructure build

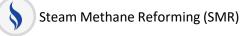
Large part of India's infrastructure needs to be built out, allows better integration

Grey Hydrogen: Currently, more than 95% of hydrogen is produced from fossil fuels via carbon intensive processes.

Blue Hydrogen: Grey hydrogen whose CO₂ emitted during production is sequestered via carbon capture and storage (CCS)

Green Hydrogen: Low or zero-emission hydrogen produced using clean energy sources

Main production route



Coal Gasification

Characteristics

Intense Low CO₂ Cost

Main production route



SMR + CCS



Coal Gasification + CCS



Low

 CO_2

Characteristics

T High

High Cost

Main production route



Electrolysis using renewables



Characteristics

Zero CO₂ High Cost

Source: Press information Bureau - India, Company Market Research, Hydrogen Policy Study by ASSOCHAM.

Being Future Ready: Green Hydrogen



India's Market Potential

H

Significant H₂ demand

- India 2nd largest hydrogen demand base in the world
- H₂ demand expected to grow to ~24 MMT by 2050; can spur USD 65-70 Bn investments in incremental RE capacity



National Hydrogen Mission

- Announced in the Union Budget 2021 for making a hydrogen roadmap for the country
- Government announced Green hydrogen obligation for Fertilizers and Refinery sector



India's Clean Energy commitments

- Green H₂ adoption can contribute to emission reduction in allied sectors
- India has low RE tariff's: Electricity is \sim 80% of Cost of Green H₂

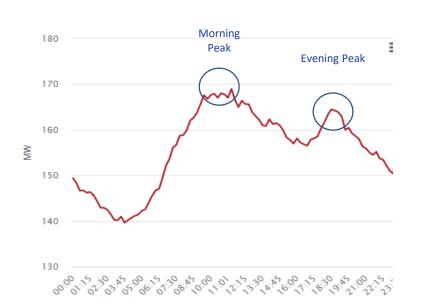
JSW's Plans

- ✓ To tap significant clean energy market opportunity in India and become a front-runner in a future hydrogen economy
- ✓ Utilisation potential across:
 - green steel making
 - green ammonia
 - chemical derivatives
 - hydrogen mobility
 - other industrial applications

Being Future Ready: Energy Products & Services - Value Unlocking



All India Peak Demand Pattern (2021)1

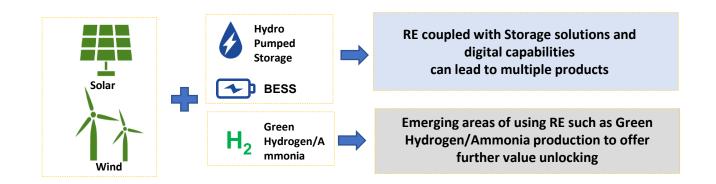


- All India power demand shows a peaking upward trend during morning & evening hours
- Demand of 16-20 GW during these peaks vs a base demand of ~150 GW
- Generation resources needed to effectively meet base load and varying incremental load during multiple daily duration period(s)

Varying power demand requirements and rise of utility scale renewable projects is leading to innovative approaches that encourage pairing solar/wind with storage technologies to offer "round the clock" (RTC) and on-demand power supply

1. Discoms:

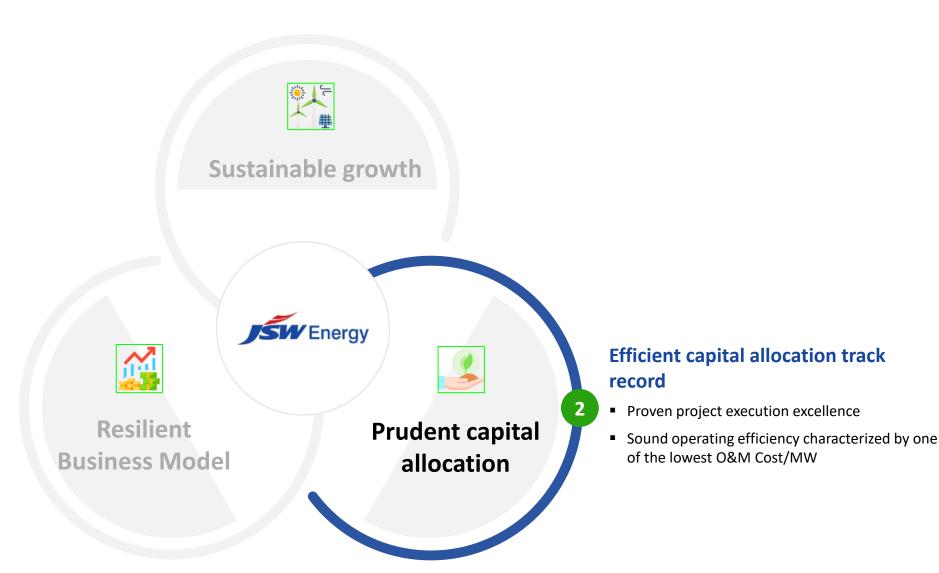
- To incrementally secure energy from renewable energy + energy storage sources to meet peak and off-peak power demand for RTC requirements
- Evolution of Renewable tenders from plain vanilla solar/wind to Hybrid & RTC tenders
- 2. Commercial & Industrial (C&I) Users:
 - Innovative PPAs & tariffs with C&I customers (such as Metro, Large Offices) to meet varying power demand requirements



1 – Elekore Systems, 2- JMK Research

Compelling Investment Story





Proven project execution and operational excellence...

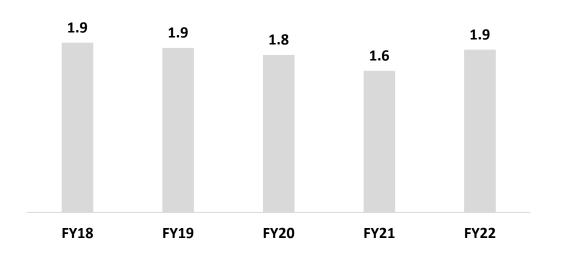


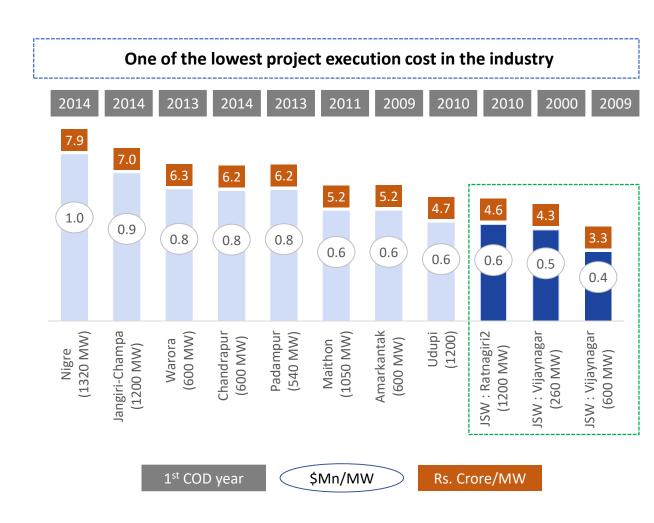
Prudent and consistent capital allocation strategy for growth over a 25 year history

Business model resilient despite several sectoral headwinds over the last decade

Sound operating efficiency characterized by one of the lowest O&M Cost/MW

O&M Expenses (Rs Mn/MW)



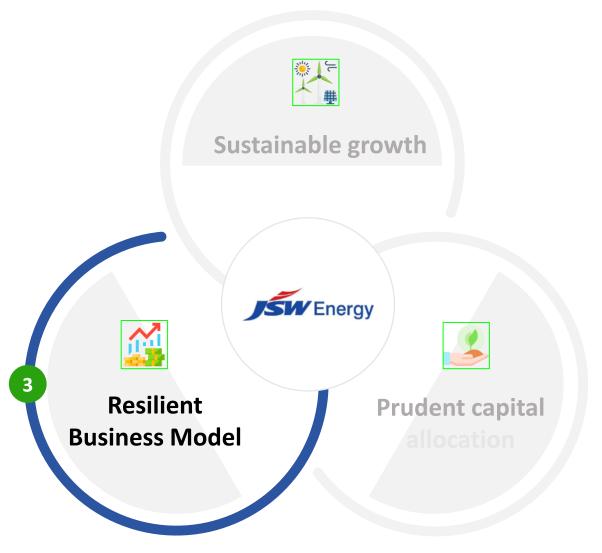


Compelling Investment Story



Resilient Business, Consistent Performance and Strong financials

- Steady operations and robust financials
- Best-in class balance sheet and cash flows to support renewable-led growth



Steady Operations and Robust Financials





FY20

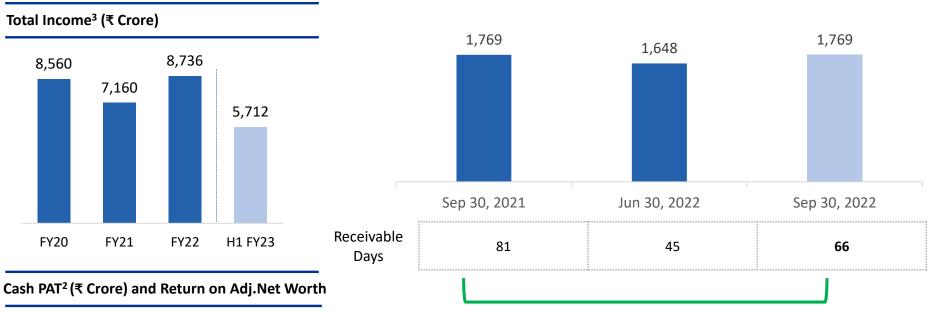
Net Generation (BUs) 21.3 20.8 20.0 12.5 FY20 FY21 H1 FY23 FY22

Total Income³ (₹ Crore) 8,736 8,560 7,160 5,712

FY22

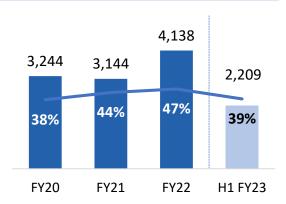
H1 FY23

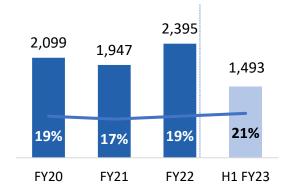
FY21



Low Trade Receivables

EBITDA & EBITDA Margin (₹ Crore)





- All plants placed favourably in States' Merit Order Dispatch
 - Further, Hydro plants under 'Must-run status' with no scheduling risk
- No history of any bad debts from routine long term trade receivables
- Payment security mechanism in force for power tied under long term PPA with discoms
- Recovery of late payment surcharge in case of delayed payments from discoms

Best-in class balance sheet & cash flows to support renewable-led growth



Large balance sheet headroom to pursue growth opportunities

Strong credit metrics:

Jun-21

Sep-21

Figures in ₹ Crore	As on Sep 30, 2022
Networth	17,593
Net Debt	7,874
Net Debt/EBITDA	1.77
Net Debt/Equity	0.45
Wtd. Average Cost of Debt	7.94%

Healthy Credit Ratings and access to diverse pools of liquidity

Dec-21

✓ India Rating & Research: AA (Stable outlook)

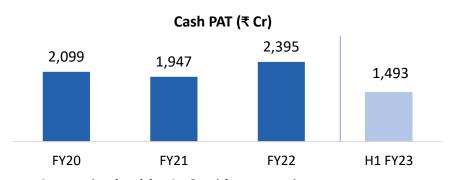
8.05% 8.04% 7.82% 7.74% 7.87%

Wt. Average Cost of Debt

Healthy internal accruals to support growth

Operational Portfolio (4.8 GW):

Steady operations and robust financial: Track record of strong yearly cash profits of ~₹2,300 Crores¹



- Generating healthy CF & mid-teen equity returns
- 85% of portfolio tied-up under Long Term PPA
 - ✓ Remaining Avg. Life of PPA: ~20 years
 - ✓ Remaining Avg. Life of Assets: ~30 years
- Strong Liquidity with healthy cash balances²: ₹3,327 Crore
- Financial flexibility enhanced by equity investments:
 - JSW Steel shares: 7 crore shares held (Value as on Sep 30, 2022: ~ ₹4,424 Crore)

Mar-22

Jun-22

Sep-22



Adequately addressing key risks and concerns (1/2)



Key Risks/Concerns	Favourable Policy Support and Market Interventions	Mitigation Strategy by JSW Energy
Demand risk (Clearing of PPA Backlogs)	 Well established central agencies (SECI, NTPC) for managing PPAs Discoms/offtakers entering into new renewable long-term PPAs at commercially attractive tariff given pick-up in economic activity resulting in strong spot electricity prices Renewable Power Obligation for RE and Hydro Projects, energy storage obligations also introduced thereby promoting energy storage projects 	 Existing portfolio: 85 % PPA signed which forms about 95% of EBITDA U/C portfolio: All renewable projects PPA signed Mix of Discoms and C&I customer base Targeting new areas of demand through Green Hydrogen and Energy storage
Receivable risk	 Payment security through mandatory provision of LCs before power off-take Late payment surcharge fees are charged for delays US\$41bn reforms based, results linked scheme for Discoms Defined framework for recovery of costs due to 'Change in Law' 	 All plants placed favorably in States' Merit Order Dispatch Portfolio diversified across multiple off-takers No history of any bad debts from routine LT trade receivables Recovery of late payment surcharge in case of delayed payments from discoms
Domestic industry for capacity addition	 ~\$600mm production linked incentive scheme for high efficiency PV modules ~\$2,400mm scheme for ACC batteries 	 Technology agnostic approach To benefit from domestic capacity addition

Adequately addressing key risks and concerns (2/2)



Key Risks/Concerns	Favourable Policy Support and Market Interventions	Mitigation Strategy by JSW Energy
Offtake Risk (revenue/volume)	 Must-run status for renewable; Rule notified to provide regulatory support towards 'Must-run' status - Electricity (Promotion of generation from renewable sources of energy by addressing Must Run and other matters) Rules, 2021 	 Hydro plants under 'Must-run status' with no scheduling risk ~98% of LTPPA under two-part tariff; Plant Availability maintained above normative across locations to recover fixed charge; fluctuations in fuel cost and forex are completely pass through
Soundness of Auction framework	 Efficient and Transparent competitive bidding process Innovative models emerging: Hybrid solar, Renewable-plus-storage, Round-the-clock (RTC) renewable power 	 Highest ever single bid capacity secured under any of the Indian renewable auction – 810 MW blended wind capacity awarded under SECI IX Participating in RTC bids
Grid Infrastructure capability	Development of dedicated Green Energy Corridors for evacuating RE capacity	 Pump Storage and battery storage solutions offer opportunity to address grid balancing issues

JSW Energy: Key Highlights





Proven Execution Excellence

- Superior project execution skills: Projects set-up in lowest cost & time
- ✓ Differentiated business strategy for growth to 20 GW, driven by Renewable
- ✓ Foraying in New Energy Platforms: Green Hydrogen, Energy Storage, Energy Products & Services



- ✓ Strong Focus on ESG Leadership band with 'A-' score in the 2021 CDP Climate Change assessment
- ✓ Amongst the Highest rated power generation company in India by various independent ESG rating agencies
- ✓ To be Carbon Neutral by 2050; Committed to set science based emission reduction targets (SBTi)



- ✓ Sound operating efficiency characterized by one of the lowest O&M costs in the sector
- ✓ Global best practices & recognition in Safety: Barmer and Ratnagiri Plants awarded 'SWORD OF HONOUR' by British Safety Council



Steady EBITDA and Cash accruals

- √ 85% of total portfolio tied up with LT PPA providing steady EBITDA and Cashflow generation.
- ✓ Two-part tariff structure mitigating fuel and forex risk



Healthy Receivables

- Receivables days at low levels in DSO terms.
- ✓ Favorable placement in Merit Order Despatch & diversified off-takers mitigate Receivable risk



Strong Balance Sheet

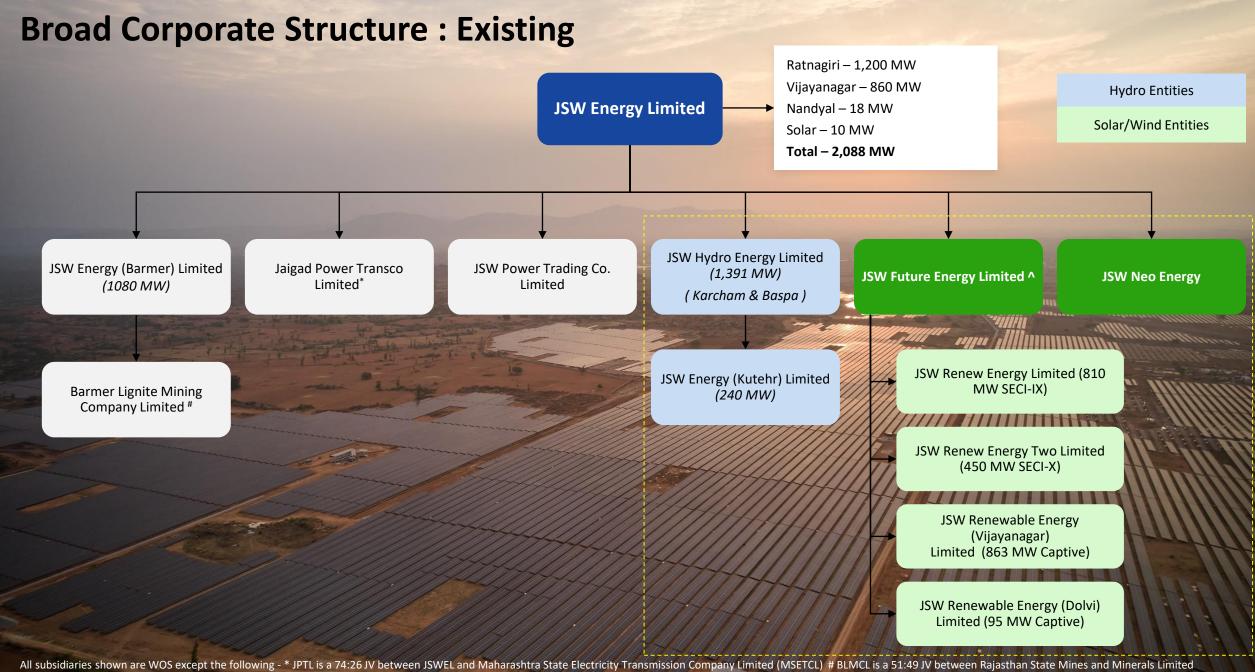
- ✓ Amongst the Strongest Balance Sheet in the sector: 1.77x Net Debt/EBITDA; 0.45x Net Debt/Equity
- ✓ Healthy debt metrics to be maintained while pursuing value accretive growth
- ✓ A healthy cash balance of ₹3,327 Cr and financial flexibility with JSW Steel equity shareholding



- ✓ Proactive Debt Management: Weighted average cost of debt at 7.94%
- ✓ Raised a US\$ 707 million green bond to refinance debt for hydro entity in May'21







(RSMML) and JSWE(B)L ^ JSW Future Energy Limited will be merged with JSW Neo Energy Limited under the scheme of Amalgamation wherein all the assets and liabilities of JSW Future Energy Limited will be transferred to JSW Neo Energy Limited.

Approved by NCLT subject to certain customary approvals.

JSW Neo Energy – Green Energy Vehicle of JSW Energy (Post-Restructuring)

JSW Energy Limited

JSW Neo Energy *
6,028 MW

Hydro Entities

Solar/Wind Entities

JSW Hydro Energy Limited (1,391 MW) (Karcham & Baspa)

JSW Energy (Kutehr) Limited (240 MW) JSW Renew Energy Limited (810 MW SECI-IX) JSW Renew Energy Two Limited (450 MW SECI-X) JSW Renewable Energy (Vijayanagar) Limited (863 MW Captive)

JSW Renewable Energy (Dolvi) Limited (95 MW Captive) Renewable Portfolio of Mytrah Energy (1,753 MW -Acquired) Pipeline SECI XII 300 MW

Pipeline Chhatru HEP 126 MW

6.0 gw

Diversified Asset Portfolio (100% Renewable)

1.6 GW

Installed Capacity
Renewable – 1,616 MW

1.8 gw

Under Acquisition

Renewable Portfolio of Mytrah Energy (1,753 MW)

2.7 gw

Under-Construction

Entirely renewable - 2,233 MW

Pipeline

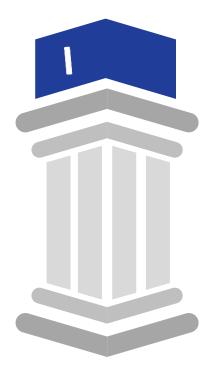
Entirely renewable - 426 MW

* Corporate structure post Acquisition and restructuring. All subsidiaries shown are wholly owned subsidiaries

JSW Neo Growth Framework



Value Accretive Business Model



Prudent selection of growth opportunities

- Bidding based on P90 generation assumption
- Conservative Interest rate assumptions
- Targeted selection- Targeting a niche segment of market offering healthy returns – Mid teen IRRs

Implementation De-risking



Life cycle approach

- Land acquisition, De-scoped project construction, power evacuation and O&M
- Power evacuation
- Proactive approach to get the PPA/PSA executed and tariff adoption

Execution Efficiency



Group's project execution excellence

 Fast execution (in spite of Covid and supply chain issues) while ensuring all safety guidelines

Value Accretive Business Model



Conservative assumptions for business model



Prudent selection of growth opportunities to target a niche segment of market offering healthy returns — **Mid teen IRRs**



High quality offtakers - Captive PPAs with JSW Group companies (strong credit ratings) at arm's length pricing



Modular nature of commissioning of projects; potential for early onset of revenues and earnings



Bidding with prudent assumptions and approach backed by strong data backup

- ✓ Bidding based on **P90 generation assumption**
- ✓ Reasonable Interest rate assumptions
- Targeting mid-teen post-tax equity IRRs

Life-cycle Approach towards Renewable (1/2)



Project Construction and Land Acquisition

- De-scoping of EPC packages to have competitive edge
- Synergies with group businesses (steel, cement, paints, etc.) for better material availability
- Systematic approach of deploying in-house experienced land acquisition team in all resourcerich states
- Deployed experienced legal teams for title search and execution of lease deeds; dedicated team for securing Right-of-Way (RoW)

Power Evacuation

- Strategic selection of ISTS substations for connectivity with high capacity margins to facilitate future expansions
- Identification of land parcel near to substation in order to reduce transmission line cost
- Effective due diligence & route surveys for risk mitigation
- Futuristic planning & designing to optimize use of evacuation infrastructure

Life-cycle Approach towards Renewable (2/2)



Supplier & Vendors

Quality Control

0&M

- Robust selection process through competitive route; Award of packages to best-inclass / Tier-I vendors only
- Comprehensive Contracts with strong performance & product warranty and performance bank guarantee provisions
- Developing strong relationships with all major OEMs, EPC contractors, BoP contractors

- Dedicated team for quality assurance
- Standard operating procedure for quality checks
- Special checks on quality & type test certifications
- Implementation of TQM, ISO and other relevant standards

- Skilled in-house O&M team
- Continuous implementation of innovative practices to further optimize O&M cost through TQM
- Operating Stations supported by experienced professionals at corporate office in areas such as Policy, Regulatory, Design & Engineering, Finance, Construction & Maintenance and HR

Implementation De-risking



Long Term PPA ensuring steady cashflow



Typical timelines for PPA signing & Tariff adoptions

- ✓ PPA signing 90 days from LoA issuance
- ✓ Tariff Adoption 120 days from the Effective date of the PPA

JSW approach:



- ✓ Proactive approach to get the PPA/PSA executed and tariff adoption instead of other competitors to get time extension on above reasons.
- ✓ Faster resolution of proposed changes in PPA in consultation with SECI & Discoms
- ✓ Quick submission of requisite information and performance bank guarantees to cut short timelines
- Continue follow up with SECI, Discoms & Regulators to fast track tariff adoption process

DNA: Group's project execution excellence



Achieved best in the industry project commissioning timeline for solar projects



✓ Commenced operations at 225 MW solar power plant at Vijayanagar in Apr'22. The plant is installed on approximately 1000 acres' land.



- ✓ Construction completed in a record time of less than 12 months despite several headwinds like Covid-19 related disruptions, elevated commodity prices, and global supply chain outages.
- ✓ Project executed in a safe manner complying to all Environment, Health, and Safety norms of the Group and without any Loss Time Injury.



√ 25-year PPA under group captive scheme, provides long term and predictable cash flows.

Kutehr project completion expected well before scheduled timelines



- Achieved commissioning timeline for 225 MW solar project
- 25% faster compared to peers despite Covid related challenges

- 84% tunnelling (17.7km) tunnelling work completed at the end of Q2FY23
- Expected to be completed by Sept 24 well ahead of scheduled timeline

Growth Framework leading to industry-leading returns

Project Execution

No Turn key EPC

contracts: instead

package approach

onset of revenues

with revenue

generation

commissioning; Early

Debt loading coinciding

Modular

creating value with split



Single digit to lower teen IRR%



Equity

IRRs

Pre-Bid

- Current market returns Bidding with due to highly competitive tariffs1
 - Targeting a niche market segment offering healthy returns
 - Pre-bid resources uncertainty on land & connectivity

Mid-teen IRR %



JSW Energy Target Returns

Targeting mid-teen post-tax equity IRRs **Potential Upside Levers Post COD**

- Cost reductions due
- Technology Improvement
- Reducing Interest



Realized Returns

Enhancement In Returns Realized

Preparation

- conservative assumptions
- identification to reduce

to Self O&M

cost via refinancing