

Forward Looking and Cautionary Statement



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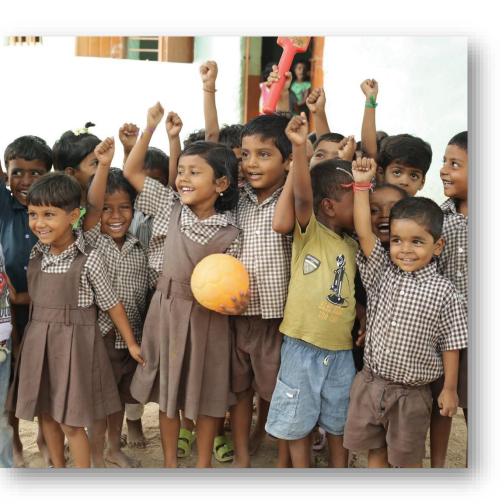
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Agenda





Sustainability

Overview

Key Investment Highlights

Appendix

Sustainability: Framework and Priorities



17 Focus Areas with 2030 Targets from 2020 as Base Year



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



Water Resources: Reduce our water consumption per unit of energy produced by



Waste: 100% Ash (Waste) utilization



Resources



Employee Wellbeing



Social Sustainability



Local Considerations



Indigenous People



Human Rights



Cultural Energy Heritage



Supply Chain Sustainability

























Governance & Oversight by **Sustainability Committee**

2 Independent **Directors**

Ms. Rupa Devi Singh

Mr. Sunil Goyal

1 Executive Director

Mr. Prashant Jain

ESG Ratings

MSCI (#)



B (Management Level)



FTSE4Good Index constituent

Carbon Neutrality by 2050



Committed 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 Approach		
	Climate Change	• GHG Emissions tCO ₂ e/ 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%	 Maintain 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 		
÷i	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)PMSOxNOx	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 		
K	Biodiversity	Biodiversity at our operating sites	-	Achieve 'no net le of biodive		 Continue to enhance Biodiversity at all our locations and operations to acheive 'no net loss' Increase green cover across operations 		

Sustainability: FY21 Performance



Key Highlights



- Steam turbine modernization in 300MW units at Vijayanagar
- · Replacement of Condenser tubes with graphene coating at Vijayanagar
- Commissioned 1.06 MWp Solar Plant at Sherpa Camp at Hydro plant
- · Sustainability Committee formed for low carbon strategy



- Operate Cooling tower with higher Cycles Of Concentration with modified chemical regime
- Operate Existing Effluent recycle plant with 100% utilization
- · Efficient Utilization of rainwater for plant & township use



Waste

- Effective utilisation of 100% of fly ash generated
- Fly ash supplied to Cement & Brick industries



Air Emissions

- Calibration of Low NOx burners at Vijayanagar
- Use of low Sulphur coal at Ratnagiri
- Modification of ESP resulting in reduction of Dust at Barmer



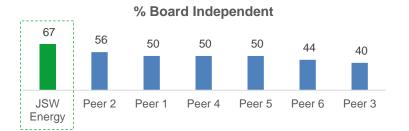
- Plantation of local species by cultivating in own nursery at Ratnagiri
- Two local NGOs engaged for restoration and protection of habitats at Barmer
- Watershed area taken under development of Silvi-pasture plantation at Barmer

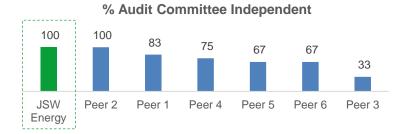
Performance Scope 1 emissions ('000 CO₂ intensity (tCO₂e/MWh) tCO2e) 0.76 17,201 0.68 14,481 FY20 FY21 FY20 FY21 PM Emissions (kg/MWh) Ash Utilisation (%) 0.16 100 0.14 FY20 FY21 FY20 FY21 SOx Emissions (kg/MWh) NOx Emissions (kg/MWh) 1.78 1.01 1.65 0.95 FY20 FY21 FY20 FY21

ESG Performance amongst the best in the sector

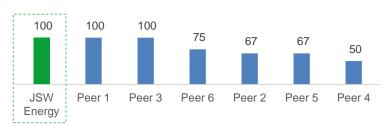


Board & Governance

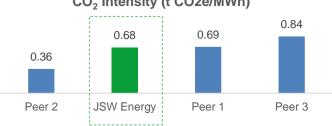




% Nomination & Remuneration Committee Independent



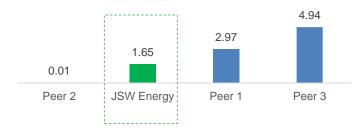




Specific NOx Emissions(Kg/MWh)



Specific SOx Emissions(Kg/MWh)

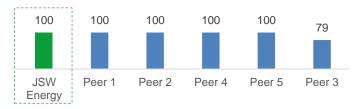


Water & Waste Management

Specific Fresh Water Consumption (m3/MWh)



Ash Utilisation (%)



ESG Ratings*



JSW Energy	В
Peer 1	С
Peer 3	D
Peer 5	D
Peer 6	D
Peer 2	F
Peer 4	F

MSCI

JSW Energy	ВВ
Peer 6	Α
Peer 1	BB
Peer 4	CCC

Peers include: Adani Green, Adani Power, CESC, NTPC, Tata Power, Torrent Power

Board and Governance



JSW Energy has a majority Independent Board (4/6 Directors are Independent)

	Name of Director	Nature	
	Mr. Sajjan Jindal	Chairman & Managing Director	
Mr. Prashant Jain		Joint Managing Director & CEO	
	Mr. Chandan Bhattacharya	Independent Director	

Committee	# Directors	Of which Independent directors	
Audit	3	3 (100%)	
Nomination & Remuneration	3	3 (100%)	
Risk Management	3	2 (67%)	
Stakeholders Relationship	3	2 (67%)	
CSR	3	2 (67%)	
Sustainability	3	2 (67%)	

 Name of Director	Nature
Mr. Munesh Khanna	Independent Director
Ms. Rupa Devi Singh	Independent Director
Mr. Sunil Goyal	Independent Director

Core Principles of JSW Energy						
	Accountability		Social Responsibility			
	Transparency		Environment			
	Integrity		Regulatory Compliance			

Empowering Our Communities



Empowering communities with sustainable livelihoods





Regular water supply through water pipelines & hand pumps in Barmer, Rajasthan



Scaling Community Orchards, Integrated & Progressive Farming, Vegetable Production, Dairy Units



Working with 500+ women across 16+ Gram Panchayats for market linkages, training on new techniques and designs



















Continuing our Health & Safety Excellence Journey



Figures are for Q2 FY21



Zero Severe/Major Injuries



70% of all contractors covered by JSW CARES assessment



40,000+ Cumulative Safety ObservationsINFLUENCING POSITIVE SAFETY BEHAVIOR OF OUR WORKFORCE



Fire Safety refresher training completed at all locations



Safety Awards won by Vijayanagar & Hydro Plants

JSW Energy Vijayanagar received the *Unnatha Suraksha Puraskar* by National Safety Council JSW Hydro Energy, Sholtu received the *PLATINUM Award* from Grow Care OH&S Awards











Sustainability

Overview

Key Investment Highlights

Appendix

JSW Group - Overview



- India's leading integrated steel producer
- Installed crude steel capacity of 18 mtpa, growing to 30.5 mtpa
- Market Cap: ~USD 21.5 Bn



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



Infrastructure

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





USD 13 Bn¹ Group **Amongst India's** leading conglomerates



- Power producer with 7 GW generation portfolio (Hydro, Renewable and Thermal)
- 20 GW Target by 2030, driven by renewables
- Market Cap: ~USD 7.1 Bn



- India's leading Green cement company
- Current capacity of 14mtpa, with a medium term target of 25mtpa
- Product range includes PSC, GGBS, Concrete & **Construction Chemicals**



- Early-stage, tech-focused, VC fund
- Portfolio: Purplle, IndusOS, LimeTray, Homelane

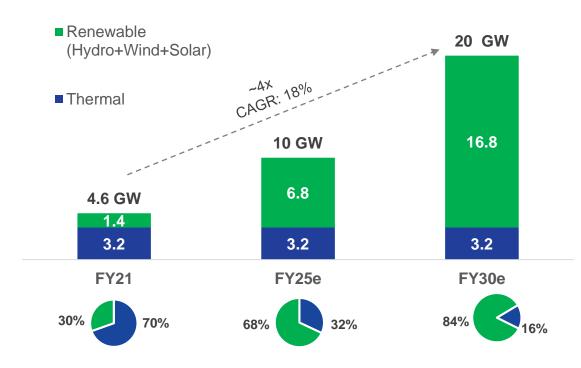


- Social development arm of JSW Group
- Footprint across 11 states
- Positively impacts more than a million lives across India

JSW Energy – Overview



Transforming to ~70% Renewable by FY25 and ~85% by FY30



- Capacity additions only via Renewables
- Carbon Neutral by 2050



4.6 GW Installed 30% Renewable

2.5 GW **Under-construction** 100% Renewable

Diversified Asset Portfolio (7 GW)							
Plant Capacity (MW) Segment							
Operational:							
Ratnagiri	1,200	Thermal					
Barmer	1,080	Thermal					
Vijayanagar	860	Thermal					
Nandyal	18	Thermal					
Karcham Wangtoo	1,091 ¹	Hydro					
Baspa II	300	Hydro					
Solar	10	Solar					
Under-Construction:							
Group Captive – JSW Steel	958	Wind & Solar					
SECI – IX	810	Wind					
SECI - X	450	Wind					
Kutehr	240	Hydro					

Healthy Operations and Financials



86%
Capacity under LT PPA

EBITDA contribution from LT

20 BUs
Net Generation

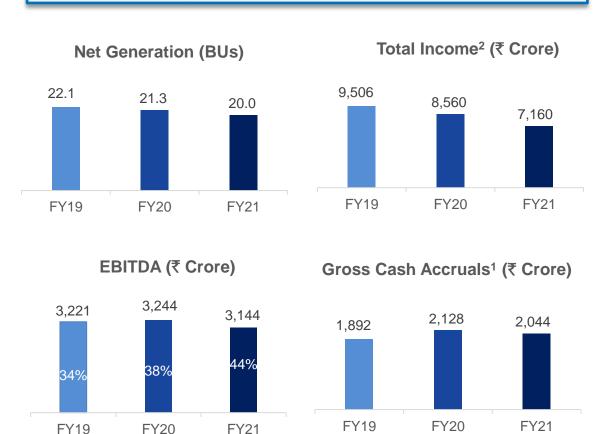
795%
EBITDA contribution from LT

₹ 2,004 Crore
Gross Cash Accruals¹

Figures are for FY21

- ✓ Stable operations despite Covid-19 impact
- ✓ High LT PPA tie-up rendering high cash flow visibility
 - Almost all LT PPA under two-part tariff (fuel cost/forex pass through)
- ✓ Steady EBITDA and Cash Profit Generation
- ✓ Diversified off-takers
 - All plants placed favorably in Merit Order Despatch
 - Hydro projects under 'must-run' status

Business model resilient with steady cashflow generation despite several sectoral headwinds



LT: Long Term;

Robust Balance Sheet



2.01x
Net Debt/EBITDA

0.41x
Net Debt/Equity

8.04 % Wt. average cost of debt

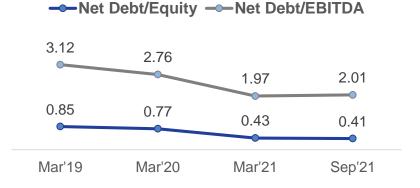
↓ 19% YoY
Decline in Receivables
Outstanding

Figures as of Sep 30, 2021

- ✓ Strong Liquidity with healthy cash balances: ₹1,777 Crore
- ✓ Financial flexibility enhanced by equity investments:
 - Holding 7Cr JSW Steel shares (Value¹: ₹~4,680 Crore)
 - Monetised entire JPVL equity holdings for ~₹167
 Crore in Q1FY22
- ✓ Healthy Credit Ratings:
 - India Rating & Research: AA- (Stable outlook)
 - Brickwork Ratings: AA- (Positive outlook)
- ✓ Access to diverse pools of liquidity

Large balance sheet headroom & strong cashflow available to pursue growth











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JSW Energy - Investment Highlights





Proven Execution Excellence

- Superior project execution skills: projects set-up in lowest cost & time
- Sound operating efficiency: one of the lowest O&M costs per MW amongst IPPs



De-risked Operating Portfolio

- 86% of portfolio has LT PPAs with two-part tariff structure and almost full fuel cost/forex pass through
- ~95% current annual EBITDA derived from LT sales, providing visibility on earnings
- Placed favorably in Merit Order Despatch; diversified off-takers



Robust Renewables Growth Pipeline

- Pivoting from ~30% renewable to ~70% renewable energy by FY25 and to 85% by FY30
- Target to reach 10 GW by FY25 and 20GW by FY30, driven by renewables
- Committed to delivering sustainable growth that generates strong returns for stakeholders
- No new thermal capacity to be added going forward



Strong Balance Sheet

- Balance Sheet amongst the strongest in the sector: 2.01x Net Debt/EBITDA,0.41x Net Debt/Equity
- Healthy Credit Rating: 'AA-'Stable' India Ratings & Research
- Strong B/S and Internal Accruals (GCA ~₹2,000 Crore), sufficient for growth, without any equity dilution



Solid ESG Focus

- To be Carbon Neutral by 2050
- Spearheading development of Green Hydrogen in India
- Committed to set science based emission reduction targets (SBTi) to keep global warming to 1.5°C

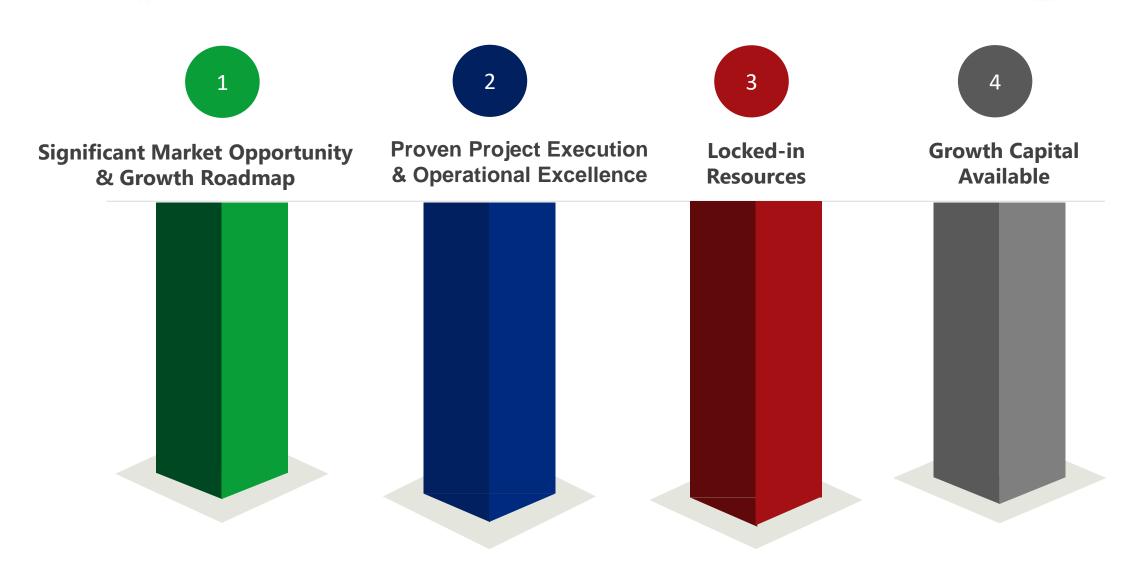


Attractive Power Market

- Power demand expected to grow at CAGR of 5% to 2030
- India has renewables target of 450 GW by 2030 from 102 GW currently
- Govt. committed to power sector reforms

Growth Strategy Pillars





Significant Market Opportunity: Power Demand Growth

■FY21

(Actual)



320

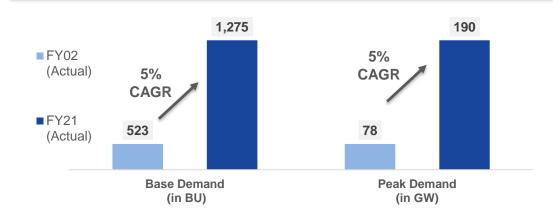
+130 GW

6%

CAGR

190

Historically, Power demand has grown at a CAGR of ~5%



Base Demand (in BU)

Peak Demand (in GW)

Similar growth expected over next decade

+1,104 BU

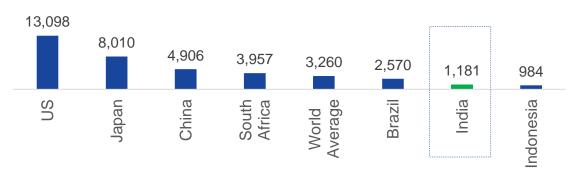
5%

CAGR

1,275

India is world's 3rd largest power producer, however has a low per capita consumption (~1/3rd of world average)

Per Capita Power Consumption (kWh)



Rapid urbanisation and universal electrification to drive power demand

- Sustained economic growth has driven power demand in India: Correlation between Power Demand to GDP growth ~0.7x¹ between FY03-20
- Going forward, unlocking of demand from increased rural electrification and rapid urbanisation to drive demand for power

Significant Market Opportunity: Demand to be met by RE



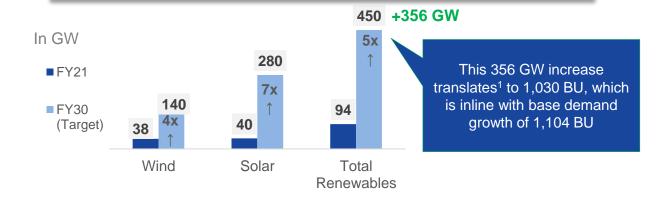
India plans to achieve a low-carbon future, and be Carbon **Neutral by 2070**

India made 5 commitments at the COP26 summit:

- To increase its non-fossil energy capacity to 500 GW by 2030
- To meet 50% of its energy requirements from renewable energy by 2030
- To reduce the total projected carbon emissions by 1 billion tonne from now till 2030
- To reduce the carbon intensity of its economy to less than 45% by 2030
- To be carbon neutral by 2070



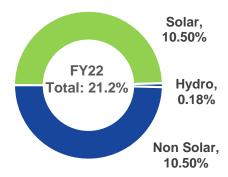
Demand to be met incrementally with Renewable Energy



RPO to provide filip to RE demand

RPO as % of total power purchased

Discoms as well Commercial & Industrial consumers have to renewable adhere to purchase obligation (RPO) for procuring power



India: Attractive market for Renewable Energy Investments

EY's 'Renewable Energy Country Attractiveness Index'

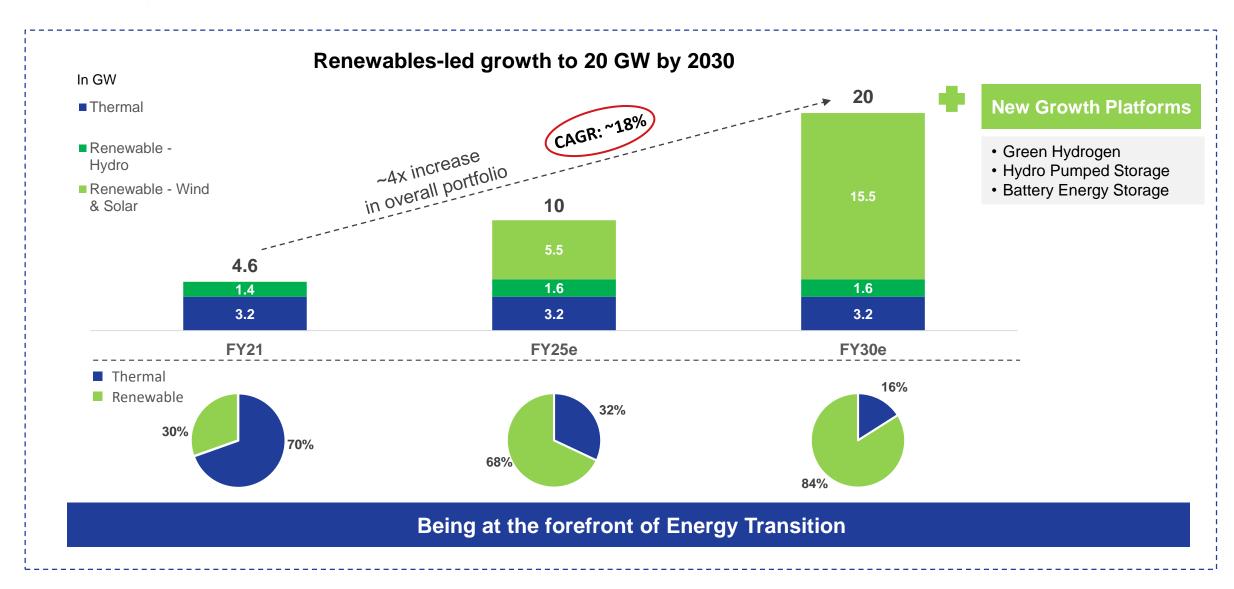
Rank	Country			Rank	C	ountry
1		US		8		Japan
2	*‡	China		11		Brazil
3	•	India		23	•	Argentina
4		UK	•	34	*	Vietnam
5		France		39		Thailand

Source: Source: Press Information Bureau, India, EY, CEA, MNRE

JSW Energy Investor Presentation, November 2021 1- Calculated at est. 33% CUF

JSW Energy: Growth Roadmap to 20 GW

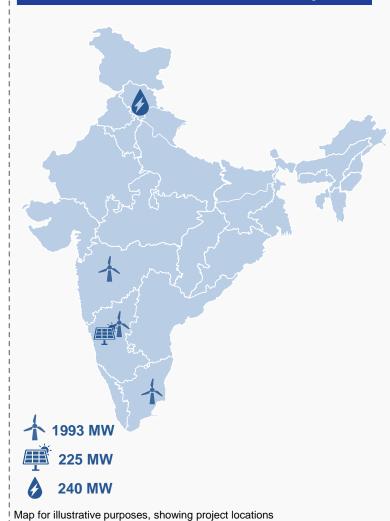




Renewable Energy Projects



2.5 GW Under-construction Projects



SECI: Wind Projects Tamil Nadu: 1,260 MW

- SECI IX (810 MW) + SECI X (450 MW)
- Signed 25-year PPA with SECI
- Commissioning: progressively from Q1 FY23

Group Captive: Wind & Solar Projects Karnataka: 825 MW

- Solar : 225 MW; Wind: 600 MW
- Signed 25-year PPA with JSW Steel
- Commissioning: Solar from Q4 FY22 (Solar), Wind progressively from Q1 FY24

Group Captive: Wind Project Maharashtra: 95 MW

- Signed 25-year PPA with JSW Steel
- Commissioning: progressively from Q4 FY23

Group Captive: Wind Project Tamil Nadu: 38 MW

- Signed 25-year LT PPA with JSW Steel
- Commissioning: progressively from Q4 FY23

Kutehr Hydro Project Himachal Pradesh: 240 MW

- 3x80 MW Run-of-the-river Hydro Power Plant
- PPA under finalization with Haryana Discom
- Commissioning: September CY24

Blended tariff	₹3.08/unit (excl. hydro)		
Capex	•Total : ~₹16,660 Crore •Spent: ~₹1,250 Crore		
PPA	Signed for 2.2 GW		
Land & Resources	Acquired/Locked-in		
Transmission	Construction commenced for dedicated transmission lines for SECI projects		
Equipment	1.4 GW wind turbines orderedSolar module delivery commenced		
Expected Commissioning	 FY22: 100+ MW FY23: 1200+ MW FY24: 700+ MW FY25: 240 MW (Kutehr) Modular/phased commissioning to provide accelerated cashflow generation 		



225 MW Solar Plant Under-construction in Karnataka





Group Captive: 225 MW Solar Power Plant Under-construction in Karnataka Targeted Commissioning from Q4 FY22

1.26 GW Wind SECI IX & X Under-construction in Tamil Nader Energy





Construction commenced for dedicated transmission lines and sub-station Targeted Commissioning from Q1 FY23

240 MW Kutehr HEP Under-construction in Himachal Pradeshy Energy



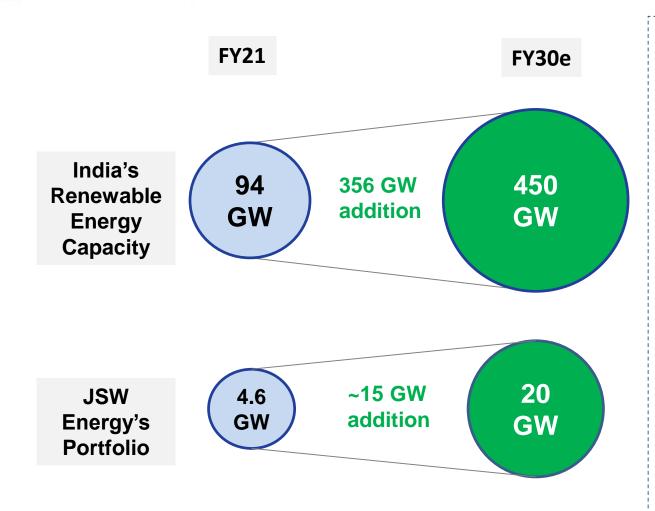


Completed 10 km tunneling, achieving half the distance ahead of timelines

Targeted Commissioning by Sept 2024

JSW Energy: Growth Framework







- JSW Energy plans to add 15 GW renewable capacity, which is ~4% of overall renewable additions
- Applying stringent risk return criteria to target a niche segment of market that can offer healthy returns
- No compromise on shareholder returns to meet growth
 - Target mid-teen post-tax equity IRRs



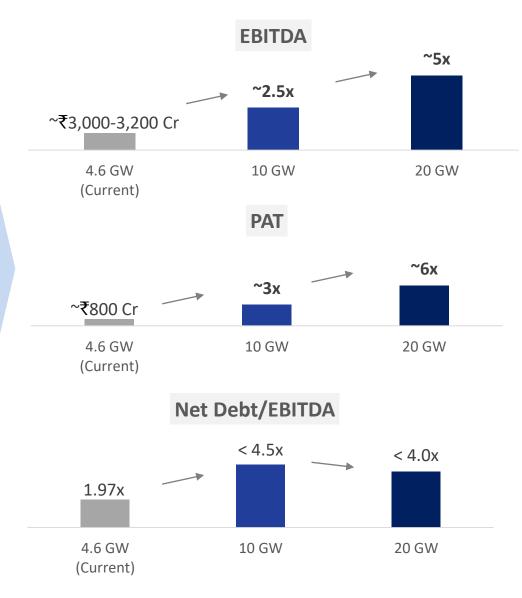
Existing Portfolio (4.6 GW) generating healthy CF & returns¹ of >15%

- Steady operations and robust financials
 - Generating Gross Cash Accruals (GCA) of > ₹2,000 Crore p.a.
- 86% of portfolio tied-up under Long Term PPA:
 - Remaining Avg. Life of PPA: ~20 years
 - Remaining Avg. Life of Assets: ~30 years
- Thermal Business: Ample free cash generation for funding growth and option to refinance/term-out the debt
- Healthy Receivable Management, low working capital tied-up



Growth Portfolio (15 GW)

- Additional Renewable Capacity Additions to have similar return profile of ~15%
- Existing 4.6 GW portfolio and new additions to generate strong cash flows to fund 2 GW p.a. growth upto FY30 and >3 GW p.a. growth post FY30



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 (₹Lakh/MW)



JSW Energy has one of the lowest project execution cost in the industry

Project Location	Capacity	Project cost		1st COD
	MW	₹Crore/MW	\$mn/MW ²	Year
Coal-based				
Nigrie	1,320	7.92	0.11	2014
Janjgir-Champa	1,200	7.02	0.09	2014
Warora	600	6.25	0.08	2013
Padampur	540	6.18	0.08	2013
Chandrapur	600	6.22	0.08	2014
Amarkantak	600	5.23	0.07	2009
Maithon	1,050	5.24	0.07	2011
Udupi	1,200	4.67	0.06	2010
JSW : Ratnagiri ³	1,200	4.60	0.06	2010
JSW: Vijayanagar	260	4.34	0.06	2000
JSW: Vijayanagar	600	3.28	0.04	2009
Lignite Based ¹				
Giral	250	7.69	0.10	2011
Barsingsar	250	7.00	0.09	2010
JSW: Barmer	1,080	6.63	0.09	2009

⁽¹⁾ High capital cost due to CFBC boilers for lignite based power plant

⁽²⁾ USD/ INR = 74.5 (3) Includes FGD Cost Source: Respective Company filings

Project Execution: Life-cycle Approach towards Renewable (1/2)

Project Selection Philosophy

Project Construction and Land Acquisition

Power Evacuation

- Stringent risk return metrics
- Bidding with conservative CUF assumptions of P-90
- · High quality offtakers
- Captive PPAs with JSW Group companies (strong credit ratings) at arm's length pricing

- 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 inhouse experienced land acquisition team in all resource-rich states
- Deployed experienced legal teams for title search and execution of lease deeds; dedicated team for securing Right-of-Way (RoW)

- 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

Project Execution: Life-cycle Approach towards Renewable (2/2) Energy

Supplier & Vendors

Quality Control

O&M

- Robust selection process through competitive route; Award of packages to best-in-class / 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

Locked-in Resources



- ✓ Systematic approach of deploying in-house experienced land acquisition team in all resource-rich states
- ✓ Deployed experienced legal teams for title search and execution of lease deeds; dedicated team for securing RoW
- ✓ Acquired/ Locked-in sites in resource rich states, along with requisite transmission connectivity



Site Photo for upcoming project

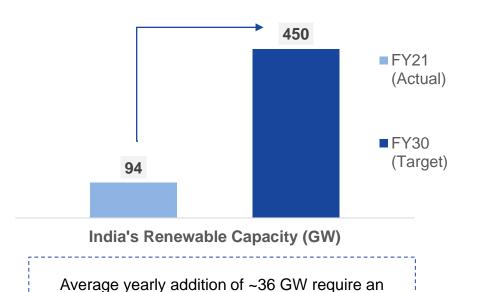
Acquired resources for 2.5 GW, which is underconstruction

Another 3 GW is locked-in

Around 15 GW in process



Significant investments required in renewable energy industry



investment of ~₹2 lakh Crore¹ p.a.

JSW Energy has sufficient balance sheet headroom & strong cashflow to pursue growth to 20 GW by FY30

- Sources for Growth Capital Available:
 - Balance Sheet Strength (current gearing ~0.41x)
 - Internal Accruals: Steady EBITDA & cashflow from operating projects (GCA: >₹2,000 Crore annually)
 - · Healthy Cash Balance
 - No equity dilution envisaged for this growth
- Non-strategic Equity Investments (JSW Steel: ~₹4,680 Crore²) gives further headroom to accelerate growth, if required
 - Monetised entire JPVL³ equity holdings for ~₹167 Crore in Q1 FY22
- · Access to diversified pools of liquidity

Agenda





Sustainability

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Key Investment Highlights

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JSW Energy – Portfolio Growth with Renewables



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/\$962mn²

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/\$740mn²

Nandyal: 18 MW

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

Vijayanagar: 860 MW

- Configuration: 2 X 130MW and 2 X 300MW
- Units operating: since 2000³
- Technology: Sub-critical TPP
- Fuel Source: Imported Thermal Coal & Gas
- Power Offtake: Long Term PPA: 35%
- Project Cost: INR 3,096 Crore/\$416mn²

4.6 GW 2.5 GW Under-Installed Construction 30% Renewable 70% Thermal 100% Renewable

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/\$1,245mn²

Solar: 10 MW

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

Kutehr: 240 MW (Under - Construction)

- Configuration: 3x80MW
- Fuel Source: Hydro Power Plant
- Power Offtake: PPA with Haryana under finalization

Renewable : 2,218 MW (Under - Construction)

- 810 MW, Wind: SECI IX PPA Signed
- 450 MW, Wind: SECI X PPA Signed
- 733 MW Wind, 225 MW Solar : JSW Steel PPA Signed

Long term FSA with BLMCL for supply of lignite from its captive mines (2)) USD/ INR = 74.5

- (3) Denotes start of first unit in respective calendar year; TPP Thermal Power Plant
- JSW Energy Investor Presentation, November 2021

Awards & Recognitions - FY21





- National Energy Conservation Award-2020 by Ministry of Power
- Rajasthan Energy Conservation Award-2020
- Achieved Five-star grading in the British Safety Council's Occupational Health and Safety Audit
- Awarded 'National Efficiency Awards 2021' for Best Energy Efficient Plant- Lignite by Mission Energy Foundation



- Ratnagiri
- Recognized as 'Energy Efficiency Unit' at the CII National Award for Excellence in Energy Management
- Awarded State Award for Excellence in Energy Conservation & Management, by Maharashtra Energy Development Agency
- Awarded 'The Best Operating Thermal Power Generator' by Independent Power Producers Association of India (IPPAI)



- Vijayanagar
- JSW Group's Unit CPP 4 300 MW at Vijayanagar, whose Operation and Maintenance (O&M) is undertaken by the Company, set a national record by running continuously for 711 days
- Recognized as 'Energy Efficiency Unit' at the CII National Award for Excellence in Energy Management

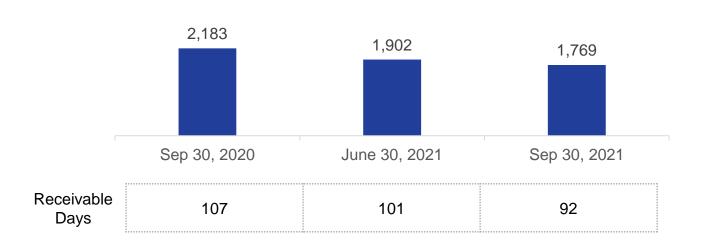


- Grow Care India Environment Award-2020 (Gold Shield)
- Grow Care India Safety Award-2020 (Gold Shield)

Trade Receivables



Consolidated Trade Receivables* (₹ Crore)



- Receivables decline 19% YoY in Q2 FY22
 - Q2 FY21 was impacted by Covid related delays from customers
- 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

Receivables decline 19% YoY in Q2 FY22

Power Demand



Power Demand Growth YoY



Power demand in H1 FY22 saw a strong increase of 13.0% YoY

- A strong pickup in economic activity coupled with a low base effect.
- In H1 FY21 demand had declined by 8.7% YoY when Covid-19 led restrictions/lockdowns were first imposed in the country
- Power demand in Q2 FY22 stood at 9.9% YoY
 - Demand had turned positive for the first time last year in the month of Sep'21, with a 3.8% YoY increase
 - In Q2 FY22, All India demand had touched an all time high of ~203 GW in the month of Jul'21
- For first 27 days in Oct'21, power demand increased by 3.3% YoY (and 14.4% compared to Oct'19)

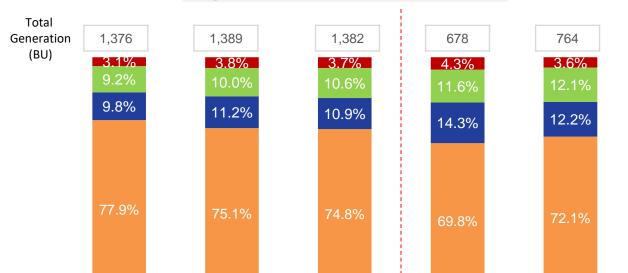
Power Demand growth at a healthy 13% in H1 FY22

Power Generation









Segment-wise Share in Generation

- In H1, Generation increased 12.7% YoY led by RE (18%) and Thermal (16%) segments
- In Q2, Generation increased 9.1% YoY led by RE (22%) and Thermal (9%)segments

Share of Thermal and Renewables increased, while that of Hydro declined in H1 YoY

FY21

H1 FY21

■ RE ■ Other (Nuclear+Import)

FY19

FY20

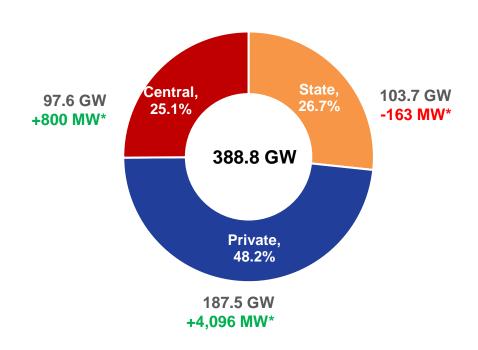
Thermal

Hydro

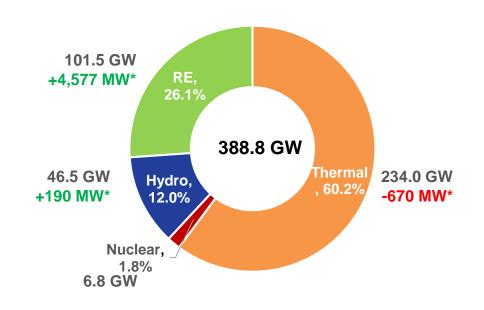
H1 FY22



Sector-wise Installed Capacity



Segment-wise Installed Capacity



As on June 30, 2021

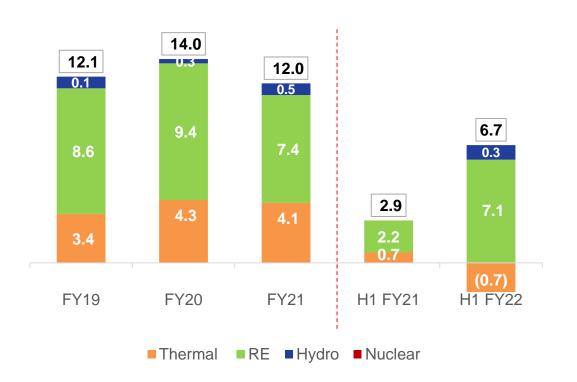
In Q2 FY22, Installed Capacity increased by net 4.7 GW, driven by Renewable Energy segment Total Renewable Energy capacity (excl. hydro) in India crossed 100 GW mark in Sept'21

Installed Capacity

(2/2)

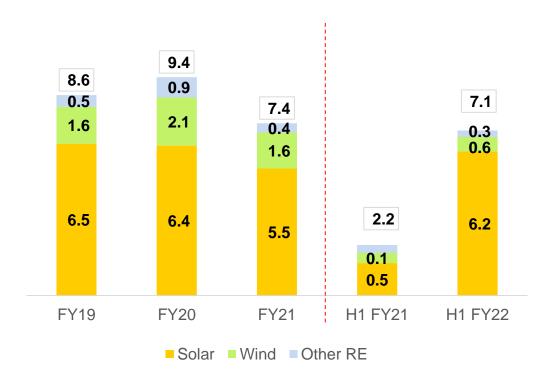


Overall Segment-wise Net Capacity Addition (GW)



Renewable energy driving capacity addition

RE Segment-wise Net Capacity Addition (GW)

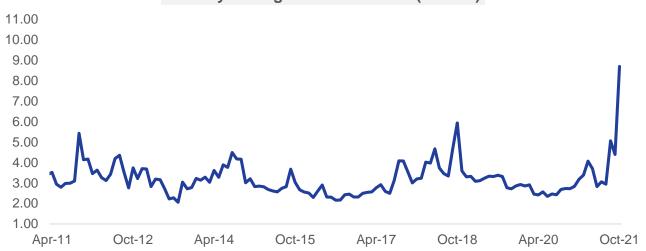


7.1 GW RE capacity added in H1 FY22 driven by solar segment

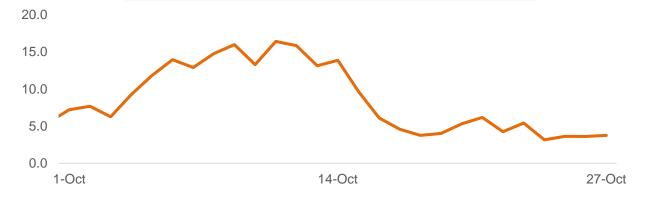
Merchant Market Snapshot







Daily Average Merchant Tariff: October 2021 (Rs/unit)



- Monthly Merchant Prices averaged at Rs 8.7/unit in October'21¹ – Highest in the last decade
 - Primarily driven by high demand, constraints in domestic coal supply and rise in imported coal prices globally
 - Coal stocks at power plants had fallen to less than 5 days supply amid high power demand and seasonally low coal production & supply constraints
 - To ease the domestic coal shortage, Govt. has taken mitigation measures, that include:
 - allowing un-requisitioned generation capacity under PPA to sell power in merchant market
 - allowing captive coal/lignite mine owners to sell 50% of annual produce in open market
 - proposing for revision in coal stocking norms for thermal plants
- Daily Max. price touched Rs 20/unit for the first time on IEX
- Volumes¹ in Day-Ahead-Market in Oct increased ~25% YoY to 5,978 MU from 4,700 MU in corresponding period last year

Merchant Tariffs at a decade high in October 2021

