



**Q1 FY22**  
**Results Presentation**  
July 30 2021



# Forward Looking and Cautionary Statement

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# #RuknaNahiHai

JSW



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## Champions can't be stopped

While the world came to a standstill, our champions kept going. Working harder and longer to help our nation shine on the global stage.

JSW salutes their commitment and wishes the Indian contingent the very best for the Tokyo Olympics.



SCAN HERE  
TO WATCH THE FILM





## Operational

- Long Term (LT) Net Generation: Higher by 4% YoY
- LT Net Thermal Generation: Higher by 13% YoY
- Commenced operations from 45 MW uprated capacity at Karcham Wangtoo HEP in July '21. Operational capacity of the plant increased from 1,000 MW to 1,045 MW



## Consolidated Financials

- EBITDA: ₹830 Crore
- Adjusted Profit After Tax<sup>1</sup>: ₹261 Crore
- Receivables declined 30% YoY
- Healthy Balance Sheet, well-positioned to pursue growth
  - Net Debt to Equity at 0.41x
  - Net Debt to EBITDA (TTM) at 2.09x
  - Strong Liquidity: Cash & Cash Equivalents<sup>2</sup> at ₹1,648 Crore
- India Ratings and Research assigned the following credit ratings:
  - JSW Energy (Barmer) Ltd: IND AA- (Stable)
  - Jaigad PowerTransco Ltd: IND AA (Stable)
- With a view to further strengthen its capital base, the Board of Directors of JSW Energy (Barmer) Limited (JSWEBL), a wholly owned subsidiary of the Company, has approved ₹1,265.77 Crore Bonus Issue, subject to the approval of Shareholders of JSWEBL



## Update on Growth Strategy

- Renewable-led growth to reach 10 GW capacity by FY25 and 20 GW by FY30
- 2.5 GW under-construction in full-swing:
  - 810 MW - SECI IX: 100% capacity under LT PPA (Signed PPA for 270 MW in July, and 540 MW earlier in May)
  - 450 MW - SECI X: PPA to be signed in Q2 FY22
  - 958 MW Group Captive with JSW Steel: LT PPA signed for entire capacity
  - 240 MW Kutehr HEP: PPA under finalization with Haryana discom
- Green Hydrogen: Signed framework agreement with Fortescue Future Industries Pty Ltd to collaborate and conduct scoping work on potential projects for production of green hydrogen in India
- Board's in-principle approval received for evaluating options for reorganising the Company's Green (Renewable) and Grey (Thermal) businesses



## Awards and Recognitions

- Vijayanagar: Golden Peacock National Quality Award - 2021
- Ratnagiri: Winner (Gold Category), by SEEM National Awards for Energy Conservation and Management
- Hydro: Silver (Runner-up) Award at 9<sup>th</sup> FICCI Safety system Excellence awards

# Progress Update: Renewable Projects

## Key Updates on 2.5 GW Under-construction projects:

**PPA**

810 MW SECI-IX:  
 ✓ 100% capacity tied under LT PPA  
 ✓ 270 MW PPA secured in July; 540 MW was secured earlier in May  
 958 MW Group Captive with JSW Steel : LT PPA signed for entire capacity  
 450 MW SECI-X: PPA to be signed in Q2

**Land & Resources**

✓ Acquired/Locked-in resources for all 2.5 GW under-construction projects

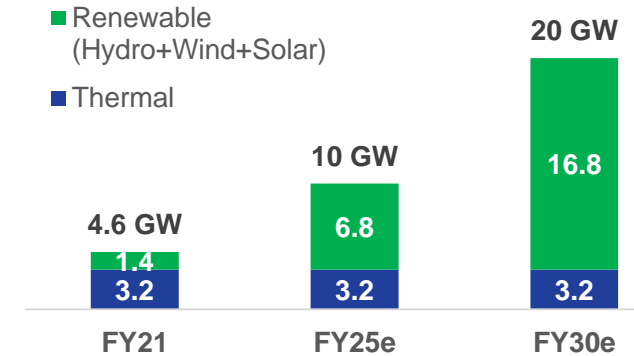
**Transmission**

✓ Received CTU transmission connectivity approvals for 1,260 MW SECI-IX and SECI-X projects

**Equipment**

✓ Orders placed for Solar Modules and Term sheets signed for Wind Turbines with leading equipment manufacturers

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



For 2.5 GW RE projects under-way:

### Commissioning Schedule

- FY22: 200+ MW
- FY23: 1200+ MW
- Optionality of modular commissioning to provide additional cashflow generation before full commissioning

**Blended Tariff:** ₹3.31/unit

**Total Capex:** ~₹15,800 Crore

# JSW & FFI to collaborate on Green Hydrogen

## Spearheading development of Green Hydrogen in a bid to decarbonize the economy



**FORTESCUE  
FUTURE  
INDUSTRIES**



- JSW Future Energy and Australia's Fortescue Future Industries Pty Ltd (FFI) to collaborate and conduct scoping work on potential projects relating to the production of green hydrogen
- Utilisation potential across green steel making, hydrogen mobility, green ammonia and other mutually agreed industrial applications
- Collaboration to tap significant clean energy market opportunity in India and become a front-runner in a future hydrogen economy

## India's Hydrogen Potential

### H<sub>2</sub>

### Significant H<sub>2</sub> 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



### India's Clean Energy commitments

Green H<sub>2</sub> adoption can contribute to emission reduction in allied sectors



### 2030 RE Generation Target of 450 GW

RE generation at low tariffs can help achieve scale in Green H<sub>2</sub> production



**Sustainability**

**Operational & Financial Performance**

**Business Environment**

**Appendix**



## Sustainability

Operational & Financial Performance

Business Environment

Appendix

# Comprehensive Covid-19 Relief & Response



**2,800+** workforce vaccinated via drives conducted across locations



**24x7** Covid support helpdesk for employees and their families. Hospital beds and Covid Ambulance for village communities



**450+** beds provided in isolation centres created across locations



**40** Oxygen Concentrators, and numerous PPE kits donated to District Administration, Barmer



**700** households and migrant workers supported by food distribution drives at Barmer



**JSW WeCare** Workshops organised for Employee Mental Health Well Being during Covid-19 scenario

# Sustainability: Framework and Priorities

## 17 Focus Areas with 2030 Targets from 2020 as Base Year

<p><b>Climate Change:</b> Committed to being carbon neutral by 2050 Reduce our carbon emissions by more than 50%</p>	<p><b>Biodiversity:</b> No Net Loss for Biodiversity</p>
<p><b>Renewable Power:</b> Enhance the renewable power to 2/3rd of our Total Installed Capacity</p>	<p><b>Waste Water:</b> Zero Liquid Discharge</p>
<p><b>Waste:</b> 100% Ash (Waste) utilization</p>	<p><b>Water Resources:</b> Reduce our water consumption per unit of energy produced by 50%</p>

Resources	Employee Wellbeing	Social Sustainability	Local Considerations	Indigenous People	Human Rights
Supply Chain Sustainability	Sustainable Mining	Air Emissions	Business Ethics	Cultural Heritage	Energy

## Governance & Oversight by Sustainability Committee

2 Independent Directors	Mr. Sunil Goyal
	Ms. Rupa Devi Singh
1 Executive Director	Mr. Prashant Jain

## ESG Ratings

MSCI	BB
CDP	B (Management Level)
FTSE4Good	FTSE4Good Index constituent

## Carbon Neutrality by 2050

	Committed to set science based targets to keep global warming to 1.5°C under SBTi
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## Integrated Reporting since FY19

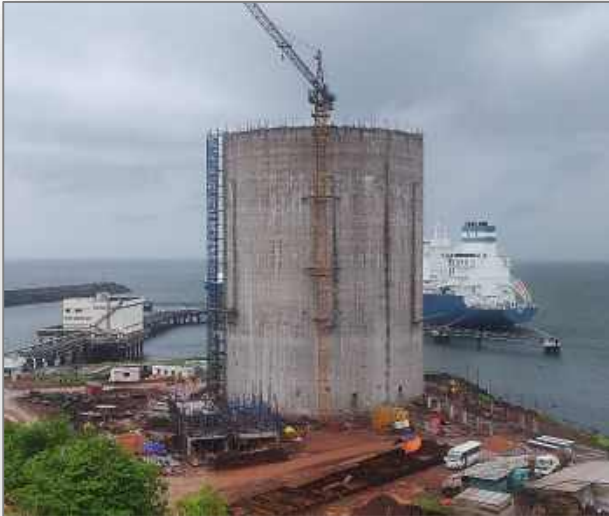
**Aligned to National & International Frameworks**

International Finance Corporation			

# Sustainability: Targets and Strategy

SD Targets		FY20 Actuals	FY30 Targets	Improvement	Strategic Approach
<b>Climate Change</b>	<ul style="list-style-type: none"> <li>GHG Emissions tCO<sub>2</sub>e/ MWh</li> </ul>	0.76	<b>0.304</b>	60%	<ul style="list-style-type: none"> <li>Increased share of renewable energy for deep decarbonization</li> <li>Process efficiency improvements</li> <li>Replacement of condenser tubes with graphene coatings</li> </ul>
	<hr/>				
<b>Water Security</b>	<ul style="list-style-type: none"> <li>Specific fresh water intake (m<sup>3</sup>/MWh)</li> </ul>	1.10	<b>0.591</b>	46%	<ul style="list-style-type: none"> <li>Maintaining zero liquid discharge across operations</li> <li>Optimising utilisation of rain water harvesting system</li> <li>Installation of technology for operating cooling towers with higher Cycles of Concentration with modified chemical regime</li> <li>Reuse of treated effluent of Sewage Treatment Plan for horticulture</li> </ul>
	<hr/>				
<b>Waste</b>	<ul style="list-style-type: none"> <li>Specific Waste (Ash) Generation (t/MWh)*</li> </ul>	0.070	<b>0.032</b>	54%	<ul style="list-style-type: none"> <li>Integrated Strategy towards efficient waste management</li> <li>Optimizing utilisation of low ash coal</li> </ul>
	<ul style="list-style-type: none"> <li>Waste Recycled - Ash (%)</li> </ul>	100	<b>100</b>	-	
<hr/>					
<b>Air Emissions</b>	<ul style="list-style-type: none"> <li>Specific process emissions(Kg/MWh)</li> </ul>	0.16	<b>0.053</b>	67%	<ul style="list-style-type: none"> <li>Ensuring ESP (Electrostatic Precipitator) Fields availability</li> <li>Optimising Lime dosing system efficiency</li> <li>Process efficiency improvements</li> </ul>
	<ul style="list-style-type: none"> <li>PM</li> </ul>	1.78	<b>0.683</b>	61%	
	<ul style="list-style-type: none"> <li>SOx</li> <li>NOx</li> </ul>	1.01	<b>0.373</b>	63%	
<hr/>					
<b>Biodiversity</b>	<ul style="list-style-type: none"> <li>Biodiversity at our operating sites</li> </ul>	-	Achieve <b>'no net loss'</b> of biodiversity		<ul style="list-style-type: none"> <li>Continue to enhance Biodiversity at all our locations and operations to achieve 'no net loss'</li> <li>Increase green cover across operations</li> </ul>

## Committed Towards Efficient Waste Management



Building a state of the art infrastructure for bulk shipments of Fly Ash to international markets, at port-based Ratnagiri power plant. Growing demand for fly ash in international markets in cement & construction



Waste

## Efforts To Reduce Air Emissions By Modification of ESP



Modification of Electrostatic Precipitator under-way at Barmer plant; Demonstrating our commitment towards reduction in air (SPM) emissions



Air Emissions

## Rainwater Harvesting in one of India's Driest regions

Before



After



Restoration of traditional Rainwater harvesting structures, i.e. Naadis (village ponds) near Barmer plant, in Rajasthan



Water Security

# Continuing our Health & Safety Excellence Journey

Figures are for Q1 FY22



**JSW CARES** assessment completed for 34 of 77 contractors at various locations



**Safety Meetings (Monthly)** with contractors



**18,000+ Safety Observations**  
INFLUENCING POSITIVE SAFETY BEHAVIOR OF OUR WORKFORCE



**MySetu Software** implemented at Kutehr Project location for Safety Observations

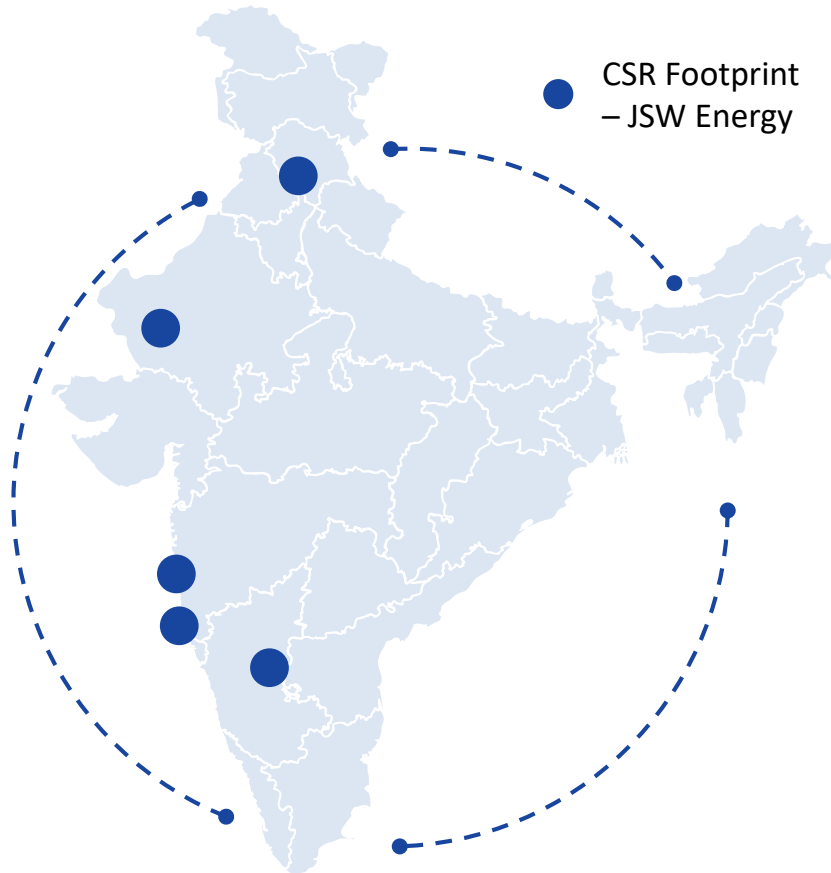


**66 e-Learning modules** completed  
**6 employees** enrolled for Safety Champions Program



# Empowering Our Communities

## Empowering communities with sustainable livelihoods



### National Youth Boxing Championship

13 boxers selected:  
3 from JSW Energy's SHIKHAR Initiative (Hydro plants), and  
10 from Inspire Institute of Sport, (IIS), Vijayanagar

Further, 2 SHIKHARites won Gold and Bronze medals



10 IIS athletes qualified for Tokyo Olympics 2021



Health & Nutrition



Water & Environment



Waste Management



Agri-business



Education



Women's BPO & Livelihoods



Skill Enhancement



Art, Culture & Heritage



Sports



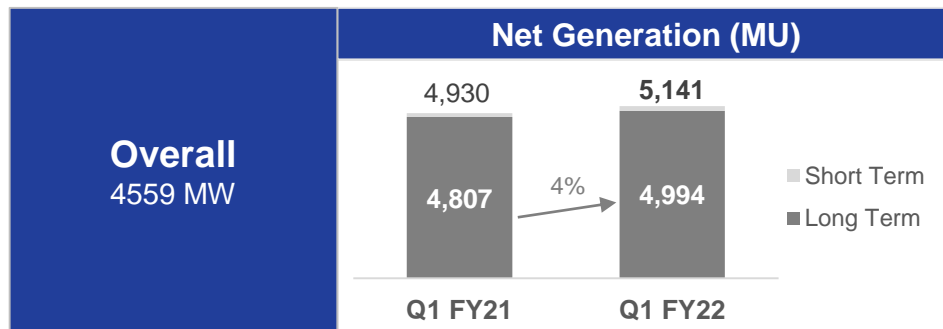
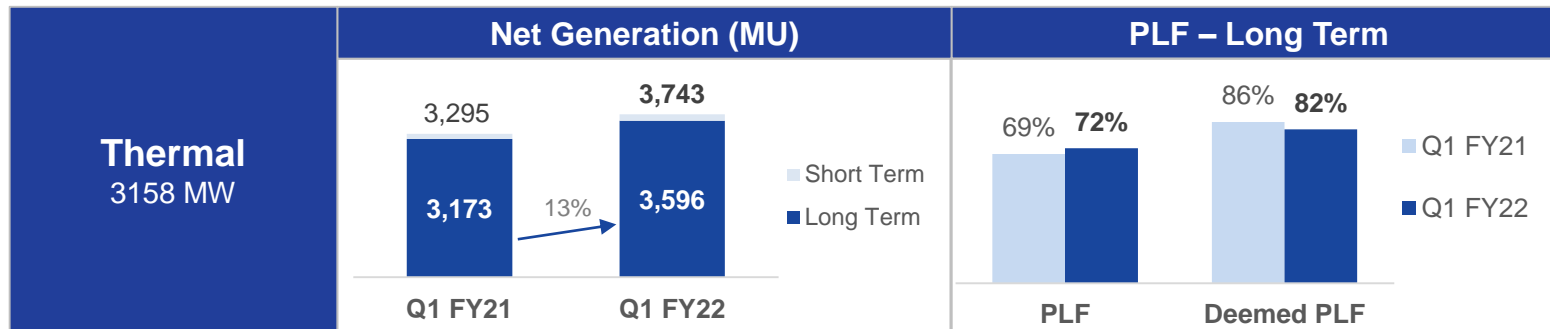
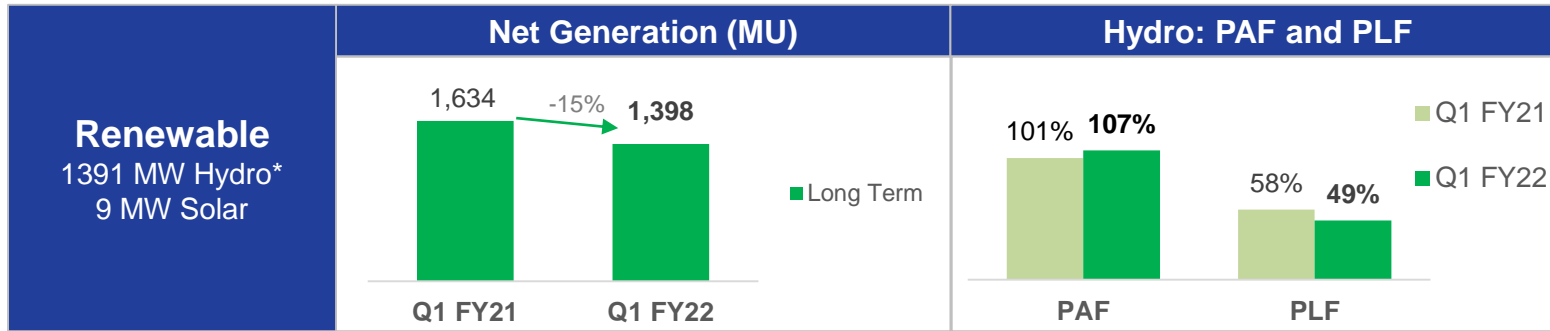
Sustainability

**Operational & Financial Performance**

Business Environment

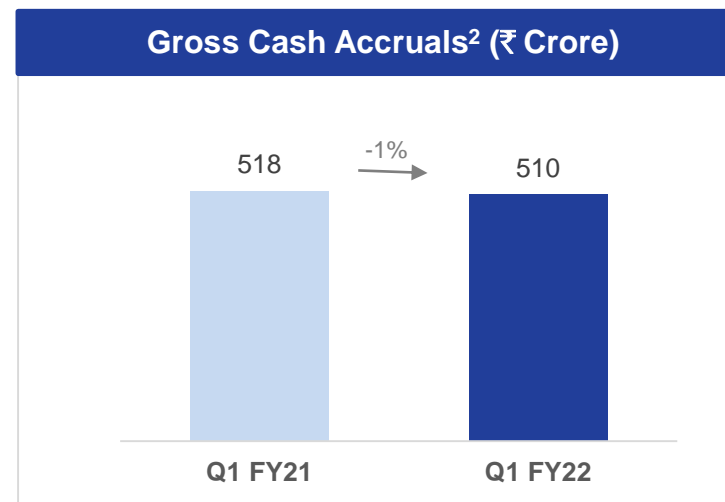
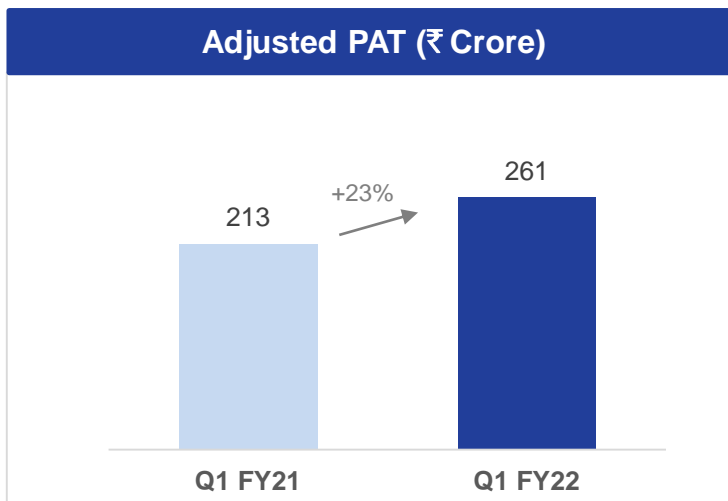
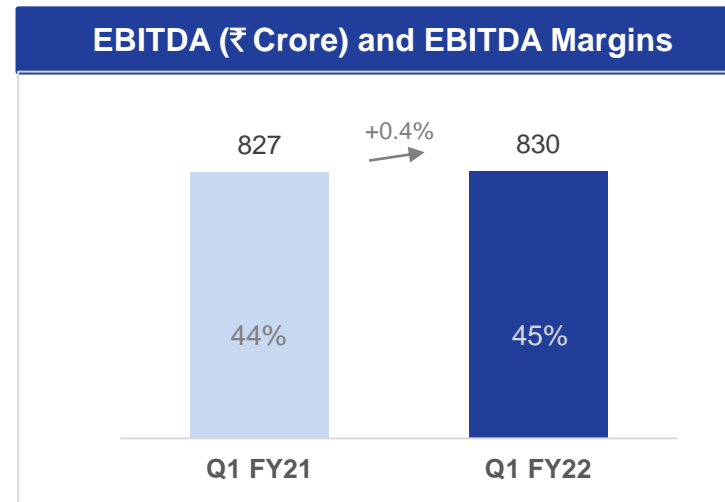
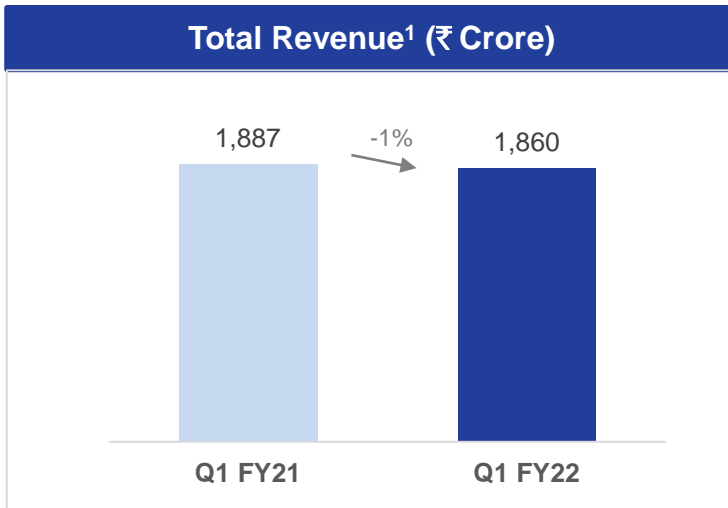
Appendix

# Operational Performance



- **Hydro PAF higher YoY**
- **Renewable Net Generation lower by 15% YoY**
  - This was due to lower water flow at hydro plants
- **Thermal Generation for capacity under Long Term PPA up 13% YoY**
  - Driven by higher offtake from long term customers across all plants YoY
  - Last year's generation was impacted by lower demand due to Covid
  - Deemed PLF slightly lower due to annual maintenance activities
- **Overall Generation for capacity under Long Term PPA up 4% YoY**

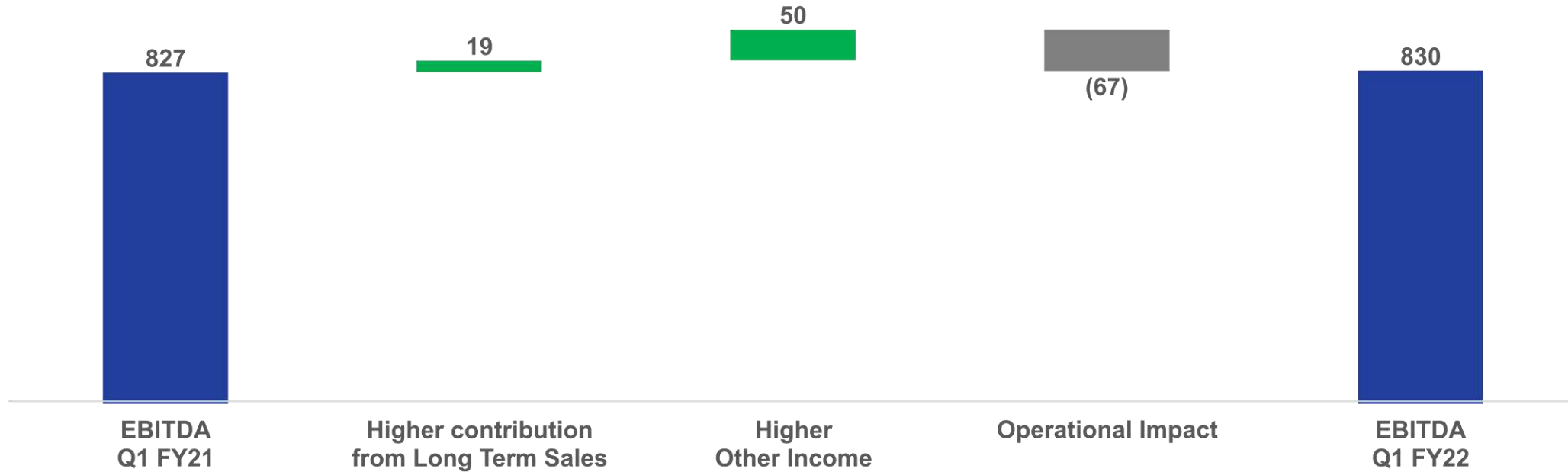
# Consolidated Financial Performance



- Revenue decline mainly attributable to the impact of job work at the standalone entity, which was partly offset by increase in long term sales and higher other income
- Maintained strong EBITDA, PAT and GCA generation
- PAT, adjusted for one-time finance charges, stood higher by 23% YoY
  - This is primarily due to one-time expenses of ₹92 Crore towards prepayment charges and write-off of unamortised other borrowing cost relating to rupee denominated loans of JSW Hydro Energy Ltd. The loans have been replaced with a USD denominated green bond issued in Q1 FY22

# EBITDA Bridge

Particulars in ₹ Crore



Steady EBITDA generation

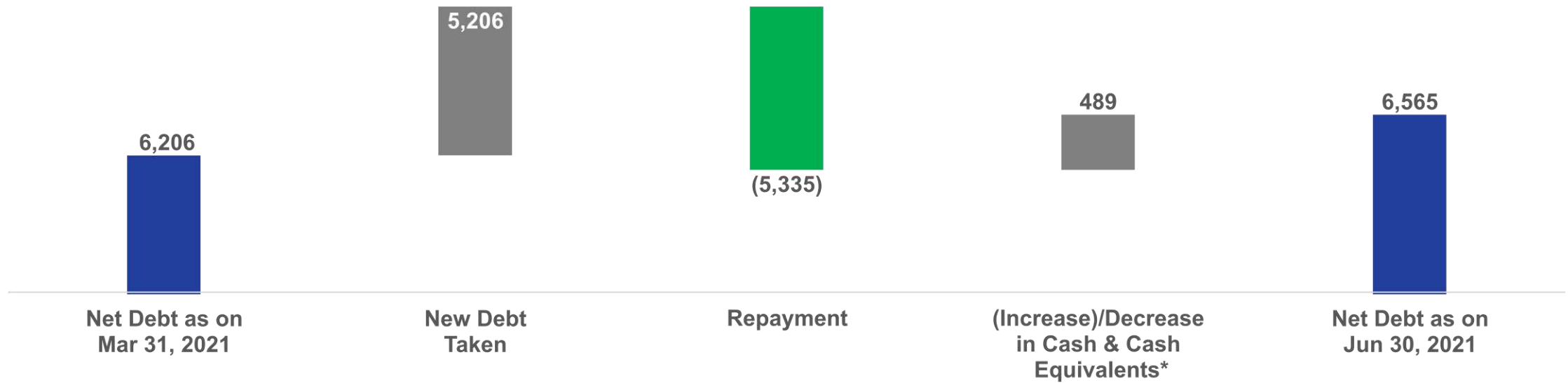
# Robust Balance Sheet

- Amongst the strongest balance sheets in the sector - Well positioned to pursue growth opportunities
- Strong Liquidity with healthy cash balances<sup>1</sup>: ₹1,648 Crore
- Financial flexibility enhanced by equity investments:
  - JSW Steel shares: 7 crore shares held (Value as on June 30, 2021: ₹~4,790 Crore)
  - JPVL shares: Monetised entire holdings for ~₹167 Crore in Q1 FY22
- Healthy Credit Ratings:
  - India Rating & Research: AA- (Stable outlook)
  - Brickwork Ratings: AA- (Positive outlook)
- Access to diverse pools of liquidity

Figures in ₹ Crore	As on Jun 30, 2021
<b>Networth</b>	15,939
<b>Net Debt</b>	6,565
<b>Net Debt/EBITDA</b>	2.09x
<b>Net Debt/Equity</b>	0.41x
<b>Wtd. Average Cost of Debt</b>	8.05%

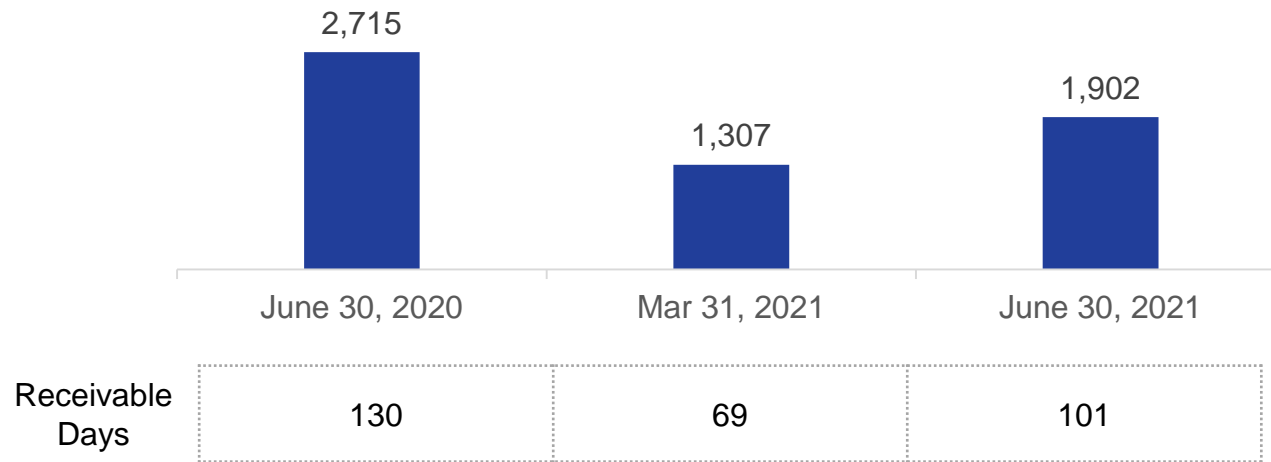
# Net Debt Movement

Particulars in ₹ Crore



Large balance sheet headroom available to embark on growth projects

## Consolidated Trade Receivables\* (₹ Crore )

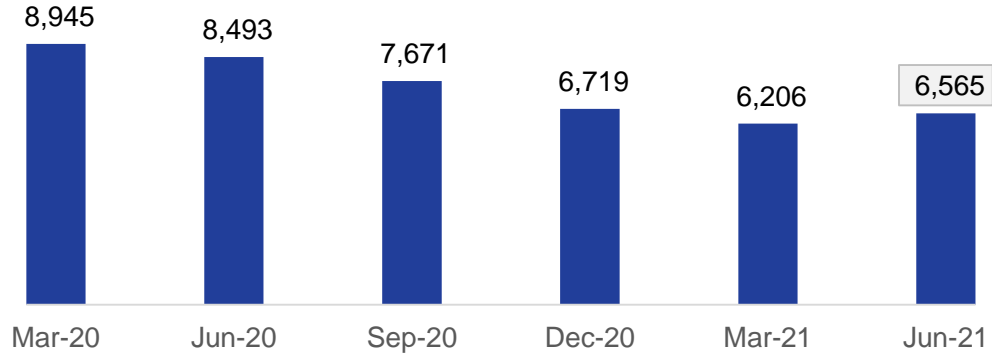


- Receivables decline 30% YoY in Q1 FY22
  - YoY: Q1 FY21 was impacted by Covid related delays from customers
  - QoQ: Impact due to seasonality in Hydro generation as well as Covid related delays due to second wave of covid in Q1
- All plants placed favourably in States' Merit Order Dispatch
  - Further, 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

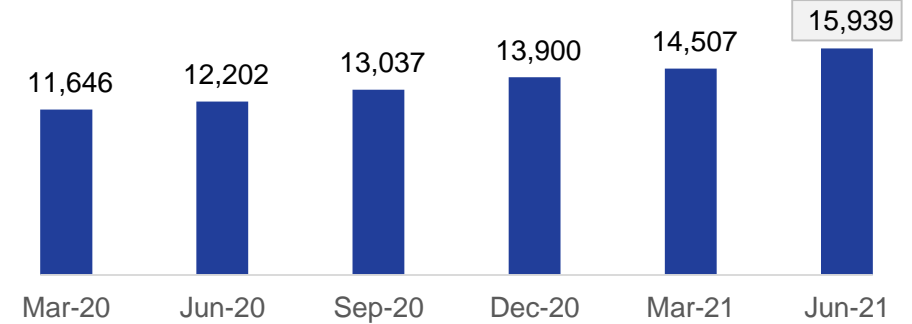
**Receivables decline 30% YoY in Q1 FY22**

# Balance Sheet

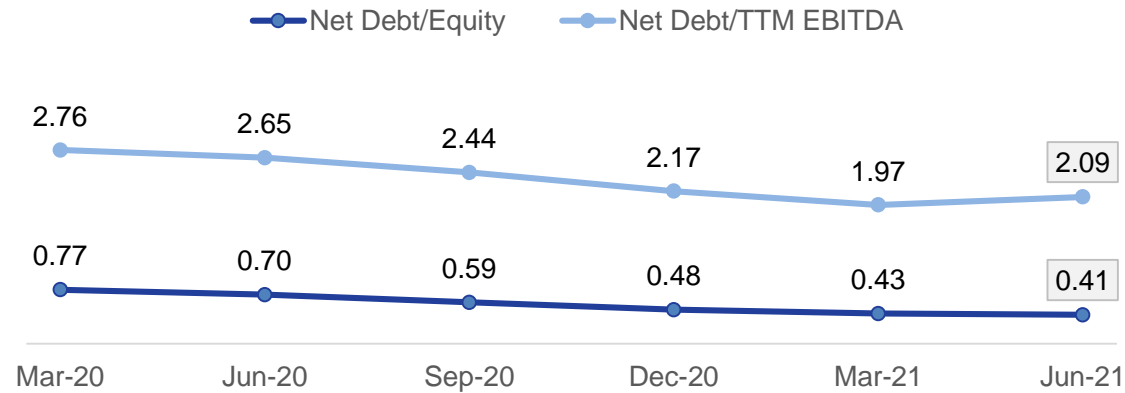
Net Debt (₹ Crore)



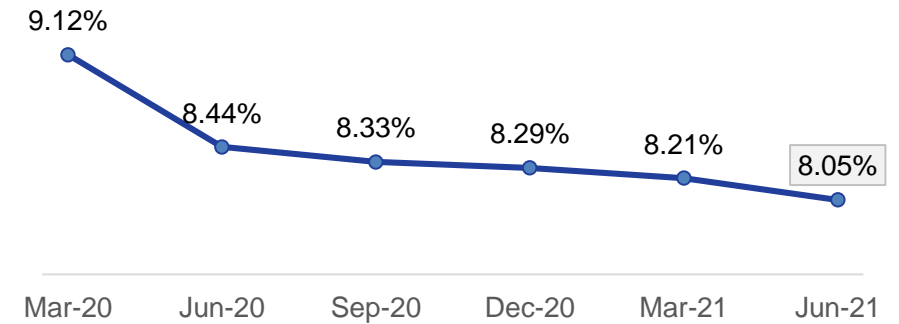
Net Worth (₹ Crore)



Leverage Ratios



Wt. Average Cost of Debt



**Amongst the strongest balance sheets in the sector - Well positioned to pursue growth opportunities**



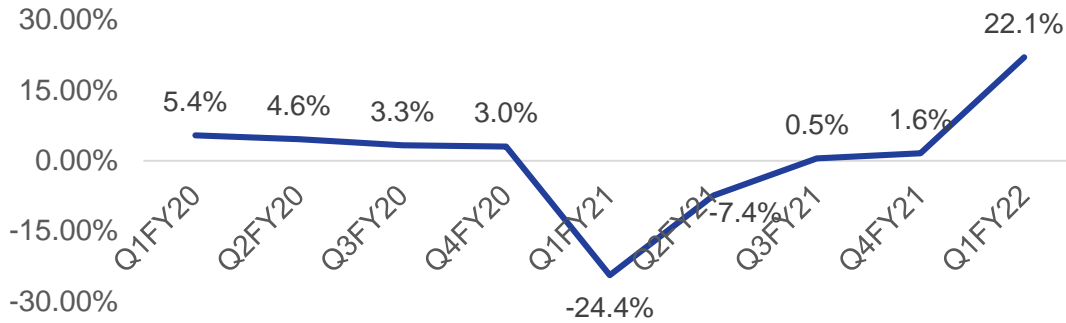
Sustainability

Operational & Financial Performance

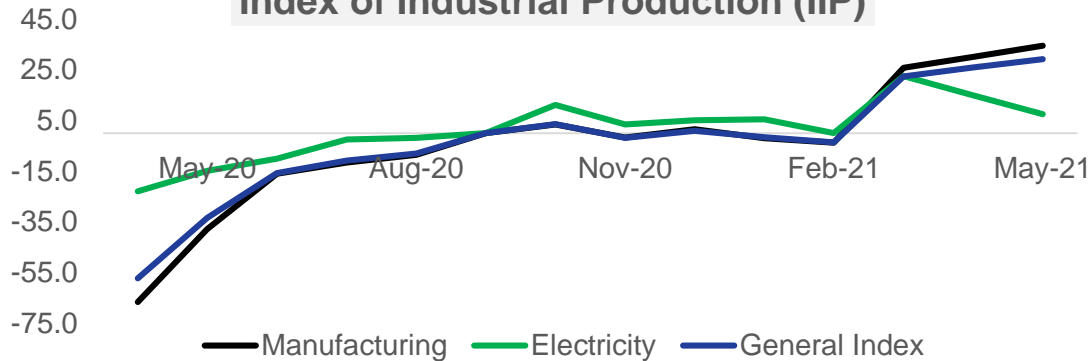
**Business Environment**

Appendix

## Real GDP Growth



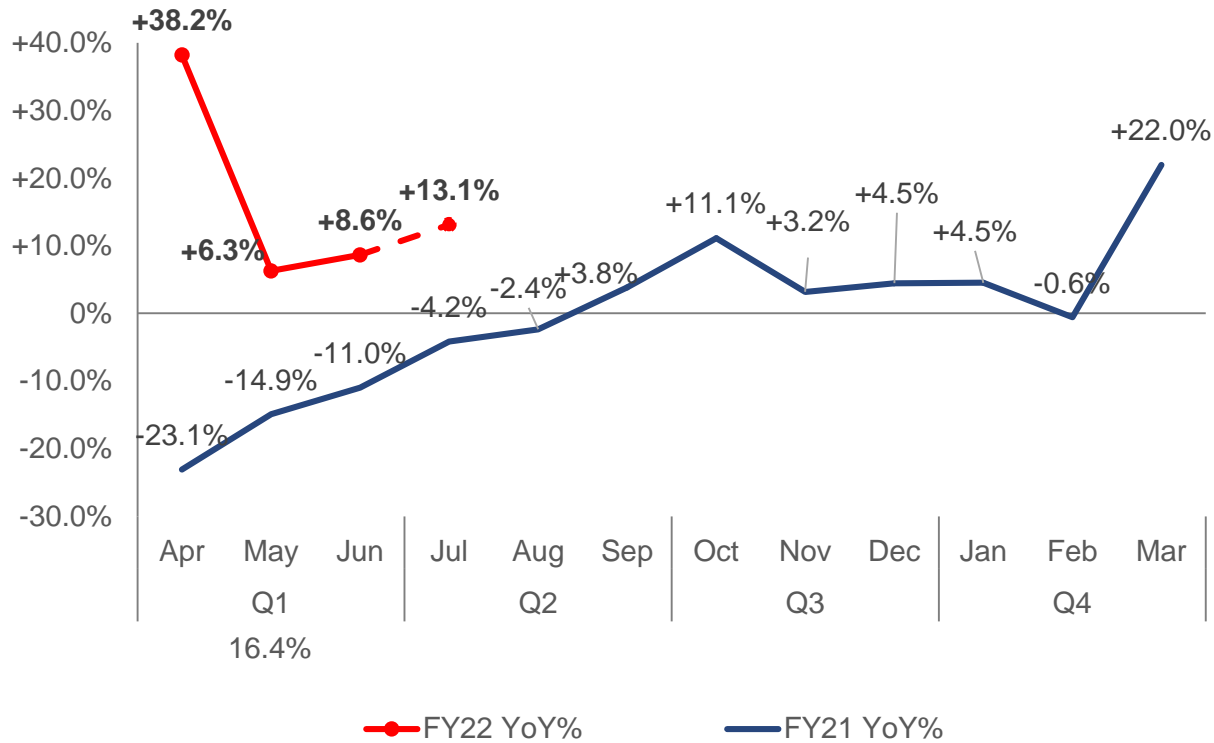
## Index of Industrial Production (IIP)



- Real GDP growth estimated at 22.1% in Q1 FY22, as per RBI ; FY22 growth projected at 9.5%
- Aggregate demand conditions are recovering, spurred by unlock measures and the pace of vaccination: E-way bills, Toll collections, Railway freight, Auto sales, Fuel consumption show improving trends
- On the supply side, agricultural conditions are turning buoyant with the revival in the monsoon
- In Jun'21, Govt. of India announced a fiscal stimulus package, amounting to a ₹6.3Lakh Cr, focused on loan guarantees, concessional credit for pandemic-hit sectors, and healthcare infrastructure
- A possible third-wave of Covid pandemic, new and more virulent strains, and inflationary pressures continue to be key risks

**Tapering of the second wave, and strong vaccination push brighten near-term prospects for the economy**

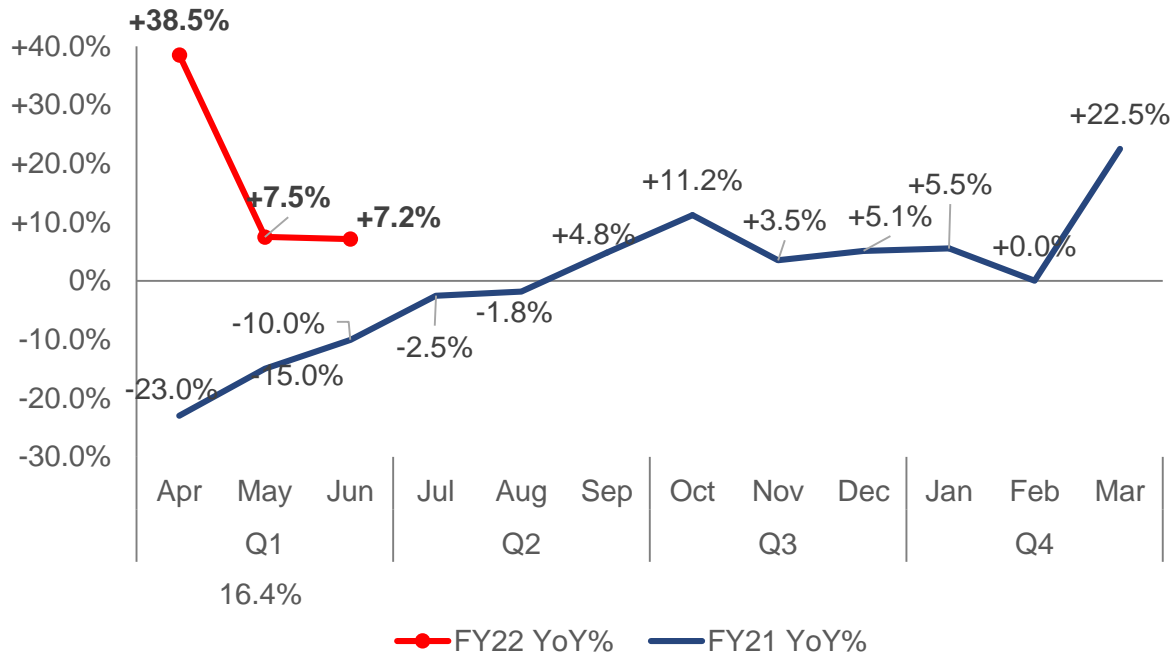
## Power Demand Growth YoY



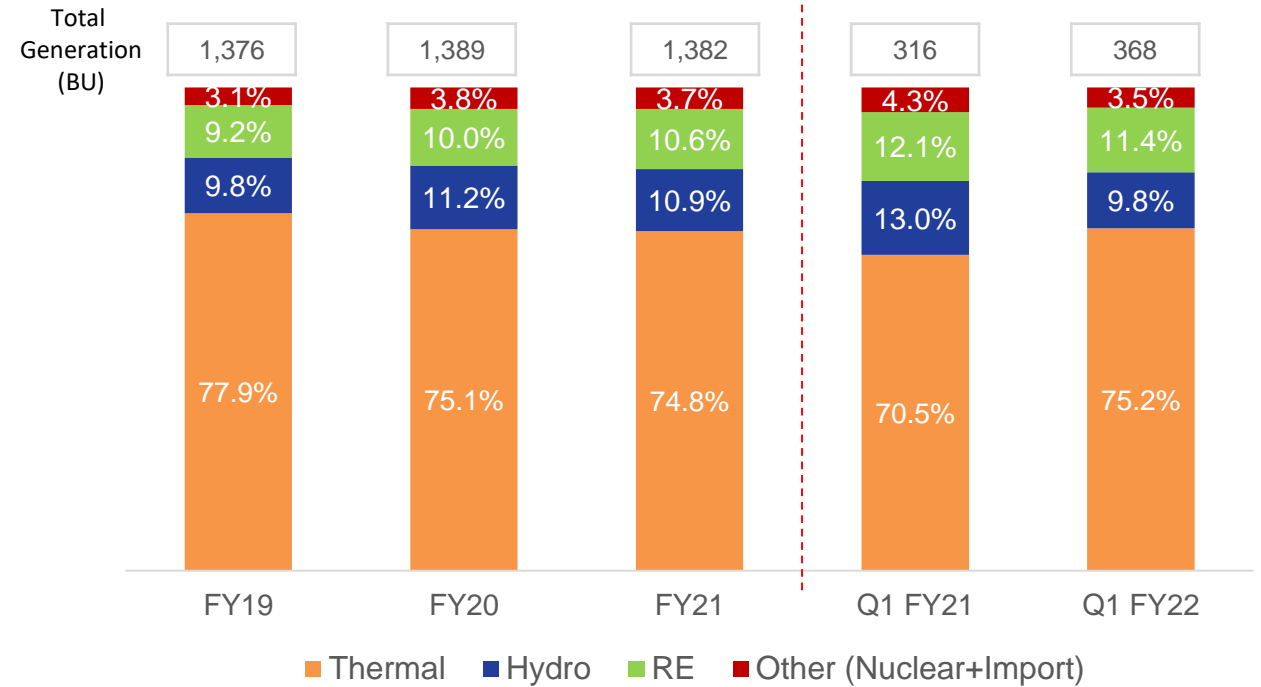
- **All India Peak Power Demand hit an all time high of ~201 GW in July'21**
  - Earlier, in Jun'21, Jan'21 and Dec'20, peak demand had reached all time highs of ~197 GW, ~186 GW and ~183 GW respectively
- **Power demand in Q1 FY22 saw a strong increase of 16.4% YoY**
  - This was driven by a strong pickup in economic activity coupled with a low base effect. In Q1 FY21 demand had declined by 16.2% YoY when Covid-19 led restrictions/lockdowns were first imposed in the country
- **For first 25 days in July'21, power demand increased by 13.1% YoY (and 7.6% compared to Jul'19)**

**Peak Power Demand hits an all time high in July'21**

### Power Generation Growth YoY



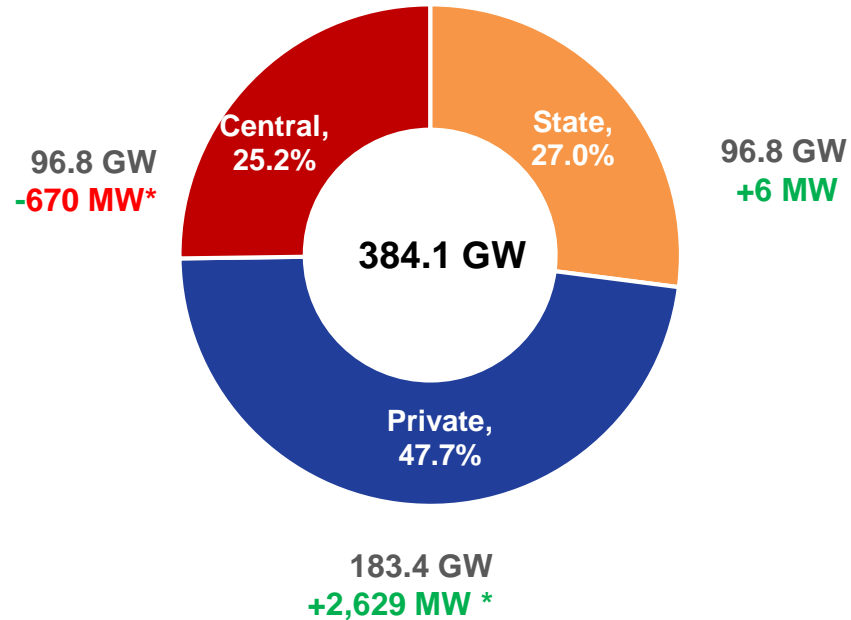
### Segment-wise Share in Generation



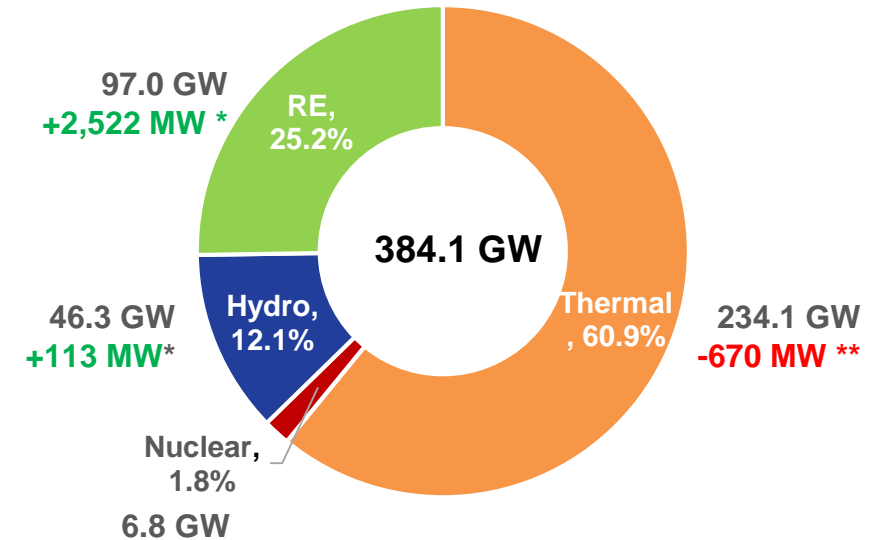
**Generation increased 16.4% YoY in Q1 led by Thermal (+24%) and RE (+10) segments**

**Share of Thermal increased, while that of Hydro declined in Q1 YoY**

Sector-wise Installed Capacity



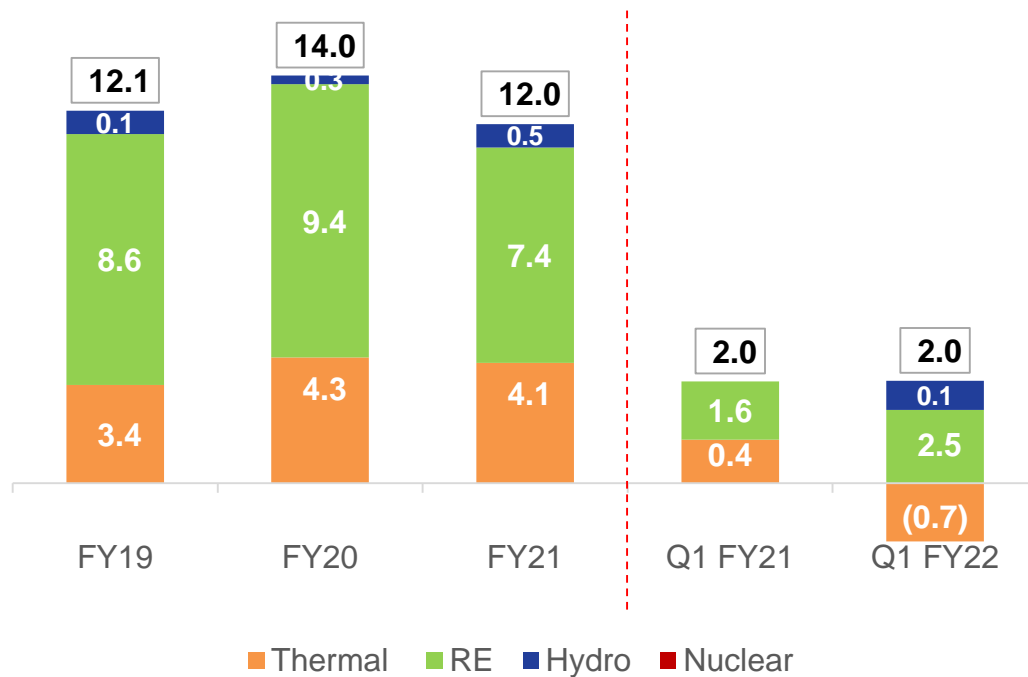
Segment-wise Installed Capacity



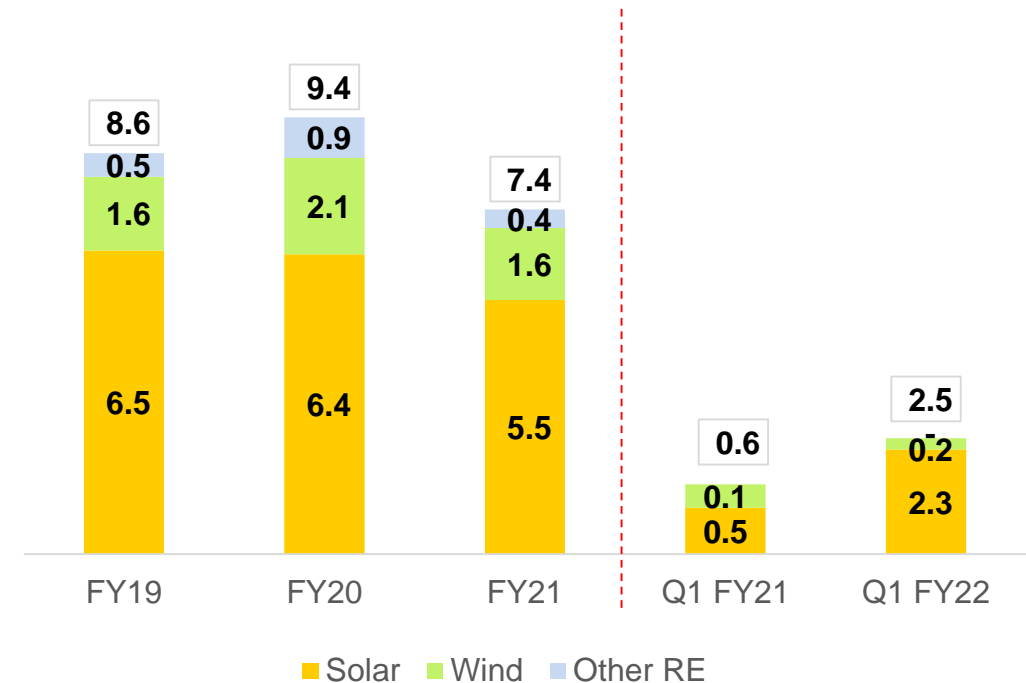
As on June 30, 2021

**In Q1 FY22, Installed Capacity increased by net ~2.0 GW, driven by Renewable Energy segment  
0.7 GW thermal capacity retired during the quarter**

Overall Segment-wise Net Capacity Addition (GW)



RE Segment-wise Net Capacity Addition (GW)



Renewable energy driving capacity addition

2.5 GW RE capacity added in Q1 FY22 driven by solar segment



Sustainability

Operational & Financial Performance

Business Environment

Appendix

# Operational Performance – Net Generation

		Net Generation			
Location		Capacity	Q1 FY22	Q1 FY21	Change YoY
		%	MUs	MUs	%
<b>Ratnagiri (1,200 MW)</b>	LT	92%	<b>1,382</b>	1,303	+6%
	Total	100%	<b>1,410</b>	1,385	+2%
<b>Barmer (1,080 MW)</b>	LT	100%	<b>1,573</b>	1,492	+5%
<b>Vijayanagar (860 MW)</b>	LT	35%	<b>615</b>	365	+68%
	Total	100%	<b>733</b>	405	+81%
<b>Nandyal (18 MW)</b>	LT	100%	<b>27</b>	13	+103%
<b>Total Thermal (3,158 MW)</b>	LT	79%	<b>3,596</b>	3,173	+13%
	Total	100%	<b>3,743</b>	3,295	+14%
<b>Hydro (1,300 MW)*</b>	LT	100%	<b>1,394</b>	1,632	(15%)
<b>Solar (9 MW)</b>	LT	100%	<b>4</b>	3	+63%
<b>TOTAL</b>	LT	<b>85%</b>	<b>4,994</b>	4,807	+4%
	Total	<b>100%</b>	<b>5,141</b>	4,930	+4%

# Operational Performance – PLF

		PLF			
Location		Capacity	Q1 FY22	Q1 FY21	Remarks – Q1 FY22
		%	%	%	
<b>Ratnagiri (1,200 MW)</b>	LT	92%	<b>63 (*80)</b>	71 (*91)	
	Total	100%	<b>59 (*74)</b>	58 (*73)	Higher LT sales
<b>Barmer (1,080 MW)</b>	LT	100%	<b>73 (*79)</b>	70 (*84)	Higher LT sales
<b>Vijayanagar (860 MW)</b>	LT	35%	<b>102 (*103)</b>	62 (*85)	
	Total	100%	<b>43 (*43)</b>	23 (*31)	Higher LT & ST sales
<b>Nandyal (18 MW)</b>	LT	100%	<b>75 (*97)</b>	37 (*97)	Higher LT sales
<b>Total Thermal (3,158 MW)</b>	LT	79%	<b>72 (*82)</b>	69 (*87)	
	Total	100%	<b>59 (*67)</b>	52 (*65)	Higher LT sales
<b>Hydro (1,300 MW)</b>	LT	100%	<b>49</b>	58	Lower water flow
<b>Solar (9 MW)</b>	LT	100%	<b>22</b>	14	

# Consolidated Financial Results

Particulars in ₹ Crore	Q1 FY22	Q1 FY21
Total Revenue <sup>1</sup>	<b>1,860</b>	1,887
EBITDA	<b>830</b>	827
EBITDA Margin(%)	<b>45%</b>	44%
Finance Cost	<b>290</b>	240
Regular	<b>198</b>	240
One-off <sup>2</sup>	<b>92</b>	-
Depreciation	<b>288</b>	290
Profit Before Tax	<b>252</b>	297
Profit After Tax	<b>201</b>	213
Adjusted Profit After Tax <sup>5</sup>	<b>261</b>	213
Gross Cash Accruals <sup>3</sup>	<b>510</b>	518
Diluted EPS <sup>4</sup> (₹)	<b>1.22</b>	1.30

1- Including Job work impact in Q1 FY22, hence not strictly comparable YoY

2- Includes one-time prepayment & borrowing cost amortization impact of hydro project related rupee-term borrowings

3- Computed as PAT+ Depreciation+ Deferred Taxes+ Exceptional items; 4 - Not Annualized

5 – Adjusted for one-off finance cost

# Entity-wise Financial Results

Entity-wise Revenue from Operations		
Particulars in ₹ Crore	Q1 FY22	Q1 FY21
Standalone <sup>1</sup>	758	804
JSW Energy (Barmer)	637	649
JSW Hydro Energy	291	334
JPTL	18	18
<b>Consolidated*</b>	<b>1,728</b>	<b>1,805</b>

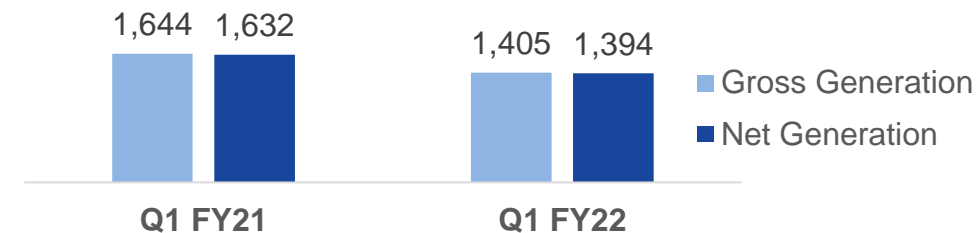
Entity-wise EBITDA		
Particulars in ₹ Crore	Q1 FY22	Q1 FY21
Standalone	257	205
JSW Energy (Barmer)	234	276
JSW Hydro Energy	282	327
JPTL	17	17
<b>Consolidated*</b>	<b>830</b>	<b>827</b>

# Q1 FY22 Performance – JSW Hydro Energy Ltd

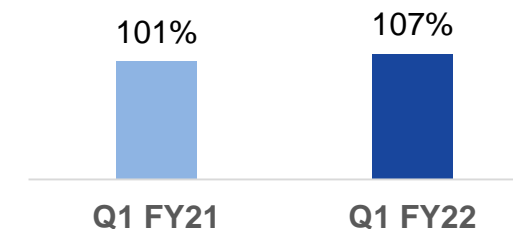
## Key Highlights :

- ✓ Healthy Operational and Financial Performance
- ✓ Receivable Days decline to 69 days at end of Jun'21 from 160 at the end of Jun'20
  - Q1 FY21 receivables were impacted due to Covid-19
- ✓ Received CEA approval for uprating of Karcham Wangtoo Capacity by 91 MW to 1,091 MW, in a phased manner
  - 1,045 MW in the first phase for two monsoon seasons in CY 2021 and CY 2022, and to 1,091 MW thereafter
  - Uprating without any additional capex
- ✓ Commenced Operations of 45 MW uprated capacity at Karcham Wangtoo HEP in July'21. Operational capacity increased to 1045 MW from 1000 MW

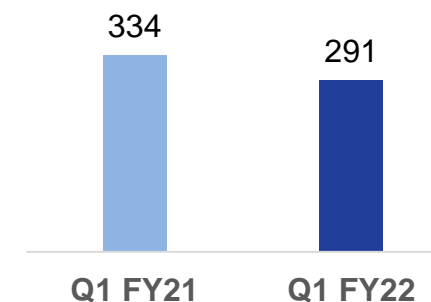
### Generation (MU)



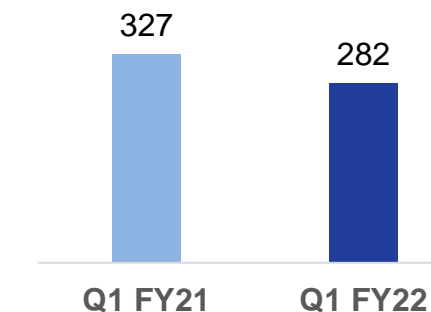
### PAF



### Revenue (₹ Crore)



### EBITDA (₹ Crore)





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