# adani

# Adani Green Energy Limited

Restricted Group II – RG 2



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## Summary terms of the notes

	3 subsidiaries of Adani Green Energy Limited ("AGEL") issuing green bonds under a single ISIN and CUSIP				
	Adani Renewable Energy (RJ) Limited ("ARERJL")				
Co-Issuers	Wardha Solar (Maharashtra) Private Limited ("WSMPL")				
	Kodangal Solar Parks Private Limited ("KSPPL")				
Expected Issue Ratings (S/M/F)	Moody's: Baa3 Fitch : BBB- (Underlying Credit "BBB")				
Format	144a / Reg S				
Ranking	Senior secured obligations of the co-issuers				
Use of Proceeds	Proceeds from the Notes will be used i) primarily for refinancing of outstanding borrowings and payments of other liabilities including capital creditors and ii) other general corporate purposes in compliance with ECB guidelines				
Tenor	20 years door-to-door from the date of funding with average life of 13.35 years				
Amount / Currency	Up to USD [362.5] million				
Coupon	[ ]%, semi-annual payable in arrears				
Security	Substantially all of the Co-Issuers' assets, contractual documents, and 100% pledge of shares, including receivables paid under the Co-Issuers PPAs, and their escrow and project accounts				
	Senior Debt Sizing: Senior secured debt quantum linked to NPV of EBITDA forecast (based on 1.6x Project Life Cover Ratio - PLCR)				
Covenants	Senior Debt Service Cover Ratio ("DSCR") (EOD case) : Shall not be less than 1.10x				
Covenants	Senior Debt Service Cover Ratio (distribution lock-up) : Distribution linked to graded DSCR				
	General Distribution Restriction: If FFO/Net Debt < 6% then distribution restricted to 75% of amount available for distribution				
Senior Debt Service Reserve Account	One semi-annual period equivalent to be maintained in Senior Debt Service Reserve Account for benefit of Note holders				
Change of Control Put	At 101% upon Change of Control and a Ratings Decline				
Governing Law	English Law				
Joint Global Coordinators and Joint Bookrunners	**BARCLAYS citi Credit Suisse** Deutsche Bank / J.P.Morgan OMUFG Standard Chartered				



# Contents

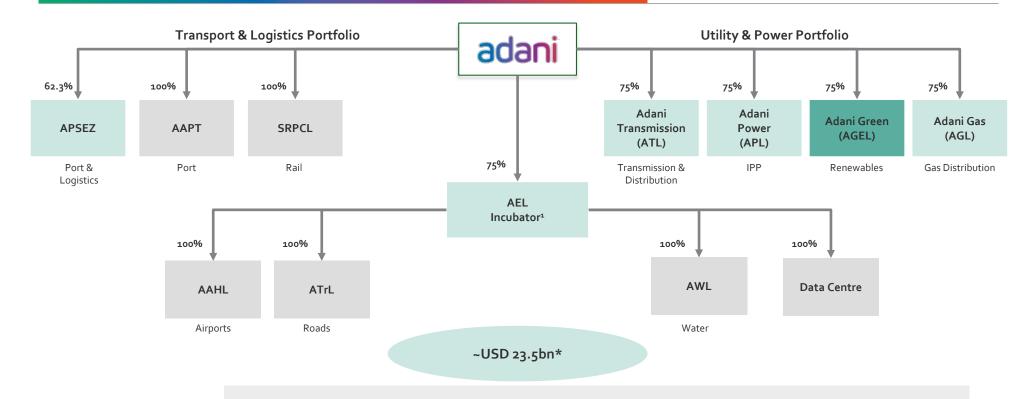
1.	Adani	Group
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- 2. Restricted Group 2 ("RG 2")
- 3. Credit Highlights
- A. Appendix



Adani Group

#### Adani – Leading infrastructure and utility portfolio





- No 1 in Ports, Transmission & Distribution and IPP (Thermal and renewables) in India
- Independent verticals with independent boards Integrating ESG into value creation
- Addressable utility market- ~ 3 million households in Adani Transmission & ~ 10 million in Adani Gas

APSEZ: Adani Ports and Special Economic Zone Limited; AAPT: Adani Abbot Point Terminal Pty Ltd; SRPCL: Sarguja Rail Corridor Private Limited; ATL: Adani Transmission Limited; APL: Adani Power Limited; AGEL: Adani Green Energy Limited; AGL: Adani Gas Limited; AHL: Adani Airports Holdings Limited; ATL: Adani Transport Limited; AWL: Adani Water Limited

Note: Part of Adani Enterprises Limited (AEL) which is a listed entity



## Adani – Repeatable, robust and proven business model

Phase		Development	Operations	Post operations	
	Origination	Site development	Construction	O&M and technology	Capital management
Activity	<ul> <li>Return based disciplined bidding strategy</li> <li>Target off-taker mix</li> <li>Target fuel mix</li> </ul>	<ul> <li>Resource assessment</li> <li>Connectivity permits</li> <li>Land acquisition</li> </ul>	<ul> <li>Template based design</li> <li>Strong project management skills</li> <li>Strong vendor engagement</li> </ul>	<ul> <li>RONC based analytics and intelligence</li> <li>Real-time diagnostics</li> <li>Cluster based management</li> </ul>	<ul> <li>Reduction of cost of debt</li> <li>Project life-cover based debt funding</li> <li>Investor reporting and engagement</li> </ul>
	<ul> <li>74% portfolio with high quality sovereign equivalent off-takers</li> <li>Diversified fuel mix</li> </ul>	Successfully developing large scale remote site locations	<ul> <li>Complex developments on time &amp; budget e.g. Kamuthi Solar</li> </ul>	Best-in-class     performance	<ul> <li>Operations phase funding consistent with asset life</li> </ul>
Performance		<b>√</b>		<b>√</b>	AGEL - Only Renewable generator having assets with IG rating in India

Low capital cost, time bound & quality completion providing long term stable cashflow & enhanced RoE



#### ... and applied consistently to drive value

Key business model attributes

#### Successfully applied across Infrastructure and utility platform

Development at scale and within time and budget







India's Largest Commercial Port

Longest Private HVDC Line in Asia

648 MW Ultra Mega Solar Power Plant

**Largest Single Location** Private Thermal IPP

Excellence in O&M leading to superior returns **APSEZ** 

Highest Margin among Peers in the World

EBITDA margin: 65%1,2

ATL

Highest availability among Peers

EBITDA margin: 91%1,3

**AGEL** 

Constructed and Commissioned in 9 months

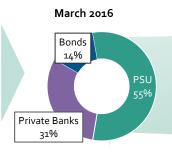
EBITDA margin: 90%1,4

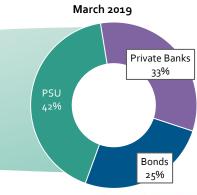
**APL** 

Competitive capex / MW as compared to Peers

Diverse financing sources – only Indian









#### Adani Group model replicated in AGEL

Execution strength and pan-India presence **Generation capacity** 

**5,290**MW

(2,320 MW Operational / 2,970 MW under construction)

Diversified portfolio<sup>1</sup>

**11**states

50% solar; 32% wind; 19% hybrid

Project capex / EBITDA

6.ox

Predictable annuity returns

Off-take profile

Sovereign: 65% (NTPC / SECI)<sup>2</sup>

Sub-sovereign: 35%

**PPA** characteristics

PPA life: 25 years
Tariff profile: 100% fixed

Generation

P50-P75 CUF

Robust financial performance

**EBITDA** margin

90% (1QFY20)

Asset base

As built: US\$ 1.86bn

International investment grade rating

BBB-/Baa3

RG<sub>2</sub>

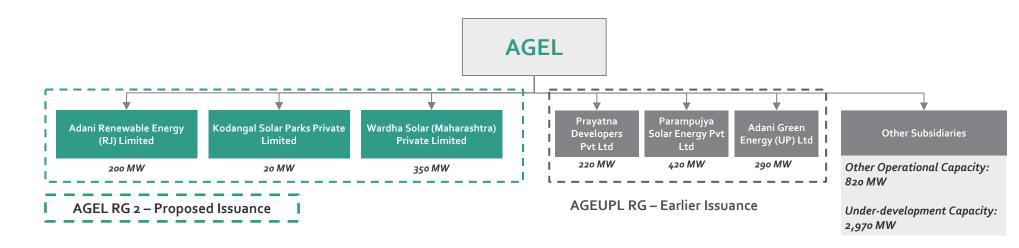
Note: US\$/INR: 70; <sup>1</sup> Fully built estimate; <sup>2</sup> Covenant requirement



# 2

Restricted Group ("RG 2")

#### RG2 – Ring fenced obligor group with documented pool protection features



#### **Pool Key Terms**

- Min. 65% of EBITDA from Sovereign Equivalent Counterparty
- No Construction Risk
- Line of Business Test
- Pledge of 100% shares of SPVs, Charge over project Cash flows
- Bankruptcy-Remote and Independent Directors on the 3 SPVs Board
- First ranking security over all assets

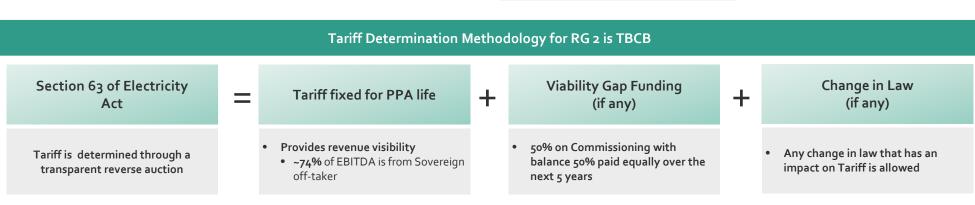
#### **Covenant Structure**

- 3 Part Debt Sizing Covenant: PLCR, Sovereign off-take mix, Debt coverage from sovereign counterparties
- Forward Looking Capex Reserve: for next 6 months anticipated Capex
- Graded Distribution lock-up: linked to PLCR, DSCR levels and FFO/Net Debt ratio
- **Semi-annual Compliance Certificate:** with a confirmation of prudency test on distribution of the cash balance
- No Refinance Risk: Fully Amortizing Debt Structure with tenor in line with concession period
- Cash Waterfall: Defined cash flow waterfall mechanism



#### RG2 — Operating in a robust and tested regulatory framework over 20 years

Ministry of Power **Empowered** CEA **Tariff Determination Methodology** Committee (MOP) Participants/Statutory bodies under Electricity Act, 2003 Section 62 (RoA) Section 63 (TBCB) To regulate and determine/adopt the tariff and to grant The CERC or the state regulatory The CERC or the state regulatory **ERC** commission may set tariffs for commission may adopt tariffs CERC at national level and SERC at state level determined through transparent Supply of energy by generating process of bidding company to distribution licensee This tariff is adopted by the relevant Undertake transmission at inter-state transmission systems Transmission of electricity CTU regulator for example in case of Has an equivalent counterpart at state level (STU) Wheeling of electricity renewables PPA for a period of 25 years Aside from CIL adjustments no other Retail sale of electricity change is allowed as the EA 2003 provisions related to this sections Optimum scheduling and despatching of electricity among **NLDC** the Regional Load Despatch Centres (RLDC & SLDC)



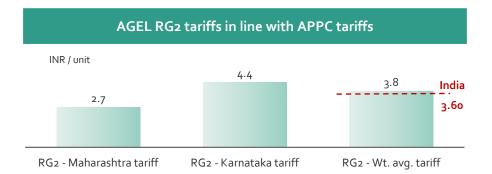


#### RG2 – PPA Tariff leads to maximum dispatch and seamless documented protections





- ✓ Renewables more competitive than new coal capacity in the country
- ✓ Off-takers focused on dispatching renewable power



- ✓ RG2 state PPA tariffs below respective state APPC rate
- ✓ State Discoms incentivised to dispatch RG2 power

#### Seamless integration of EA 2003, Dispatch rules, PPA and Note Terms & Conditions

Standard project finance features

- ✓ Renewable PPA under EA 2003 are must dispatch PPA and not take or pay PPAs
- ✓ Under dispatch rules the relevant operator (NLDC, RLDC or SLDC see slide 11) can curtail dispatch due to technical grid issues
- V Dynamic PLCR based debt sizing and related lock up conditions are designed to address unique interplay that can emerge as a result of interaction between EA 2003 and relevant dispatch rules
- ✓ AGEL development philosophy which reflects the Adani philosophy provides further protection and is backed by asset maintenance that is ensured with mandatory capex reserve covenants

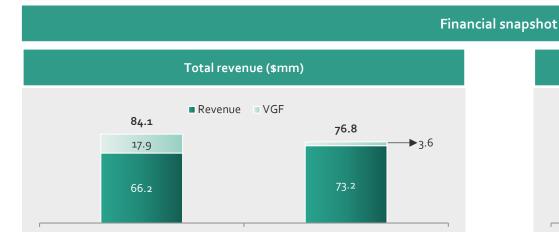
Source: CRISIL

Note: APPC: Average Pooled Purchase Cost; ¹Represents trends in bid tariffs in respective months

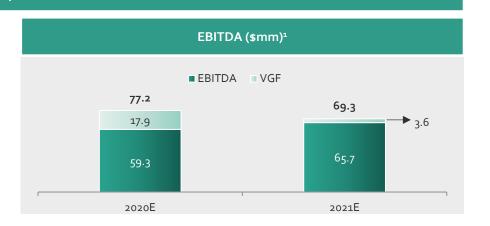


### RG2 – Demonstrating a conservative leverage profile

2021E



2020E



#### Pro-forma capitalization

	Current (USD mn)	Adj. (USD mn)	Pro Forma (USD mn)
Existing External Indebtedness <sup>2</sup>	288.0	(288.0)	-
Capital Creditors	42.0	(42.0)	-
Senior Secured USD Notes	0.0	362.5	362.5
Total External Indebtedness and Capex Creditors	330.0	32.5	362.5
Subordinated Loans from Parent/ Affiliates	76.5	(12.3)	64.2
Total Paid up Equity <sup>3</sup>	42.1		42.1
Total Capitalization	448.7	20.2	468.9

Note: ¹EBIDTA assumed as per PPA and Projection report carried out by Deloitte at P75 level of Generation ² Includes existing External Commercial Borrowings (ECBs), rupee loans and buyers' credit; ³ Includes share capital, compulsorily convertible preference shares as of June 30<sup>th</sup>, 2019



# 3

Investor Protections and Credit Highlights

# RG2 – 100% operating portfolio

Name of SPV	Project site name	Location	Off-taker	Capacity (MW <sub>AC</sub> )	Tariff under PPA (INR / unit)	Actual COD	VGF¹ (USD mn)	FY 21E EBITDA (USD mn)
	Madhuvanahally	Karnataka	SECI	100	4.43	Mar-18		
	Rajeshwar	Karnataka	SECI	50	4.43	Mar-18		
	Maskal	Karnataka	SECI	50	4.43	Mar-18		
WSMPL	Rastapur (Hattigudur)	Karnataka	SECI	50	4.43	Mar-18		
	Yatnal	Karnataka	SECI	50	4.43	May-18		
	Nalwar	Karnataka	SECI	40	4.43	Mar-18		
	Kallur	Karnataka	SECI	10	4-43	Apr-18		
Total from Sovereign equivalent off-taker			350 (61.40%)			\$35.9	\$51.2 (73.88%)	
KSPPL	B.Bagewadi	Karnataka	BESCOM	20	4.36	Jan-18	N/A	1.7
ARERJL	Rawra	Rajasthan	MSEDCL	200	2.71	Aug-19	N/A	16.4
Total from sub-s	Total from sub-sovereign off-taker			220 (38.60%)			N/A	\$18.1 (26.12%)
Total RG 2	Total RG 2			570			\$35.9	<b>\$</b> 69.3

Notes: ¹VGF: Viability Gap Funding to be recovered over 6 years post COD



#### RG2 - Robust project finance security and covenant package

Standard project finance features

- Bankruptcy remote RG 2
- 100% amortizing debt over PPA term with tail period of 2 years
- Cashflow waterfall mechanism
- 6 month Debt Service Reserve
- Exchange risk to be fully hedged
- Detailed information and compliance certificates with specific prudent use certificate

Security and collateral package

- Pledge over 100% shares of issuers
- Direct collateral over all assets and contractual documents of each Issuer
- First ranking charge over all project accounts
- First ranking charge over all assets

Unique covenants and other structural

features

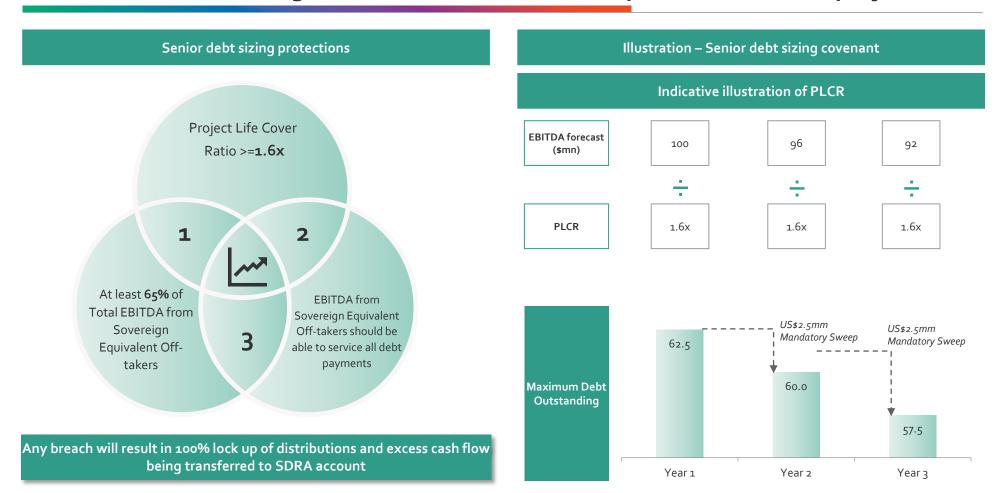
- Only operating assets to be part of the pool; no greenfield risk ever
- Unique covenants
  - Project Life Cover Ratio (PLCR) of 1.6
  - Minimum 65% EBITDA from Sovereign Equivalent Counterparties
  - 100% coverage of bond principal + interest from Sovereign Off-taker
- 100% Cash Sweep/ lock up and Debt Reduction, subject to PLCR
- Distributions linked to operating performance (DSCR) and timely collections (FFO/ Net Debt)
- Additional informational disclosure:
  - EBITDA attributable to Sovereign Counterparties
  - Capex plan for next six month period

Summary cashflow waterfall<sup>1</sup> Taxes and operating expenses Senior debt payments (including hedging costs) Senior debt service reserve 3 Senior debt redemption account Senior debt restricted reserve Capex reserve account Distribution account

Note: Detailed waterfall mechanism including all sub-accounts detailed in Project Accounts Deed



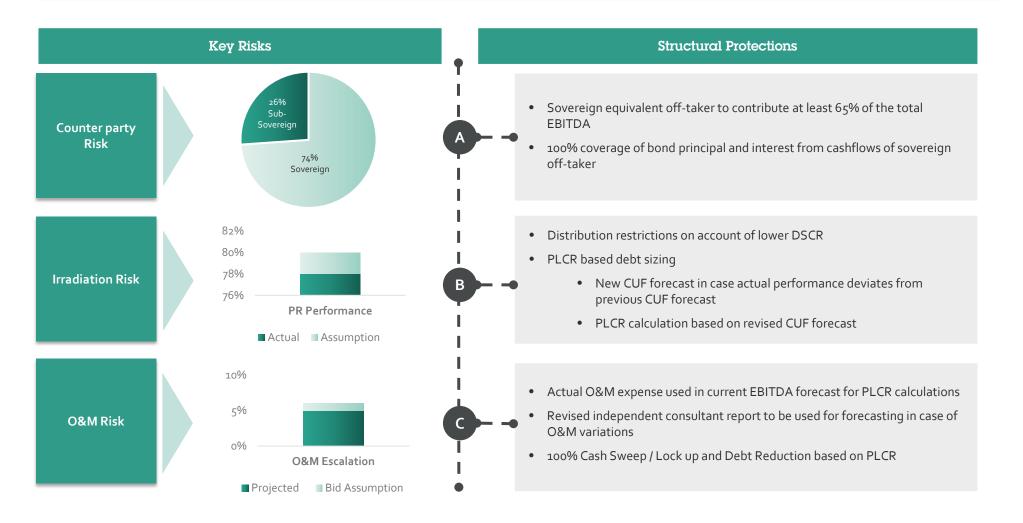
#### RG2 – Senior debt sizing covenant linked to EBITDA performance over project life



Notes: O&M – Operations & Maintenance; CFADS: Cash Flow Available For Debt Service; PPA: Power Purchase Agreement; SDRA:
EBITDA = Earning Before Interest tax Depreciation and amortization; PLCR calculated as NPV of EBIDTA(including residual value)/Value of Senior Secured Debt

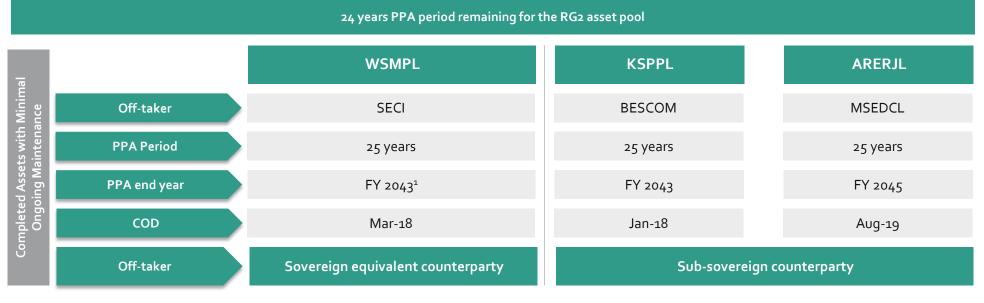


## RG2 – Covenant to protect credit quality of EBITDA for project life

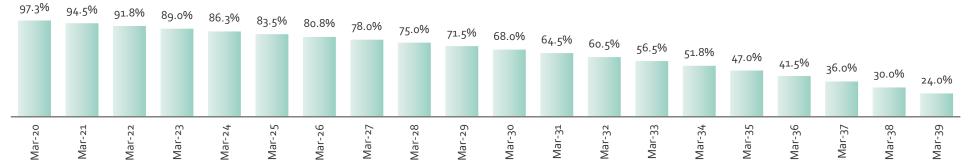




#### RG2 – Senior debt tenor linked to PPA life



#### Outstanding bond amount (As % of Issue Size)

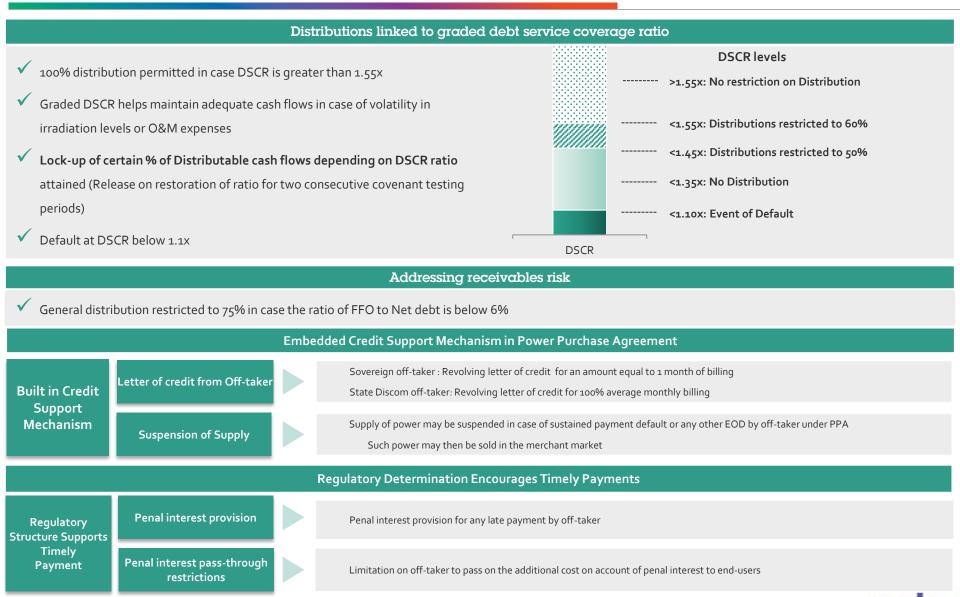


Average maturity of bond – 13.35 years, door to door tenure of 20 years

Note: 1Yetnal 1, Yetnal 2 and Kallur have PPA end year of FY2044 as their PPA end dates are 4 May, 2043, 11 April 2043 and 6 April 2043 respectively



#### RG2 – Graded DSCR and FFO covenants provide cash lock-ups



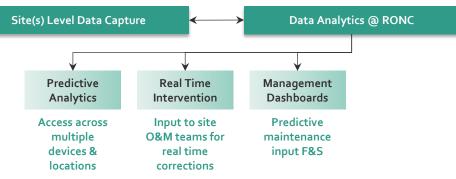


#### RG2 – Mandatory capex reserve to ensure asset quality & performance

#### **RONC (Remote Operations Nerve Center)**

- Centralization of overall management of all Adani sites from a single location
- Data Analytics driven decision making
- Drive world class operational performance as sustainable competitive advantage
- Create potential for new business providing operations as a service to other power companies

#### Ability to manage large number of sites Centralized Management Support increasingly complex operations **Fully Automated** Minimal manual intervention Operation Reduce maintenance cost – increasing margins **Real Time Data** Access plant performance data anywhere (desktop, mobile) & anytime – **Availability** both real time and historical data **Business** Leveraging analytics and Machine Learning to improve operational performance to industry leading levels Intelligence





**6 months forward Capex Reserve Account** stipulated to maintain EBITDA profile



Capex Reserve quantum to be sufficient to meet the repowering assumptions as laid out in the CUF report



Project Accounts Deed ensures Capex Reserve is fully funded before any distributions are permitted

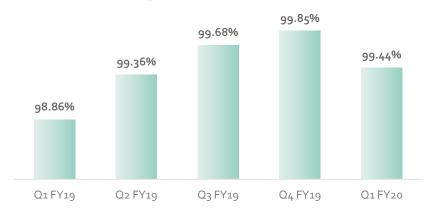


Ensures steady generation profile throughout PPA life by addressing module degradation risk



This is in addition to pool characteristics where there should be **no under construction assets** 

#### **High Plant Availability**





#### RG2 - Detailed & enhanced information covenant

#### Basic financial and business information

#### Issuer to deliver:

- o Unaudited (semi-annual period) /Audited (annually) aggregated financial statements prepared in accordance with the Accounting principle which consist of:
  - > Financial Position
  - > Financial and operating Performance
  - > Cash flow statement

#### **Compliance Certificate**

Timeline: Within 90 days and 120 days from end of semi annual period and annual period respectively.

#### Enhanced information - Compliance certificate

Compliance Certificate to be provided along with the financial statements. Compliance certificate at each calculation to include:

- o The aggregate amount entitled to be transferred to the Distribution Account
- o For calculation period:
  - > PLCR (all data & information required to calculate PLCR including sovereign equivalent EBITDA evidence)
  - **➢** DSCR
  - > FFO/Net debt
- o Cash balance in Project Accounts on calculation date (including DSRA account and any other reserve accounts)
- o Amount transferred to Capex reserve account (with reasonable justification for forward 6 month amounts)
- o A confirmation from each of the Issuers that
  - > They are acting prudently and that the cash balance can be distributed
  - > Confirmation of compliance with any continuing reps and warranties



# Ratings outcome: Features resulted in only private sector renewable IG rating in India

# Moody's

# **Fitch**Ratings

Expected Ratings	Baa <sub>3</sub> (Exp)	BBB- (Exp)
Commentary	<ul> <li>Strong off-taker Credit profile versus peers, Long term contracts provide stable cash flows</li> <li>Structural features, including forward looking covenants, provide rating support</li> <li>Moderate financial leverage</li> <li>Limited Operating Track Record</li> <li>Experience Management Team and Sponsor Track Record</li> </ul>	<ul> <li>Experience Contractors, Proven Technology</li> <li>Protective structural features with moderate refinancing risk</li> <li>Long-term fixed price PPAs</li> <li>Proven technology with long operating history</li> <li>Limited Operating Track Record</li> <li>The project demonstrates resilience against relatively stringent assumptions</li> </ul>



#### RG2 – A compelling investment opportunity

Highest rating of any private Indian renewable offering

✓ The issue has been rated Baa₃ by Moody's and BBB- by Fitch (Expected)

Quality asset

- ✓ 100% long term contracted capacity
- ✓ 65% of capacity and ~74% of EBITDA from sovereign equivalent off-takers
- ✓ State PPA priced under relevant state APPC
- ✓ Asset maintenance protections for investors

Robust structural protections

- ✓ Standard project finance features
  - ✓ Clean first ranking security
- ✓ Unique covenants linked to EBITDA performance providing credit quality protection over project life
- ✓ Detailed reporting covenants

Strong Sponsorship of Adani Group

- ✓ Adani Group: One of the largest energy and infrastructure conglomerate in India
  - ➤ World class project execution skills and O&M capabilities
  - > Multiple relationships and touch points across relevant stakeholders across the India energy landscape
- ✓ AGEL: Only India listed company in the India renewable sector with IG rated assets



# Thank you



Appendix

# RG 2 – Financial Summary

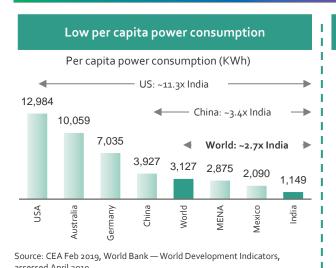
	<b>FY2017-18</b> 12 months (INR Mn)	<b>FY2018-19</b> 12 months (INR Mn)	YTD2019-20 3 Months (INR Mn)	YTD2019-20 3 Months (USD Mn)
Revenue	0.6	3554.2	957-7	13.9
VGF	-	-	-	-
Total Income	0.6	3554-2	957-7	13.9
Less: O&M	6.2	766.9	86.2	1.3
EBIDTA	(5.6)	2787.3	871.5	12.6
Add: Other Non-Operating Exp.	12.6	59-3	87.8	1.3
Less: Tax Expenses	1.1	2.6	1.3	0.0
Cash Flow Available For Debt Servicing	5.9	2844.0	958.0	13.9

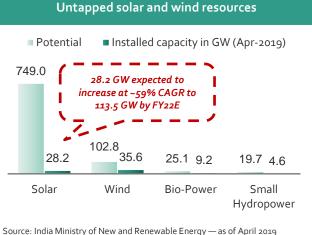
	As on March 31, 2018	As on March 31, 2019	As on June 30, 2019	As on June 30, 2019
Total Equity	2,765.5	2,837.7	2,904.2	42.1
Financial Liabilities (Non-Current)	3,351.2	16,701.4	19,738.9	286.4
Other Non-Current Liabilities	3.9	2.6	2.9	0.0
Total Non-Current Liabilities	3,355.1	16,704.0	19,741.8	286.4
Borrowing & Trade Payable (Current)	1,868.6	3,189.0	3,237.7	46.9
Other Financial Liabilities (Current)	13,707.1	1,923.9	4,238.9	61.5
Other Current Liabilities	40.0	38.3	13.8	0.2
Total Current Liabilities	15,615.7	5,151.2	7,490.2	108.6
Total Equity and Liabilities	21,736.3	24,692.9	30,136.4	437.2

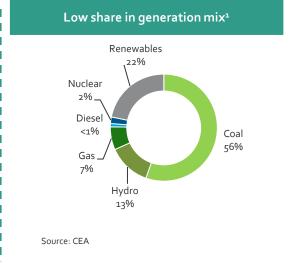
Note: US\$/INR: 68.918 (as on June 28, 2019)

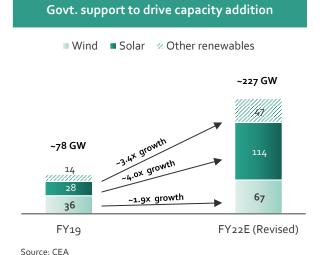


#### Renewables – Attractive industry outlook











Source: CRISIL report "Industry Report - Power, Solar & Wind Sector"

Renewables - A Competitive Power Source

#### Secular growth prospects

- ✓ India's high import dependency for energy needs
- ✓ High irradiation & low resource risk
- ✓ Aggressive growth targets set by Government
  - ✓ Signatory to Paris Accord
  - ✓ Stated commitment to install ~227 GW of renewable capacity
- ✓ Complementary load profile

Source: CRISIL reports titled "Industry Report – Power, Solar and Wind Sector", "Sector Report: Power", and "Sector Report: Solar Energy", India Ministry of New and Renewable

Energy. Notes: RPO – Renewable Purchase Obligation; Exchange rate: 1 USD = 69.2679 INR; <sup>1</sup> Generation mix as at 31-Mar-19

