



Renewables

Adani Green Energy Limited

Equity Presentation

August 2021

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Annexures









Adani

- Marked shift from B2B to B2C businesses –
 - ATGL Gas distribution network to serve key geographies across India
 - AEML Electricity distribution network that powers the financial capital of India
 - Adani Airports To operate, manage and develop eight airports in the country
- Locked in Growth -
 - Transport & Logistics -Airports and Roads
 - Energy & Utility Water and
 - Data Centre

Opportunity identification, development and beneficiation is intrinsic to diversification and growth of the group.

1. As on July 30, 2021, USD/INR – 74.4 | Note - Percentages denote promoter holding & Light blue color represent public traded listed verticals 2. NQXT – North Queensland Export Terminal | 3. ATGL – Adani Total Gas Ltd | 4. Data center, JV with EdgeConneX

Adani Group : Decades long track record of industry best growth rates across sectors

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Transformative model driving scale, growth and free cashflow

Note: 1 Data for FY21; 2 Margin for ports business only, Excludes forex gains/losses; 3 EBITDA = PBT + Depreciation + Net Finance Costs – Other Income; 4 EBITDA Margin represents EBITDA earned from power supply 5. Operating EBITDA margin of transmission business only, does not include distribution business. 6. Contracted & awarded capacity 7. CGD – City Gas distribution 8. GAs - Geographical Areas - Including JV | Industry data is from market intelligence 9. This includes 17GW of renewable capacity where PPA has been signed and the capacity is under various stages of implementation and 29GW of capacity where PPA is yet to be signed'

Adani Group: Repeatable, robust & proven transformative model of investment

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Pvt. Banks • Bonds 6 -

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World's largest solar power developer ⁴, well positioned for industry leading growth

- 1. Excluding a small merchant solar capacity of 50 MW
- 2. Average tariff for locked-in growth of 24.3 GW
- 3. EBITDA margin from power supply in FY21
- 4. As per ranking by Mercom Capital

PPA - Power Purchase Agreement ; ENOC: Energy Network Operations Centre ; EBITDA: Earnings before Interest, tax, depreciation & amortization; IG: Investment Grade



AGEL: Transformational Renewable Company

Locked-in growth up to 24,294 MW¹



Strategic Alliance with TotalEnergies towards Sustainable future with aggregate investment of USD 2.5 bn



Strategic Partnership at AGEL

Strategic Partnership at Asset Level

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 The capacities include (i) SB Energy's 5 GW portfolio which is under acquisition (Operational: 1,700 MW, Under-execution: 2,554 MW, 700 MW confirmed pipeline) (ii) 150 MW operational wind assets under acquisition from Inox (iii) solar projects of 3000 MW with green-shoe option for 1,500 MW for which AGEL is declared L1 bidder in a tender issued by Andhra Pradesh Green Energy Corporation Ltd. Allotment of the tender is *sub-judice*

2. LOA received





Ranked as Largest Solar Power Developer in the World by US based MERCOM Capital

- The capacities include (i) SB Energy's ~5 GW portfolio which is under acquisition (Operational: 1,700 MW, Under-execution: 2,554 MW, 700 MW confirmed pipeline) (ii) 150 MW operational wind assets under acquisition from Inox (iii) solar projects of 3000 MW with green-shoe option for 1,500 MW for which AGEL is declared L1 bidder in a tender issued by Andhra Pradesh Green Energy Corporation Ltd. Allotment of the tender is *sub-judice*
- 2. APPC: National average power purchase cost; Average tariff for locked-in growth of 24.3 GW
- 3. Excluding a small merchant solar capacity of 50 MW
- 4. Location of certain awarded and under implementation projects is indicated on as planned basis and may undergo a change.



Assets contracted under 25 year PPA, 87% of capacity contracted to sovereign / state guaranteed counterparties



High quality portfolio with low development & counterparty risk

Note:

The capacities shown in the diagram include SB Energy assets which are under acquisition and include solar projects of 3000 MW with green-shoe option for 1,500 MW for which AGEL is declared L1 bidder in a tender issued by Andhra Pradesh Green Energy Corporation Ltd. Allotment of the tender is *sub-judice*

'Legal Completion Risk' includes under construction projects which are projected to be commissioned within next 12 months

AGEL: Transformational Advantage



Advance de-risking for potential pipeline with focus on most critical resource – Strategic Sites





Locking-in Strategic Sites -> Nurture specific sites into projects by Central Project Management Assurance Group



Strategic sites secured for future projects; significant development work completed for construction readiness

Khavda 15,000 MW site

Site area: c. 71,000 acres (Wasteland allocated by government)





- Over 3 years of on-site resource estimation done
- High wind potential: >7.5 m/s wind speed
- Largely waste land with no ROW and beneficiary issues
- Detailed studies conducted for last 3 years for optimal utilization of the location

AGEL Development Advantage

Significant development work completed ensuring construction readiness three years in advance

- - Connectivity to CTU for capacity of 3.5 GW approved, will be progressively increased with deployment of capacity
 - Geo-tech studies, logistics and infra planning completed

Design work completed

- ✓ Solar Foundation System ✓ WTG Foundation Designs
- ✓ Topographical Survey
 - ey 🗸 Site Corrosion Studies
- ✓ Site Fencing
- Centrifuge Model Study for wind turbine foundation by Cambridge University

- International consultants for WTG Foundation designs

🗸 G&P, Malaysia

- ✓ F&R, Germany
- ✓ AMSC, Austria
- ✓ Royal Haskoning, Netherlands
- Mobilization ready

✓ Arup, UK



- Long term strategic alliance with top global suppliers for key categories i.e. Modules, Inverters, Trackers, WTG
- Established sourcing network in host countries for imported equipment

AGEL: Advance Identification of Strategic Sites for next phase of Growth





To enable site-availability for the next phase of Growth ~10.5 GW

De-risking the next phase of growth

AGEL: Systematic Development Process with centralized coordination by PMAG



Project Management & Assurance Group

End-to-end Integration from Origination to Execution with Centralized PMAG

Realtime monitoring with Integrated Project Management tool developed in-house with single source of truth concept

Stage 1 - Site Origination

- Land identification
- Stakeholder identification
- Resource assessment
- Evacuation feasibility
- Site accessibility
- Plant design
- Construction resource
 availability

Stage 2 - Site Development

- Land acquisition
- Statutory approvals
- Site infrastructure
- Transmission line route survey
- Site geo-tech survey
- Stakeholder management
- Approach road

Stage 3 - Execution

- Detailed engineering
- Supply chain management
- Project construction
- Quality assurance
- HSE excellence
- Risk mitigation
- O&M readiness

PMAG has delivered complex renewable power projects in past and continues to enable accelerated growth



Predictive Analytics leading to cost efficient O&M and high performance



- Renewable plants feed millions of datapoint which are processed, enabling informed decision making, resulting in:
 - Reduced mean time to repair (MTTR) by ensuring adequate level of spares
 - ✓ Reduced mean time between failure (MTBF) by proactive implementation of learnings across sites
 - ✓ Backend machine learning and artificial Intelligence (AI) for predictive maintenance & improve plant uptime
 - ✓ Targeted maintenance leading to **lower O&M costs**

High Plant availability & steady Solar CUF on large portfolio leading to consistently high EBITDA margin



1. CUF – Capacity Utilization Factor mentioned in MWac



Maximizing Stakeholder Value & De-risking projects with Disciplined Capital Management



AGEL: Case Study - Fully Funded Construction Program



- AGEL has signed up Framework Agreement for under construction projects for USD 1.35 bn with 12 international banks
- Revolving Project Financing Framework: 1,690 MW hybrid projects funded as first set of projects, takeout within COD + 1 year (post stablisation)
- Facility available to fund new projects post takeout through agreed framework, fully finance the growth pipeline of AGEL

Key Features of Construction Facility Access to large liquidity pool Framework Agreement Due Diligence (DD) readiness Conditions aligned with business - Participation from 12 leading - Framework agreement for - Internal processes aligned for DD - Framework Agreement validates international banks financing new projects of new projects given experience the overall infrastructure model of 1,690 hybrid projects with highest diligence parameters - Upfront agreement with lenders on Diverse funding pool (UK: 28 %, Asia: 37%, Europe: 35%) Standardized EPC and O&M - Non-recourse debt with only - Project Parameters contracts with Adani entities that specific Completion support - Current participation expanded to have passed test of DD requirement from AGEL - Due Diligence protocols 16 banks through syndication - Projects under this facility will be - Flexibility for raising other project - Legal documents **DD ready** during takeout level debt WC debt Diligence conducted by reputed - Approved suppliers - Overall Compliance protocol akin global agencies Standard 🧲 to public market offering from BARCLAYS Chartered S - Pre-agreed credit evaluation construction stage 0 (UL) AWS TRUEPOWER matrices -> faster financial closure MIZHO MUFG ERM ARCADIS Go-to-Market construct built in KPMG SMBC documentation with upfront **XDBS** 🛤 MARSH Scenario Rating from international **Deloitte** INTESA M SANDAOLO rating agency TRACTEBEL Rabobank - Aligned with AGEL's capital Deutsche Bank LATHAM®WATKINS... management philosophy **Fitch**Ratings Linklaters SIEMENS ING Sol BANK

COD: Commissioning date; UK: United Kingdom; EPC: Engineering, procurement, and construction; LC: Letter of credit; WC: Working Capital

AGEL: Capital Management leading to Value Creation

Fully Funded Construction Program

- Revolving Project Financing Framework put in place for an amount of USD 1.35 bn with participation from 12 international banks to enable fully fund construction pipeline
- Tranche 2 & 3 of construction facility expected in near future to fund the development pipeline

De-risking through USD Green Bond refinancing

- 'BB+' rated USD 500mn Green Bonds issued for refinancing 930MW Restricted Group-1 (RG1)
- 'BBB-' IG rated US 362.5mn Green Bonds issued for refinancing 570MW Restricted Group-2 (RG2)

Value unlocking through Strategic partnership

 Monetization of Capital Formation through Strategic Alliance with TotalEnergies with investments to the tune of USD 2.5 bn Mitigating risk of capital availability during construction

- ✓ Debt maturity close to PPA term (RG2)
- Access to wide pool of capital
- Reduced Costs
- De-risking debt servicing

 Fully-funded future growth pipeline as a result of monetization

Disciplined yet transformational Capital Management approach enables de-risking and enhanced Stakeholders returns

AGEL: ESG



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AGEL : Robust ESG Assurance Framework





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ESG: Environmental, Social & Governance; SBTi: Science Based Targets initiative; GRI: Global Reporting Initiative; CDP: Carbon Disclosure Project; TCFD: Task Force on Climate-Related Financial Disclosures; GHG: Greenhouse Cases; UNSDG: United Nations Sustainable Development Group; CSR: Corporate Social Responsibility



Contribution to following sustainability development goals (SDGs) in line with the recommended SDGs for electric utilities as per WBSCD



Ensure access to affordable, reliable, sustainable and modern energy for all



- 24.3 GW locked-in growth today
- 25 GW targeted capacity by FY25
- Goal to become World's largest renewable company by 2030



- Average portfolio tariff @ INR 3.02/unit
- Lower than national APPC of INR
 3.85/unit improving access to affordable energy



Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all



- 1,715 employees¹ as on 30 Jun 21
- 2,870 person hours of training in FY21
- Focus on local hiring to drive rural employment



- High health and safety standards
- NIL lost time injury frequency rate in FY21
- >47,000 man-hours EHS training



Ensure access to affordable, reliable, sustainable and modern energy for all



- O&M integration with technology through ENOC ightarrow Cost efficient O&M with higher generation output
- Indigenously developed semi-automatic module cleaning system: Water consumption reduced by 46% and manpower cost for module cleaning reduced by 75%

13 CLIMATE ACTION

Take urgent action to combat climate change and its impacts



- AGEL avoided emissions of 5.23 mn Tonnes CO₂ in FY21.
- 14.60 mn Tonnes CO₂ emission avoided since incorporation to FY21



Net-Water neutrality for plants >200 MW by 2025



- Single Use Plastic free sites by 2024
- 'Zero Waste to Landfill' company by 2025

AGEL – Environmental Philosophy

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					Our Key Social Initiatives mapped to UNSDG		
United Nations Sustainable Development Goals 2030					Education 1. No Poverty 4. Quality Education	Multiple Locations	 Own schools, digitalization and up gradation of Govt. school to provide cost free education to the needy
1 ^{no} poverty ntx*†*†*†	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	Health 3. Good Health & Well Being	Multiple Locations	 Partnered with self help group to educate and provide sanitary pads for safe menstrual hygiene to ensure better health
6 CLEAN WATER AND SANITATION	7 AFFORDABLE AND CLEAN ENERGY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	Livelihood 2. Zero Hunger 8. Decent Work & Economic Growt	Multiple Locations h	 Livelihood projects for sustenance in multiple areas Opportunities given to local talent Inclusive growth of employees / workers along with the organization
11 SUSTAINABLE CITIES		THE GLOBA For Sustainable	L GOALS Development	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Ecology 7. Affordable and Clean Energy 13. Climate Action	Multiple Locations	 Barren/Non-cultivated land used for plants preventing impact on farmers' livelihood
13 CLIMATE ACTION	14 LIFE BELOW WATER	EBELOW 15 LIFE STRONGLASTITUTIONS 17 PARTNERSHIPS		17 PARTNERSHIPS FOR THE GOALS	15. Life on Land 12. Responsible Consumption & Pro	oduction	
					Local & Rural infra Developmen 9. Industry, Innovation & Infrastruc 11. Sustainable Cities & Communitie	t Multiple oture Locations es	 Social licensing by community engagement for coexistence and creating sustainable livelihood and infrastructure
					Water Secure Nation6. Clean Water and Sanitation	Tamil Nadu	 Deepening of ponds and tanks, rooftop rainwater harvesting & recharging bore wells

Social philosophy drives initiatives that are aligned with UN Sustainable Development Goals

AGEL – Governance Philosophy

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Governance philosophy encompassing strong policy and structure backed by robust assurance mechanism

AGEL: Value Creation through Transformative Investment Philosophy



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AGEL: Value Creation through Transformative Investment Philosophy

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1 Includes 150 MW of wind projects under-acquisition from Inox

2 S&P & Fitch Credit rating for RG2

4 Estimated EBITDA for full year of operations; (Reported EBITDA from Power Supply for FY21 is INR 22 bn)

CAGR: Cumulative Annual Growth Rate; RG: Restricted Group

³ Capital Employed for Operational Assets. For locked-in growth the estimated project cost has been considered

AGEL: A Compelling Investment Case

Strong Government Push	 India targets Renewable capacity of 175 GW by 2022 & 450 GW by 2030 from 100 GW currently 'Must-run' status to renewable plants in India ensures continuous off-take of energy 				
Significant Growth Opportunity	 Targeted 5x growth from 5.4 GW currently operational to 25.0 GW by 2025 Disciplined Capital Management with ring fenced structures such as RG1 & RG2 Long term PPA's (25 years); 87% Sovereign & State Guaranteed Counterparties 				
Predictable & Stable cash-flows	 Operations continued normally even during crises situations like COVID-19 EBITDA from Power Supply of ~90% over the past years 				
De-risked Project Pipeline	 200,000+ acres of land identified across India and out of this, 100,000 acres acquired / under-acquisition Revolving Project Financing Framework put in place for an amount of USD 1.35 bn In-house engineering and long term relationships with key suppliers further help de-risk the growth 				
World-class O&M practice	 O&M driven by Analytics & Continuous monitoring with Energy Network Operation Centre Plant availability of ~ 100% (solar) 				
Infrastructure lineage	 Pedigree of Adani Group: leader in infrastructure –transport, logistics, energy and utility space Proven track record of excellence in development, O&M and capital management 				
ESG Focus	 AGEL's largest solar plant of 648 MW in Kamuthi became First net water positive plant of its kind in the world and First single-use plastic free plant of its kind in the world Ranked 3rd best in Indian Electric Utility sector ESG benchmarking of DJSI-SP Global & Assigned MSCI ESG Rating of 'A' 				

Appendix

AGEL: Engineering – Core Strengths

AGEL: Supply Chain Management -Focused Strategic Sourcing & Process Excellence



In-House Design & Value Engineering Capability to Ensure Long-Lasting World-Class Asset

In-house Engineering



30U

Strong design & engineering team of more than 125 engineering professionals with cumulative experience of 2,500 man-years. Capable to handle all aspects in providing engineering solutions for solar, wind & hybrid projects. Optimized solution with high degree of accuracy



Optimization in Layout

Technology selection

- Effective module placement for full utilization of available sites. Shadow analysis, Module orientation study, Module load study for double, triple or multiple staking
- Consequentially leading to high level of optimization of land footprint and project cost.

Selection of Modules, Inverters, trackers. Evaluation of plant system

voltage & current. Design of PV string to meet required parameters

Resource Analysis

- Solar: Systematic collection of site-specific meteorological data for annual energy production
- Wind: Identification of potential sites based on mesoscale wind maps and further analysing to assess the energy yield

Use of best in Industry software

For SRA – PV Syst, Meteonorm

For WRA – WASP, Windfarmer, Openwind, Meteodyn

Engineering – Staad Pro, PLS Cad, Civil 3D Autocad



, Design with Value Engineering

 Capability to carry out basic & detailed design for most of the plant facilities which includes system studies, civil & structural design and plant electrical & control system



Repowering

- Periodic repowering of DC capacity to make up for loss of generation due to solar degradation
- Site requirement and design parameters fully backed in at the planning stage to enable repowering
- Plug and play arrangement for installation of additional modules

AGEL: Supply Chain Management : Focused Strategic Sourcing & Process Excellence





• The advent of modern P2P IT tools (ARIBA) and AI, ML & RPA will further reduce human intervention and bring more automation/efficiency



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Thank You