



### Adani Green Energy Limited

7<sup>th</sup> Annual General Meeting

July 27, 2022

Presented by Vneet S Jaain, MD & CEO

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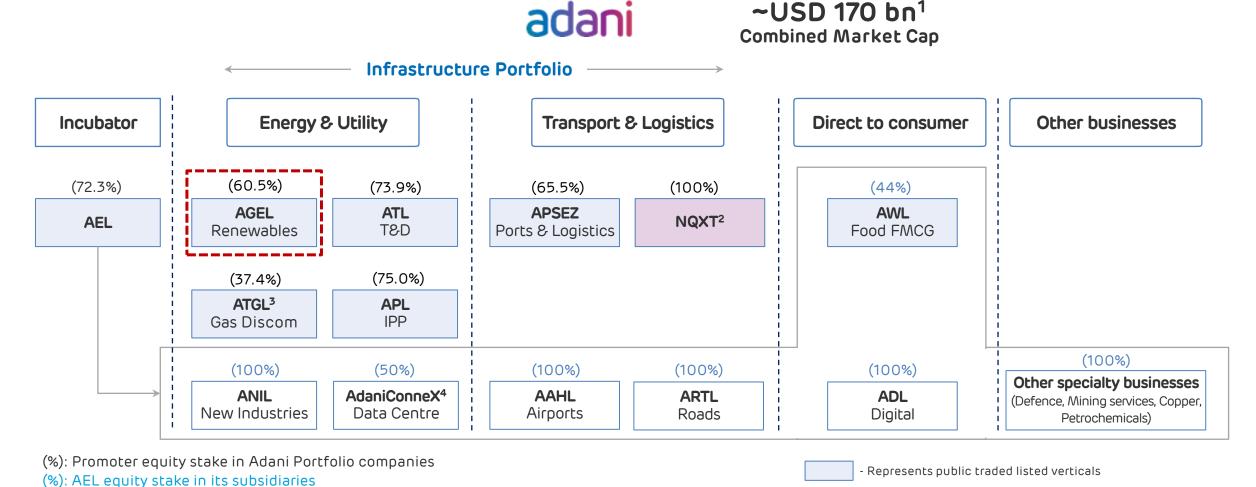
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## Adani Group





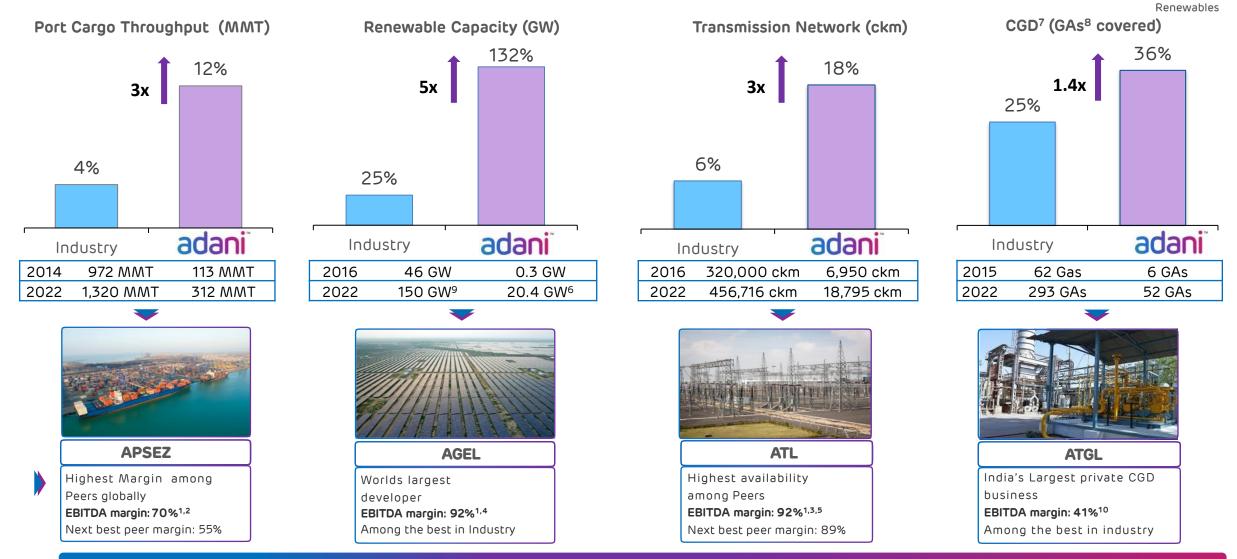


A multi-decade story of high growth and de-risked cash flow generation

<sup>1.</sup> As on June 30, 2022, USD/INR – 78.90 | Note - Light blue color represent public traded listed verticals 2. NQXT: North Queensland Export Terminal | 3. ATGL: Adani Total Gas Ltd, JV with Total Energies | 4. Data center, JV with EdgeConnex, | **APSEZ**: Adani Ports and Special Economic Zone Limited; **ATL**: Adani Transmission Limited; **T&D**: Transmission & Distribution; **APL**: Adani Power Limited; **AGEL**: Adani Green Energy Limited; **AAHL**: Adani Airport Holdings Limited; **ANL**: Adani Roads Transport Limited; **ANL**: Adani New Industries Limited; **ANL**: Adani Digital Limited

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





#### Transformative model driving scale, growth and free cashflow

Note: 1. Data for FY22; 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 10. Data for FY21



Renewables

#### **Phase**



#### **Operations**



#### **Post Operations**

# Activity

Performance

#### **Development**

### Site Development

#### Construction

#### Operation

#### Capital Mgmt

Analysis & market intelligence

Origination

- Viability analysis
- Strategic value
- Site acquisition
- Concessions & regulatory agreements
- Investment case development

- Engineering & design
- Sourcing & quality levels
- · Equity & debt funding at project
- Life cycle O&M planning
- Asset Management Plan
- Redesigning the capital structure of the asset
- Operational phase funding consistent with asset life

• First ever **GMTN of USD 2Bn** by an energy utility player in India - an SLB in line with

Capital" with revolving facility of USD 1.64 Bn - fully fund its entire project pipeline

India's Largest Commercial Port (at Mundra)



(Mundra - Mohindergarh)

in Asia



Longest Private HVDC Line

(at Kamuthi, TamilNadu)



648 MW Ultra Mega Solar

Power Plant

Center (ENOC)

**Energy Network Operation** 



Highest Margin among Peers

Highest availability

Constructed and Commissioned in nine months



Centralized continuous monitoring of plants across India on a single cloud based platform



• Issuance of 20 & 10 year dual tranche bond of USD 750 mn - APSEZ the only infrastructure company to do so

AGEL's tied up "Diversified Growth

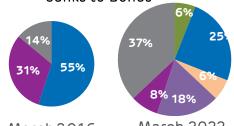
COP26 goals - at AEML

 Green bond issuance of USD 750 mn. establishes AGEL as India's leading credit in the renewable sector





Debt structure moving from PSU banks to Bonds



O&M: Operations & Maintenance, HVDC: High voltage, direct current, PSU: Public Sector Undertaking (Public Banks in India), GMTN: Global Medium Term Notes SLB: Sustainability Linked Bonds, AEML: Adani Electricity Mumbai Ltd. IG: Investment Grade, LC: Letter of Credit, DII: Domestic Institutional Investors, COP26: 2021 United Nations Climate Change Conference; AGEL: Adani Green Energy Ltd.

#### AGEL: Replicating Group's Simple yet Transformational Business Model



Renewables

Development

Secure Sites & Connectivity

~2,00,000 acres

Resource rich sites in strategic locations "RESOURCE AS VALUE APPROACH" Resource Assessment

~40 GW potential

85+ Wind data locations
Solar resource assessment completed

**Construction Readiness** 

Geotechnical studies

and detailed design planning, simulations completed

**Operations** 

100% Contracted Capacity<sup>1</sup>

Fixed tariff

PPA life: 25 years

Average Portfolio tariff: INR 2.99/unit <sup>2</sup>

Technology enabled O&M

**ENOC** 

Enabling high margin EBITDA (92%3)

Utility based ESG income

Green Certificates

Enhancement in the utility linked revenue stream

Value Creation

**Efficient Capital Management** 

Access to International markets

Diversified sources of funding Elongated maturities up to 20 years

Construction Framework
Agreement

US\$ 20 bn

Fully funded plan, AGEL has completed raising US\$ 1.64 bn

Investment Grade (IG) Ratings

First IG rated Issuance – RG2
Largest HoldCo Issuance

Broaden capital pools-144A, REG S, REG D

#### Well positioned for industry leading growth

- Excluding a small merchant solar capacity of 50 MW
- 2. Average tariff for locked-in growth of 20.4 GW
- EBITDA margin from power supply in FY22

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

#### Adani & TotalEnergies Renewable Partnership



Adani and TotalEnergies have a long-term partnership and commitment to expanding the renewable footprint through AGEL

### adani

- Amongst Largest infrastructure and real asset platform with deep expertise and experience in developing large scale infrastructure projects in India
- Fully integrated energy player in India
- Disciplined yet transformational capital management approach, applied across infrastructure sub sectors
- Strong supply chain integration
- Commenced renewable journey in India through AGEL in 2015 setting up the then largest solar power project in the world
- AGEL has signed UN Energy Compact committing to develop and operate Renewable Energy Generation Capacity of 25 GW by 2025 and 45 GW by 2030 and to keep average tariff below Average Power Purchase Cost at national level



- One of the largest energy players in the world with presence across
   130 countries & a leading liquefied natural gas player globally
- Net Zero ambition by 2050 and ambition to achieve 100 GW of gross installed renewable power generation capacity by 2030.
- Deep focus on new renewable energy technology R&D to reduce cost of energy and assist in grid adoption
- Adani and TotalEnergies have formed a "strategic alliance" across renewables, city gas distribution, LNG terminals.
- TotalEnergies owns 19.8% stake <sup>1</sup> in AGEL and 50% Stake <sup>2</sup> in Adani
   Green Energy Twenty-Three Limited (housing 2.3 GW of operating solar projects)
- TotalEnergies has board representation in AGEL and is present on Audit Committee of AGEL

Embedded Teams in plant O&M and development for exchanging ideas and best practices

Adani and TotalEnergies jointly working to achieve global best practices of governance

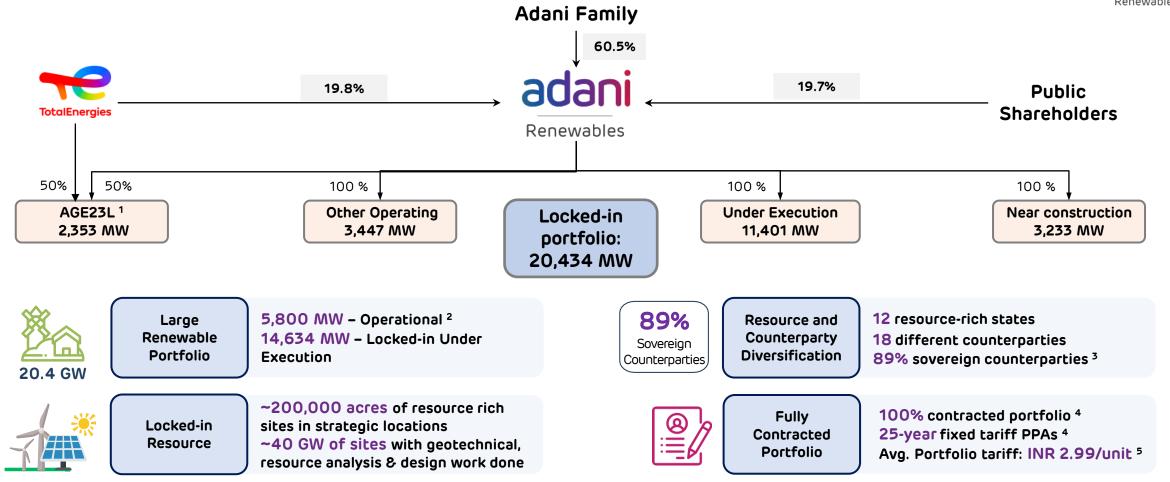


#### AGEL: Key Developments in FY22



- AGEL's overall renewable portfolio increased to 20,434 MW on account of:
  - Completion of acquisition of SB Energy's India Renewable portfolio of 4,954 MW, which includes 1,700 MW operational assets
  - > Award of 450 MW Wind project from SECI and 150 MW Solar Project from Punjab State DISCOM
- Signed PPAs for ~ 6,000 MW out of 8,000 MW awarded to AGEL under SECI's manufacturing linked solar tender
- Operational Capacity increased by 56% to 5,410 MW
- Investment of ~ USD 500 mn from Abu Dhabi based International Holding Company PJSC (IHC) as primary capital in AGEL. This helps
  deleverage the balance sheet, strengthen the credit rating profile thereby helping reduce the cost of capital and support future growth.
- Raised USD 288 mn construction facility thereby increasing the construction revolver pool to USD 1.64 bn
- Key Achievements demonstrating strong ESG commitment:
  - ✓ AGEL is the title funder of the New Climate Change Gallery at the Science Museum in London, titled as 'Energy Revolution: The Adam' Green Energy Gallery'
  - ✓ Signed UN Energy Compact, meant to accelerate global action towards Sustainable Development Goal -7 'Clean and Affordable Energy'
  - ✓ Became **founding member of 'Global Alliance on Sustainable Energy**', which aims to ensure renewable sector is fully sustainable and respects human rights
  - √ 100% of AGEL's operating capacity is now single-use plastic (SUP) free
  - Board charter has been revised by forming new committees and increasing representation of independent directors in existing committees
  - √ Won the 'Golden Peacock Award for Sustainability' for the year 2021 in Renewable Energy category.





#### Renewable capacity of 20.4 GW is fully funded and confirmed

 $<sup>^{1}</sup>$  Includes RG 1 (Restricted Group 1) and RG 2 (Restricted Group 2) SPVs

 $<sup>^{\</sup>rm 2}$  Declared operational capacity as of 30-Jun-2022

<sup>&</sup>lt;sup>3</sup> Includes 5% sovereign equivalent rated counterparties - Gujarat Urja Vikas Nigam Limited (GUVNL) and Adani Electricity Mumbai Limited (AEML)

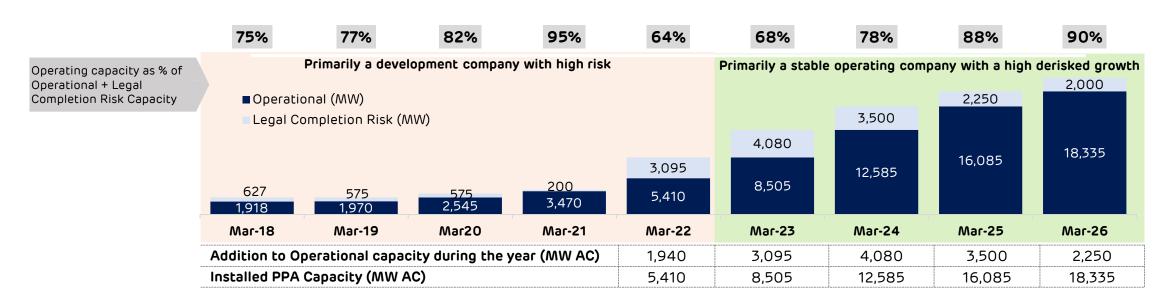
<sup>&</sup>lt;sup>4</sup> Excluding a small merchant solar capacity of 50 MW

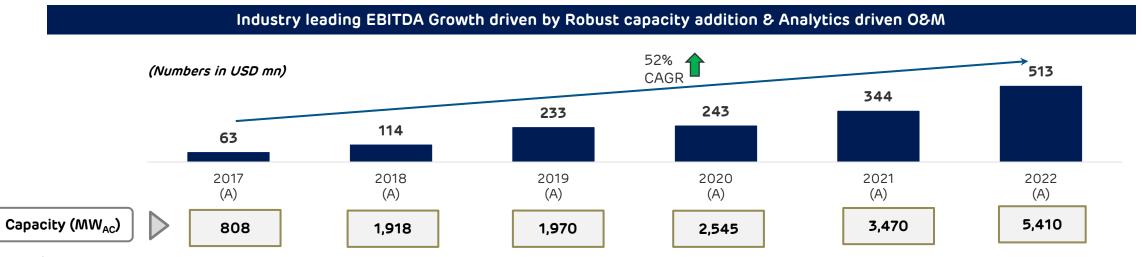
 $<sup>^{5}</sup>$  Average tariff for locked-in growth of 20.4 GW

#### AGEL: Growth and Cash Generation capability Derisked



#### Development risk to reduce with increasing proportion of Operating Capacity (for locked-in portfolio of 20.4 GW)

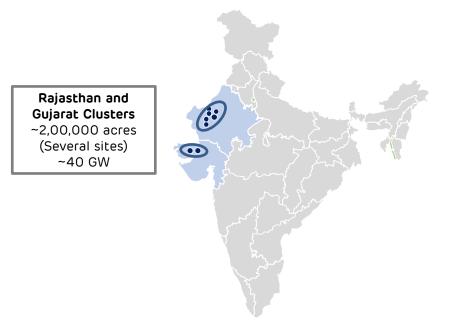




### AGEL: Construction ready Strategic Sites with high resource potential (40GW)



#### Identified high resource potential sites of ~2,00,000 acres in Rajasthan and Gujarat





~2,00,000 Acres Of Land Predominantly Owned By Government



Connectivity granted for entire portfolio.

For planned growth projects connectivity to be applied on receipt of LOAs<sup>3</sup>



Average Solar DC CUF ~24%+ Wind CUF ~40%+



Team consisting of 100+ professionals<sup>1</sup>

Above Sites Available to Deploy: Under Construction ~11.8 GW



Near Construction ~3.2 GW



Future Project Potential

Executing projects at above sites would take AGEL portfolio to >40 GW (~20.4 GW of operational, under & near construction projects and 20 GW of future project potential)

- Team hiring in progress
- 2. DC Direct Current; CUF Capacity Utilization Factor
- 3. LOA: Letter of award received from power purchaser on winning the bid

### AGEL: Technology Enabled Operational Excellence



- AGEL operating assets currently spread across 12 states. Portfolio managed by O&M team of 630 personnel
- Cluster based operating model enabling smooth governance and efficient utilization of manpower and spares: Personnel spread across Central office → Cluster teams
   (5 regional cluster teams) → Site personnel

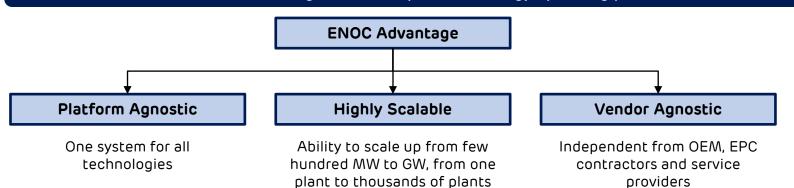
#### ENOC driven Predictive Analytics leading to cost efficient O&M and high performance



- Remote management of all sites from single location to help rapid scale-up of capacity
- Cutting-edge advanced analytics cloud-based platform
  - ✓ Provides **predictive maintenance** inputs reducing frequency of scheduled maintenance and reduced mean time between failure
  - ✓ Automatically recommends **smart corrective actions in real time** reducing mean time to repair
  - ✓ Detailed insights into plant and portfolio performance with access across multiple devices /locations
  - ✓ Backend machine learning and artificial Intelligence for continuously improving insights

#### Full Industrial Cloud under development

#### Integration of acquired SB Energy operating portfolio of 1.7 GW into ENOC platform



- ENOC is a plug-in play and scalable platform which can seamlessly integrate any new platform housing a third-party portfolio
- AGEL acquired SB Energy portfolio on 30th Sep. 2022. The target portfolio was integrated with Adani ENOC facility within 1 week of acquisition date

### AGEL: Replicating Adani Business Model: Capital Management Philosophy



De-risking of underling SPVs to generate and release surplus cashflows for AGEL De-risking integrated in Capital Mgmt. throughout Project lifecycle Project Financing Stabilization HoldCo. Financing SPV level Phase Ensure availability of LCs & short-term funds to Ensure senior debt availability finance equipment for Project Construction working capital De-risking of Liquidity Risk Fully-funded Growth Development Phase Stabilization Demonstrated Raised INR PF facility HoldCo Sr. ~INR 5.684 Cr (~\$750 mn) over USD 7 bn Existing WC facility INR 3.0 bn (\$39 mn) Go to Market Facility NFB Lines USD 1.64 bn revolving INR 87 bn (~\$1.1 bn) facility

Post-Stabilization Phase

Debt Capital market refinancing at lower interest rate, longer tenure and terms akin to stable assets

Post-stabilization Phase

TN: ~INR 3,100 crs (~\$443 mn) RG1: ~INR 4,572 crs (~\$658 mn) RG2: ~ INR 2.585 crs (~\$362.5 mn)

Future USD bonds raise via. DCM Broaden capital pools - 144A / RegS and SEC Registered issuances

Hold.Co. Facility Upto USD 1.7 bn

NFB lines to continue at HoldCo. INR 100.0 bn (\$1.3 bn)

Regular Finance -Construction finance for other projects

Go to Market Facility to be upsized to fund confirmed growth assets

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

Working Capital

facility to continue

Plans

Future

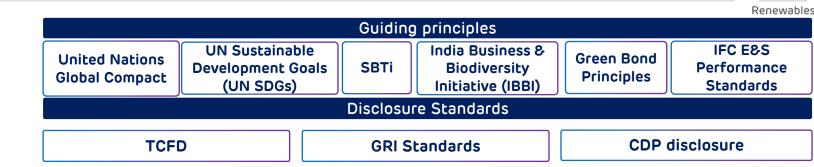
## **ESG Updates**





Guiding





#### Policy Structure

- Environment & Energy as part of IMS policy
- Biodiversity Policy
  - Affirmative Action Policy (EV Support & Action)
  - Guidelines on Human Rights
  - Corporate Social Responsibility Policy
  - Occupational Health & Safety as part of IMS Policy
  - Board Diversity
- G Code of Conduct
  - Related Party Transaction Policy

#### Focus Area - UNSDGs

- Role in climate Action through decarbonization of Grid
- Responsible Consumption and Production
- Safety & well-being
- Quality Education
- Sustainable cities & communities

✓ Won 2021 Golden Peacock Award for Sustainability

Commitment

**Policies** 

✓ CSRHub (Consensus ESG Rating) ranking of 94 percentile, with consistent ranking above Alternative Energy industry average

**ESG** 

- Scored 66/100 in DJSI-S&P Global Corporate Sustainability Assessment, 2<sup>nd</sup> best in Indian Electric Utility sector and significantly better than average World Electric Utility score of 38/100
- ✓ MSCI assigned ESG Rating of 'A'
- ✓ CDP 2021 score of 'B'
- √ FTSE ESG score of 'FTSE4Good'
- ✓ CRISIL assigned ESG score of 66/100, the highest in Power sector

#### **Our Commitment**

- To be in Top 10 companies of the world in ESG benchmarking of electric utility sector by FY25
- To develop and operate renewable energy capacity of 25 GW by 2025 and 45 GW by 2030
- To be Single-use-Plastic-Free (SuPF) company, achieved for 100% operational capacity as of FY22
- To become Zero-Waste-to-Landfill (ZWL) company by FY25
- To become net water neutral for plants more than 200 MW by FY25
- Committed to Health and Safety of workforce with Zero Harm and Zero Leak objective
- Inclusive growth by sustaining communities to ensure social license to operate



#### **Guiding Principles**

- ✓ **Signatory to United Nations Global Compact (UNGC):** Submitted first Communication on Progress (COP) for FY21
- ✓ UN Sustainable Development Goals:
  - ✓ Signatory to UN Energy Compact in line with SDG 7 (Affordable and Clean Energy)
  - ✓ AGEL becomes 1st company from India to achieve GRI South Asia Sustainability Imperatives Charter Member status in 2021
- ✓ **Science Based Targets Initiative (SBTi):** Signed MOU with CDP for 'The Science Based Targets Initiative Incubator Project' (SBTiIP) to advance from commitment stage to target development stage

#### Disclosure Standards

- ✓ TCFD: Supports TCFD and the annual ESG Report enumerates progress on Governance; Strategy; Metrics and Targets and Risk Management approach, including climate scenario analysis
- ✓ GRI Standards: Based on the Comprehensive option, publishing externally assured annual ESG Report
- ✓ CDP Disclosure: Information submitted as per CDP Climate Change Disclosure standards for FY21

Key Commitments				
Indicator	FY25 Target	FY22 Target	Status: FY22	
Water neutral operating capacity (MW)	100%	40%	40%	
Zero waste to landfill operating capacity (MW)	100%	50%	#	
Single use plastic free operating capacity (MW)	100%	50%	100%	

# Implementation underway, external certification to follow

Setting high standards of transparency and sector leadership, AGEL features in CDP India Disclosure Report 2021 as the only company in India in renewable sector disclosing Greenhouse Gases (GHG) emissions in all three scopes

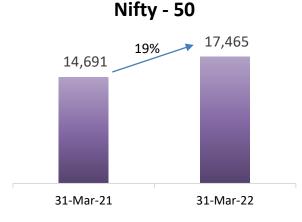
### Value creation











## 21% 2,034 1,680 31-Mar-21 31-Mar-22

**MSCI India Index** 



Sensex

Strong business performance and immense value creation led to investment from marquee investors coming in FY22:

- GIC (Singapore)
- CalPERS
- Irish Life
- Legal & General
- CPPIB
- Fidelity
- CalSTRS.
- Teachers Retirement System of Georgia
- New York State Common Retirement Fund
- The Prudential Assurance Company (UK)
- Qsuper (Australia)

#### Outperformed leading indices giving more than 4x return compared to the indices

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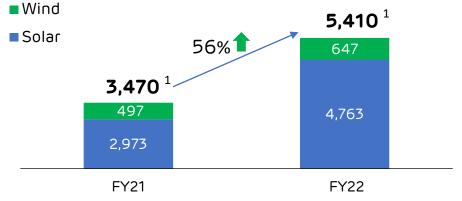
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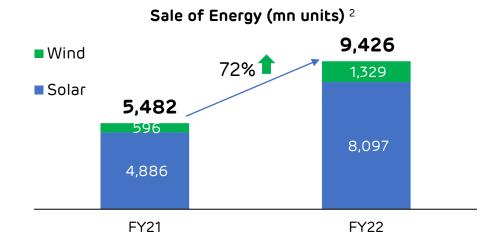
## Appendix

Operational & Financial Highlights - FY22









- ✓ Operational Capacity increases by 56% to 5,410 MW
  - ☐ 200 MW Green field commissioning:
    - 50 MW solar plants
    - 150 MW wind plants
  - ☐ 1,740 MW inorganic addition in operational solar capacity
- ✓ Sale of Energy increases by 72% to 9,426 mn units backed
  by robust performance in both Solar and Wind portfolios

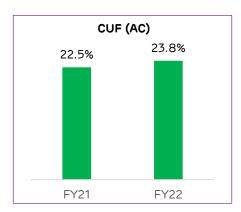
#### Sale of Energy continues to grow exponentially

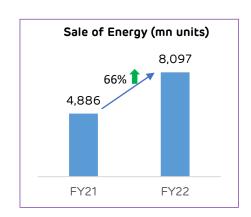
<sup>1.</sup> Includes 150 MW operational wind assets, for which AGEL has acquired control from Inox towards end of March 2022.

<sup>2.</sup> This includes sale of energy of towards non-capitalized plants (110 mn units in FY22 and 264 mn units in FY21).



#### **Solar Portfolio Performance**

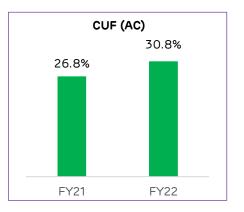


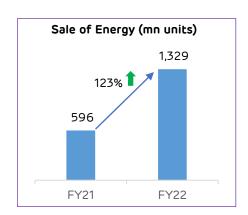


- Sale of Energy up by 66% on the back of:
  - Capacity increase from 2,973 MW to 4,763 MW YoY
  - 130 bps improvement in CUF
- Improved CUF performance backed by:
  - Integration of high quality SB Energy portfolio having CUF of 25.9% for the period of Oct'21 Mar'22
  - 10 bps improvement in plant availability to 99.6%
  - 210 bps improvement in grid availability to 98.9%

Significant improvement in Solar CUF backed by ~ 100% plant availability and value accretive acquisition

#### **Wind Portfolio Performance**





- Sale of Energy up by 123% backed by:
  - Capacity increase from 497 MW to 647 MW YoY (1)
  - 400 bps improvement in CUF
- Improved CUF performance backed by:
  - Technologically advanced and more efficient newly added Wind Turbine Generators
  - 140 bps improvement in plant availability to 96.5%
  - Improved wind speed

Significant improvement in Wind CUF with technologically advanced WTGs & improved plant availability



(All figures in INR Crore)

#### Revenue from Power Supply



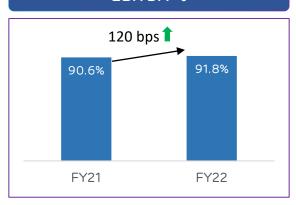
#### EBITDA from Power Supply 1



#### Robust growth in revenue from power supply is backed by capacity addition of 1,940 MW and improved solar and wind CUF.

 Continued growth in EBITDA from Power Supply and Cash Profit is supported by increase in revenues and cost efficiencies brought in through analytics driven O&M.

#### **EBITDA %**







Continued robust financial performance backed by strong capacity addition and consistent operational performance

<sup>1.</sup> EBITDA from Power Supply = Revenue from Power Supply + prompt payment discount + carbon credit income (part of Other Operating Income) - Employee Benefit Expenses excluding overseas expenses - Other Expenses excluding expenses pertaining to EPC/ sale of goods & loss on sale of assets

<sup>2.</sup> Cash Profit = PAT + Depreciation + Deferred Tax + Exceptional Items + TOTAL Distribution (which is part of finance cost as per IndAS)

# Appendix

Additional ESG Updates - FY22



#### Key Updates on Environment & Social initiatives – FY22

- > Pollution control & GHG emission reduction
  - √ 8.6 Mn ton CO₂ emission avoided in FY22
  - √ 99.5% less emission Intensity per unit of generation (0.002 GHG tCO₂ / MWh) in FY22 v/s Indian grid average of 0.79 tCO₂ / MWh
- > Resource conservation
  - √ 99.27% less Fresh Water consumption per unit of generation (0.03 kl/MWh) in FY22 as against 3.5 kl / MWh, statutory limit for thermal power
  - √ 100% of AGEL's operating capacity is now single-use plastic free under CII Plastic Protocol

#### > Bio-diversity management

- ✓ Adopted a Technical Standard, developed in association with CII following IBBI Principles and IUCN Standard, to ensure 'No Net Loss' of biodiversity across all plants
- Occupational Health & Safety
  - ✓ **0.14 LTIFR** in FY22
  - ✓ 4.12 mn continuous safe man hours in FY22
  - √ 89,460 workman training hours on safety in FY22
  - ✓ Employee retention rate of 84.33% in FY22
- > Sustainable Livelihood
  - √ 3693 direct/ indirect job opportunities provided in FY22

#### Governance - Revised Board of Charter implemented

- > Newly formed Board Committees
  - ✓ Corporate Responsibility Committee with 100% Independent Directors to assure implementation of ESG commitments
  - ✓ New Sub-Committees of Risk Management Committee with at least 50% Independent Directors
    - ✓ Mergers & Acquisitions Committee
    - ✓ Legal, Regulatory & Tax Committee
    - ✓ Reputation Risk Committee
  - ✓ Information Technology & Data Security Committee with at least 50% Independent Directors

- Increased percentage of Independence Directors in Existing Board Committees
  - ✓ Increased from 75% to 100% for Audit Committee and Nomination and Remuneration Committee
  - ✓ Increased from 33% to at least 75% for Corporate Social Responsibility Committee
  - ✓ Increased from 33% to at least 50% for Risk Management Committee
  - ✓ To be at least 50% for Stakeholders Relationship Committee