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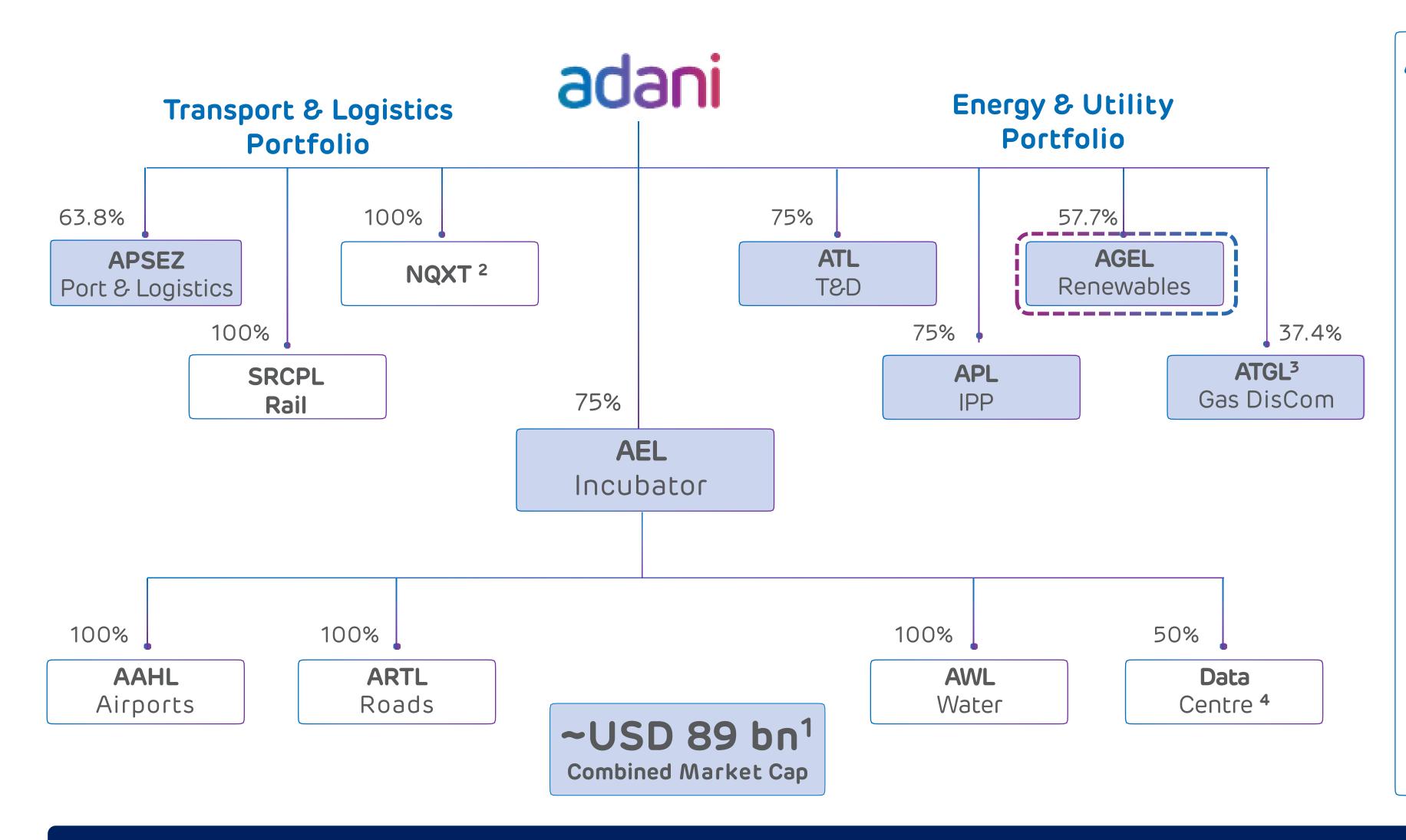
1	Adani Group Overview
2	Company Profile
3	Our Business Philosophy: De-risking at every stage
4	AGEL ESG Philosophy



# 1. Adani Group Overview

# Adani Group: A world class infrastructure & utility portfolio





#### 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 (JV with EdgeConneX)

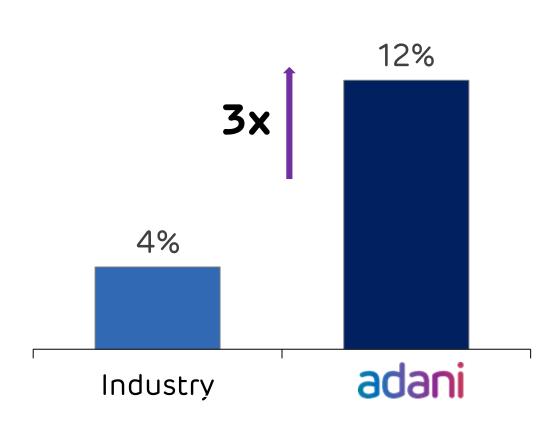
### Opportunity identification, development and beneficiation is intrinsic to diversification and growth of the group.

1. As on July 31th, 2021, USD/INR – 74.4 | Note - Percentages denote promoter holding and Light blue color represent public traded listed verticals 2. NQXT – North Queensland Export Terminal | 3. ATGL – Adani Total Gas Ltd, JV with TotalEnergies | 4. Data center, JV with EdgeConnex | APSEZ: Adani Ports and Special Economic Zone Limited; SRPCL: Sarguja Rail Corridor Private Limited; ATL: Adani Transmission Limited; AGEL: Adani Green Energy Limited; AAHL: Adani Airports Holdings Limited; ARTL: Adani Roads Transport Limited; AWL: Adani Water Limited; AEML: Adani Electricity Mumbai Limited; B2B: Business-to-Business; B2C: Business-to-Consumer

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



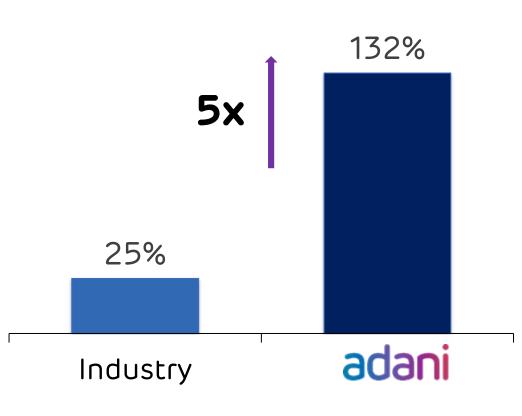
#### Port Cargo Throughput (MMT)



113 MMT

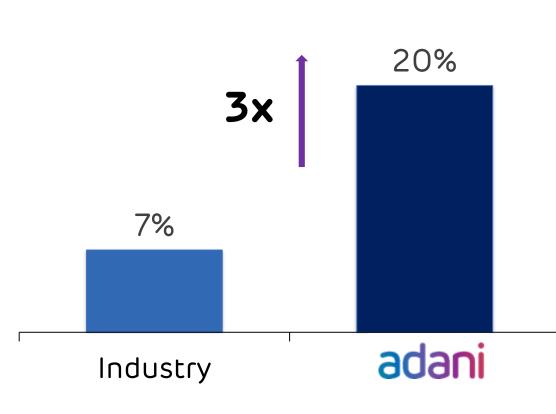
247 MMT

#### Renewable Capacity (GW)



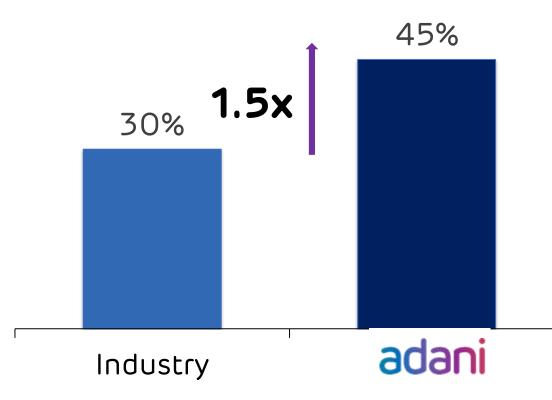
2016	46 GW	0.3 GW
2021	140 GW <sup>9</sup>	19.8 GW <sup>6</sup>

#### Transmission Network (ckm)



2016	320,000 ckm	6,950 ckm
2021	441,821 ckm	18,801 ckm

# CGD<sup>7</sup> (GAs<sup>8</sup> covered)



2015	62 GAs	6 GAs
2021	228 GAs	38 GAs



972 MMT

1,246 MMT

2014

2021

#### **APSEZ**

Highest Margin among
Peers globally **EBITDA margin: 70%**<sup>1,2</sup>

Next best peer margin: 55%



#### **AGEL**

One of the Worlds
leading developer **EBITDA margin: 91%**<sup>1,4</sup>
Among the best in Industry



#### ATL

Highest availability
among Peers **EBITDA margin: 92%**<sup>1,3,5</sup>

Next best peer margin: 89%



#### **ATGL**

India's Largest private CGD business

EBITDA margin: 41%<sup>1</sup>

Among the best in industry

### 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



#### Phase

### Development



### Operations



# Post Operations

# Activity

O

Performanc

#### Origination

- Analysis & market intelligence
- Viability analysis
- Strategic value

### Site Development

- Site acquisition
- Concessions & regulatory agreements
- Investment case development

#### Construction

- Engineering & design
- Sourcing & quality levels
- Equity & debt funding at project

#### Operation

- Life cycle 0&M planning
- Asset Management plan

#### Capital Mgmt

- Redesigning the capital structure of the asset
- Operational phase funding consistent with asset life

# India's Largest Commercial Port (at Mundra)

Highest Margin among Peers

Longest Private HVDC Line in Asia (Mundra - Mohindergarh)

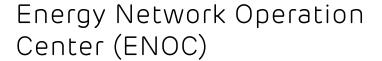


Highest availability

648 MW Ultra Mega Solar Power Plant (at Kamuthi, TamilNadu)



Constructed and Commissioned in nine months





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



#### In FY21

Successfully placed three long tenure IG rated international bonds totaling to \$1.55 Bn

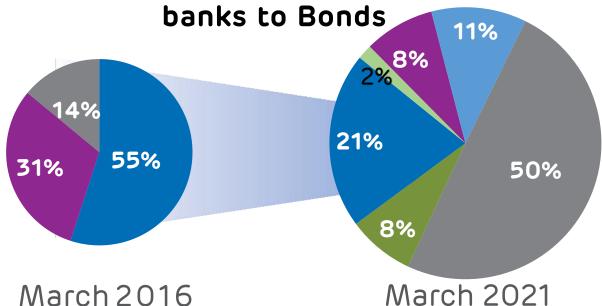
First ever GMTN<sup>1</sup> of USD 2Bn by an energy utility player in India - an SLB<sup>2</sup> in line with COP26 goals - at AEML

AGEL's tied up "Diversified Growth Capital" with revolving facility of \$1.35 Bn - will fully fund its entire project pipeline





Debt structure moving from PSU's



**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; IG: Investment Grade; LC: Letter of Credit; DII: Domestic Institutional Investors; COP26: 2021 United Nations Climate Change Conference

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



Secure Sites & Connectivity Resource Assessment **Construction Readiness** 200,000 acres ~31 GW potential Geotechnical studies Development Resource rich Sites in strategic locations 85+ Wind data locations and detailed design planning, simulations completed Solar resource assessment completed Robust EBITDA margins Technology enabled O&M 100% Contracted Capacity<sup>1</sup> Fixed tariff 91%<sup>3</sup> **ENOC** Operations Sweat assets to its fullest (Highest Generation) + Analytics driven O&M with AI based technology to PPA life: 25 years maximize generation and perform predictive Low Operating Costs = High EBITDA per MW Average Portfolio tariff: INR 3.13/unit <sup>2</sup> maintenance Construction Framework Agreement Investment Grade (IG) Ratings Efficient Capital Management US\$ 1.35bn Access to International markets First IG rated Issuance

### World's largest solar developer<sup>(4)</sup>, well positioned for industry leading growth

Revolving construction facility from

international banks to fully fund under

construction pipeline

- 1. Excluding a small merchant solar capacity of 50 MW
- 2. Average tariff for locked-in growth of 19.8 GW
- 3. EBITDA margin from power supply in FY21

Value Creation

4. According to Mercom Capital Group, Ilc's report titled "Leading Global Large-Scale Solar PV Developers" dated August 2020

Diversified sources of funding

Elongated maturities up to 20 years

At OPCO level

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

# Adani TotalEnergies Renewable Partnership



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



- Amongst Largest infrastructure and real asset platform in India
- Deep expertise and experience in developing large scale infrastructure projects in India
- Fully integrated energy player in India
- Deep capital management capabilities in the platform across other infrastructure sub sectors
- Strong supply chain integration
- Entered renewable sector in India through AGEL in 2015 and setup the then largest solar power project in the world as its first project
- Ambition to add 25 GW by 2025



- One of the largest energy players in the world & a leading liquefied natural gas player globally
- Presence across 130 countries
- Huge focus on adding renewable energy footprint, target to add 35 GW renewable capacity by 2025
- Operating renewable projects all over the world
- 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 20% stake <sup>1</sup> in AGEL and 50% Stake <sup>2</sup> in Adani
   Green Energy Twenty-Three Limited

TotalEnergies has board representation in AGEL and is present on Audit Committee of AGEL

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

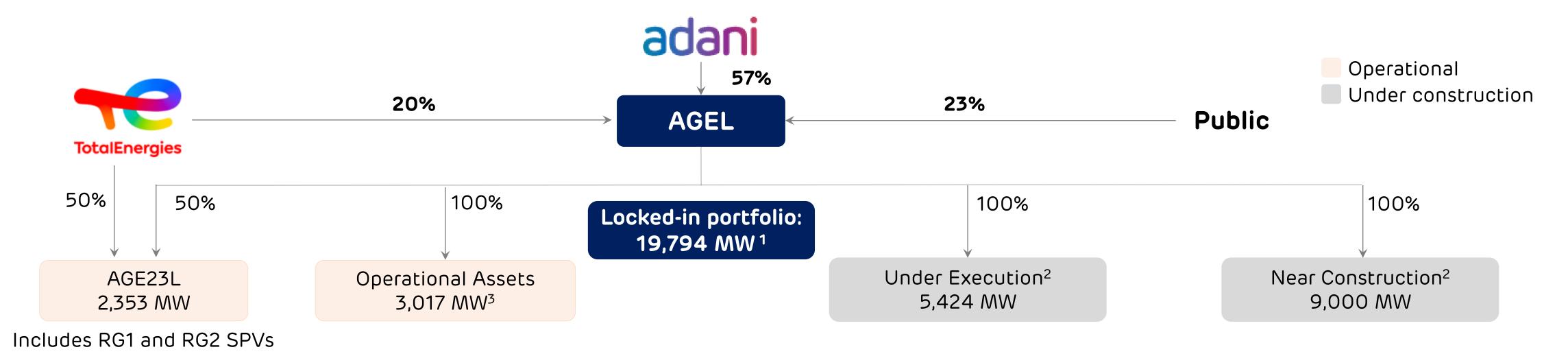
Adani and TotalEnergies jointly working to achieve global best practices of governance



# 2. Company Profile

# AGEL: Transformational Renewable Company





#### **Key Highlights**

- Operating capacity of 5,370 MW  $^{
  m 1}$  on 30 Jun 21 expected to grow to 8,214 MW by 31 Mar 22  $^{
  m 4}$
- AGEL's operational capacity has grown from 748 MW on 31 Mar 17 to 5,370 MW  $^1$  on 31 Jul 21
- Resource tie-up: AGEL has tied up strategic sites with generation potential of c. 31 GW
- Portfolio spread in 11 states with 21 different counterparties. 87% capacity contracted to Sovereign / Sovereign equivalent off takers
- AGEL has been assigned ESG Rating of 'A' by MSCI; also ranked 2<sup>nd</sup> best in ESG benchmarking of Indian Electric Utilities by DJSI-SP
- Two-year history of publicly traded USD bonds, issued first IG rated bond in the power generation space in India (RG2)

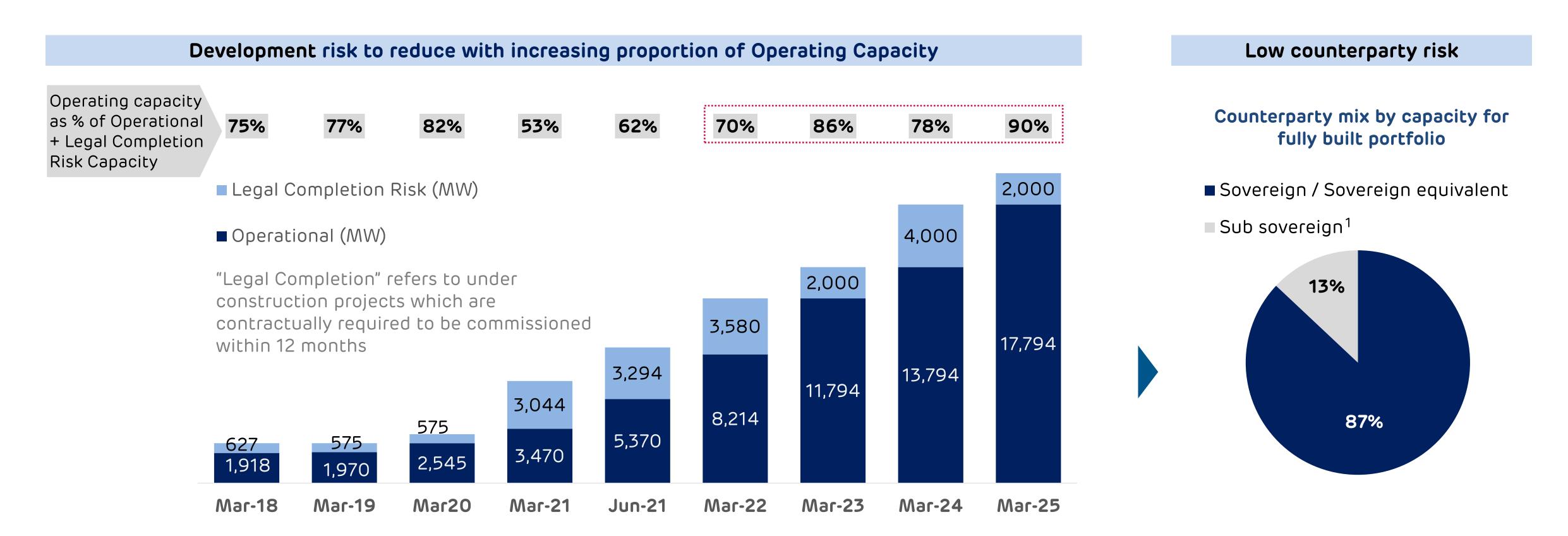
#### AGEL targets to achieve 25 GW installed capacity by 2025

- 1. Capacities include under acquisition projects (i) SB Energy's 4,954 MW portfolio and (ii) Inox Wind's 150 MW operational wind assets
- 2. Under Execution projects include capacity where PPA is signed, Near Construction projects include capacity won in tender and is pending for PPA execution. Includes 2,554 MW under execution assets from SB Energy 8 700 MW near construction assets from SB Energy
- 3. Includes under acquisition 1,700 MW operational assets from SB Energy & 150 MW wind assets from Inox
- 4. Our ability to achieve our targeted growth capacity are subject to various risk

# Majority Operating Portfolio by 2022 reducing Development Risk



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



#### High quality portfolio with low development and counterparty risk

#### Note:

The capacities shown in the diagram include SB Energy & Inox assets, which are under acquisition

The capacities shown in the diagram show our targeted growth in capacity, based on the construction timelines indicated in the relevant PPAs and letters of award. Our construction activities and the ability to achieve our targeted growth capacity are subject to various risk.

<sup>1. &#</sup>x27;Sub sovereign' refers to state and private discoms

# Operating in a stable and evolved regulatory framework



Ministry of Power (MOP)

Empowered Committee

CEA

Tariff Determination Methodology

#### Participants/Statutory bodies under Electricity Act, 2003

- ERC
- To regulate and determine/adopt the tariff and to grant license
- CERC at national level and SERC at state level
- CTU
- Undertake transmission at inter-state transmission systems
- Has an equivalent counterpart at state level (STU)

### NLDC

 Optimum scheduling and despatching of electricity among the Regional Load Despatch Centres (RLDC) and State Load Despatch Centres (SLDC)

#### Section 63 (Competitive bidding)

- Tariff determined through transparent process of competitive bidding
- Standard bidding guidelines notified by Ministry of Power in line with the Electricity Act 2003 and the National Tariff Policy, 2016
- CERC or the state regulatory commission adopts tariffs determined through bidding
- Renewables PPA tenure of 25 years. No adjustment to tariff allowed aside from CIL adjustments

- ✓ Renewable power is power of choice for discoms ranks among cheapest sources of power
- ✓ Government target of 450 GW renewable capacity by 2030



- ✓ Rapid strides for adoption of renewable power tenders conducted for
  - Wind-solar hybrid PPAs
  - RTC PPAs
  - Renewable + battery storage systems

#### Tariff Determination Methodology for Renewable Projects

Section 63 of Electricity
Act



Tariff fixed for PPA life



Change in Law (CIL)
(if any)

Tariff is determined through a transparent reverse auction process

Bid tariff fixed over PPA tenure of 25 years. Provides revenue visibility

Any change in law that has an impact on Tariff is allowed



3. Our Business Philosophy: De-risking at every stage

# Business Philosophy focussing on de-risking at every stage of project lifecycle



#### **DE-RISKING AT EVERY STAGE**

#### Site and Evacuation

- ~31GW potential, ~200,000 acres of land
- Clear visibility on evacuation infrastructure
- Eg : 15 GW site in Khavda, Gujarat

#### Strong In house Capabilities

- Execution experience over 320 sites across India
- 20,000 vendor network
- Inhouse R&D on new renewable technologies

#### Capital Management

- Takeout of construction debt post commissioning
- Large capital pool in debt capital markets globally
- Maintain IG rating framework for future issuances



#### **Project Execution**

- PMAG Central team with deep experience
- Eg: Execution of 648 MW Kamuthi Solar Project
- GW+ scale sites

#### **Construction Finance**

- Construction framework consistent with stage of project execution
- LC facility to finance equipment purchase
- Eg: Framework Agreement of US\$ 1.35bn with international banks fully funds pipeline

#### Tech Enabled Operations - ENOC

- Life cycle O&M planning
- Strong integration of technology with Energy Network Operations Center

#### **DE-RISKING AT EVERY STAGE**

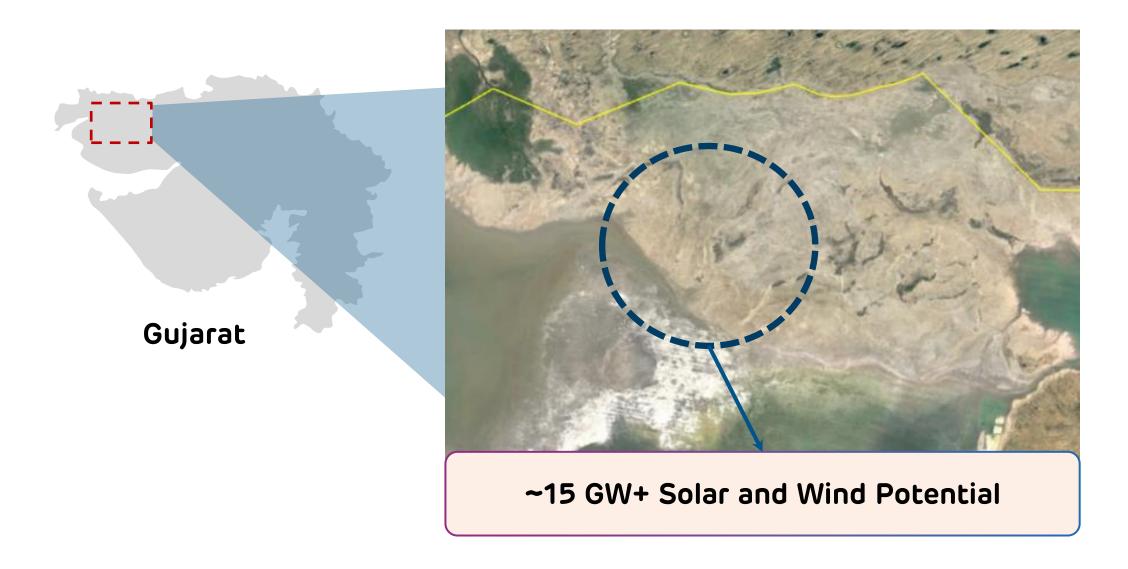
# Resource tie-up during Development Stage to minimize execution risk



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

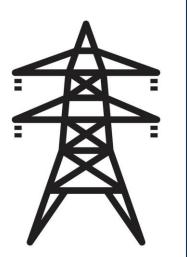
#### Khavda 15,000 MW site

#### 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
  ✓ 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

✓ Arup, UK

✓ Royal Haskoning, Netherlands



#### Mobilization ready

- Centralised procurement through extensive network of 20,000+ vendors
- Long term strategic alliance with top global suppliers for key categories i.e. Modules, Inverter, Tracker, WTG
- Established sourcing network in host countries for imported equipment

# Demonstrated Project Execution Capability



#### Project Management & Assurance Group (PMAG) for control over end-to-end project execution

- Team of 90 professionals having hands-on experience of **2,000+ man-years** of complete project management cycle
- Capacity addition of 925 MW in FY21 during COVID19 pandemic of which greenfield capacity of 575 MW was commissioned up-to 160 days ahead of applicable scheduled COD, balance capacity was acquired

#### 648 MW project in Tamil Nadu in 9 months

- Developed the then world's largest solar power plant at a single location, in Kamuthi, Tamil Nadu
- Mammoth execution in **9 months**, of which 2 months featured the worst floods in recent history of Tamil Nadu





Acquired 2,930 acres of land of which 2,340 acres is private land



2.5 mn solar modules



**6,000 containers** from 9 countries in 6 months



380,000 foundations

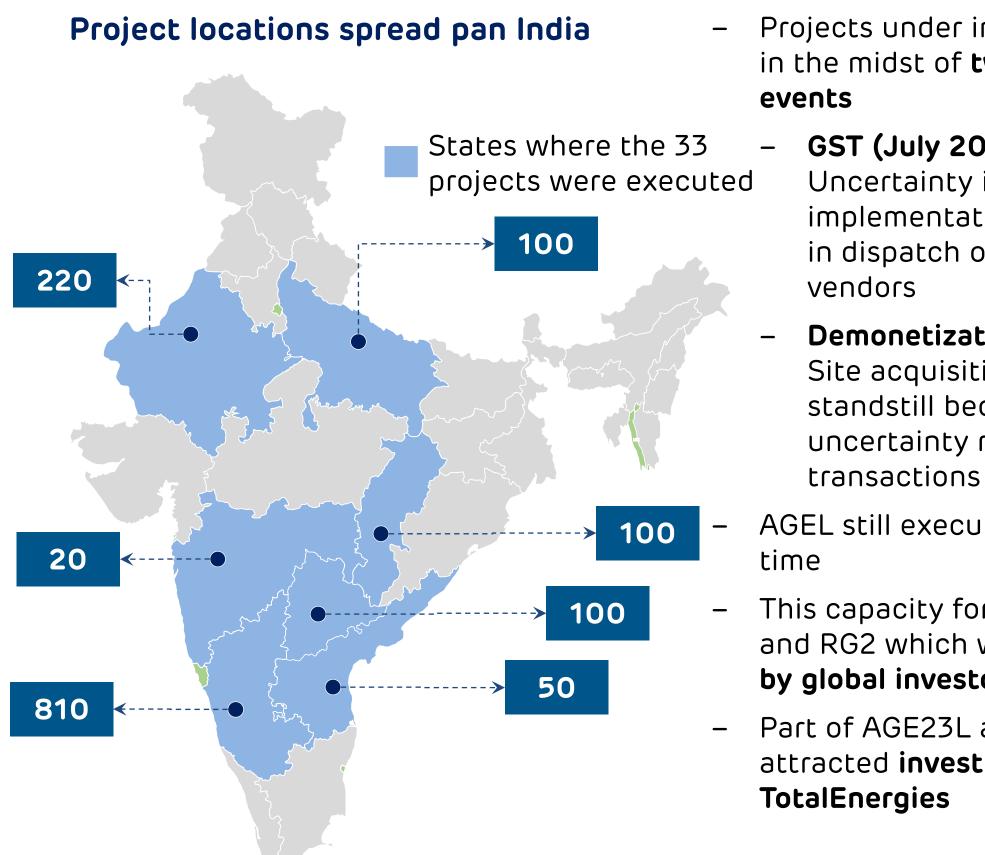


8,500 personnel



**550** inverters

#### 33 Projects under implementation (1.4 GW) concurrently in 12 months across 7 states



- Projects under implementation in the midst of **two disruptive** 
  - **GST (July 2017)**: Uncertainty in GST implementation led to delay in dispatch of equipment by
- Demonetization (Nov 2016): Site acquisitions were on standstill because of uncertainty regarding
- AGEL still executed projects on
- This capacity forms part of RG1 and RG2 which was refinanced by global investors
- Part of AGE23L assets which attracted investment by

# Fully Funded Growth through Construction Framework Agreement



- AGEL has signed up Construction Framework Agreement for under construction projects for US\$1.35 bn with 12 international banks
- Revolving capex facility: 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 the **framework**, fully finance the growth of AGEL

#### Key Features of Construction Framework Agreement

#### Access to large liquidity pool

- Participation from 12 leading international banks
- Diverse funding pool (UK, Asia, Europe)
- Current participation expanded to 16 banks through syndication

#### Participating Banks

Standard Chartered	Mizuho
MUFG	DBS
SMBC	Rabobank
BNP Paribas	Deutsche Bank
Siemens	ING Bank
Barclays	Intesa Sanpaolo
BIM	BIC
HKMC	BPI

#### Framework Agreement

- Framework agreement for financing new projects
- Upfront agreement with lenders on
  - Project Parameters
  - Due Diligence protocols
  - Legal documents
  - Approved suppliers
- Pre agreed credit evaluation
   metrices → faster financial closure
- Go-to-Market construct built in documentation with upfront Scenario Rating from international rating agency
- Aligned with AGEL's capital management philosophy

#### Due Diligence (DD) readiness

- Internal processes aligned for DD of new projects
- Standardized EPC and O&M contracts based on global best practices
- Projects under this facility will be
   DD ready during takeout

# Diligence conducted by reputed global agencies

Diligence Study	Agency
EYA	UL
ESIA, CHA, Bird &	ERM
Bat Monitoring	
ESDD	ARCADIS
LIA	Marsh
Scenario Ratings	Fitch Ratings
Green Loan Advisor	KPMG

#### Conditions aligned with business

- Framework Agreement validates the overall infrastructure model with robust diligence parameters
- Non-recourse debt with only specific Completion support requirement from AGEL
- Flexibility for raising other project level debt WC debt
- Overall Compliance protocol akin to public market offering from construction stage

# Technology Enabled Operational Excellence



- AGEL operating assets currently spread across 11 states and 59 locations. 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

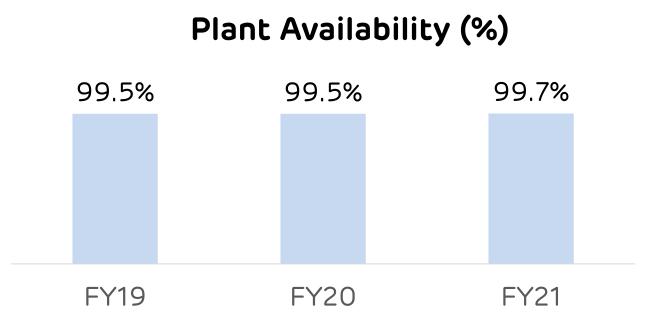
#### ENOC driven Predictive Analytics leading to cost efficient O&M and high performance

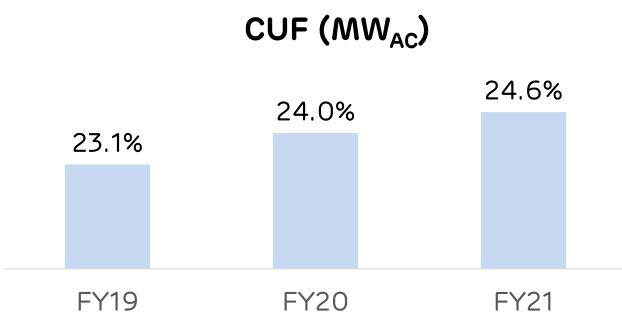


- Remote management of all sites from single location to help rapid scale-up of capacity
- Analytics platform from Italy based BAX Energy, which has connected 100+GW globally
- Cutting-edge advanced analytics cloud-based platform
  - ✓ Provides predictive maintenance inputs reducing frequency of scheduled 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

# Performance of RG1 and RG2 portfolio (1.5 GW)





FY21 EBITDA margin (power supply)

92.0%



# 4. AGEL ESG Philosophy

### AGEL: Robust ESG Assurance Framework







#### Our Commitment

- To be in Top 10 companies of the world in ESG benchmarking of electric utility sector by 2025
- To become Zero-Waste-to-Landfill (ZWL) company by 2025
- To become Single-use-Plastic-Free (SuPF) company by 2024
- Committed to Health and Safety of workforce with Zero Harm and Zero Leak objective
- Inclusive growth including communities by undertaking CSR initiatives aligned with business impacts to leave positive footprints and societal happiness

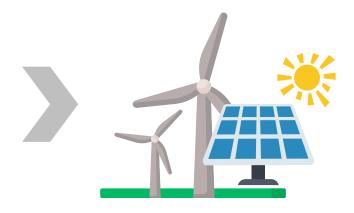
# AGEL commitment to UN Sustainability Development Goals



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



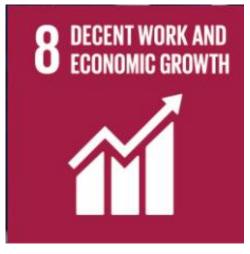
Ensure access to affordable, reliable, sustainable and modern energy for all



- 19.8 GW locked in capacity today
- 25 GW installed capacity by FY25
- Target to be World's largest renewable company by 2030



- Average portfolio tariff @ INR 3.13/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 employees<sup>1</sup> 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

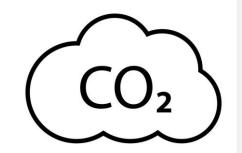


- O&M integration with technology through ENOC ightarrow Cost efficient O&M with higher generation output
- Indigenously developed semi-automatic module cleaning system: Water consumption reduced by 46% and manpower cost for module cleaning reduced by 75%



Take urgent action to combat climate change and its impacts





- AGEL avoided emissions of 5.15 mn Tonnes CO2e in FY21.
- 14.60 mn Tonnes CO2 emission avoided since incorporation to FY21



- Net-Water neutrality for plants >200 MW by 2025
- Waste module recycling across all sites
- Single Use Plastic free sites by 2024
- 'Zero Waste to Landfill' company by 2025

# AGEL: A Compelling Investment Case



# Excellent execution track record

- World class project execution with equipment sourced from tier 1 suppliers through strategic alliances
- Central monitoring of all project execution by Project Management & Assurance Group
- Track record of executing projects ahead of schedule vis-a-vis execution timeline

#### De-risked Project Development

- Locked in portfolio: 19.8 GW of which 5.4 GW is operational and 2.8 GW is in final stages of commissioning
- Resource tie-up: Strategic sites with generation potential of ~31 GW with geotechnical, resource analysis & design work done
- Fully funded growth ensured through Revolving Construction Framework Agreement of USD 1.35 bn
- 20,000+ vendor relationships ensuring effective and timely execution

# Predictable & Stable cash-flows of OpCo's

- 25 year long term PPA's; ~87% sovereign rated counterparties significantly reducing counterparty risk
- Technology backed O&M: ENOC driven Predictive Analytics leading to cost efficient O&M and high performance
- EBITDA margin from Power Supply of ~90% over the past years, ensuring maximum cash generation
- Rapid transition from majority development risk to primary stable operating assets

#### Strong Sponsorship

- Pedigree of Adani Group: leadership in infrastructure energy & utility and transport & logistics sectors
- Robust, reliable supply chain backed by strategic investments
- Strategic partnership with French Energy major TotalEnergies SE





# Thank You