



**Energy Solutions** 

# Adani Energy Solutions Limited

(Formerly known as Adani Transmission Limited)

### **Credit Presentation**

August 2023

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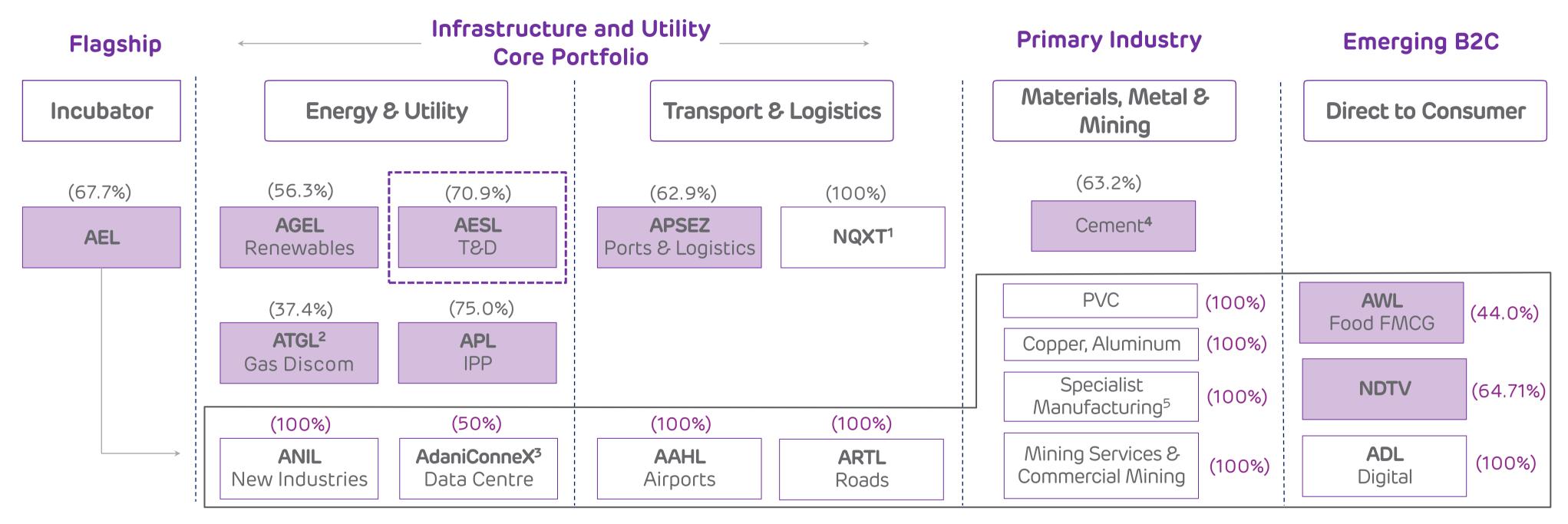


**Energy Solutions** 

# Adani Portfolio

# Adani: A World Class Infrastructure & Utility Portfolio

adani



(%): Promoter equity stake in Adani Portfolio companies

(%): AEL equity stake in its subsidiaries

### A multi-decade story of high growth centered around infrastructure & utility core

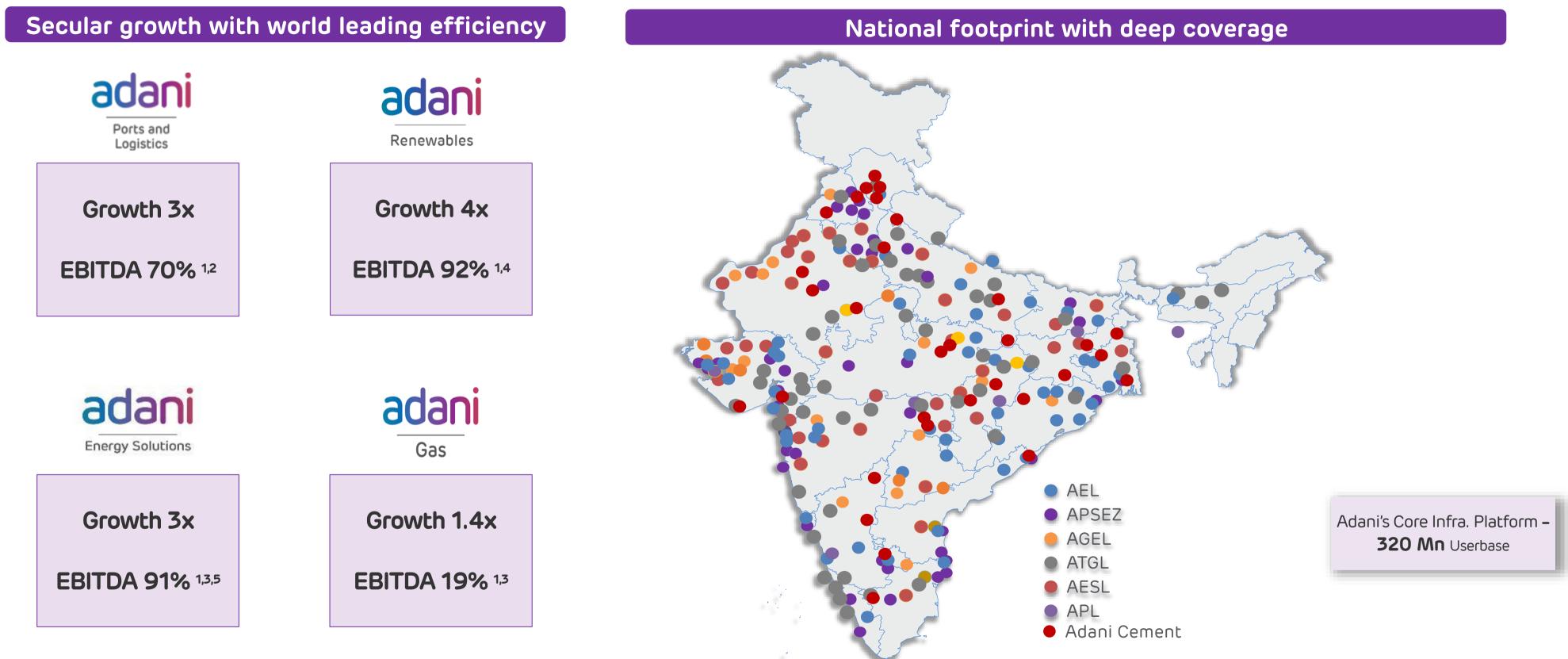
Data as of June 30, 2023. 1. NQXT: North Queensland Export Terminal | 2. ATGL: Adani Total Gas Ltd, JV with Total Energies | 3. Data center, JV with EdgeConnex | 4) Cement business includes 63.15% stake in Ambuja Cement which in turn owns 50.05% in ACC Limited. Adani directly owns 6.64% stake in ACC Limited | 5. Includes the manufacturing of Defense and Aerospace Equipment

APSEZ: Adani Ports and Special Economic Zone Limited; AESL: Adani Energy Solutions Limited; T&D: Transmission & Distribution; APL: Adani Green Energy Limited; AAHL: Adani Airport Holdings Limited; ARTL: Adani Roads Transport Limited; ANIL: Adani New Industries Limited; AWL: Adani Wilmar Limited; ADL: Adani Digital Limited | Note - Purple color represent public traded listed verticals;



Represents public traded listed verticals

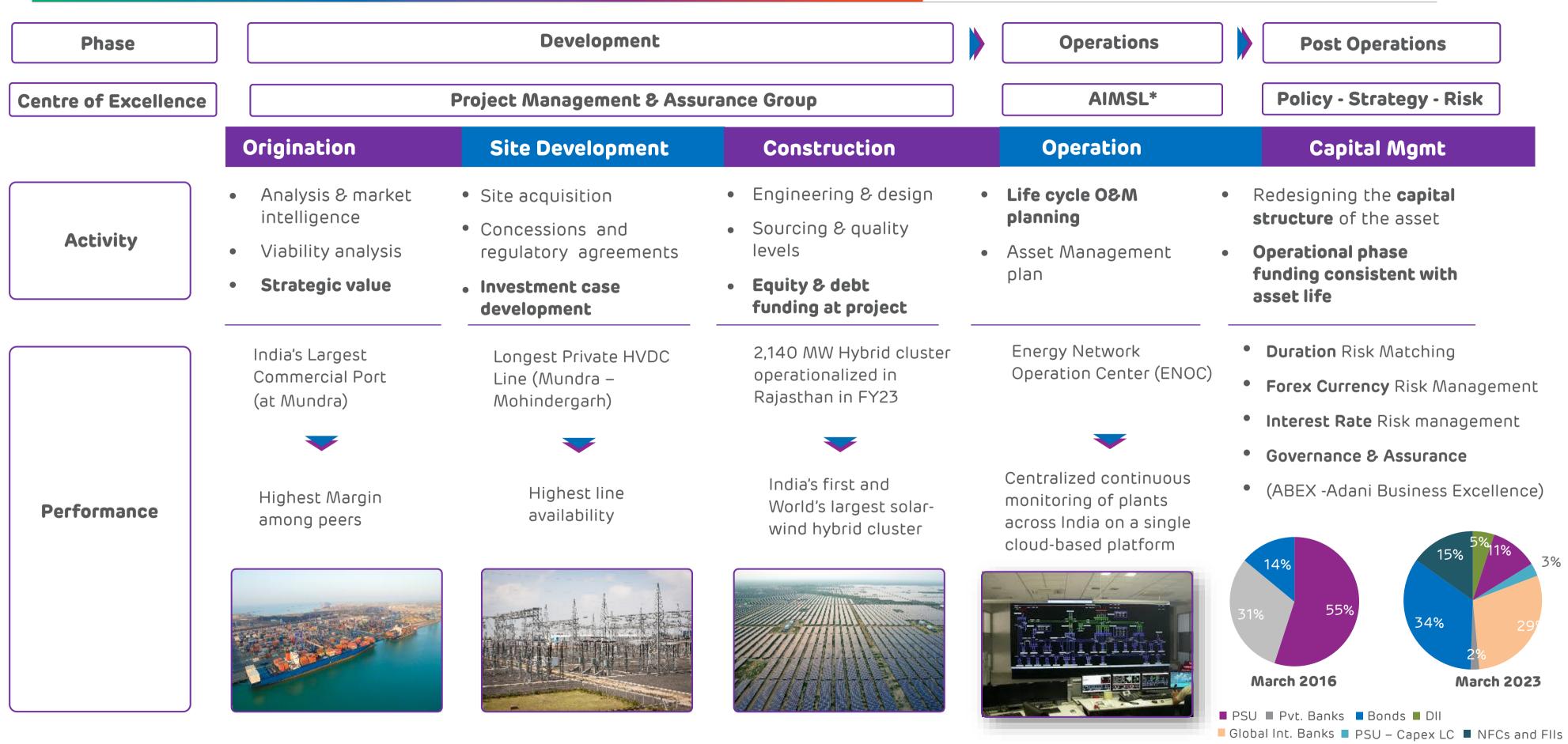
## Adani Portfolio: Decades long track record of industry best growth with national footprint



Note: 1. Data for FY23; 2. Margin for ports business only, excludes forex gains/losses; 3. EBITDA = PBT + Depreciation + Net Finance Costs - Other Income; 4. EBITDA earned from power supply 5. Operating EBITDA margin of transmission business only, does not include distribution business; PBT- Profit before tax, ATGL-Adani Total Gas Limited, AEL: Adani Enterprises Limited, APSEZ: Adani Ports and Special Economic Zone Limited, AESL: Adani Energy Solutions Limited, APL: Adani Power Limited, AGEL: Adani Green Energy Limited; Map not to scale



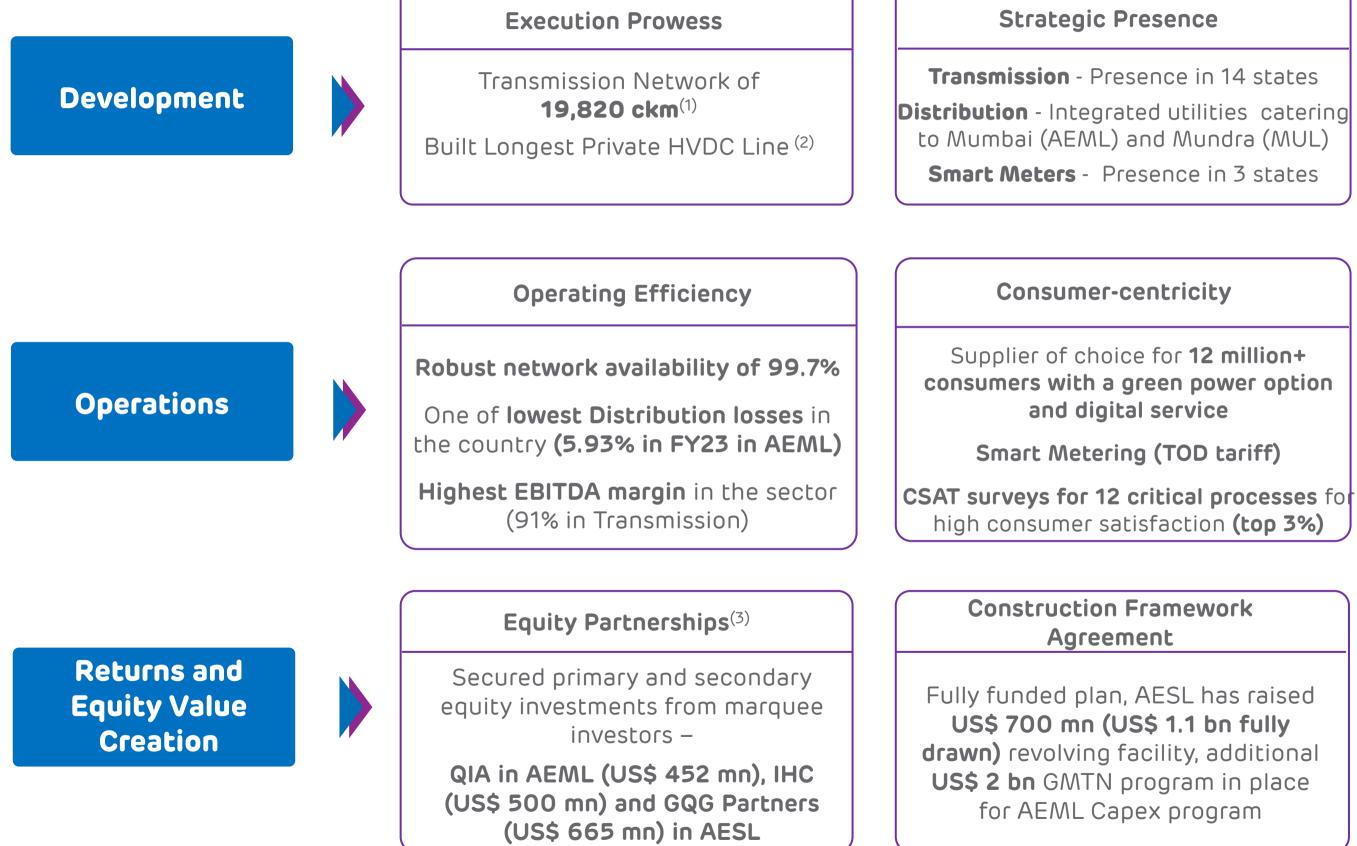
# Adani: Repeatable, robust & proven transformative model of investment



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; NBFC: Non-Banking Financial Company I \*AIMSL - Adani Infrastructure Management Services Ltd



### adan **AESL**: A platform well-positioned to leverage growth opportunities in energy domain



Note: 1) Transmission network is as of June 2023 and includes operational, under-construction assets; 2) HVDC : High voltage direct current – Longest at the time of commissioning, 3) QIA's Investment in AEML: US\$ 452 mn (Rs 32 bn) total investment (US\$ 170 mn of Equity and US\$ 282 mn of shareholder sub-debt), IHC Investment is Rs. 3850 Crs for 1.41% stake (US\$ 500 million), GQG Investment of Rs. 5,532 Cr (US\$ 665 million) for 6.63% stake based on closing price of Rs 878 dated August 20, 2023

QIA: Qatar Investment Authority, IHC: International Holding Company; TOD Tariff: Time of Day Tariff; AMI: Advanced Metering Infrastructure, MUL: MPSEZ Utilities Limited EBITDA: Earning before interest tax, depreciation & amortization; O&M: Operation and Maintenance, MWp: Megawatt Peak, SS: Sub-station, Ckm: Circuit Kilometer, ESG: Environmental, Social and Governance, ROE :Return on Equity, GMTN: Global Medium Term Note, AEML: Adani Electricity Mumbai Limited; CAGR: Compounded Annual Growth Rate; RE: Renewable Energy; CSAT: Consumer Satisfaction

**Transmission** - Presence in 14 states **Distribution** - Integrated utilities catering to Mumbai (AEML) and Mundra (MUL)

### **RAB** expansion through Asset Hardening in Mumbai Discom

8% CAGR growth in Regulated Asset Base in Mumbai in 5 years (since acquisition)

Supplier of choice for **12 million+** consumers with a green power option and digital service

Smart Metering (TOD tariff)

high consumer satisfaction (top 3%)

Fully funded plan, AESL has raised US\$ 700 mn (US\$ 1.1 bn fully drawn) revolving facility, additional US\$ 2 bn GMTN program in place for AEML Capex program

### Embedded ESG Framework

Decarbonisation of Grid (Achieved 30% and on track to reach 60% RE power by FY27)

Installed **3.36 MWp** solar capacity for auxiliary consumption at substations

Board Diversity and Strengthening

### Significant Growth Potential

Parallel Licensing, Smart Metering and Cooling Solutions

Increasing participation in **renewable** grid (eg: HVDC Mumbai, Khavda)

Green industrial cluster in Mundra

### Adani Energy Solutions Ltd.

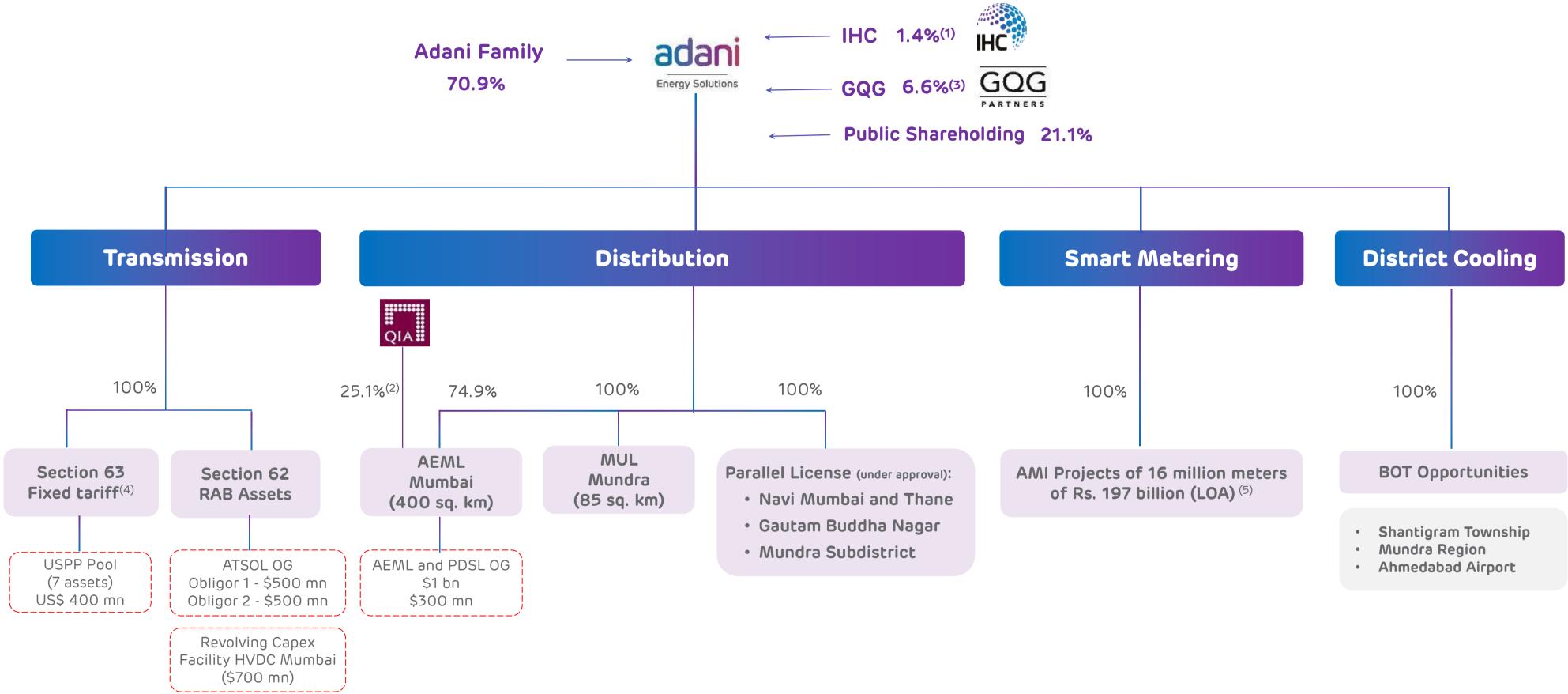
(formerly known as Adani Transmission Ltd.)





# About AESL

# **AESL:** Business Snapshot



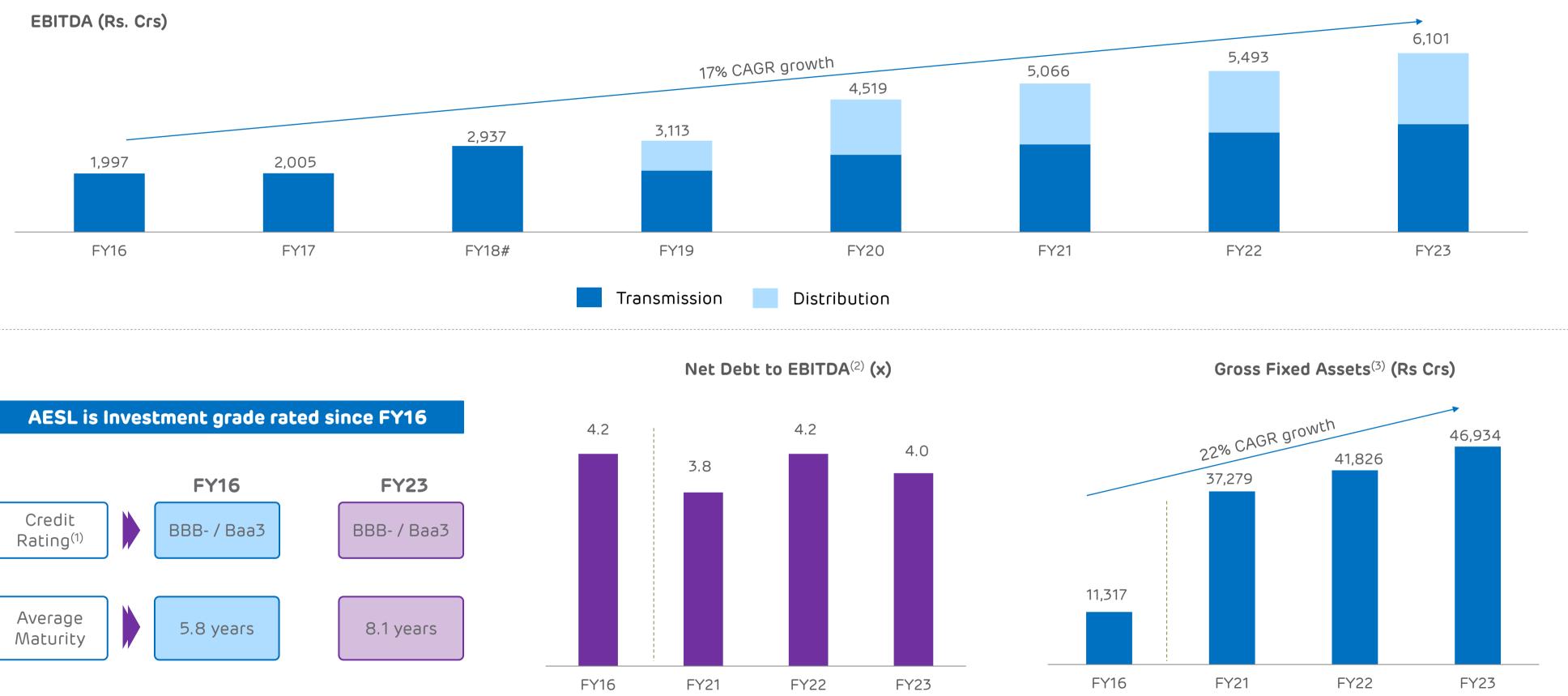
Notes: 1) Primary equity by IHC Investment: Rs. 3850 Cr for 1.41% stake (US\$ 500 million); 2) Primary Equity - QIA's Investment (US\$ 170 mn of Equity and US\$ 282 mn of shareholder sub-debt) for 25.1% stake in AEML; 3) GQG's Secondary Investment of Rs. 5,532 Cr (US\$ 665 million) for 6.63% stake based on closing price of Rs 878 dated August 20, 2023; 4) Tariff based competitive bidding (TBCB); 5) Smart Meter Project details: (i) Brihanmumbai Electric Supply & Transport Undertaking (BEST) – 10.8 lakh smart meters (Rs 13 bn) (ii) Assam Power Distribution Company Limited (APDCL) – 7.7 Lakh smart meters (Rs. 8.5 bn) (iii) 3 Andhra Discoms – 27.7 Lakh smart meters (Rs 37 bn) (iv) 2 MSEDCL projects – 115.9 Lakh smart meters (Rs 139 bn); RAB: Regulatory Asset Base; AEML: Adani Electricity Mumbai Limited; MUL MPSEZ Utility Limited; AMI: Advanced Metering Infrastructure; HVDC : High voltage direct current,, LOA: Letter of Intent; Ckm: Circuit Kilometer, SEZ: Special Economic Zone, Sq.Km: Square Kilometer; PDSL: Power Distribution Services Ltd.



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# **Transformational Journey** with Robust Growth and Credit Discipline







Notes: (1) Credit Rating: Fitch / Moody's ratings (2) Net-debt to EBITDA ratio calculation considered only long-term debt at hedge rate and excluded sub debt; 3) Gross Fixed Assets includes Property, Plant & Equipment, Right of Use Assets, Capital Work in Progress, Goodwill & Other Intangible Assets; EBITDA : Earning before interest tax and depreciation, CAGR: Compounded Annual Growth Rate; #Includes one-time income of Rs. 873 Crores recognised during the year based on CERC order



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# Business Philosophy focusing on De-risking at every stage of project lifecycle

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

### **Route Identification & Survey**

- Route alignment on topographic maps to optimize route & identify key parameters
- Utilization of Drones for route survey
- Robust site diligence and route planning to minimize project cost and ROW issues

### **Project Planning & Scheduling**

- Robust Pre bid estimation of ROW, Project Cost and Timelines resulting in assurity of returns
- Solid vendor management and strong relationships adds to business sustainability and avoid cost escalations

### **Capital Management**

- Takeout of construction debt post commissioning (eg: USPP issuance)
- Maintained international **investment grade rating** while achieving impressive growth



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



### **Project Execution**

- Complex projects experience: Completed HVDC project (~1000 kms) in a record time of 24 months
- Contracting methodology focused on derisking –
   competitively awarded on fixed price & fixed time basis
- Availability of large talent pool and in-house capabilities

### **Construction Finance**

- Derisked financing through **fully-funded plan**
- Revolving Construction facility of US\$ 700mn for transmission and GMTN program of US\$2 bn for AEML
- LC facility to reduce financing cost & optimize funding schedule

### **Tech Enabled Operations**

- Life cycle O&M planning
- Reliability centered Maintenance
- Remote operation of sub-stations and integration with Energy Network Operating Centre

# Project Management & Assurance Group (PMAG) - End to End Project Integration



Financial Closure Plans



M&A: Merger & Acquisition; LIE: Lender's Independent Engineer

Strong Project Controls



- Mid Course Corrections (Catch up)

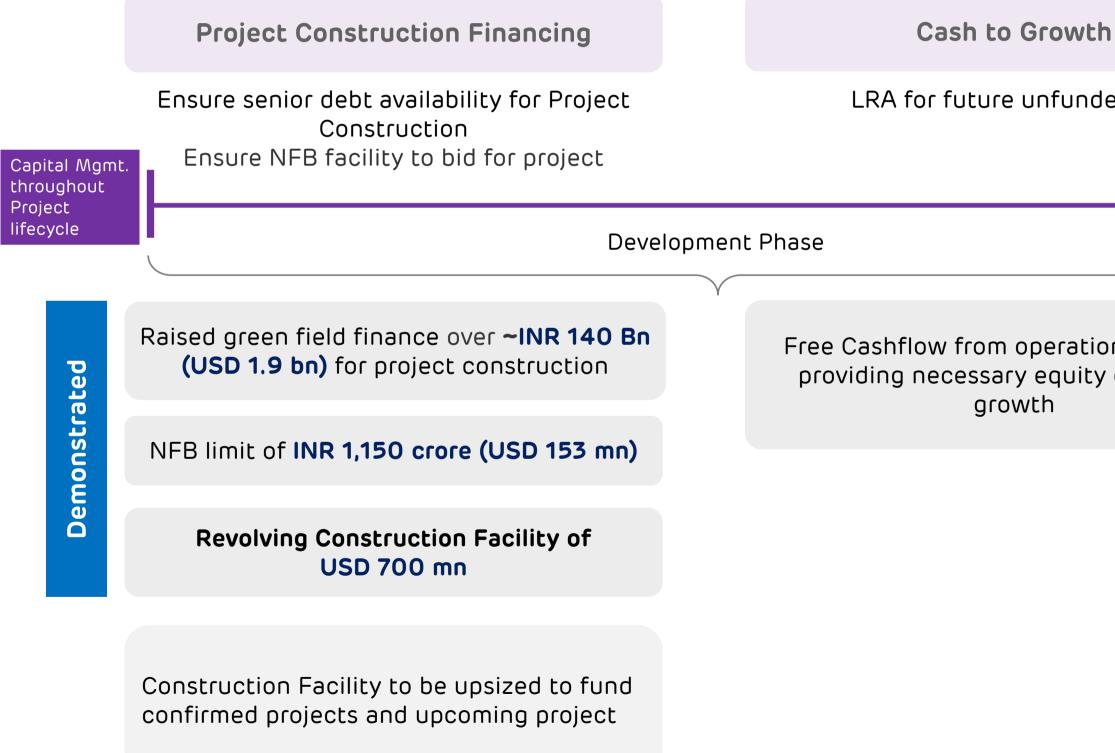


**Effective Project Delivery** 

# Capital Management Philosophy to achieve growth at scale with capital discipline

### AESL is the only private sector transmission and distribution company in India with International IG Rating

- Long life contracted assets with sovereign counterparties in a stable regulatory regime (Transmission: 35 year concession, Distribution: Perpetual life)
- Capital structure designed through debt financing at longer tenure matching concession life and terms akin to stable assets





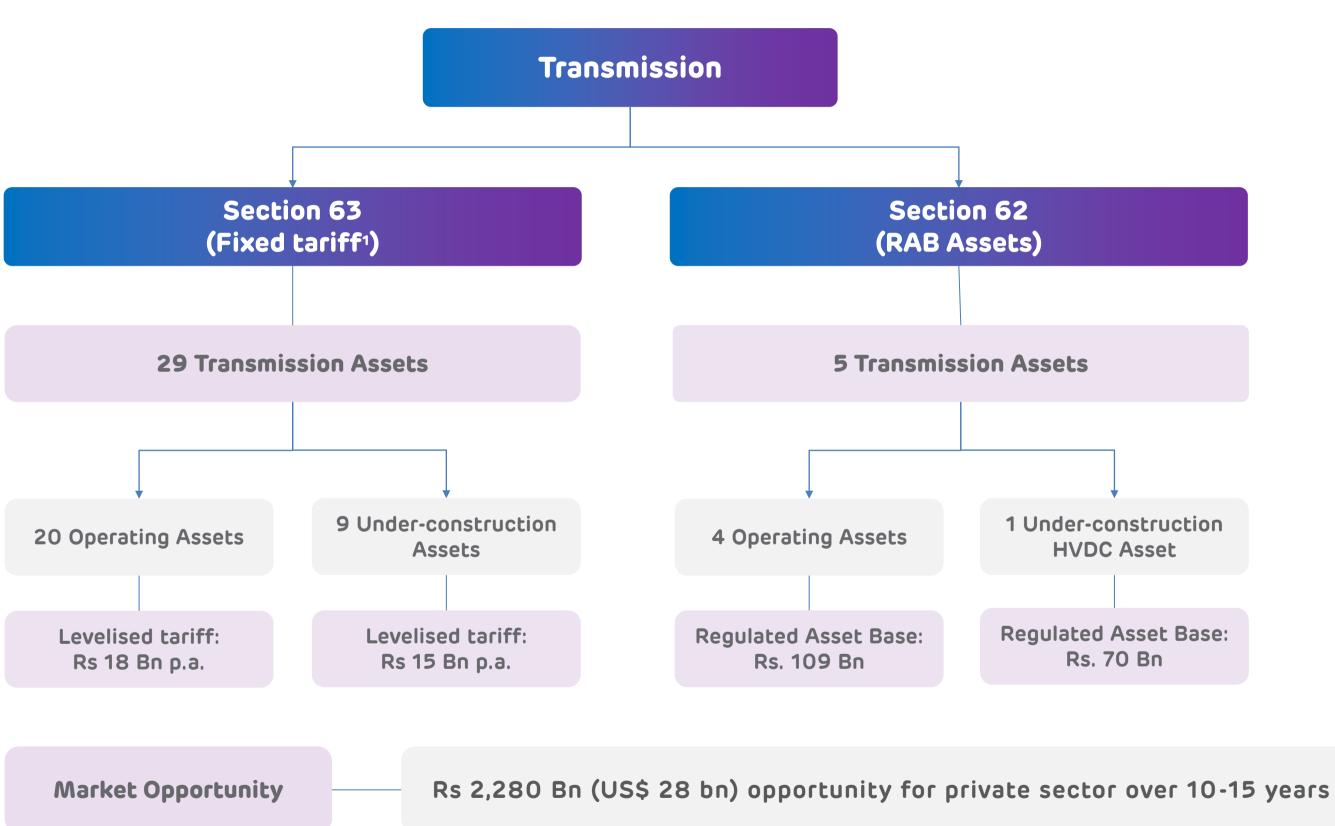
h	Post-Commissioning Phase
ed capex	Debt Capital market refinancing at lower interest rate, longer tenure and terms akin to stable assets
	Post-commissioning Phase
onal projects v capital for	1 <sup>st</sup> issuance - AESL Obligor Group: <b>US\$ 500 mn</b> 2 <sup>nd</sup> issuance - AESL Obligor Group: <b>US\$ 500 mn</b> 30 year USPP issuance: <b>US\$ 400 mn</b> AEML bond issuance: <b>US\$ 1 Bn</b> AEML GMTN program: <b>US\$ 2 Bn (US\$ 300 mn drawn)</b>
	Future USD bonds/USPP raise via. Global Debt Capital Market (already demonstrated for operational projects)





# Transmission

# **Transmission** Business





### **Key Characteristics**

Concession Life : 35 years

Counterparty : Network pool (Centre and State)

No Throughput Risk (Availability based tariff)

Efficiency-linked incentives >> higher returns

1 Under-construction

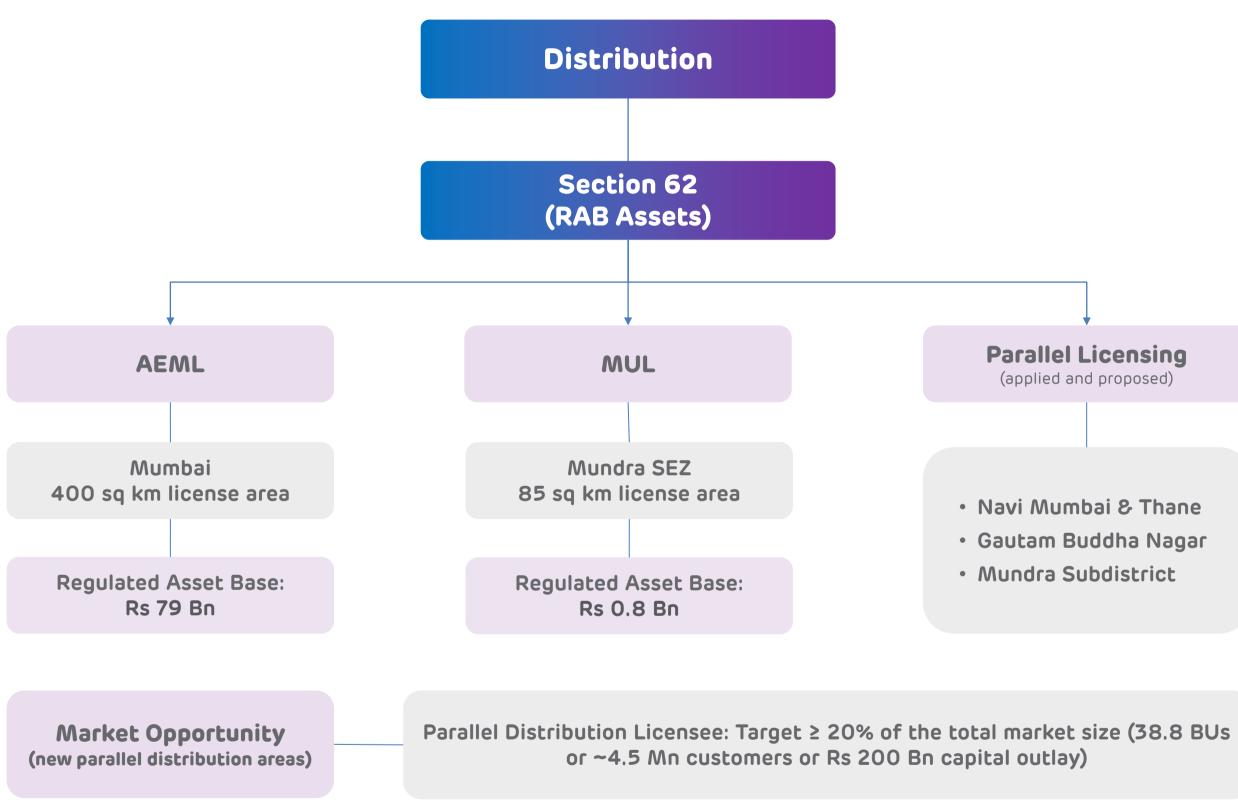
Rs. 70 Bn





# Distribution

# **Distribution** Business





### **Key Characteristics**

License period: Perpetual

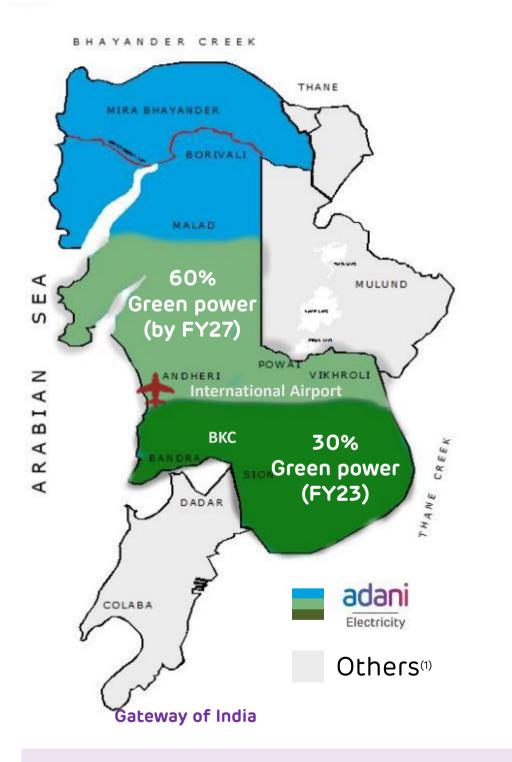
Counterparty: Pool of 12 Mn+ consumers

No throughput risk (RAB based returns)

O&M costs are pass-through

### adar AEML Distribution: India's No. 1 power utility, as per MoP, McKinsey, PFC (Scored 99.6/100) Energy Solutions

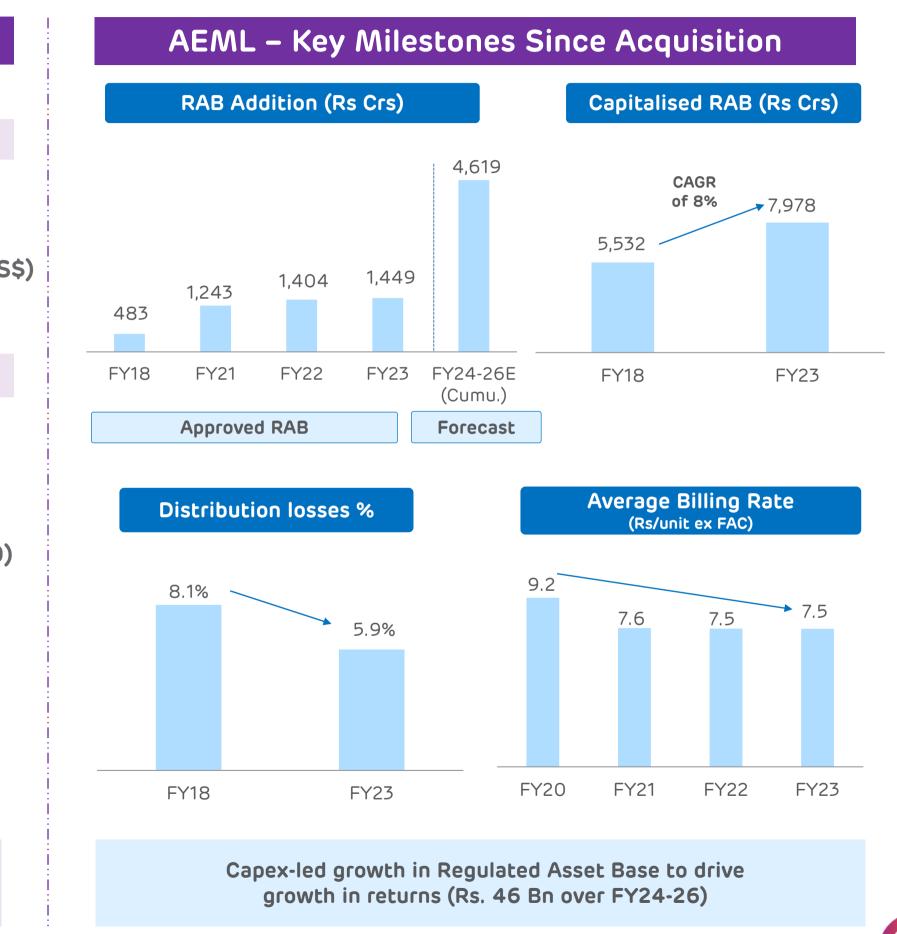
### Largest Integrated utility in India's Commercial Capital - Mumbai



About Mumbai				
8 <sup>th</sup>	Most Populous City in World			
<b>25</b> <sup>th</sup>	Richest City in world based on GDP (US\$			
	Mumbai Consumers			
2.2x	Per capita income of India			
Rs 3,28,000	Per capita income of Mumbai (FY20)			
Rs 36,000	Avg Annual Electricity Bill of AEML Consumer			
~6%	Average electricity bill as % of per capita income			

- Servicing 85% of Mumbai, touching 2/3 households of Mumbai •
- Only mega city in the world to achieve 30% renewable power

Note:- 1) Others include BEST, MSEDCL & Tata Power; 2) Source – Population Of Mumbai 2020 (Demographic, Facts, etc.) – India Population 2020 MoP: Ministry of Power; PFC: Power Finance Corporation; BKC - Bandra Kurla Complex, MW- Mega Watt, GDP, GDP: Gross Domestic Product; CAGR: Compound Annual Growth Rate, RAB: Regulatory Assets Base; FAC: Fuel Adjustment Charges); Map not to scale



# **MPSEZ** Utilities Limited (MUL) - Overview

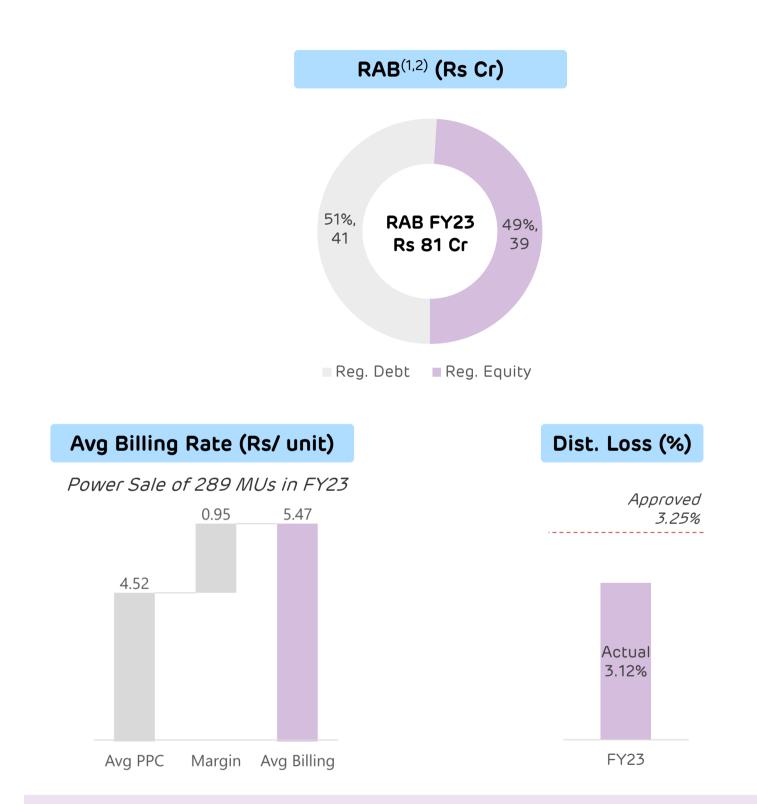
### Mundra SEZ is strategically located with well developed supporting infrastructure serving as an attractive industrial hub



- Electricity Distribution for Mundra SEZ area
- 160 Kms Distribution network
- Catering primarily to commercial and industrial consumers
- Section 62 (RAB Based) asset governed by Gujarat Electricity Regulatory Commission

- Mundra SEZ is India's largest multi-product SEZ spread across 84 sq km
- Mundra port is India's largest private commercial port with capacity to handle cargo of ~264 MMT
- SEZ also has a huge land bank reserve for large-scale industries in future
- Given the large industry cluster opportunity in Mundra SEZ area and the accompanying expected growth in power demand, AESL is well placed to grow the MUL business





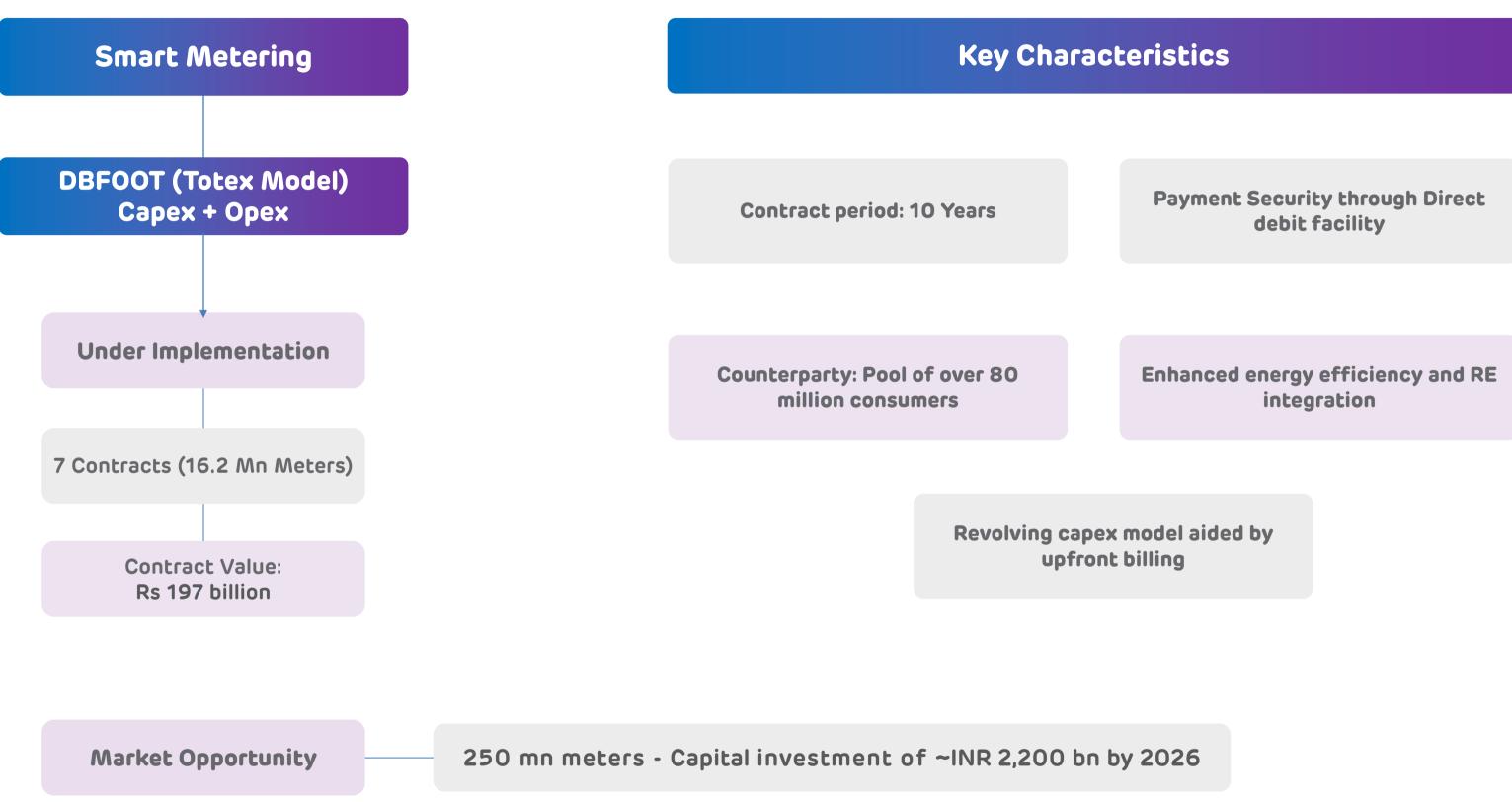
MUL's existing load of MUL is ~80MW, which is expected to grow multifold due to new investments in copper, petrochemicals and solar manufacturing & ancillary industries in the Mundra region





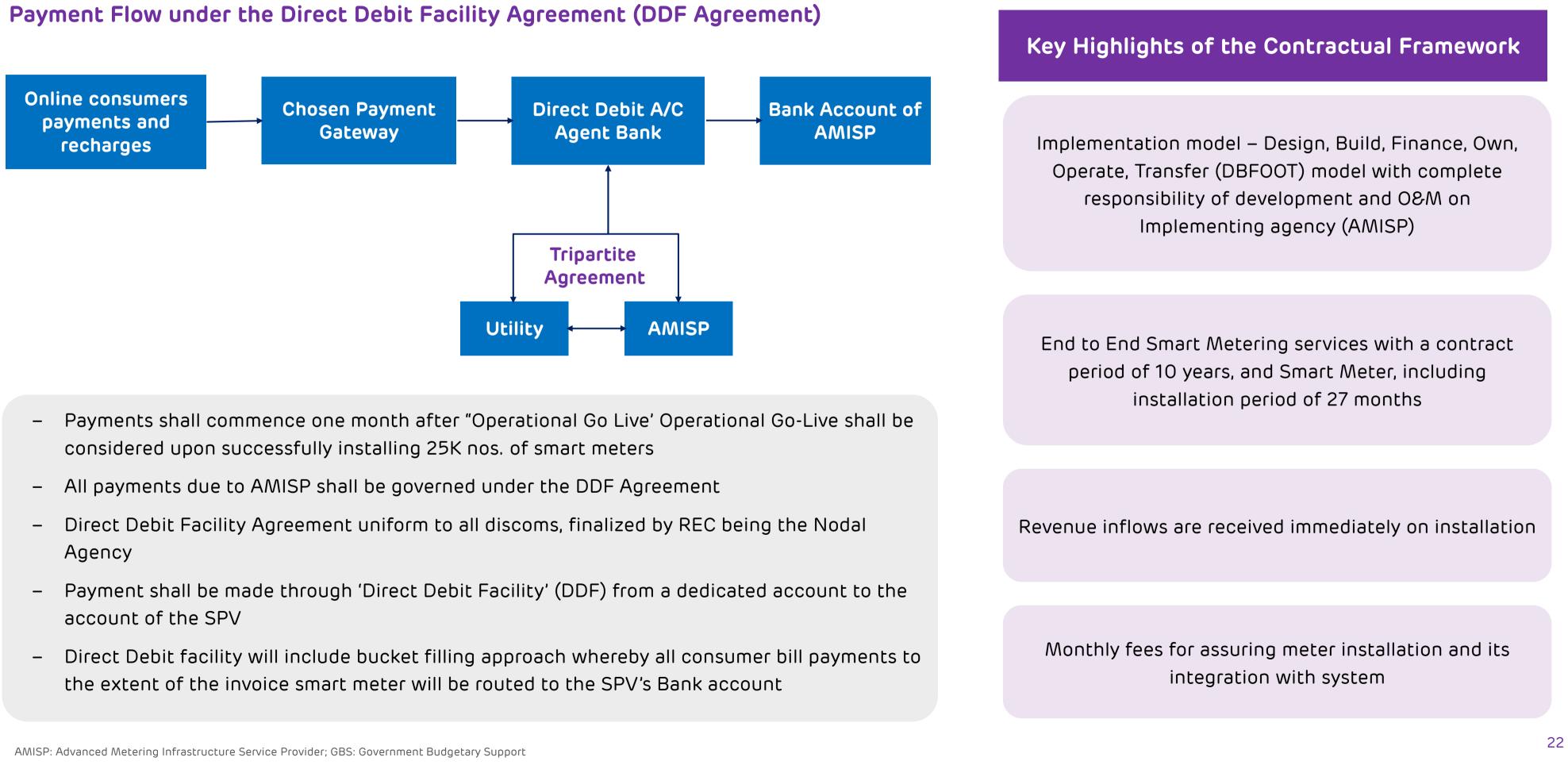
# Smart Metering

## Smart Metering Business





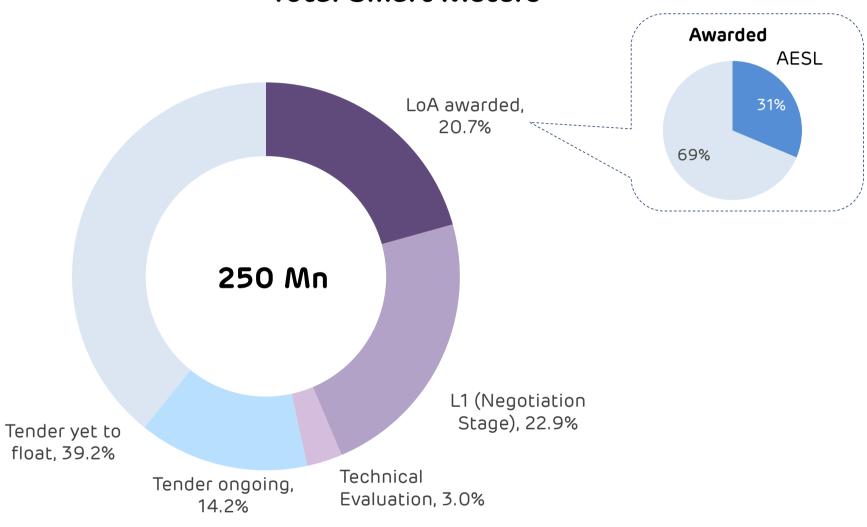
## Smart Metering Contractual Framework





## Market Dynamics – Smart Metering Business

- AESL's Market Share (LOA and L1) 31% out of 109 Mn Smart Meters tendered so far
- Untapped market 141 Mn Smart meters



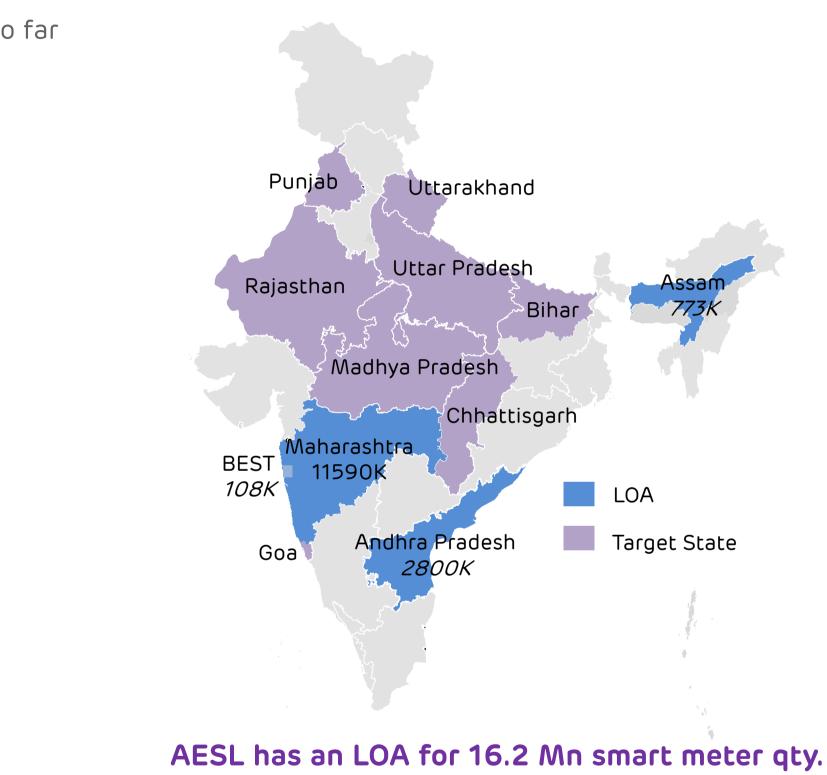
### **Total Smart Meters**

Of the targeted 250 Mn meters, India has bid out <sup>(1)</sup> 44%, of which AESL Smart Meters has secured 31% market share

**AESL's Core Strengths and Available Synergies:** Distribution & Smart Metering Experience | Expanding Distribution business across India | Pan India presence

Source : Ministry of Power (PowerLine) | 1. 'Bid Out' includes awarded (LOA) & L1 (negotiation stage) ; Note: DBFOOT: Design, Build, Finance, Own, Operate, Transfer; LOA: Letter of Award; Map not to scale;





## with an order value of Rs 197 billion (US\$ 2.4 bn)





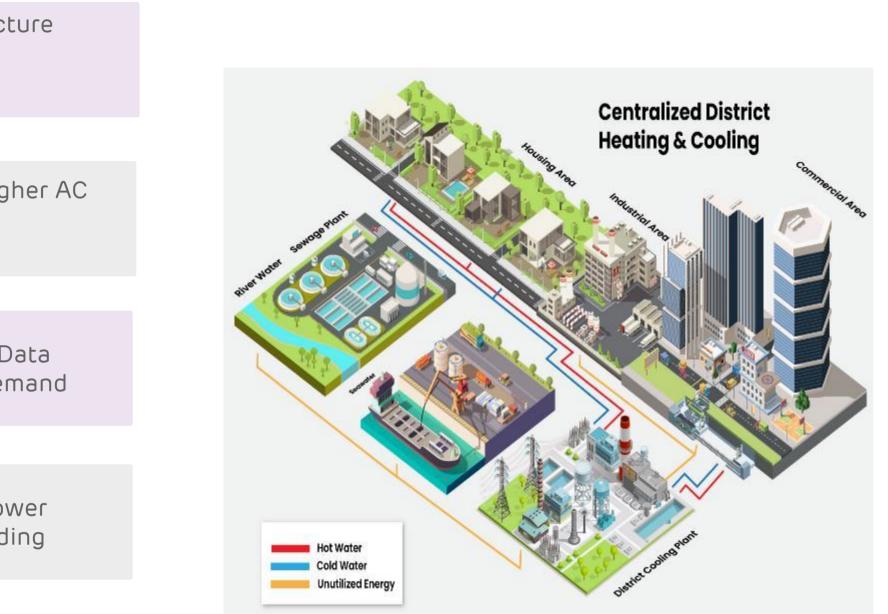
# **District Cooling**

## **District Cooling** Business

The District Cooling System (DCS) produces chilled water in a central plant and distributes cooling capacity in the form of chilled water from the central plant to multiple buildings through a network of underground pipes for use in space and process cooling.

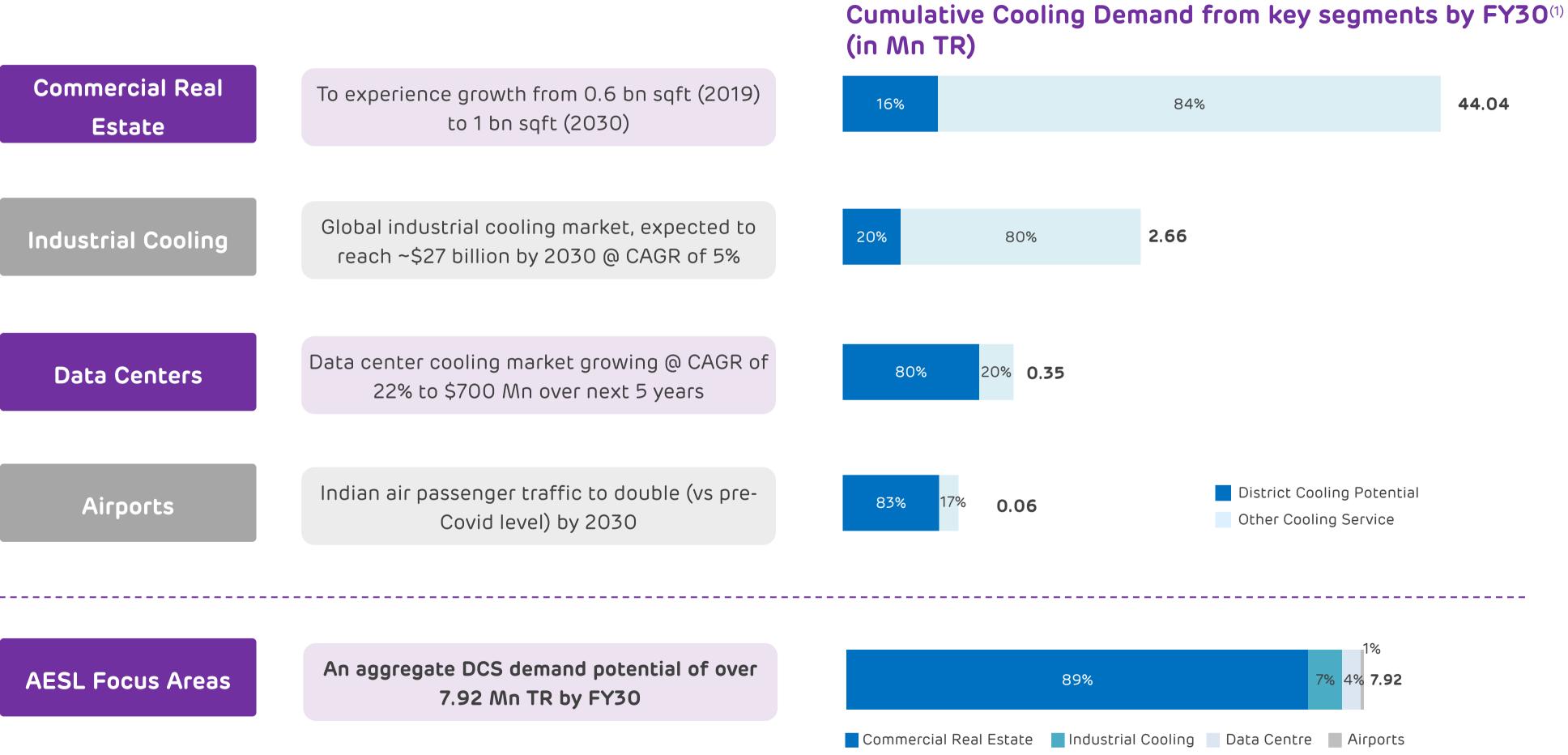
Large Addressable Market and Existing Synergies	<ul> <li>Opportunity to unlock potential in nation-wide Infrastruct (airports, data centers, SEZs, reality space)</li> <li>Limited competition and presence</li> </ul>
Demographic and economic trends to drive cooling demand	<ul> <li>Rising per capita income &amp; urbanization coupled with high ownership (penetration of 8% in 2022) cooling energy consumption will increase</li> </ul>
DCS demand to be driven by four key segments	<ul> <li>Airports, Industrial Cooling, Commercial Real Estate and D Centers are the primary segments which will drive the den</li> </ul>
Integrated Utility Offering	<ul> <li>Potential to offer as an integrated solution along with pov transmission, distribution, smart metering and power tradition</li> </ul>
ESG Integration	- Sustainable Cooling Solution for a Low Carbon Future





Picture source: Hisaka Asia

## Four key segments to drive India's DCS demand



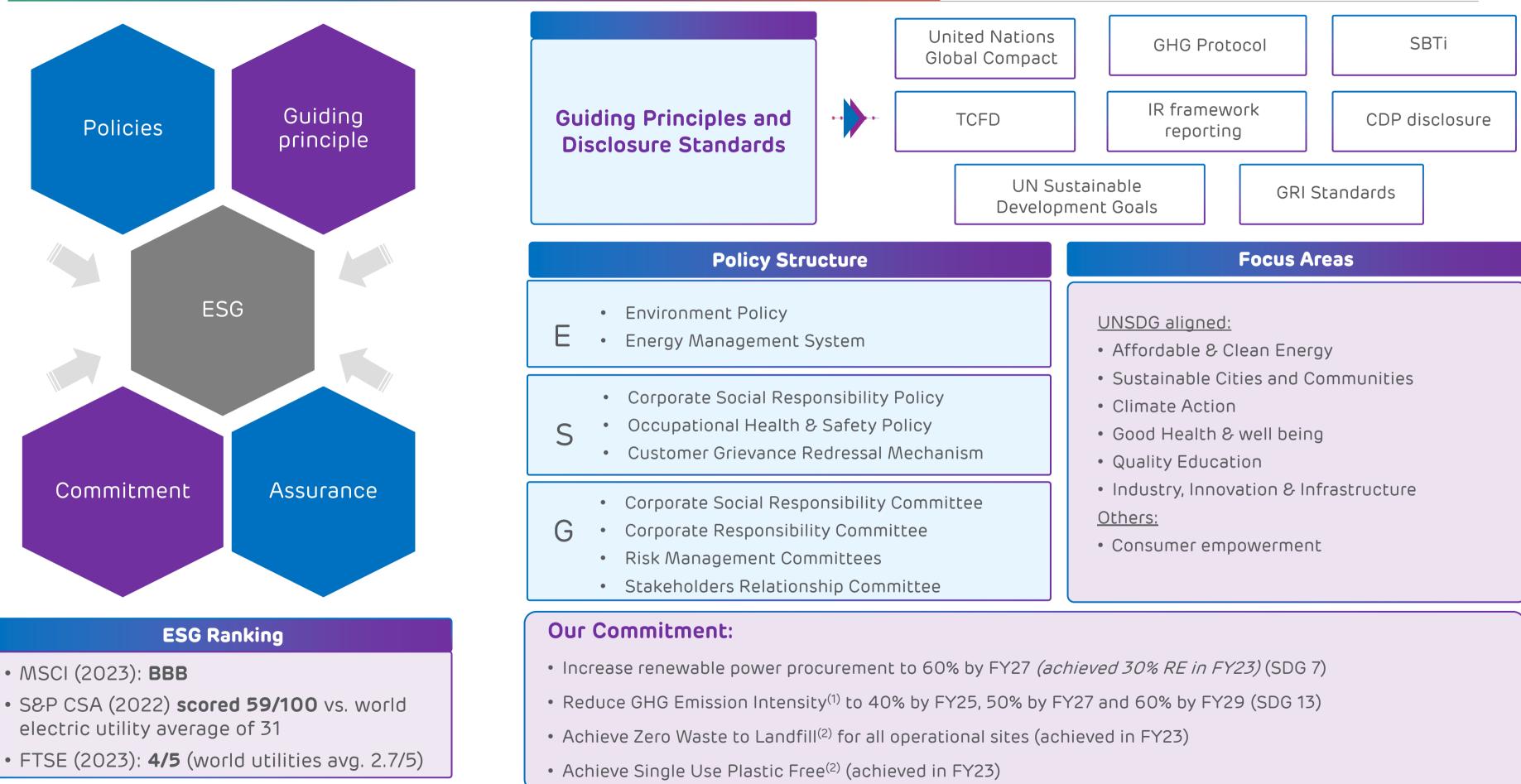
Sources: Cooling India, ICAP, Praxis, CREDAI/CBRE, CEA, IEA, EIA, Adani Connex, Boeing, Internal analysis Notes: 1) Cum. Cooling demand (new) and DCS market potential is considered from FY 24-25 onwards TR: A ton of refrigeration; CAGR: Compounded Annual Growth Rate





# **ESG Framework and Investment Case**

# **AESL**: ESG Framework



Notes: 1) GHG Emission Intensity = tCO2 / Rs Cr EBITDA; 2) Confederation of Indian Industry-ITC Centre of Excellence for Sustainable Development (CII-ITC CESD) certified SUP Free status to 37 operational sites of AESL, i.e., 30 substations and 7 transmission line clusters including stores; 3) AEML, being subsidiary of AESL with ~40% of reported EBITDA share, reports disclosures through AESL; 4) AEML is in process to adopt the guiding principles for independent reporting I UNSDG – United Nation Sustainability Development Goals I TCFD - Task Force on Climate-Related Financial Disclosures I SBTi - Science Based Targets initiative I CDP - Carbon Disclosure Rating GHG – Green House Gas



# **AESL**: Compelling Investment Case

Favorable Industry Landscape

- Distribution, Smart metering, District cooling) within energy domain
- Focus on **Grid reliability, consumerism and shift to RE based** power propelled investments in across the value chain

Development and **Construction Expertise** 

- Solid vendor management and strong relationships adds to business sustainability and avoid cost escalations

**Operational and Execution excellence** 

- Robust operational metrics line availability, supply reliability, distribution loss, affordable tariffs
- One of the lowest O&M cost through predictive maintenance and technology excellence

Capital Management Philosophy

**Capital Allocation and** turnaround capability

- AESL is the only private sector transmission and distribution company in India with International IG Rating
- Disciplined approach towards new project bidding and acquisitions; stringent IRR (returns) threshold
- Commitment to maintain strong credit profile and investment grade rating
- Strong track record of acquisition and turn around of transmission and distribution assets



Evolved and stable regulatory regime has enabled growth of **AESL's business into multiple segments (Transmission,** 

- Proven track record of excellence in development & construction of Transmission systems and asset hardening at AEML - AESL remains competitive at bidding stage due to scale benefits and geographical presence across the country

**Energy network operation center (ENOC)** allows remote monitoring and diagnostics to enhance O&M efficiency

- Capital structure designed through debt financing at **tenure matching concession life** and terms akin to stable assets

# **AESL: Board and Management Team**

### Strong Sponsorship



Mr. Gautam S. Adani (Chairman)



Mr. Rajesh S. Adani (Director)

Managing

Director



Mr. Anil Sardana (MD, AESL)



Mr. K. Jairaj

### Skilled and Experienced Management Team



Mr. Anil Sardana (MD, AESL)



Mr. Bimal Dayal (CEO, Transmission)



Mr. Kandarp Patel (CEO, Distribution)

### Strong governance framework with focus on transparency and independence



### Independent Directors



Dr. Ravindra H. Dholakia



Mrs. Meera Shankar



Ms. Lisa MacCallum





Mr. Rohit Soni (CFO, AESL)



Mr. Kunjal Mehta (CFO, AEML)

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ESG Initiatives
Regulatory Framework
Capital Management Case Study and Credit Ratings
Smart Metering – Key Benefits
Project Level Details – Asset Portfolio

# **AESL**: Key Environmental Indicators and Milestones

Key Performance Indicators	Current Status	Baseline	Medium to Lon	g-term Targets
Energy Mix & Emission Intensity				
- RE share in power procurement	AEML has <b>achieved 30% renewable</b> in power mix in March 2023	3%	30% by 2023 (achieved)	60% by FY27
- GHG Emission Intensity Reduction	The target for GHG emissions reduction is in line with Nationally Determined Contribution (NDC) for climate change. Disclosed in terms of a reduction in GHG per unit of revenue.	-	40% by FY25	70% by FY30
Waste Reduction and Biodiversity Management				
- Zero waste to landfill (ZWL)	<ul> <li>Secured ZWL status from Intertek</li> <li>Covered all operational sites (substations and TLs) of AESL</li> <li>Achieved landfill diversion rate exceeding 99%</li> </ul>	No certification in FY19-20	Achieved <b>ZWL for all</b> 2022	<b>O&amp;M</b> sites in May
- Single use plastic (SuP) free sites	<ul> <li>Attained SUP free status from CII-ITC CESD</li> <li>Covered 37 operational sites of AESL</li> <li>Strengthening alignment with UNSDG 12</li> </ul>	No certification in FY19-20	Achieved <b>SUP free status for 37 sites</b> in March 2023	
- India Business Biodiversity Initiative (IBBI) and ensure no net loss to biodiversity	<ul> <li>Signatory to IBBI and submitted first progress report in 2020</li> <li>Afforestation of 441 hectares area in FY21-22</li> </ul>	FY20-21 289 hectares	No net loss to biodiversity and 100% alignment with IBBI and IBBI principles based public disclosures by FY23-24	
- Water Neutrality (Water conservation)	<ul> <li>Achieved "Net Water Positive" status for 30 substations and 07 TL clusters under UNSDG 6</li> <li>Carried-out rainwater harvesting feasibility study and implemented water metering across all sites</li> </ul>	No water neutrality in FY 19-20	Secured <b>Net Water Positive</b> <b>Certification</b> for all O&M sites in November 2022	
Energy Efficiency and Management			·	
- Reduction in auxiliary consumption through solar power	<b>3.362 MWp solar capacity</b> at Mahendragarh, Akola, Koradi, Sami, Morena, Rajnandgaon	Solar capacity of 1.7 MWp in FY19-20	Coverage across all tr Sites	ansmission



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		)	

# **AESL**: Key Social Indicators and Milestones

Material Categories	Material Themes	Key Performance Indicators	Baseline	Target (FY23-24)
		Rate of fatalities per million hours worked	Zero (FY 20-21)	Zero
Health & Safety	Work related injury	Rate of recordable work-related injuries per million man-hours worked	0.33 (FY 20-21)	Zero
Safety awareness and training		Average hours of training provided per person on health and safety	15.6 (FY 20-21)	Further improve from baseline
Diversity and Inclusion	Measurement of Diversity and Inclusion Metrics and Enforcement of policies	Women as a percentage of new hires and total workforce (%)	New Hire: 5 % Total Workforce: 5%	New Hire: 10% Total Workforce: 6%
Human Rights	Training on human rights	Employees trained in human rights policies or procedures (%)	-	100%
Skills for the future	Skill development trainings	Training and development expenditure for employees (INR)	Rs 3.81 Cr (FY 20-21)	Rs 4.69 Cr
Responsible	Proportion of spending on local suppliers (%)	Spend on local suppliers against the total procurement budget (%)	99.4 % (FY 20-21)	Maintain FY21 Performance
Procurement	Supplier screening on ESG metrics	Suppliers screened on ESG criteria (%)	100% (Critical Suppliers)	100% (Critical Suppliers)

Social



# **AESL**: Key Governance Indicators and Milestones

Material Categories	Material Themes	Key Performance Indicators	Baseline	Actions Taken and Goals
Board Gender Diversity	Board Gender Diversity	Balance the board composition in terms of men and women directors	16.6% - women directors in board as of FY21	<ul> <li>% of women directors in board improved to 28.5%</li> </ul>
Board Independence	Great Board Independence and Improved Disclosures	<ul> <li>Improve board strength and independence</li> <li>Incorporate non-statutory committees</li> <li>Enhance disclosures in board &amp; committee meetings</li> </ul>	<ul> <li>6 directors as of FY21</li> <li>Only statutory committees as of FY21</li> </ul>	<ul> <li>Board now comprises of total 7 directors with 4 independent directors</li> <li>Enhanced disclosures through formation of new committees with min. 50% IDs (CRC, RMC, PCC, IT &amp; Data Security)</li> <li>Committees chaired by Independent Directors (Audit, NRC, STC)</li> </ul>
Code of Conduct	Corruption and Bribery Cases	<ul> <li>Number of Corruption cases and Bribery and Associated Risks</li> <li>Adoption of Anti Corruption and Bribery Policy</li> <li>% of Governance body members and employees trained on anti-corruption</li> </ul>	• Zero corruption cases	<ul> <li>Zero Case on Corruption and Bribery</li> <li>Board Adopted Anti Corruption and Bribery Policy</li> <li>Identification and Assessment of risks</li> </ul>
Anti-competitive Practices	Fines and Settlements	<ul> <li>Fines or settlements paid related to anti- competitive business practices (INR)</li> </ul>	Zero as of FY21	• Zero in FY23 and beyond
Customer orientation and satisfaction	Consumer Satisfaction	<ul> <li>Affordable tariffs</li> <li>Service reliability</li> <li>Sustainable power</li> </ul>	Distribution loss reduction, CSAT surveys, Reliability metrics	<ul> <li>Competitive tariff through RE power</li> <li>Option to switch to Green power tariff</li> <li>Advanced metering implementation for 12 million consumers</li> </ul>
Corporate Governance Standing	ESG Ratings	Improvement in ratings through improved disclosures and adoption of best practices	CSA: 59/100; FTSE: 3.3/5	Target 2023-24: CSA – 67/100 and FTSE: 3.6/5

Notes:

A) List of non-statutory committees - CRC: Corporate Social Responsibility & Sustainability Committee; PRC: Public Consumer Committee; Information Technology & Data Security Committee; RMC: Risk Management Committee; B) List of statutory committees: SRC: Stakeholders' Relationship Committee NRC: Nomination and Remuneration Committee; STC: Securities and Transfer Committee; Audit Committee; C) Sub-committees under Risk Management Committee: Mergers & Acquisitions Committee; Legal, Regulatory & Tax Committee; Reputation Risk Committee



# **AESL:** Enhanced Safety Culture

### Safety Initiatives During Q1FY24

- Safety training: 47,130 man-hours of safety training and awareness during Q1 FY24
- Positive Safety Culture:
  - Enhanced safety awareness through Monthly Safety Quiz Series (MSQS)
  - Conducted 'Electrical Safety at Home' & "Electrical, Fire Safety & Cracker Safety' Webinar for Consumers, Employees & General Public
  - Campaign on 'UCHAAI: Knowing Heights Better ' conducted at multiple sites on 5C model (Climb, Control, Competence, Capacity and Check)
- Safety Checks and Assurances(SCA): To strengthen safety and increase the effectiveness of safety management at sites, quarterly safety checks and assurance on 3 pre-declared topics are given by sites
- "Saksham" Mandatory Contractor Workmen Incubation & Induction Program was conducted at various sites to enhance training effectiveness
- Awarded with 21<sup>st</sup> Annual Greentech Safety Award 2023 in safety excellence category
- Received OHSSAI Foundation's Safety Award in Gold Category in AEML business
- Observance of Fire Service Week across all locations.





Notes: LTI frequency rate and LTI severity rate lower the better; LTI Frequency Rate: Reportable loss time injury (RLTI)\*1000000/Man hours worked; LTI severity Rate : Man days Lost (MDL)\*1000000/Man hours Worked

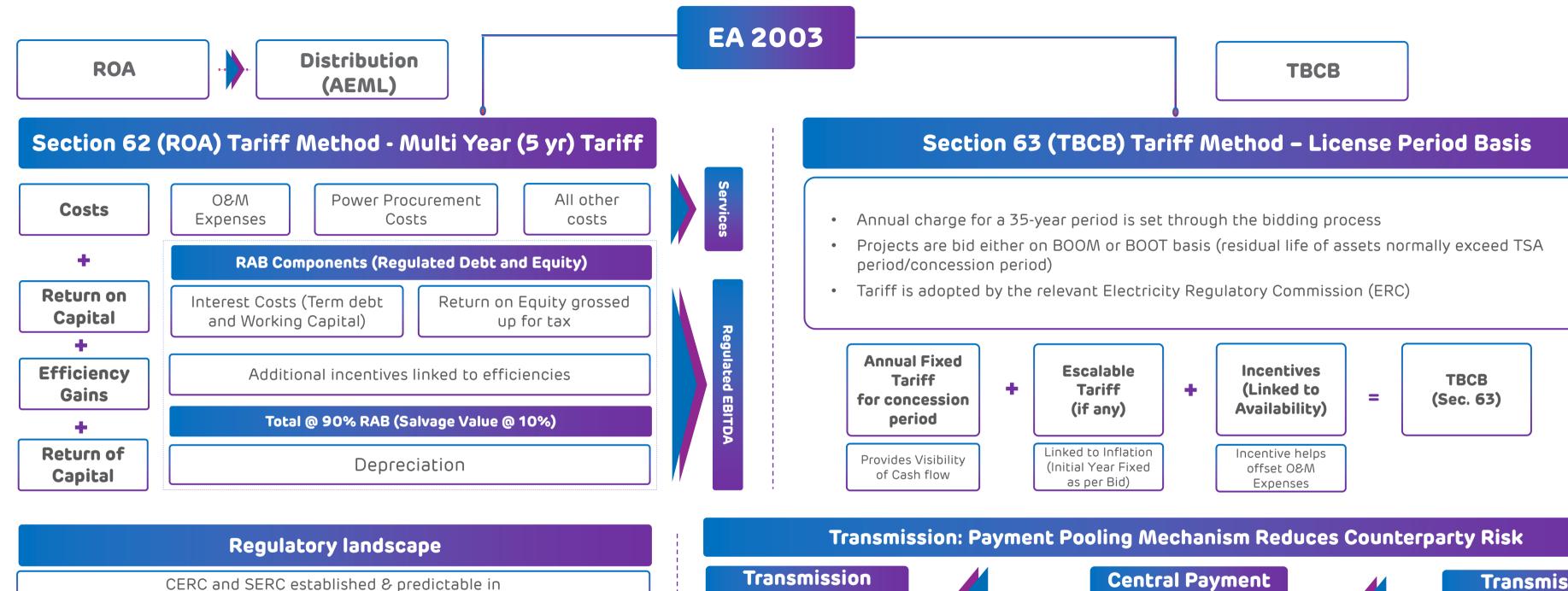


### Safety Performance in Q1FY24

	Transmission		Distribution (AEM	
Safety Parameters	Q1FY24	Q1FY23	Q1FY24	Q1FY23
Near Miss Reporting (Awareness)	1,370	1,391	1,472	1,364
Suraksha Samwad (Safety Dialogue)	1,902	2,925	7,306	8,546
LTI	1	0	1	5
Fatalities	0	0	0	1
LTIFR (LTI Frequency Rate)	0.32	0	0.2	0.94
LTI (LTI Severity Rate)	6.38	0	10.83	1148.67
Safety training (in Man-Hours)	34,178	39,192	12,952	7,718



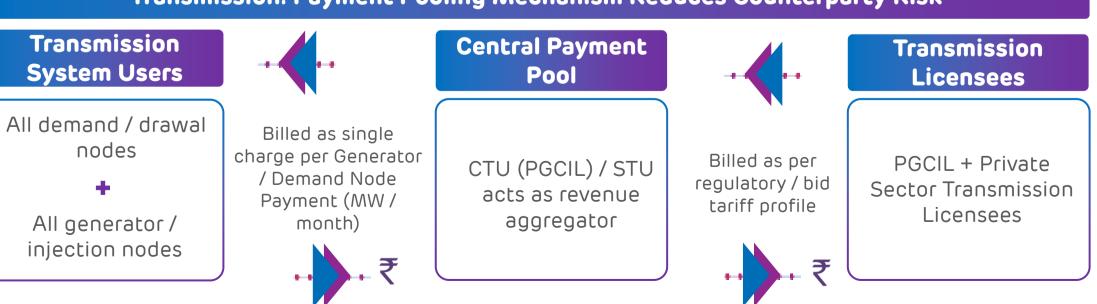
# Attractive Industry Opportunity supported by an Evolved and Stable **Regulatory Regime**



maintaining and defining tariffs

- CERC and state regulatory body (e.g., MERC, RERC) determine:
  - Return on assets (ROA) •
  - Adopt TBCB tariffs •
  - Incentive triggers

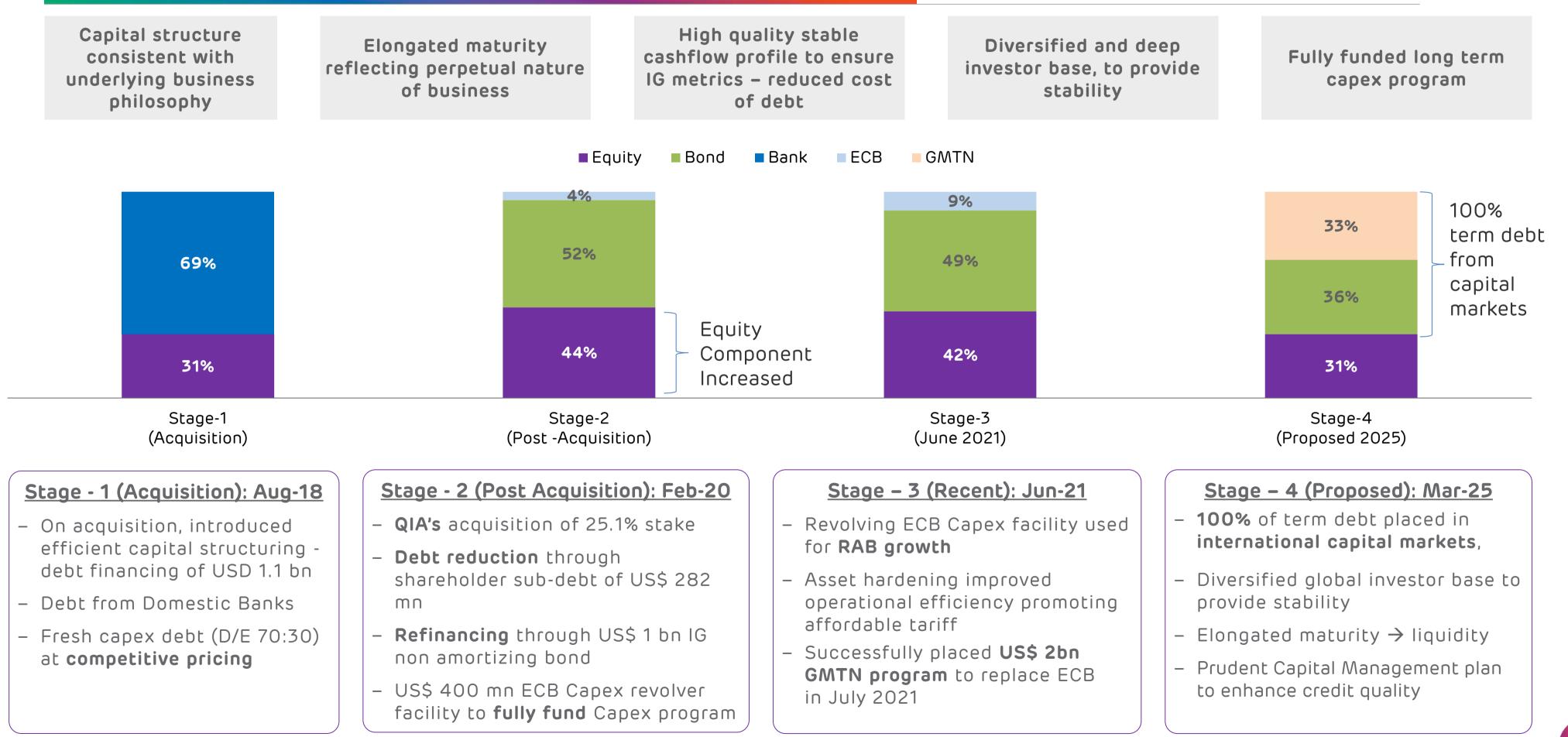
- **MYT** Determination
- CERC 20 years track record
- MERC 19 years track record



MYT – Multi Year Tariff; EA 2003: Electricity Act, 2003; CTU – Central Transmission Utility; STU – State Transmission Utility; CERC – Central Electricity Regulatory Commission, MERC – Maharashtra Electricity Regulatory Commission, RERC - Rajasthan Electricity Regulatory Commission; BOOM – Build, Own, Operate and Maintain, PPA – Power Purchase Arrangement, BOO – Build, Own and Operate, BOT – Build Operate and Transfer; PGCIL – Power Grid Corporation of India Ltd; TBCB: Tariff Based Competitive Bidding



# **Case Study:** Transformational Capital Management Plan Resulting in Value Unlocking at AEML (India's No. 1 Power Utility)





# AESL and AEML Credit Ratings

### International – ATSOL Obligor Group (Transmission business) (Reg S/ 144A)

### Facility Rating Agency Rating/Outlook Dollar Bond BBB-/Stable Fitch Moody's Dollar Bond Baa3/Negative

### International – AESL USPP (Transmission business) (Reg D)

Rating Agency	Facility	Rating/Outlook
Fitch	Dollar Bond	BBB-/Stable
Moody's	Dollar Bond	Baa3/Stable

International – AEML US\$ 1 bn (Reg S/144A) and US\$ 300 mn GMTN (Distribution business)

Rating Agency	Facility	Rating/Outlook
Fitch	Dollar Bond (for both)	BBB-
S&P	Dollar Bond (US\$ 1 bn)	BBB-/Negative
Moody's	Dollar Bond (for both)	Baa3/Negative

Company	Rating Agency	Rating	Outlook			
AESL	India Ratings	AA+	Negative			
AESL	ICRA	A1+	Stable			
MEGPTCL	India Ratings	AA+	Negative			
ATIL	India Ratings	AA+	Negative			
WTGL	India Ratings	AAA	Stable			
WTPL	India Ratings	AA+	Stable			
MTSCL	India Ratings	AA-	Stable			
ATSCL	CARE	А	Stable			
ATBSPL	India Ratings	AA-	Positive			
FBTL	CARE	A+	Stable			
OBTL	CARE	А	Stable			
AEML	India Ratings / Crisil	AA+	Stable			
JKTL	India Ratings	A-	Stable			
WKTL	India Ratings	A-	Stable			
Alipurduar	India Ratings / Crisil	AAA	Stable			



### SPV Ratings - Domestic

# Smart Metering – Key Benefits

Techn	ology transformati	on	Real time information			<b>Two-way communication</b> Between the meter and the power utility through cellular communication or radio frequency					
•	chnology towards formation of power		Measures electricity consur communicates the consump power utilities	•	g to the						
			Key l	Benefits							
• • •	Improved Cash Flows	use model" to era	n of dues and "Pay-as-per- idicate arrears g capital requirements	***	Customer Satisfaction	<ul> <li>Enhancing consumer participation</li> <li>Consumer profile, consumption pattern on real time basis.</li> <li>Increases accuracy of meter reading</li> </ul>					
Ļ	Reduction in Operational costs	manpower cost	eading charges, bill printing, vareness to reduce theft imated billing	2	ESG & RE Integration	<ul> <li>Data analytics helps load disaggregation, forecasting &amp; consumption</li> <li>Time of Day (TOD) tariff matched with RE generation</li> </ul>					
		– Automatic monit	oring of SAIFI, SAIDI			<ul> <li>Efficient &amp; sustainable energy management</li> <li>Helps people revise their consumption habits</li> </ul>					
	Improved Supply Quality	<ul> <li>Quicker response consumer compla</li> <li>Control over cons</li> </ul>	e time to fault removal / aints sumption ses for network upgradation		Improved Energy Accounting	<ul> <li>Enables mapping of consumer demand, feeder wise loading</li> <li>Identification of pilferage / high-loss pockets</li> </ul>					
		performance	nent of system			39					



### Adani Energy Solutions Limited 100% 100% 100% 100% 100% 100% 100% 100% 100% Bikaner WRSS -Obra-C Lakadia PPP Jam GTL FBTL STL Khetri Badaun Banaskantha XXI (A) Khambaliya 8/9/10 Bikaner Lakadia Lakadia Jam Fategarh Obra Ghatamp Hadoti, ipat - Bhuj Kham-Banaskan Bhadla Sikar Barmer & ٦U Rajnandbaliya tha aon Thar Lines

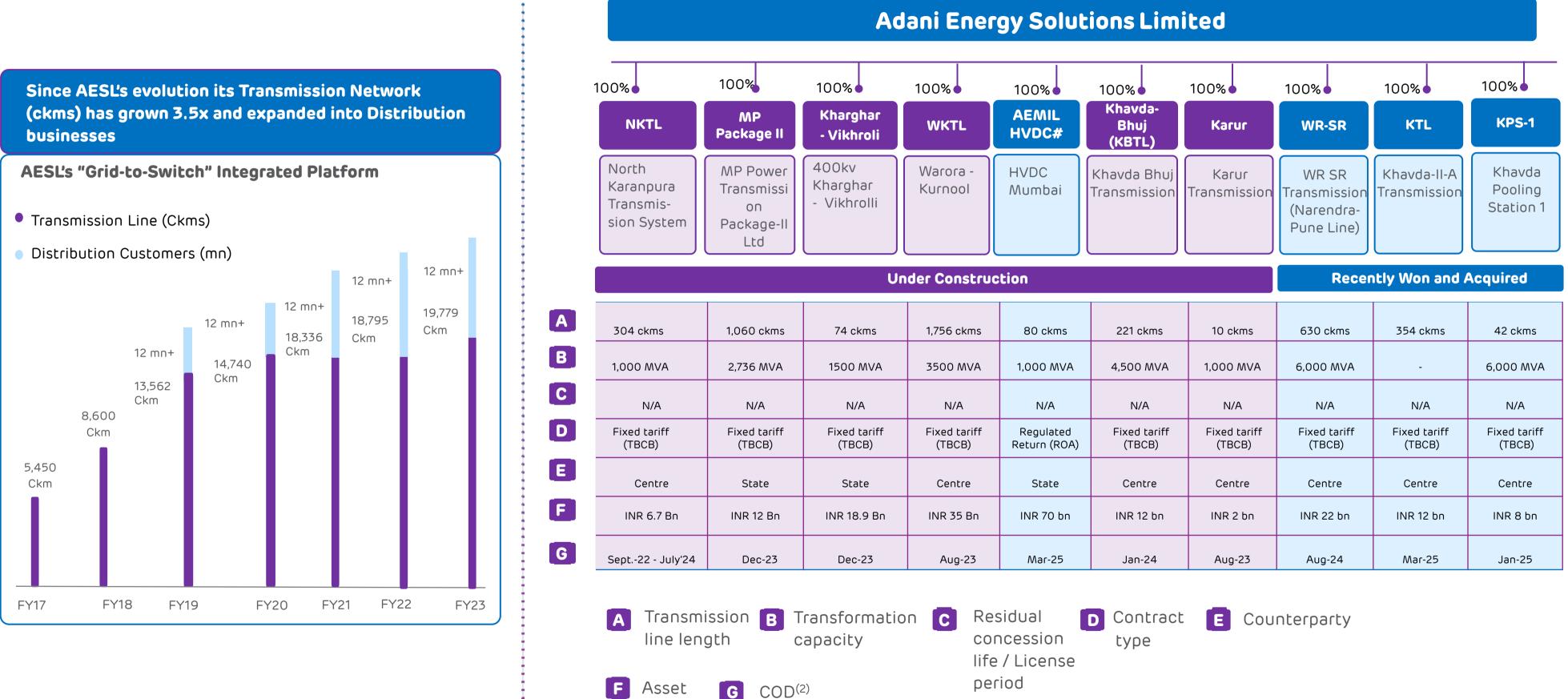
100%	100%	75%	100%	100%	100%	100%•	100%	100%	100%	100%	10
ATIL	MEGPTCL	AEML Discom	MUL Discom	ATSCL & MTSCL	WTGL, WTPL	ATBSPL	APTL	ATRL	RRWTL	CWRTL	
Mundra - Dehgam Mundra - Mohin- dergarh Tiroda - Warora	Tiroda - Aurang- abad	Adani Electricity Mumbai Ltd.	MPSEZ Utilities (Mundra SEZ Area)	Maru & Aravali lines	Western Transmis- sion (Gu- jarat) Western Transmis- sion (Ma- harash- tra)	Bikaner – Sikar	Alipurduar Trans- mission	Surat- garh- Sikar	Raipur -Rajnand- gaon - Warora	Chhat- tis-garh - WR	Sip -R ga

	Operating Assets												Projects Operationalised in FY23							
Α	3,834 ckms	1,217 ckms	573 ckms	148 ckms	397 ckms	3,063 ckms	343 ckms	650 ckms	278 ckms	611 ckms	434 ckms	348 ckms	413 ckms	292 ckms	481 ckms	897 ckms	630 ckms	352 ckms	292 ckms	38 ckms
В	6,630 MVA	6,000 MVA	3,250 MVA	360 MVA	1,360 MVA	-	-	-	-	-	630 MVA	-	585 MVA	-	-	-	950 MVA	-	3000 MVA	2500 MVA
С	c. 27 years	c. 30 years	c. 14 years	c. 11 years	c. 29 years	c. 30 years	c.32 years	c.35 years	c. 33 years	c. 34 years	c. 34 years	c. 34 years	c. 34 years	c. 35 years	c. 35 years	c. 35 years	N/A	c. 35 years	C. 35 years	c. 35 years
D	Regulated return (ROA)	Regulated return (ROA)	Regulated return (ROA)	Regulated return (ROA)	Fixed tariff (TBCB)	Fixed tariff (TBCB)	Fixed tariff (TBCB)	Fixed tariff (TBCB)	Fixed tariff (TBCB)	Fixed tariff (TBCB)	Fixed tariff (TBCB)	Fixed tariff (TBCB)								
E	Centre / State	State	State	State	State	Centre	State	Centre	State	Centre	Centre	Centre	State	Centre	Centre	State	State	Centre	Centre	Centre
F	INR 49.6 Bn	INR 57.7 Bn	INR 75 Bn	INR 0.4 Bn	INR 3.9 Bn	INR 18.2 Bn	INR 2.2 Bn	INR 10.8 Bn	INR 1.3 Bn	INR 12.1 Bn	INR 9.5 Bn	INR 5.4 Bn	INR 4.4 Bn	INR 5.5 Bn	INR 8.5 Bn	INR 18.2 Bn	INR 7.4 Bn	INR 7.0 Bn	INR 8.1 Bn	INR 3.2 Bn
	A Transmission line length								D Con Type		E Counte	erparty	F Asse	et Base <sup>(1)</sup>						

Notes: ATIL - Adani Energy Solutions (India) Limited; MEGPTCL - Maharashtra Eastern Grid Power Transmission Co. Limited; AEML: Adani Electricity Mumbai Limited (Distribution business); ATBSPL: Adani Energy Solutions Bikaner Sikar Private Limited; STL - Sipat Transmission Limited; RRWLT - Raipur Rajnandgaon Warora Transmission Limited; CWTL - Chhattisgarh WR Transmission Limited; ATRL - Adani Energy Solutions (Rajasthan) Limited; ATSCL - Aravali Transmission Service Company Limited; WRSS M -Western Region System Strengthening Scheme Maharashtra, WRSS G – Western Region System Strengthening Scheme Gujarat, (1) Asset base for operational assets as per project cost and Mumbai GTD (AEML) as per Regulated Asset Base



# **AESL's** Under-construction Transmission Asset Portfolio as of August 2023



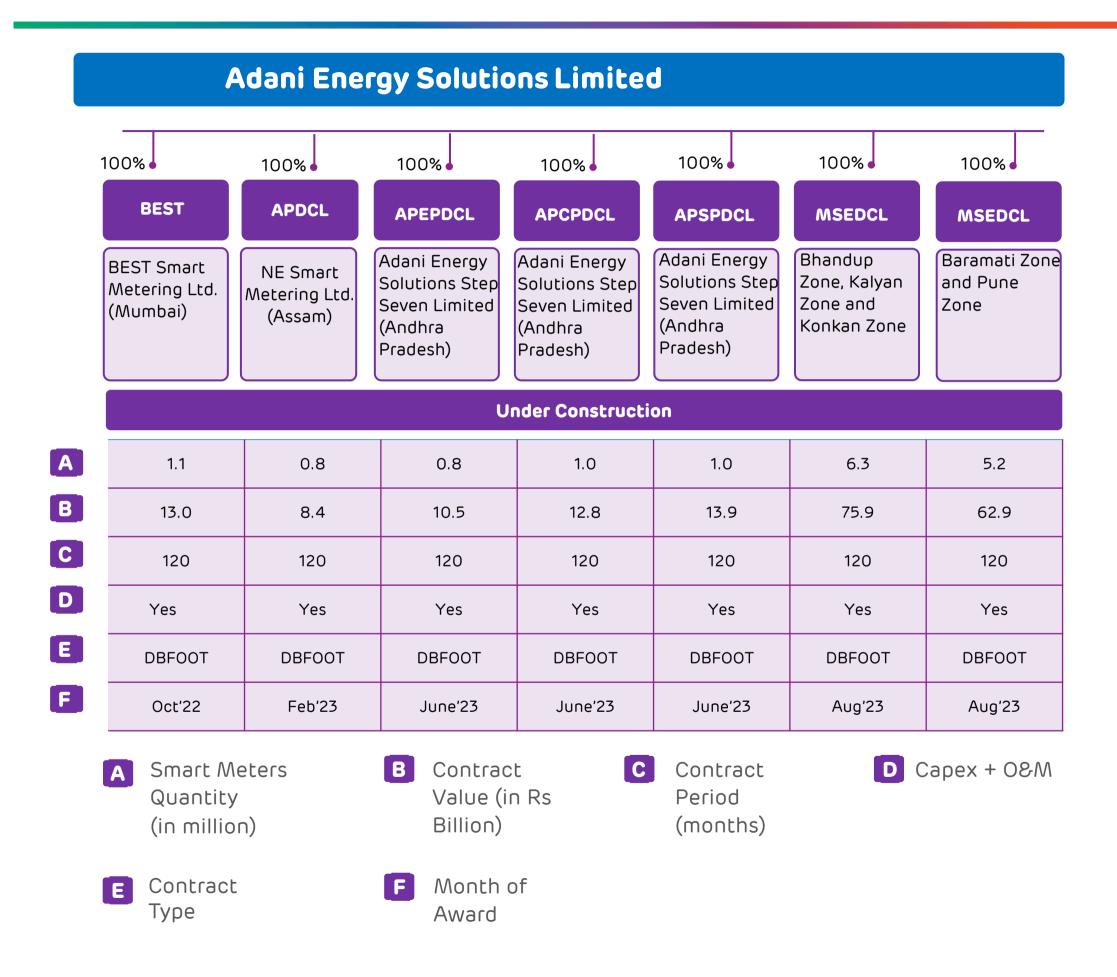
base<sup>(1)</sup>

Notes: 1) Asset base for under-construction assets - as per the estimated project cost as of March 2023; (2) Provisional Commercial Operation Date (COD); NKTL - North Karanpura Transco Limited; GTL: Ghatampur Transmission Limited; OBTL: Obra Transmission Limited; LBTL: Lakadia Bhuj Transmission Limited; JKTL: Jam Khambaliya Transmission Limited; KVTL: Kharghar Vikhroli Transmission Limited; WKTL: Warora Kurnool Transmission Limited

#AEMIL - Adani Electricity Mumba Infra Limited 100% shares are currently being held by AEML. Due to CERC restrictions 51% shares are pledged in favor of AESL



# **AESL's** Smart Metering Under-construction Portfolio as of August 2023



Notes: The Discoms are our customers and AESL is executing these contracts through 100% owned SPVs.; DBFOOT: Design-Build-Finance-Own-Operate-Transfer; BEST: Brihanmumbai Electricity Supply and Transport; APDCL: Assam Power Distribution Company Ltd; APEPDCL: Andhra Pradesh Eastern Power Distribution Co Ltd; APCPDCL: Andhra Pradesh Central Power Distribution Co Ltd; APSPDCL; Andhra Pradesh Southern Power Distribution Co Ltd.; MSEDCL: Maharashtra State Electricity Distribution Company Limited



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### Investor Relations:

### **VIJIL JAIN**

Lead Investor Relations

- 🖂 Vijil.Jain@adani.com
- 🔇 +91 79 2555 7947

🖂 Investor.atl@adani.com

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