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# Adani Group – Leading infrastructure conglomerate with large presence in Resources, Logistics and Energy sector



~US\$25bn Asset base<sup>1</sup>









Largest private player in India's energy space with over 3 decades of experience

Larges 10.46

Thermal power



 Largest private player -10.4GW Solar power



 Largest developer (operational capacity) in India - 1,898MW Wind power



60MW of assets

Focused on long-term value creation – Renewable energy to be a key growth driver for the group

Transmission 8 Distribution

### **Transmission**



 Largest private sector TransCo in India - 12.540 ckm

## **Energy Distribution**



- In process to acquire Mumbai city GTD<sup>4</sup> distribution assets
- 3mm+ customers

## Gas Distribution



- City gas distribution network
- Presence in 13 cities

Auxiliary

## Solar Panel Manufacturing



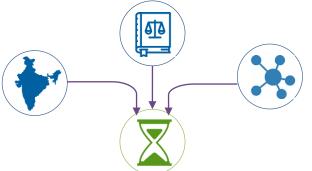
Note: ¹Cumulative data for only listed entities of the Adani group (APSEZ, APL, ATL, AGEL, AEL) As on March 31, 2018 (except for AGEL for which data as on March 31, 2017 is considered); ² ProForma for Mumbai city GTD, ³ Cumulative data for only listed entities of the Adani group (APSEZ, APL, ATL, AGEL, AEL), As on Aug 29, 2018; § GTD: Generation, Transmission, Distribution, Exchange Rate 1 USD = 67 INR



## Repeatedly demonstrated strong execution and operational expertise

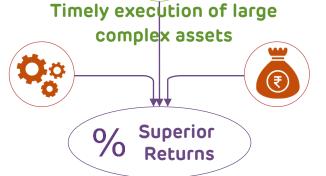
## Deep know-how of Regulatory landscape

Geographic Spread –
ability to handle land
acquisition across
multiple cities & states



Well established relationship across energy ecosystem

Operational expertise



Competitive project development cost

## **Marquee Projects**

648MW Ultra Mega Solar PV plant Largest single location solar project completed in record 9 months



Mundra Port - India's largest commercial port with 122mmt cargo annually



Mundra Power Plant (4.6 GW) India's second largest operational power plant completed in 36 months





## Adani Green Energy Limited (AGEL) - At a glance



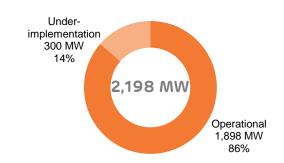




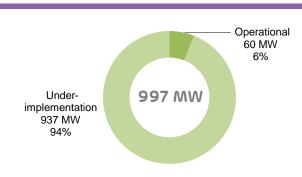


~Rs.9,540cr Market Cap^

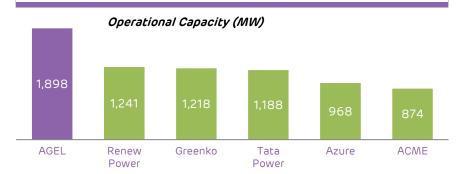
#### Solar projects



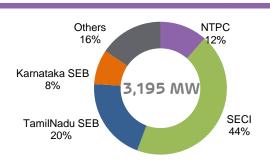
### Wind projects



#### Largest Utility Scale Solar power producer in India<sup>1</sup>



#### Diversified mix of counterparties



## AGEL is the only large listed pure play renewable power producer in India

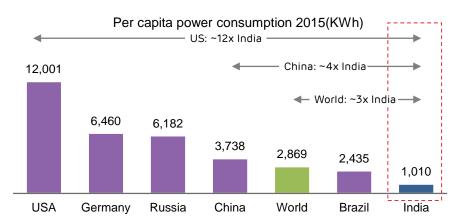
Note: <sup>1</sup>Source: Bridge to India Q2 2017 report and subsequent tender result till 31-03-2018, Latest public filings for Renew Power, Tata Power and Azure Power, Company website for Greenko and ACME, For AGEL, excludes 200MW of PPA won solar project, currently classified as pipeline project



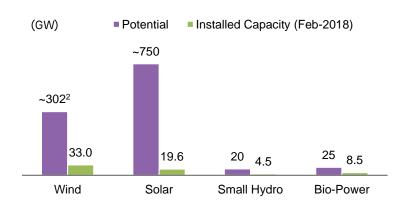


## Renewables - Significant Untapped Potential

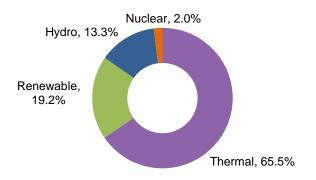
#### India has significant headroom for power consumption growth



#### Solar and wind resources remain untapped



#### Renewables' overall share in power capacity remains low



Total: 340,500 MW<sup>1</sup>

## India - Strong Commitment to Renewables

## Nationally Determined Contribution (NDC) 2030 targets

- 33-35% below emission intensity to GDP
- Share of non fossil based generation capacity to 40% (equivalent of 26-30% of generation)
- Creation of additional (cumulative) carbon sink of 2.5-3.0 GtCO2e through additional forest and tree cover

Renewable energy is expected to meet significant portion of India's power requirement going forward

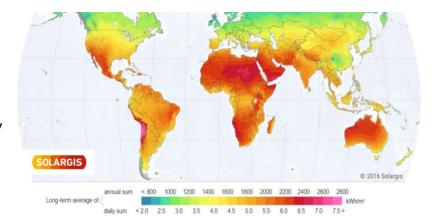
Source: MNRE, Draft NEP, CEA, Deloitte, Crisil; Note: 1 as of 31st Mar 2018; 2 At 100m mast height



## Solar Power - Low resource risk and offtake risk



- Solar generation is most predictable
- Lower variability between P90-P50
- India ideal for commercializing solar
  - Among the highest irradiations globally
  - Proximity to Population, consumption

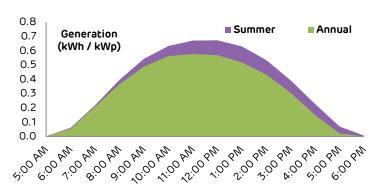


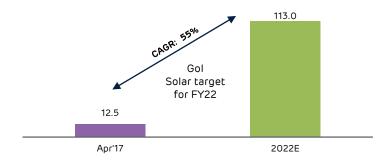
Matching
Demand
Curve for
Solar in India

- Solar Generation curve matches India's demand curve
- Peak demand in summer and Solar power is relatively higher

Strong
Government
policy and
contractual
support

- India ratified Paris climate agreement
  - 40% renewables by 2030
- Stable and Established regulations
  - Electricity Act, 2003
  - Grid stability by statutory bodies
- No dependence on non-utility income
- Proven contractual stability
- No government sops / support



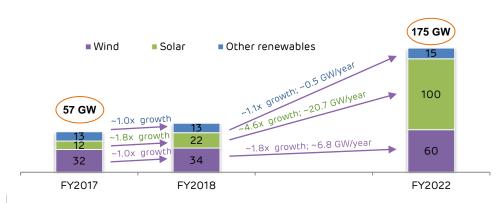


Source: Bridge to India Report (June 2014), MNRE, CRISIL Research Industry Report



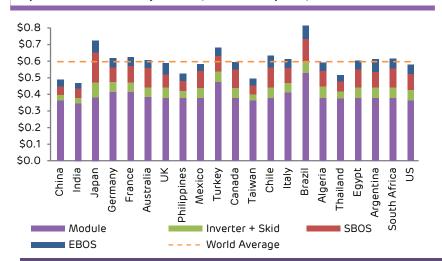
## Significant focus on Renewables, Declining Capital Costs Support Tariffs

#### Large potential to further drive renewable capacity growth

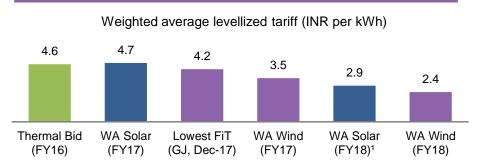


- Target of 2x share of electricity by Mar-22
- Strong Pipeline: Plans to bid out ~9 GW in FY19
- Utility scale solar expected to grow at 30%+ in the medium term

#### Capital cost of Utility Solar (US\$/Watt peak)



#### Renewable tariffs are more competitive than thermal bids



- Declining project cost driven by falling equipment prices
- Enhanced design driving significantly high PLFs / generation
- Improving financing terms and diversification of funding sources

Strong regulatory and contractual framework coupled with competitive tariffs provide impetus to renewables

Source: CRISIL, BNEF, GTM Research H2 2017; Note: 1 Weighted average of winnings bids in Rewa, Kadapa, Bhadla III and Bhadla IV solar park bids





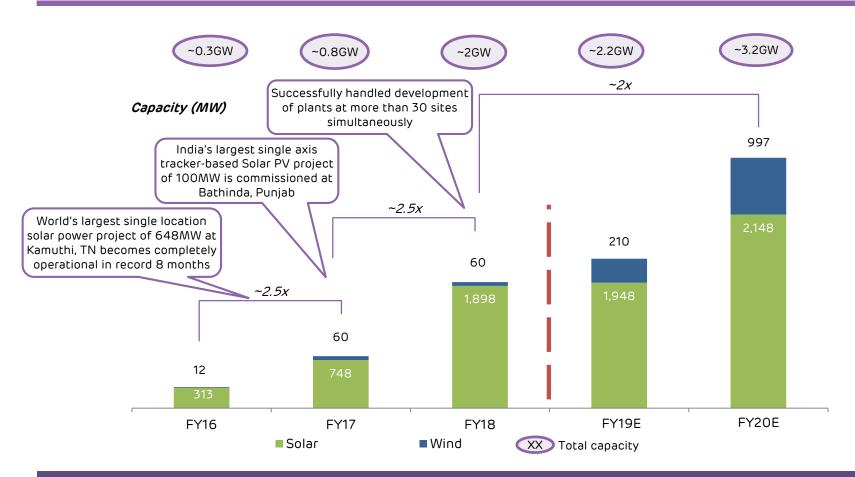
## AGEL – Investment Highlights





# Largest Utility Scale Solar Power player in India Strong track record of capacity addition

## AGEL on track to achieve ~3.2GW capacity by 2020

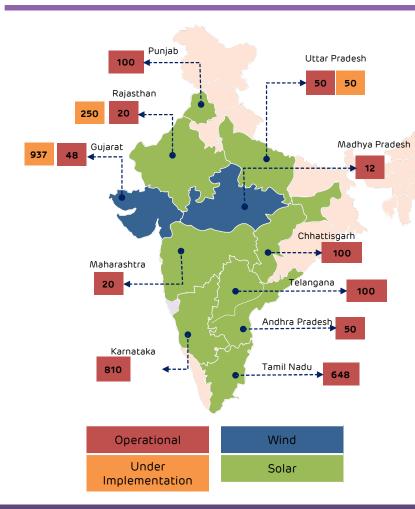


AGEL will be a leading standalone renewable energy player with high growth and focus on returns

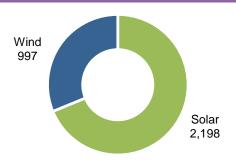


## Pan India Renewable Energy Player with well diversified portfolio

## Overview of Wind and Solar capacity (MW)

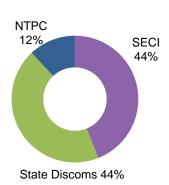


## Capacity Split by Type (MW)



**Total Capacity 3,195 MW** 

#### Well Diversified Off-takers



- 100% capacity contracted
- Long terms PPAs of ~25 years average life
- 100% Sovereign equivalent off takers reduce cash flows and collection uncertainty
- ~56% contracted with investment grade entities

AGEL has a geographically well spread portfolio with 43 projects in 11 states



## Robust operational expertise and project execution capabilities

## Land Acquisition

- Identifying strategic land near substation to reduce cost of transmission line
- Leverage group experience and capabilities for land acquisition & permissions

## Engineering

- Strong In-house design team with vast project execution experience
- Standardization & optimization of technologies and designs for engineering efficiencies
- Detailing activities outsourced for faster delivery

#### Procurement

- Leverage group relationship of large vendor base with long term relationship
- Distribution of project work and major equipment, Module, MMS, directly procured
- Procurement office and team based in China for better product control

#### Construction

- Strong In house team with centralized Project Controls
- Direct Contracts for higher degree of control on resources deployed. No EPC contracts
- High Safety standards. Du Pont engaged in framing Group HSE guidelines followed

Low capital cost, timely and quality project execution by in house teams



## Robust operational expertise and project execution capabilities

Monitoring Strategy

## Remote Operations & Nerve Centre (RONC)

- HQ monitoring of Performance Analysis, Data Analytics and SME's
- Advanced analytics with closed loop command operation
- Maintenance and Operations based on real time data analytics

#### Cluster

- Cluster based operating model to ensure support and governance at site
- Cluster head, equipment specialist, Support

### Project

 Each site typically has a site head supported by technicians

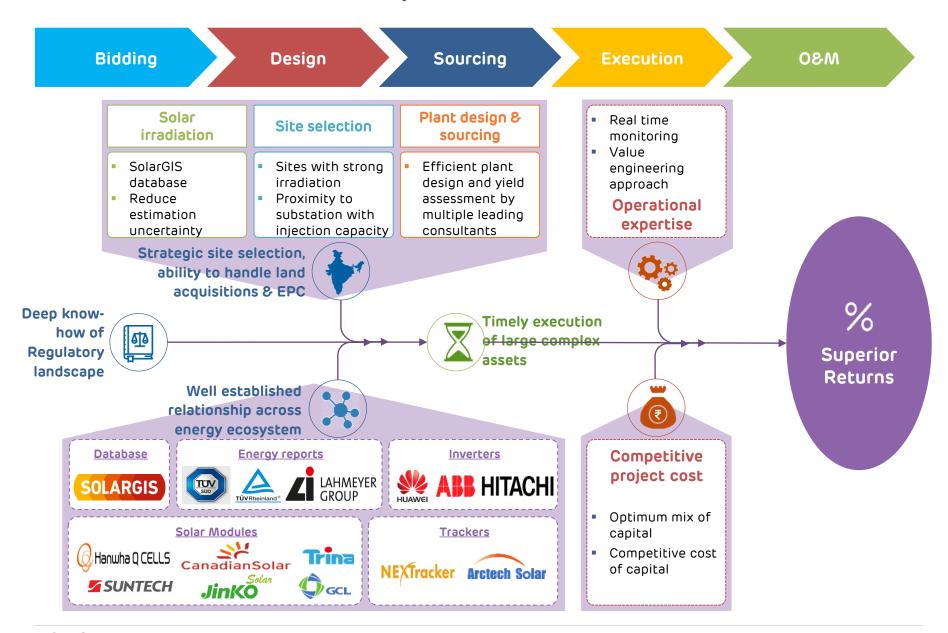
O&M Best Practices

- **Technology & Innovation**: Dust Detection System (DDS), Thermal imaging, Google Glass, String monitoring, Optimal module tilt detection system
- Maintenance Strategy: Comprehensive contract management and AMC framework, Equipment warranty management
- Spares Management: Optimal spare inventory management
- Safety Management Systems: Security system of 24x7 CCTV plant surveillance

AGEL follows predictive maintenance model to achieve optimal operational results

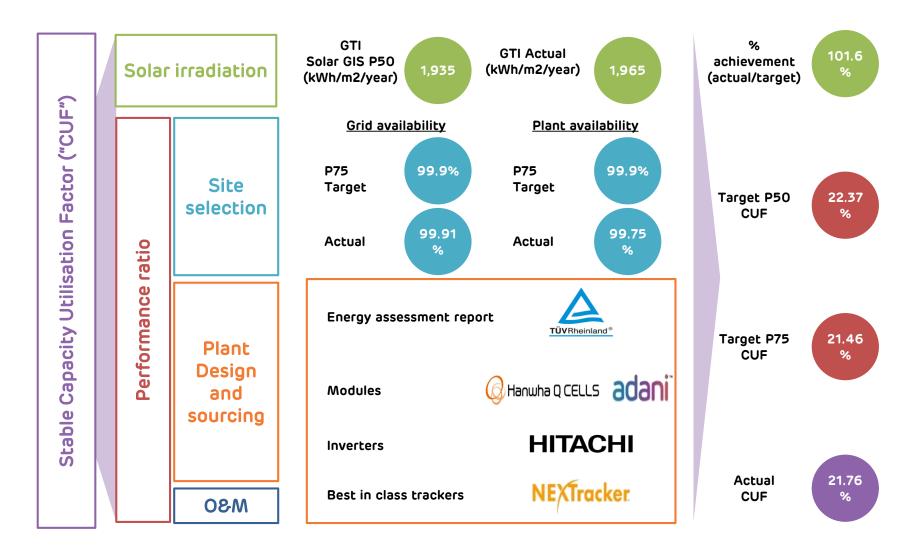


## AGEL - Differentiated Quality and Return Focus





## Focus on sustainable performance - Punjab 100 MW project



Note: Performance of plant is provided from April 2017 to March 2018



## Strong sponsor & professional management with strong execution track-record

## Sponsorship

**Gautam Adani**Founder & Chairman
Adani Group





Rajesh Adani Founder & Director Adani Group



## AGEL - Access to Group Capabilities

- Capital Strong sponsor (promoter) support
- Leadership in Infrastructure Sector
- Benchmark Cost of Capital (3 Investment Grade rated bonds)

- Long standing relationship with the procurers
- Project Execution and implementation track record
- Understanding of regulatory environment

## **Professional Management Team**

Jayant Parimal CEO



Sagar Adani Executive Director



Ashish Garg



Ajith Kannissery
Head Projects



Anil Vishwakarma Head Engineering



Rakesh Shah Head Regulatory



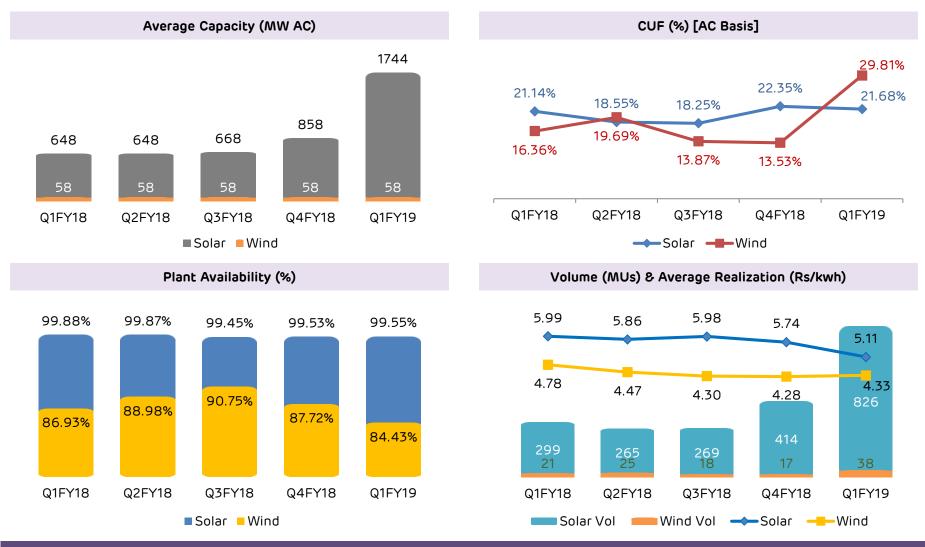
Sunil Modi Head O&M







## Robust Operating performance



Target Solar generation for 4,130 Mu' @CUF of ~25% (annualized) with Avg. Realization per unit of INR 5.20 for 1898 MW<sub>AC</sub> capacity

Target Wind generation for 135 Mu' @CUF of ~25% (annualized) with Avg. Realization per unit of INR 4.20 for 60 MW<sub>AC</sub> capacity



## Resilient Financial Performance



#### Notes:

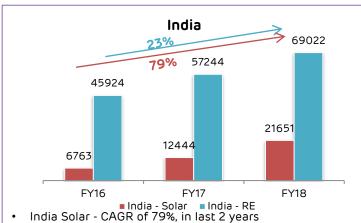
- 1. Calculation of EBIDTA excludes foreign exchange (gain)/loss.
- 2. EBIDTA margin % represents EBIDTA earned from Power Sales. Hence, it excludes cost Rs 94 crs and revenue Rs 95 crs for EPC business & trading of goods.
- 3. Cash Profit = EBIDTA + Other Income Finance Cost Income tax expenses.
- 4. The receivables presented are only power sales receivables



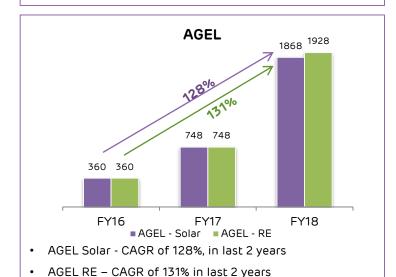




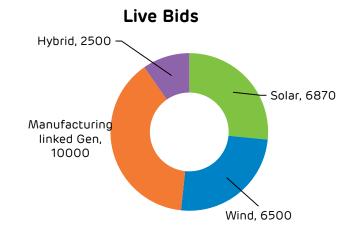
## Solar Capacity Growth - India and Adani



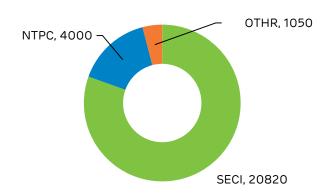
- India RE CAGR of 23% in last 2 years
- Solar contributed 6.3% of total installed capacity and 31% of renewable capacity in India



#### ~26 GW of live bids in near future



## Off Takers



Solar - 16870 MW, Wind - 6500 MW, Hybrid - 2500 MW

AGEL contributing ~9% of total Solar capacity in India and expected to maintain its market share



## AGEL - Delivering Shareholder Value

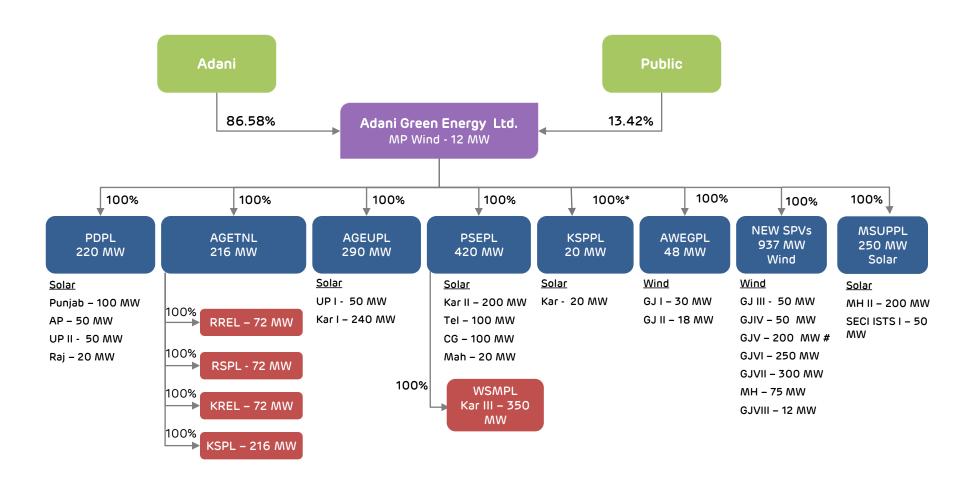
Stable Cash Long term PPAs with Strong off-takers – Predictable cash flows **Flows** Drive high and predictable generation (Solar - P50 Focus, Operational Wind - P75 Focus) Excellence Lower cost through preventive maintenance focus Growth and Leverage internal accruals and shareholder support to target 5% Returns renewables market, disciplined returns focus **Focus** Infrastructure In house Infrastructure Expertise with consistent track record of lineage creating industry leading infrastructure portfolios **Efficient** Focus on diversifying and increasing maturity **Capital** Access to global capital markets, listed stock Management

Focus on delivering growth and shareholder returns





## AGEL - Corporate Structure



<sup>\*</sup> AGEL has agreed to acquire the balance 51% stake post one year of CoD of project

<sup>#</sup> AGEL has agreed to acquire 100% stake post one year of CoD of project



# Adani Group: CSR Initiatives Spread across 13 states in 20 locations of India reaching out to 5 lakh families in 1,450 villages



#### Quality Education - Underprivileged & girl child, teacher training and Adani Vidyamandir

- Providing quality education to meritorious students from economically weaker section of the society own school with free of cost education, supporting government schools & pre-primary centers
- Gujarat Adani Institute of Medical Sciences (GAIMS) first ever PPP in medical education with 900 MBBS, PG students and interns



#### Community Health - GAIMS, kids immunization, HIV/Aids awareness

- GAIMS GKGH a 750 bedded hospital, attending 1400 patients and conducting ~40-50 surgeries each day
- Project SuPoshan Curbing Malnutrition & Anaemia amongst children (upto 5 yrs), adolescent girls & women of reproductive age. Suposhan Sanginis working in 190,565 Households in 450 village across 19 locations
- Swachhagraha Inculcating Culture of Cleanliness in 17 States covering 3,075 Schools across 40 Cities through 3,220 Swachhagraha Preraks & 55,000+ Swachhagrahis



## Sustainable Livelihood - Skill development, cattle vaccination and animal husbandry

- Empowering women by creating SHG's and providing equal opportunities in income generation activities
- Adani Skill Development Centre Aims to make 3,00,000 Indian Youth Skilled for Employability and Entrepreneurship by 2022.
- 15 ASDC centres in 7 states and 16 centres in partnership model across Madhya Pradesh
- Udaan Inspiration based plant visit for schools and college students. More than 2.50 lakh students from 3,200 institutes have visited our 6 business locations in India



#### Rural Infrastructure – Pond deepening, village drainage, roads, drinking water, power etc.

- Enhancing livelihood opportunities through agriculture interventions, developing local water bodies for irrigation, supporting fisherman in coastal areas and various off farm activities for income generation
- Developing local infrastructures all season roads, community halls, potable drinking water sources, individual / common sanitation facilities, health care centers and school infrastructure





