



AAD TECH GROUP

**PIONEERING ENERGY EFFICIENCY FOR A
SUSTAINABLE FUTURE**

AUTOMOBILE SECTOR

ABOUT US



EXPERIENCE & TEAM

30+ Years of Expertise



PROJECT EXECUTION

750+ Successful projects with
20,000+ EC fan installations



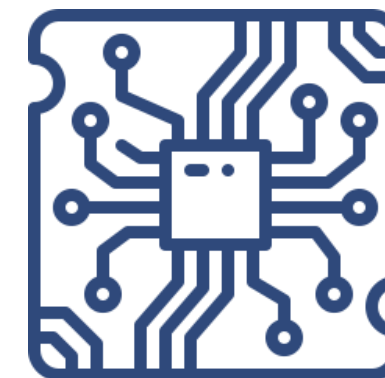
ENERGY SAVINGS

Up to 70% Energy
savings achieved



SUSTAINABILITY

150+ million tons of CO2
saved



TECHNOLOGY & AUTOMATION

World's best EC technology with
specialized Controllers & Automation

GROUP COMPANIES



Established in 2008, AAD Tech India Private Limited, is a pioneer in Energy efficiency Retrofits of EC Fans in Air handling units and cooling towers, achieving substantial energy savings across multiple industries



Established in 1991, Melfrank Engineers LLP has extensive experience in designing & building cooling towers of varying capacity. The company specializes in converting timber to pultruded FRP tower & retrofits with EC axial fans, achieving energy savings & efficiency



Established in 1992, Airpac Cleantech Private Limited specializes in design & execution of cleanroom equipment's, adhering to global standards. Products include Fan filter modules, laminar flows and pass boxes



AAD Tech Environ Private Limited is the global arm of AAD Tech India Private Limited & has executed projects in Bahrain, Turkey, Oman, Egypt, Thailand, Indonesia, Saudi Arabia and Nepal

PRODUCT PORTFOLIO



AHU, AWU, FAHU, Air
Refinery Unit



Centrifugal fan



Axial fan



Fan Array



FRP Cooling Towers



Motor Control



BLE Controller

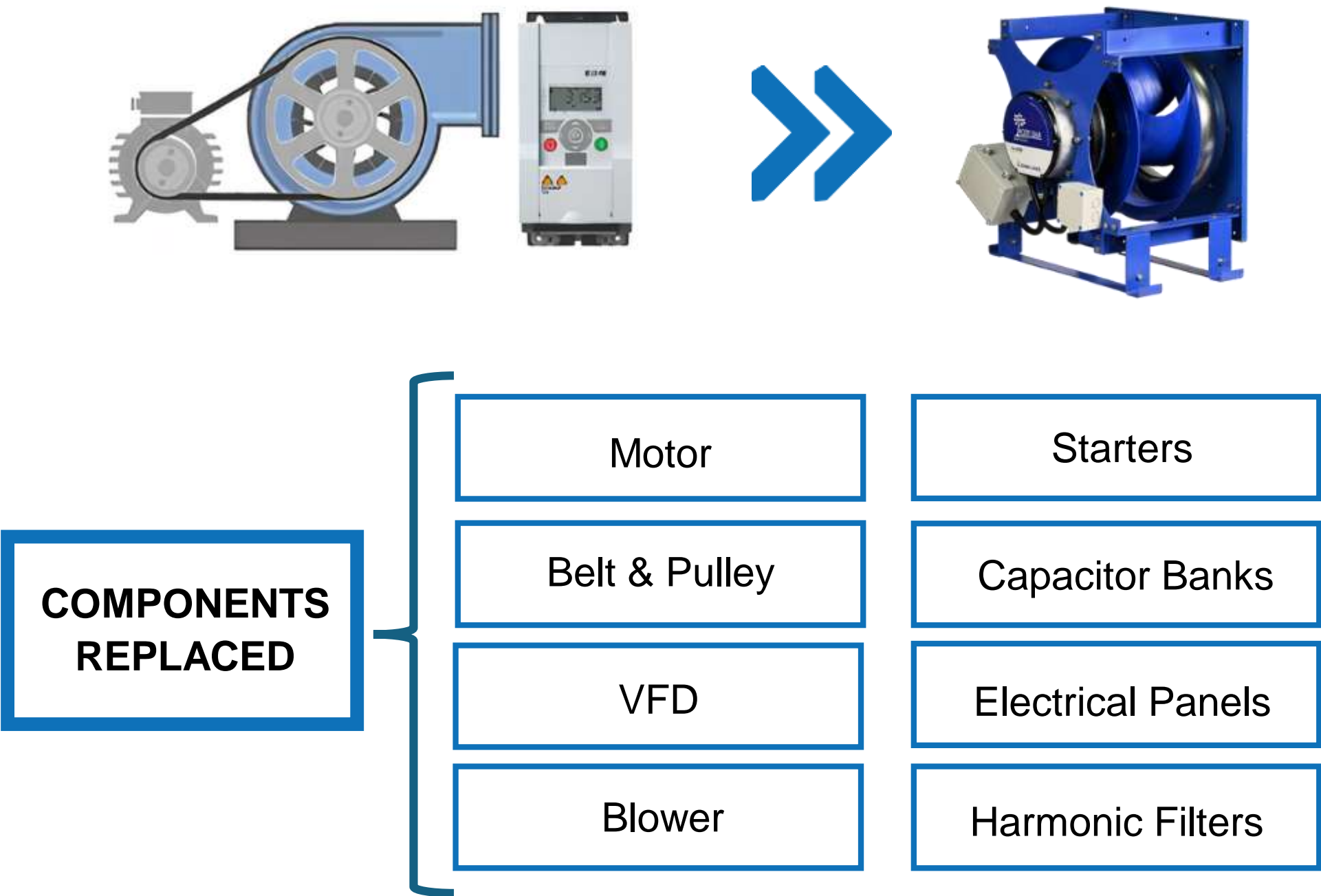


Cleanroom Products


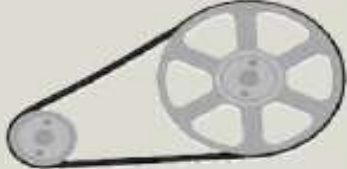

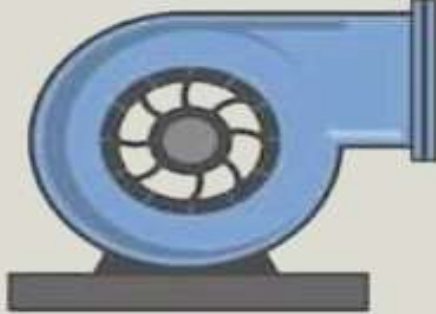
TECHNOLOGY: EC FAN RETROFIT



PLUG & PLAY INSTALLATION

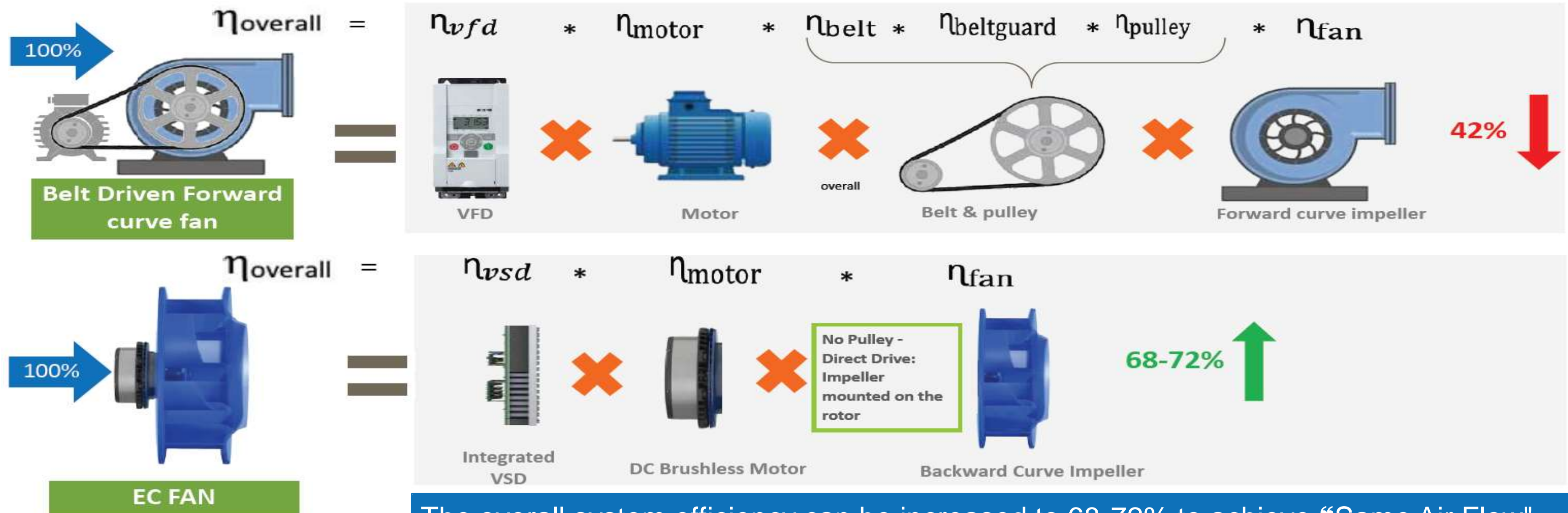


CONVENTIONAL AIR HANDLING SYSTEM EFFICIENCIES

SCENARIO	 DRIVE LOSSES	 BELT & PULLEY DRIVEN LOSS	 MOTOR EFFICIENCY	 BLOWER EFFICIENCY	CALCULATION OF EFFICIENCY	OVERALL EFFICIENCY
1. Designed efficiency	3-5%	5-8%	85-90%	70-75%	$0.97 \times 0.92 \times 0.85 \times 0.7$	50-55 %
2. Running efficiency	3-5%	5-8%	75% (running efficiency of motor part load)	60-65%(running efficiency of blower is only)	$0.97 \times 0.92 \times 0.75 \times 0.65$	40-45 %

SYSTEM EFFICIENCY

MULTIPLE SYSTEM EFFICIENCIES COMBINE TO GIVE STATIC SYSTEM EFFICIENCY

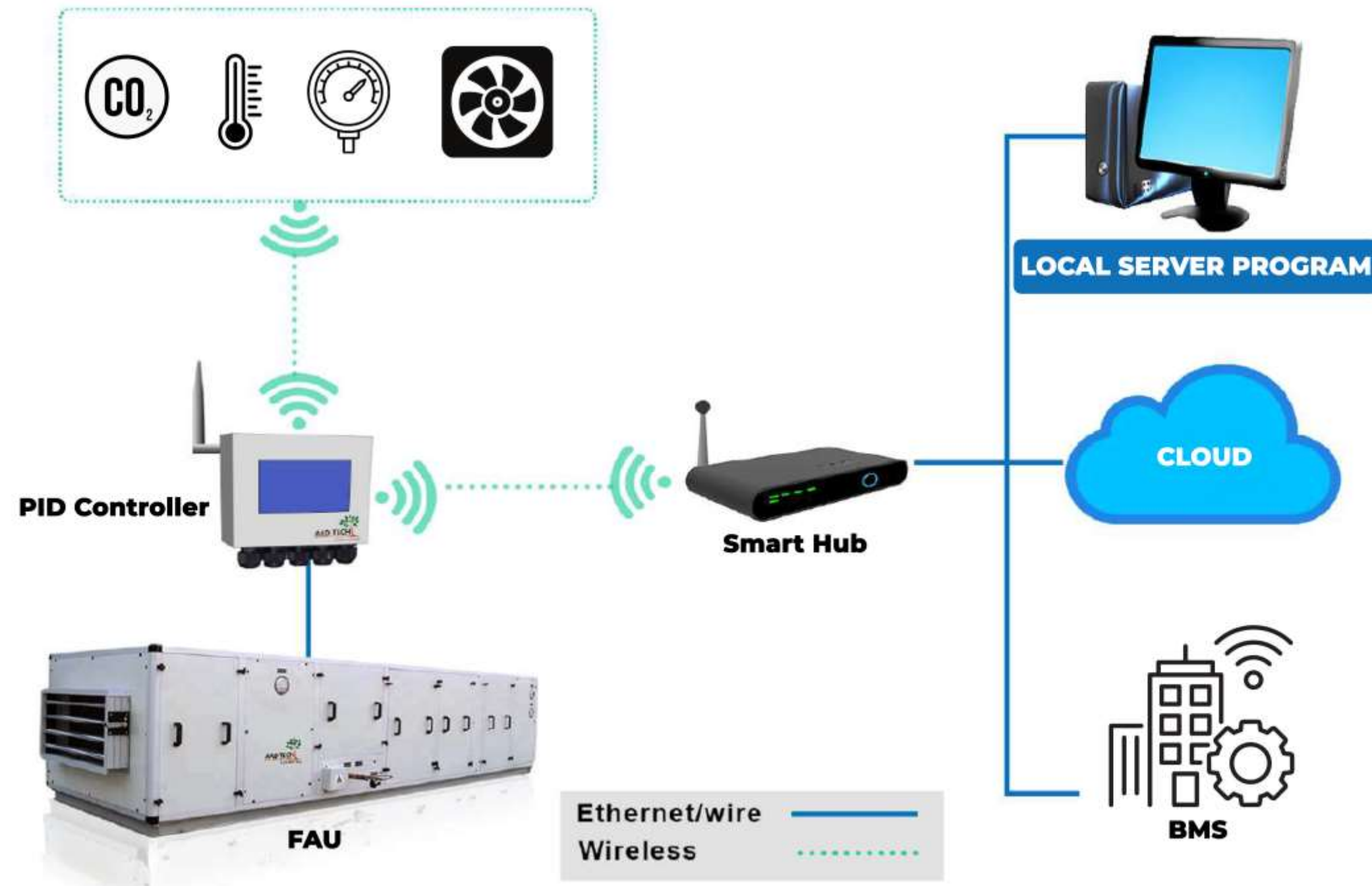


The overall system efficiency can be increased to 68-72% to achieve “Same Air Flow” @ “High Efficiency” and “Lesser Power”

BENEFITS OF OUR SYSTEM IN ASU'S

- Absolute accurate supply air control to the booth
- One touch control with air flow feedback
- Automatic booth velocity controller
- Damper less operation possible for supply side of the booth
- No VFD required and automatic speed control built in
- Zero maintenance and involvement of humans
- Seamless integration possible with PLC, BMS and standalone sensors
- Maximum face area of pads and filters utilized
- Redundancy built in within the system
- Very easy spare maintenance policy
- No requirement of motor greasing , belt and pulley alignment , fan balancing

AUTOMATION: CONTROLLERS, SENSORS & IOT



OVER THE AIR MAINTENANCE

MOTOR CONTROLLER

IOT/BLE/BLUETOOTH INTEGRATION

TEMPERATURE, VIBRATION & CO₂ SENSORS

SEAMLESS BMS INTEGRATION

BLE & OTHER CONTROLLERS

CPED ASU-1 WORKING TIME

	DATE	WORK APPROVAL SCHEDULE	HOURS
1	12/11/23	13:30 -17:30	4 Hrs.
2	13/11/23	10:00 -19:00	9 Hrs.
3	14/11/23	7:00 -19:00	12 Hrs.
4	15/11/23	7:00 -23:00	16 Hrs.
5	16/11/23	8:00 –14:00	6 Hrs.
	TOTAL HOURS		47 Hours

CPED ASU-1: DISMANTLING & CUTTING THE OLD SYSTEM



CPED ASU-1: WORK IN PROCESS



CPED ASU-1: INSTALLATION OF 24 SYSTEMS



CASE STUDY – LACQUER PAINT BOOTH



CASE STUDY – LACQUER PAINT BOOTH



OUR SOLUTION VS CONVENTIONAL BELT FAN

PARAMETER	CONVENTIONAL FAN	AAD TECH SYSTEM
MOTOR EFFICIENCY	70-85%	93-95%
BELT MAINTAINANCE	Required	Not Required
BEARING MAINTAINENCE	Required	Not Required
COPPER LOSS	High	Non-Existent
SLIP LOSS	Yes	No
BELT AND PULLEY LOSSES	Yes	No
BLOWER WEIGHT	Heavy	Light
CORROSION RESISTANCE	No	Yes
VIBRATION PADS	Required	Not Required
SOFT START	Additional Equipment Required	Built In
MOTOR HEAT LOSS	Yes	No

OTHER INDUSTRIES CATERED



AUTOMOBILES



AVIATION



CONSUMER GOODS



HOSPITALS AND
HEALTHCARE



PHARMACEUTICALS



OFFICE
BUILDINGS/IT/BANKING



MALLS/HOTELS

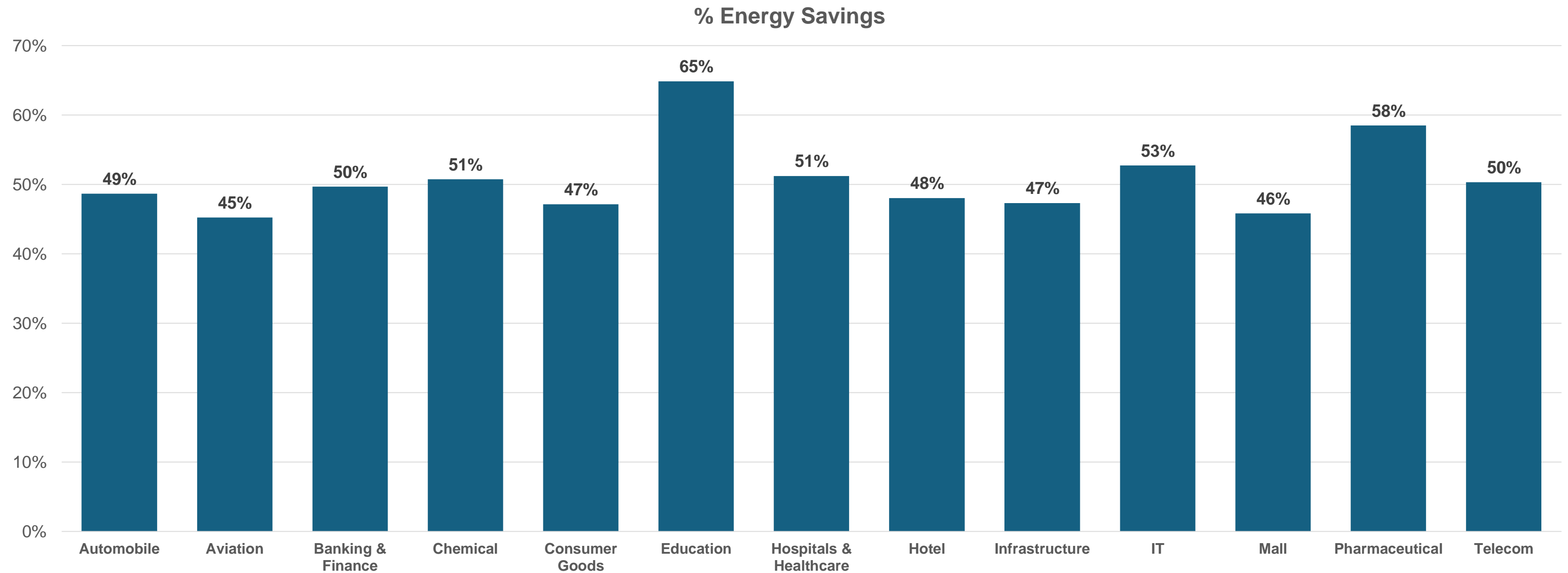


INFRASTRUCTURE



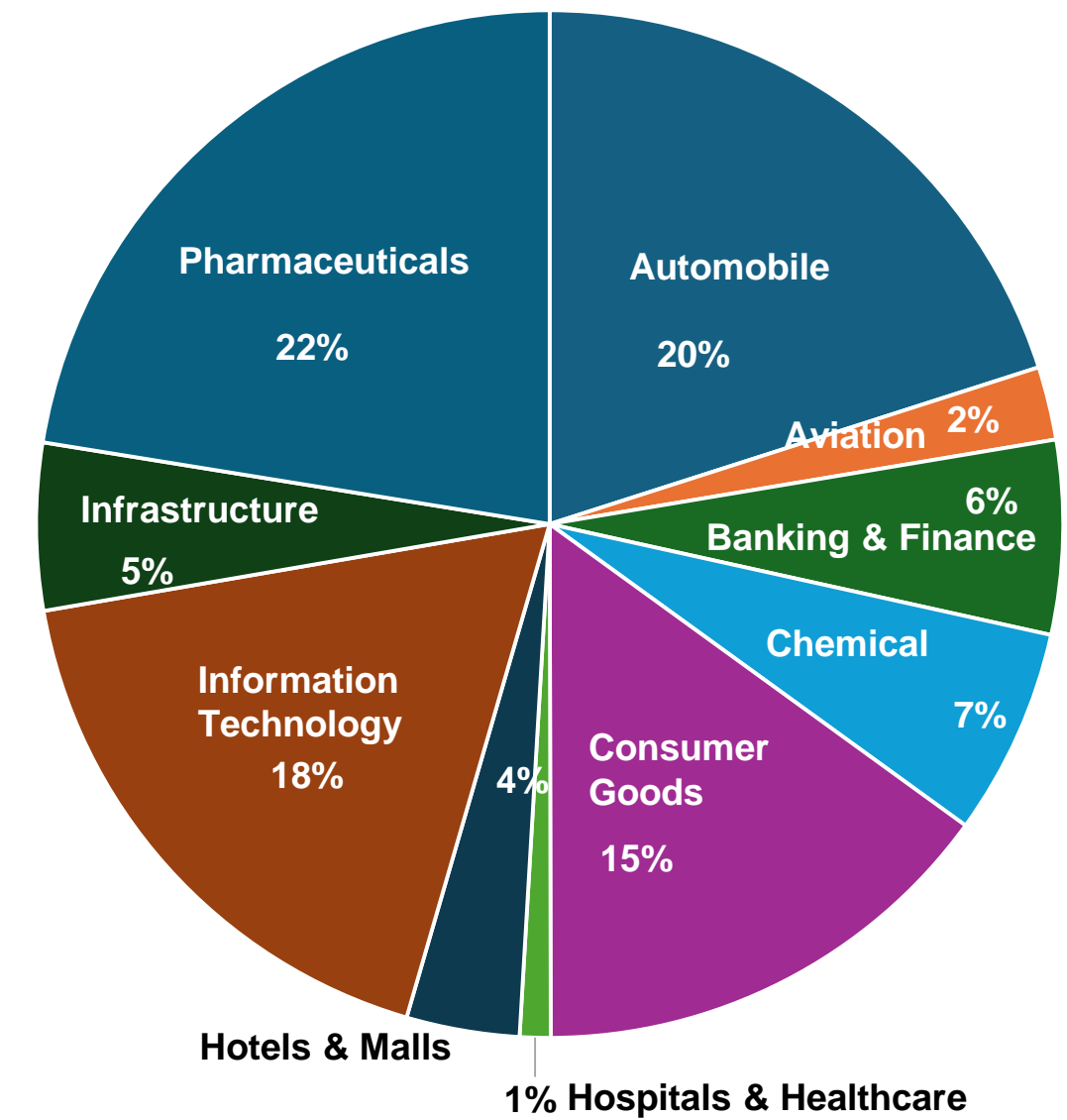
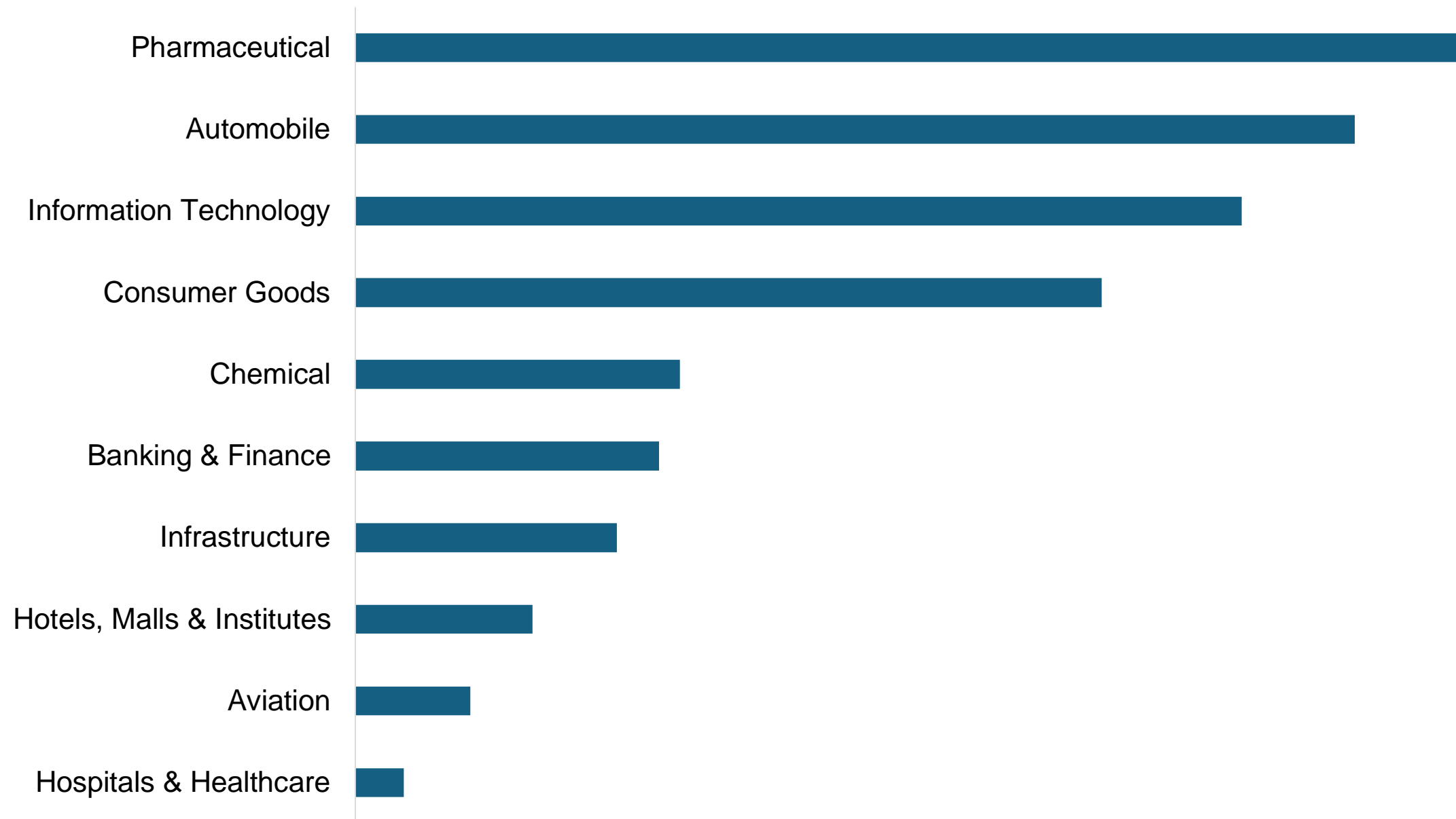
CHEMICALS

ENERGY SAVINGS BY INDUSTRY



WORK DONE BY INDUSTRY

EC Drives Installed



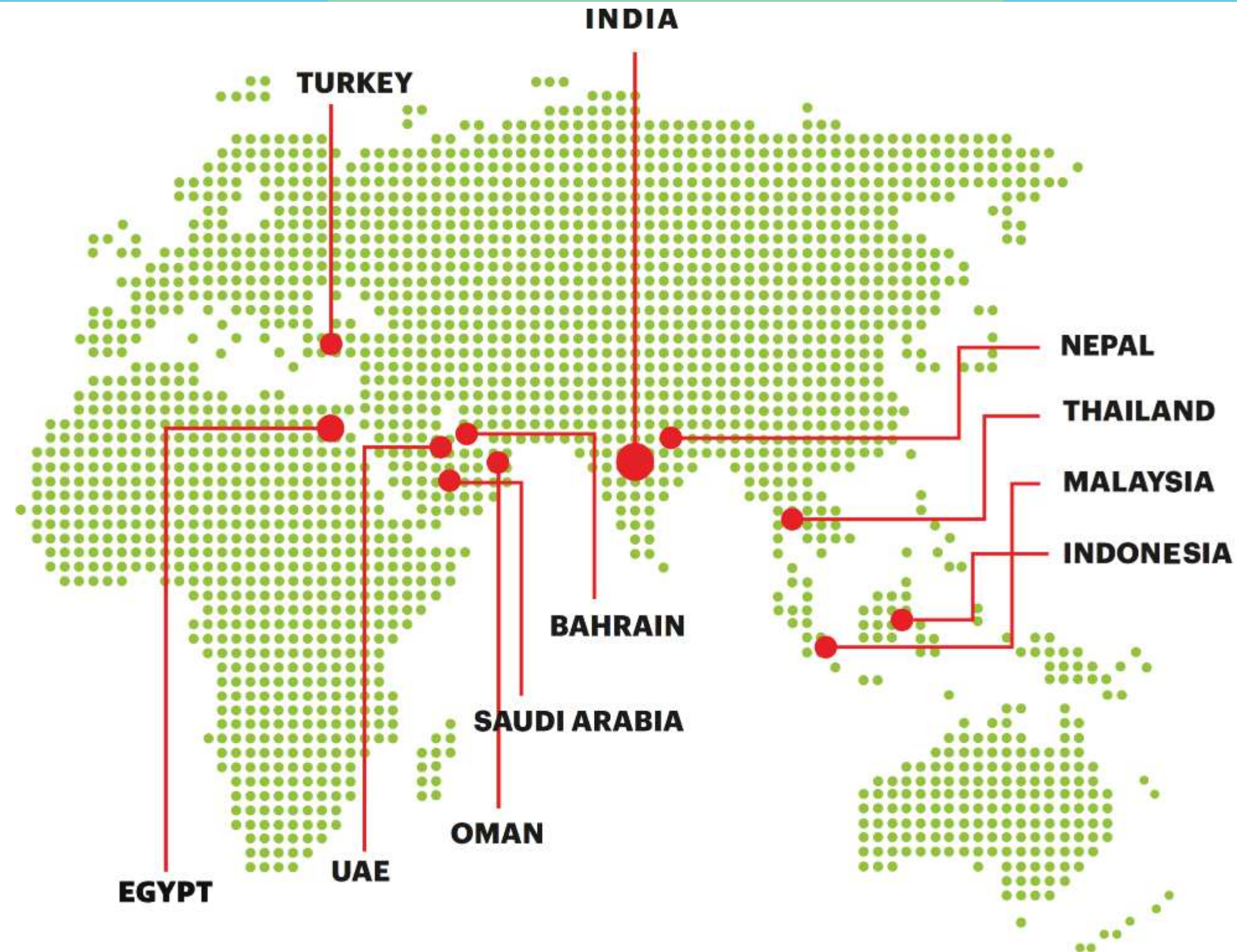
DOMESTIC PRESENCE



TRACK A PROJECT

[Project Tracker](#)

GLOBAL PRESENCE



TESTIMONIALS



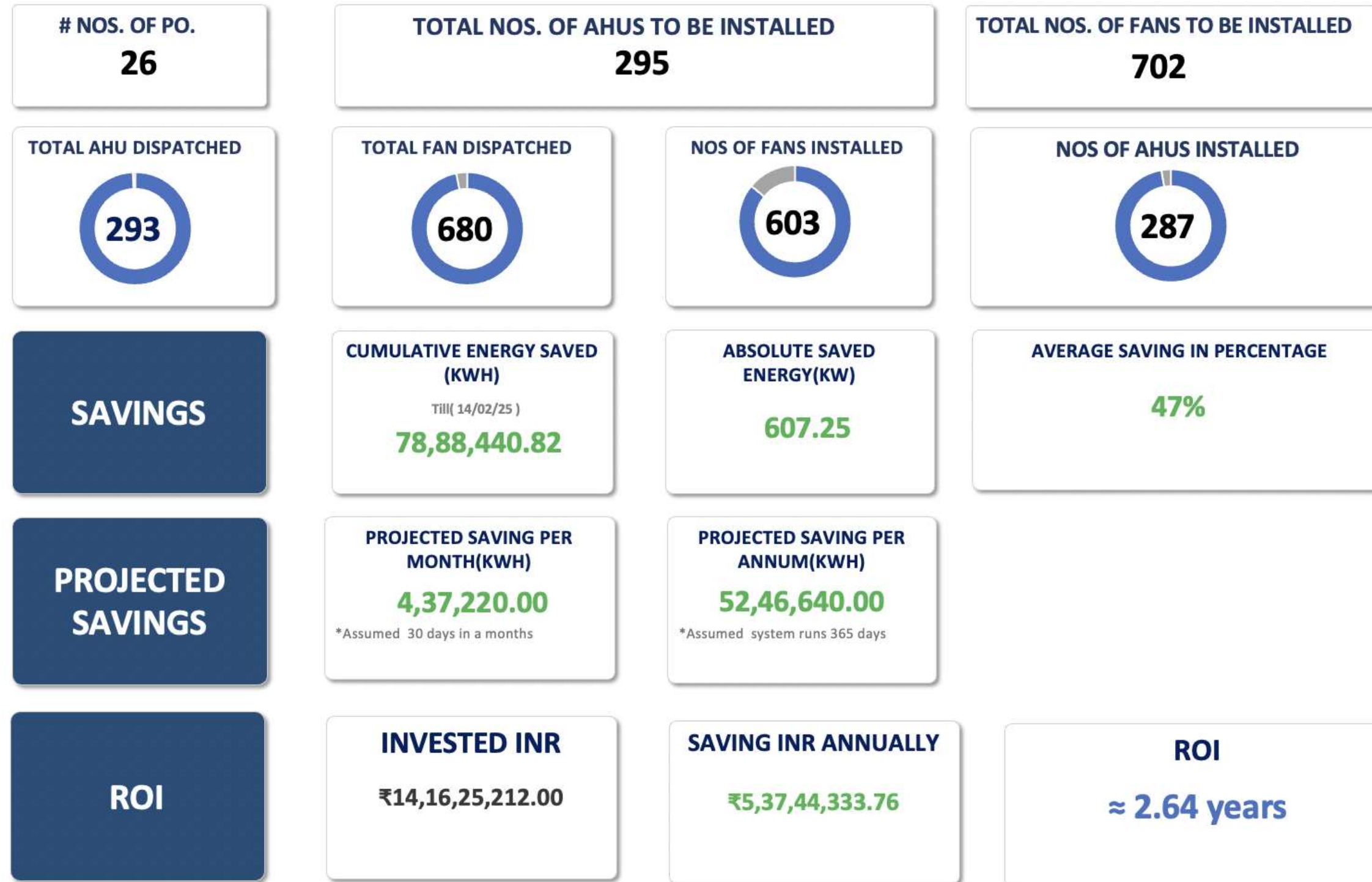
"I recently had the pleasure of working with Aadtech on AHU work, and I was thoroughly impressed by their professionalism and expertise. Their team went above and beyond to ensure that everything was done to the highest standard, and the results were fantastic. I would highly recommend their services to anyone in need of AHU work."

- Project Manager, Cipla

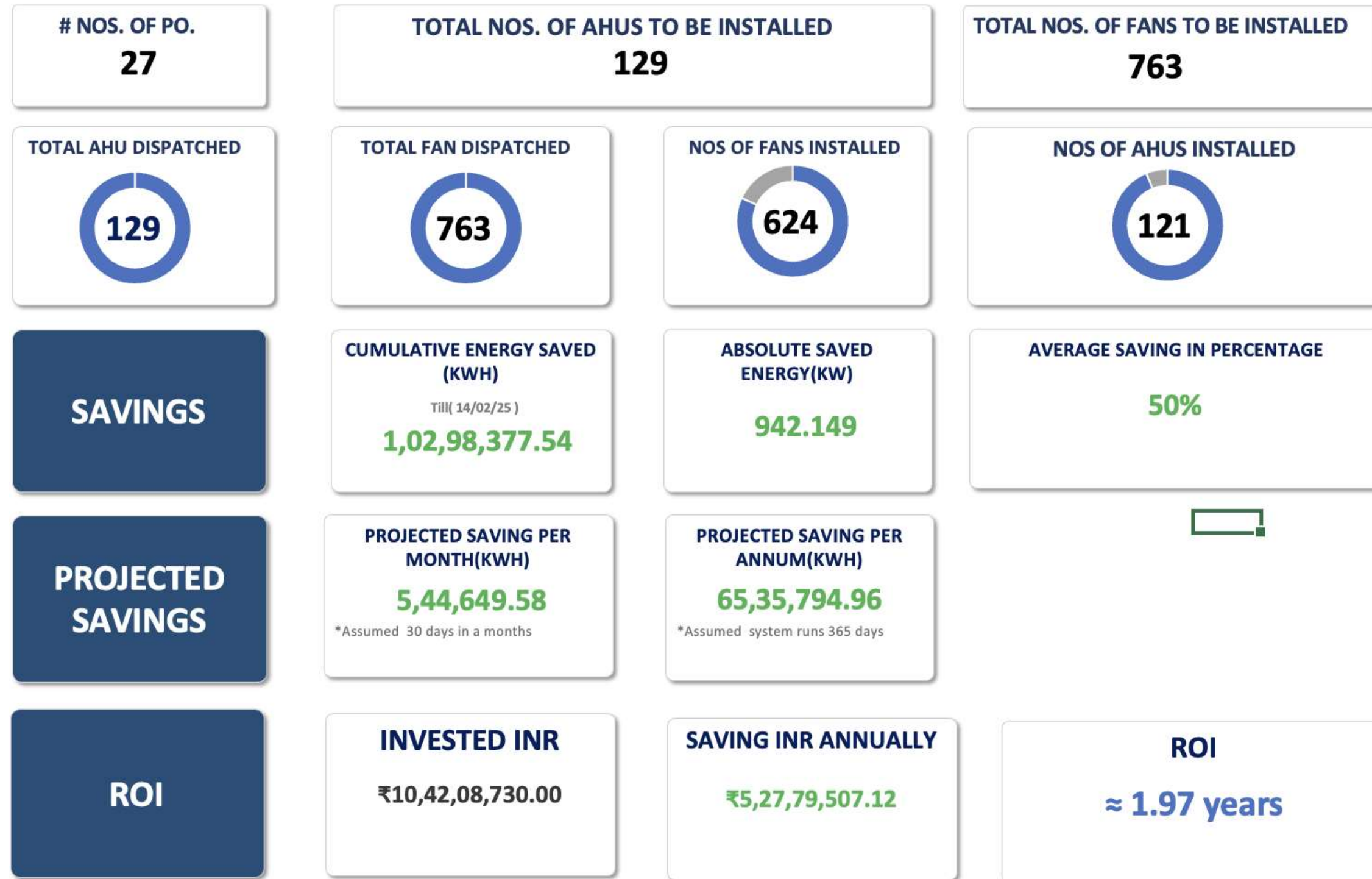
"AAD Tech recently installed EC fans across our 23 AHU for plant air conditioning. Overall, it was a positive experience, where the team was professional, knowledgeable, and committed to quality."

- Engineering Head, Mondelez, Bahrain

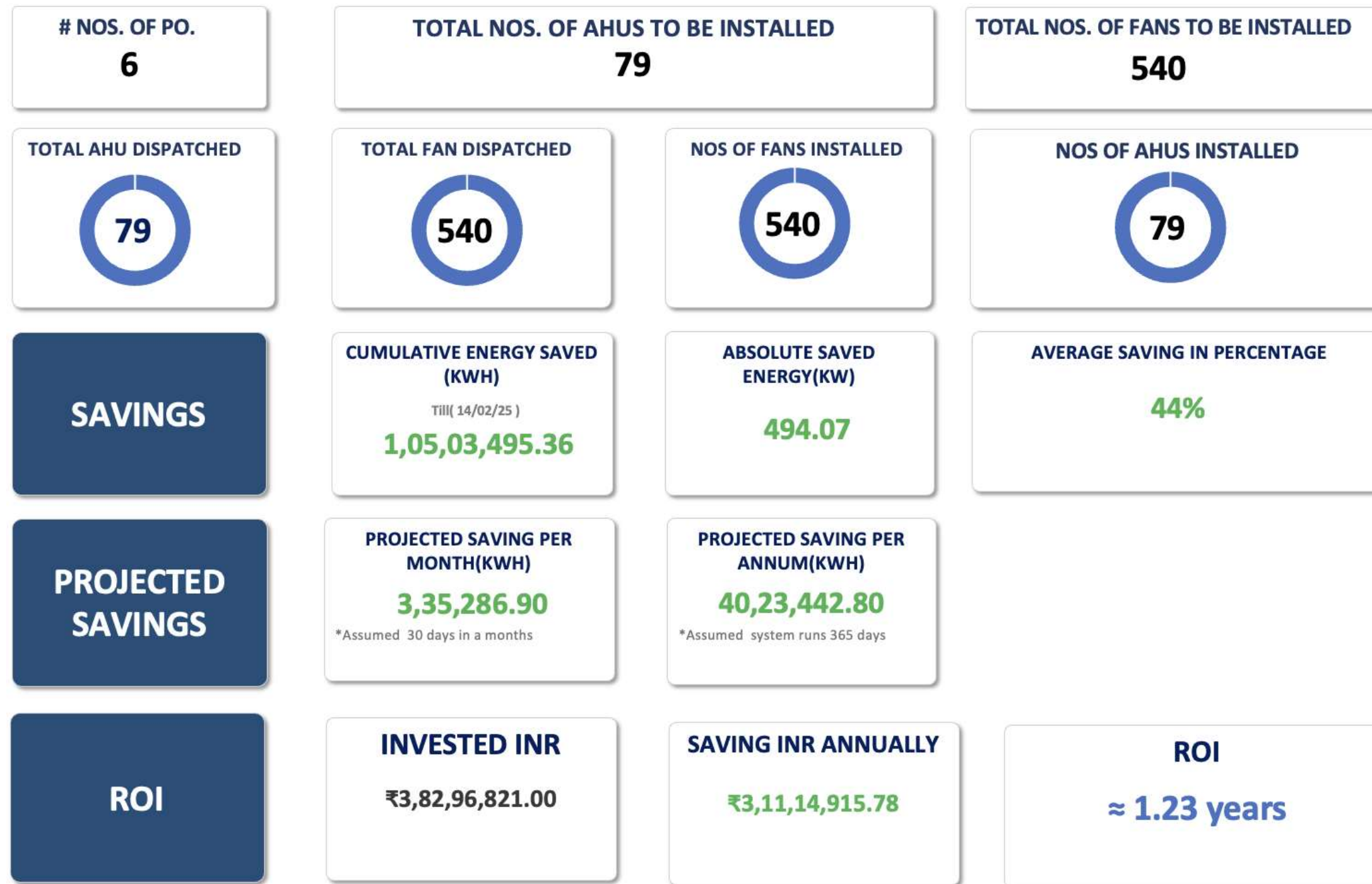
CASE STUDY:AUTOMOBILE MANUFACTURER 1



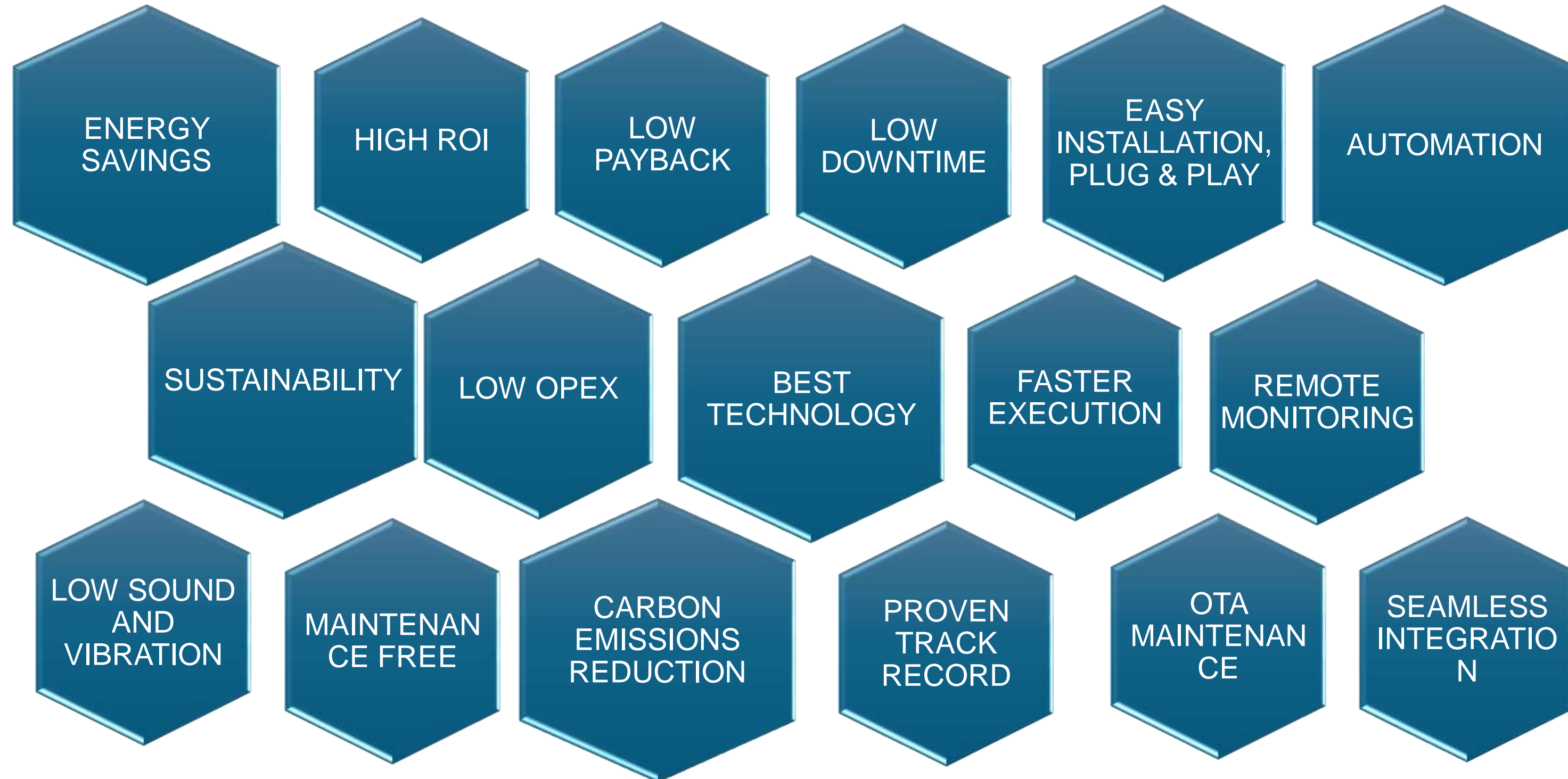
CASE STUDY: AUTOMOBILE MANUFACTURER 2



CASE STUDY: AUTOMOBILE MANUFACTURER 3



SUMMARY OF BENEFITS



THANK YOU




FOR SALES INQUIRIES

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