

Integrated Energy efficient Thermal Solution



**Air Cooled
Steam
Condenser**

**Air Cooled
Heat
Exchanger**

**Wet
Cooling
Tower**

**Closed
Circuit
Cooling
Tower**

**Energy
Efficient
Fans**

AEPL-JOURNEY



- Started Energy Efficient FRP Fans for Cooling Towers Spares in 1997
- Integrated to Cooling Tower in 2010
- Added Air Cooled Heat Exchanger 2020
- Added Close Circuit Cooling Tower 2020
- Air Cooled Steam Condensers & Air Cooled Heat Exchanger 2020



VISION



Provide Energy Efficient & Optimum Thermal Solutions for Dry & Wet Cooling needs in the Industry aimed at

- Lower Capital Cost
- Compact Plot Area
- Lower operational & Maintenance Cost.



MISSION



To offer optimum solution & to maintain high standards of quality, service and to continually improve the products using best available technology through innovations in application.



QUALITY POLICY

Achieve customer satisfaction through consistent quality products with full involvement of employees and a strong quality management system to ensure continual improvement in product technology.



QUALITY OBJECTIVES

- Customer feedback to a level 95% minimum satisfaction rating.
- To reduce major non conformity in audits to zero level.
- Finished goods rejection to be less than 1%
- 99% timely delivery as per PO.

Integrated Energy efficient Thermal Solution

Operation and
Maintenance

Air Cooled Steam
Condensers

Air Fin Coolers

FRP Fans & Fan
Stacks

Cooling
Towers

Thermal
Augmentation

Revamp
Solutions

Energy
Conservation

Technical
Services

Emergency
Repairs

AEPL STRENGTH



PRODUCTS & PACKAGES (DRY COOLING)

ACHE



- Air Cooled Heat Exchangers (Type-ACHE)

ACSC



- Air Cooled (Type-A Frame) Vacuum Steam Condensers

CNG COOLER



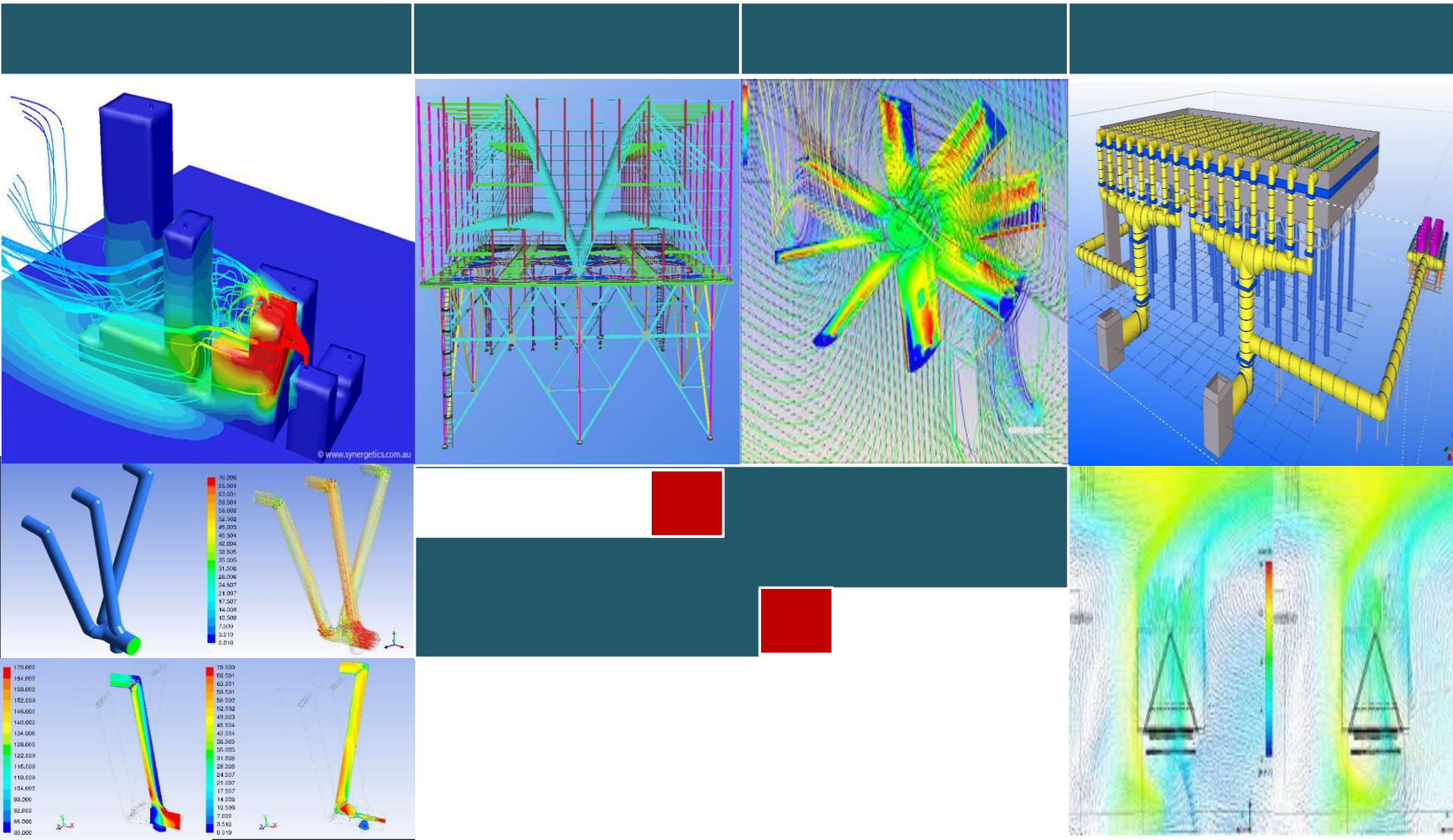
- Air Cooled Composite Coolers For CNG Packages

SCAPH



- Steam Coil Air Preheaters

DESIGN CAPABILITIES



AEPL SERVICES

- Thermal Design Services
- ACC/AFC Performance Test
- Troubleshooting
- Refurbishment & Thermal Up-gradation of Existing Cooling Towers, Air Cooled Condenser, Air Cooled Heat Exchangers, Tube Bundle Replacement



AEPL TESTING FACILITIES

Hydro Testing Bundles



Tunnel Testing



Dynamic Balancing



Static Balancing



Load Testing



Vacuum Testing



EXPOSURE TO STANDARDS/ SOFTWARES



AUTODESK
AUTOCAD
2014

AEPL MANUFACTURING FACILITIES



Assembly Shop



Drilling



Plasma Cutting



Press Break



Milling



Cutting



TIG Welding



Lathe

JOB REFERENCE



**STEAM COIL AIR PRE-HEATER
24 MW CPP AT MAYUGE SUGAR,
UGANDA**

Integrated Energy efficient Thermal Solution

JOB REFERENCE



**AIR COOLED VACUUM STEAM CONDENSER,
24 MW CPP AT MAYUGE SUGAR, UGANDA**

JOB REFERENCE



**AIR COOLED VACUUM STEAM CONDENSER,
COGEN POWER PLANT, KANCHESHWAR SUGAR, SOLAPUR**

Integrated Energy efficient Thermal Solution

JOB REFERENCE



STAINLESS STEEL ACHE,
ETHANOL DISTILLERY, SHRIJEE SUGAR & POWER LTD, BETUL

JOB REFERENCE



STAINLESS STEEL ACHE,
ETHANOL EXTRACTION, KPR SUGAR & APPARELS LTD, GULBARGA

JOB REFERENCE



MOTOR COOLER
150 KW X 4 sections



STAINLESS STEEL ACHE
ETHANOL EXTRACTION, KPR SUGAR &
APPARELS LTD,

Integrated Energy efficient Thermal Solution

JOB REFERENCE



**STAINLESS STEEL AIR COOLED HEAT EXCHANGER,
150 KLPD ETHANOL EXTRACTION, KPR SUGAR & APPARELS LTD,
GULBARGA**

JOB REFERENCE



**HIGH PRESSURE (375 BAR) CNG COMPRESSOR COOLER
WITH NATURAL GAS & OIL SECTIONS**

REFERENCE LIST OF AIR COOLED HE

REFERENCE LIST OF AIR COOLED HEAT TRANSFER PRODUCTS EXECUTED BY AEPL

CLIENT	PLANT	Products	Capacity		Number of Tube Bundles	Material of Construction	Manufacturing Year
			Flow	Pressure			
S S Engineers	Kancheshwar Sugar, Maharashtra	Air Cooled A-Frame Steam Condensers	16.41 TPH	0.18 ata	12	Carbon Steel	2020
Uttam Energy Ltd	Mayuge Sugar, Uganda	Air Cooled A-Frame Steam Condensers	30 TPH	0.174 ata	24	Carbon Steel	2021
Uttam Energy Ltd	Mayuge Sugar, Uganda	Steam Coil Air Pre Heater	13.5 TPH	0.37 ata	4	Carbon Steel	2021
Praj Industries Ltd	KPR Sugar, Karnataka - Ethanol Extractions Project	Air Cooled Condenser	13.5 TPH	0.37 ata	4	SS 304	2021
Praj Industries Ltd	KPR Sugar, Karnataka - Ethanol Extractions Project	Air Cooled Condenser	1.5 TPH	0.41 ata	1	SS 304	2021
Praj Industries Ltd	KPR Sugar, Karnataka - Ethanol Extractions Project	Air Cooled Condenser	18.5 TPH	0.17 ata	12	SS 304	2021
Praj Industries Ltd	Shrijee Sugar, Madhya Pradesh - Ethanol Extractions Project	Air Cooled Condenser	5.25 TPH	0.17 ata	4	SS 304	2021
Praj Industries Ltd	Shrijee Sugar, Madhya Pradesh - Ethanol Extractions Project	Air Cooled Condenser	3.99 TPH	0.17 ata	4	SS 304	2021
Jyotech Engineering & Marketing Consultants	CNG Filling Station	ACHE - Gas Section of CNG Compressor	0.66 TPH	255 Kg/cm ² (a)	2	Carbon Steel	2022
		ACHE - Oil Section of CNG Compressor	9.8 TPH	16.31 Kg/cm ² (a)	1		
Jyotech Engineering & Marketing Consultants	CNG Filling Station	ACHE - Gas Section of CNG Compressor	0.66 TPH	255 Kg/cm ² (a)	2	Carbon Steel	2022
		ACHE - Oil Section of CNG Compressor	9.8 TPH	16.31 Kg/cm ² (a)	1		
Jyotech Engineering & Marketing Consultants	CNG Filling Station	ACHE - Gas Section of CNG Compressor - IC1	0.57 TPH	44.41 Kg/cm ² (a)	1	Carbon Steel	2022
		ACHE - Gas Section of CNG Compressor - IC2		119.5 Kg/cm ² (a)	1		
		ACHE - Gas Section of CNG Compressor - IC3		275.5 Kg/cm ² (a)	1		
		ACHE - Oil Section of CNG Compressor	2.13 TPH	4.49 Kg/cm ² (a)	1		
T D Power Systems Pvt Ltd	Gujarat Alkalise and Chemicals Ltd	Air Cooler - CACW	24 TPH	5 Kg/cm ² (a)	4	SS 304	2022

JOB REFERENCE-CT

**FRP
Pultruded**



**Timber
CT**



**FRP
Pultruded**



**FRP
Package**



RCC



**900
CMH/Cell
Grasim-
Dehej**

**30 MW -
2500
CMH/Cell
Thailand**

**300 MH/Cell
KPR-
Gulbarga**

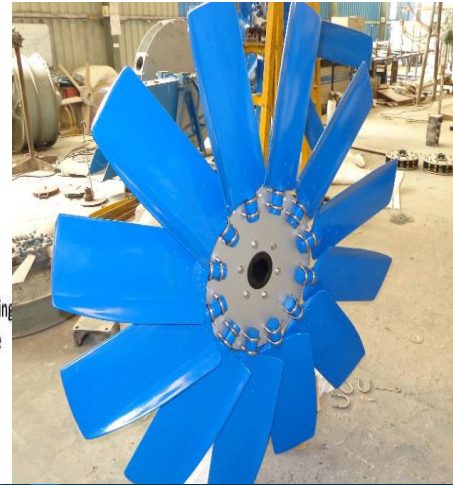
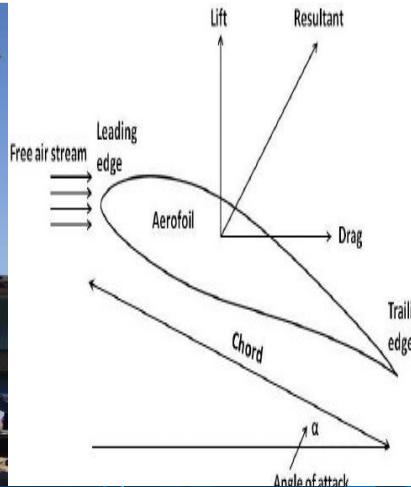
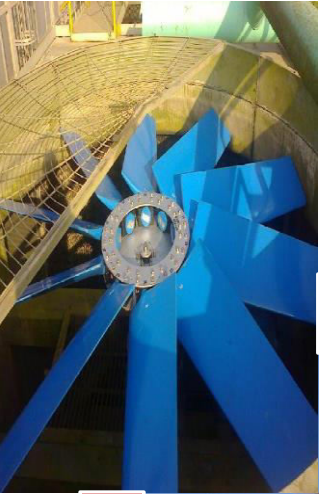
**60 TR/Cell
HAL-
Bengaluru**

**Performance
Enhancement
30 MW -2400
CMH/Cell
Vedanta-Goa**

Reference List of Cooling Tower Job

Client name	Type of Cooling tower	capacity	Years of install
ESSAR POWER	Pultrusion type counter flow (Performance upgradation)	84000 cmh(24 cell)	2013
JKL-Thailand	Wooden tower Retrofitted job	Wooden tower	2015
Vedanta sesa Goa -	Retrofitted Job	2100 CMH	2016
Grasim Industries Limited –Bharuch	Pultrusion type counter flow	900 CMH	2017
Aurobindo Pharma Limited - Pydibhimavaram	Wooden Cooling tower counter flow	2 No.s x390 CMH	2017
JSW Ltd., Bellary	RCC- Retrofitted Job	15760 CMH	2021
GAIL India Limited	FRP cooling tower for HVAC	73.5 CMH & 59 CMH	2021
GRG Composites - Kutch	FRP CT	15 TR	2021
HAL -Bangalore	FRP CT	60 TR (Execution)	2022
KPR sugar and apparels –Kalaburaghi	Pultrusion FRP CT	150 CMH(Execution)	2022
RA chem Pharma Limited	FRP CT	500 TR	2022
MSN Life sciences Pvt Ltd.	Pultrusion FRP counter flow CT	250 TR*3 No.s (Execution)	2022
BABANROA SUGARS	RCC counter flow CT	3000 CMH	2022

ENERGY SAVING Axial Flow Fans



SUPPLY OF ENERGY EFFICIENT FANS FOR REFINERIES

Client	Location	Diameter	Installed	Nos	Power Saving
RIL	Jamnagar	11 to 14 ft.	2000 to 2002	300	30 to 44%
IOCL	Baruani	8 to 12 ft.	2010 to 2013	38	30 to 38 %
IOCL	Bongaigaon	7 to 8 ft.	2015	12	28 to 35 %
IOCL	Gujarat Refinery	8 to 14 ft.	2011 to 2014	43	25 to 33%
IOCL	BEAWAR	5 ft.	2016	40	32 to 38%
IOCL	Vadinar	5 Ft	2016	44	30 to 40.42%
BPCL	Kochi	8 to 13 ft.	2011 to 2013	110	28 to 35%
CPCL	Chennai	13 ft.	2010	4	29%
NUMALIGARH	Numaligarh	7 to 14 ft.	2019	12	20%
BPCL	Mumbai	15 ft.	2020	65	30 TO 40%

Integrated Energy efficient Thermal Solution



POWER COMPANIES



OEG INDIA
OPERATIONAL EXCELLENCE
SINCE 2002



GLOBAL CLIENTS



Integrated Energy efficient Thermal Solution



SOME MAJOR CLIENTS - DOMESTIC

AEPL – GLOBAL REACH

Our Presence Worldwide



www.aeroteche.com



CONTACT US

Corporate Office

Address

214 & 215, Laxmi
Industrial Estate, Near
Dahisar Check Naka,
Mira Road (E) - 401 104
District Thane
Maharashtra, INDIA

Factory

Survey No.471,
Usar-Kondla Road,
Village: Usar - 421 303.
District Thane
Maharashtra, INDIA

 +91 22 2896 5916 / 2896 2344 / 2897 0237 / 2897 0238

 + 91 22 2896 6917

□ ceo@aeroteche.com / info@aeroteche.com

□ md@aeroteche.com / sales@aeroteche.com

□ www.aeroteche.com

Integrated Energy efficient Thermal Solution



AEROTECH ENERGY PRIVATE LIMITED

YOUR PARTNER IN GROWTH

