# COMPANY PROFILE

The Coherence of Technology

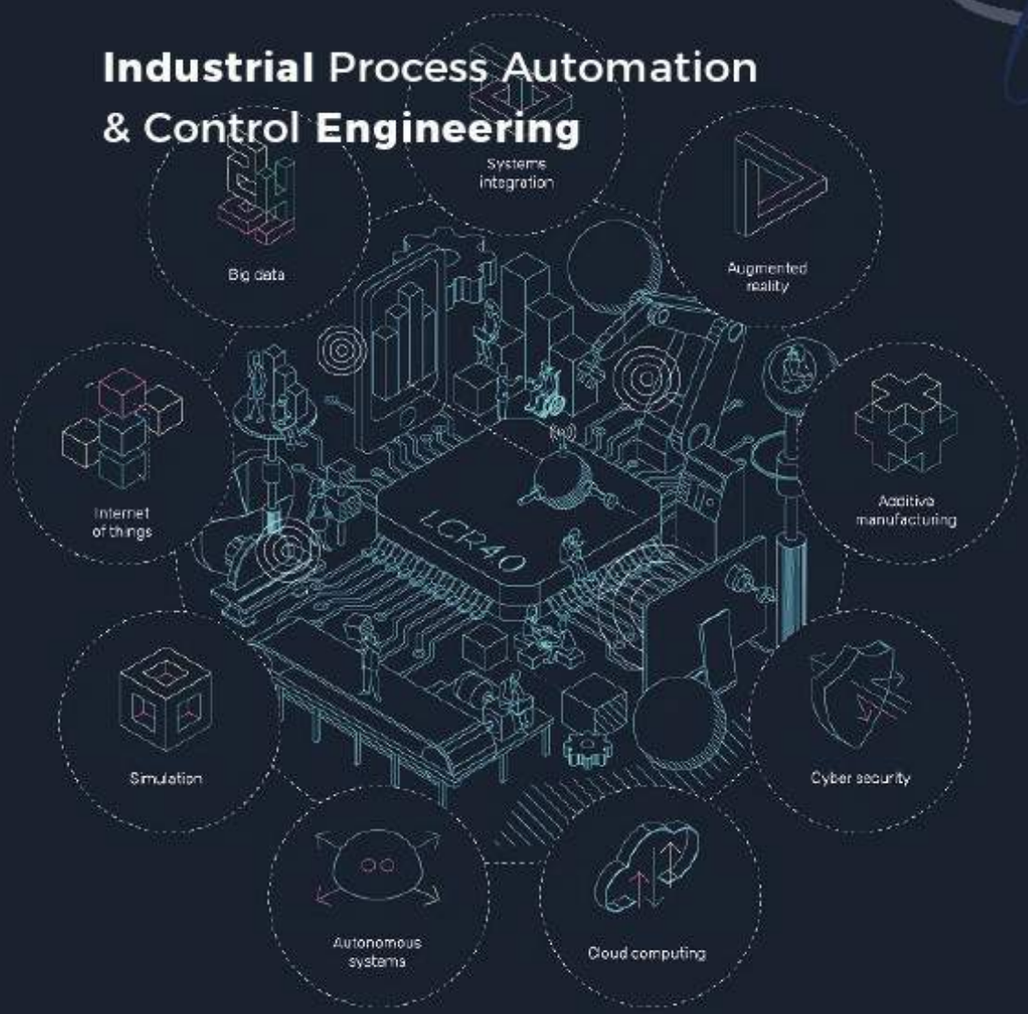
www.otae.com.bd

OTAE
The Coherence of Technology

**Energy** & **Power**

**Software** Development

**Industrial** Process Automation
& Control **Engineering**




Infrastructure **Engineering**

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OTA
The Chemistry of Technology

## CHAIRMAN'S WORDS

**OTAE** is the fastest growing Engineering, Procurement and Construction (EPC) Company in the power, energy and automation sector in Bangladesh. Our highly motivated team of engineers, designers, system integrator and suppliers with an extensive knowledge in the industrial sector paved the path of our phenomenal success story for almost a decade.

Our area of business covers electrical systems, industrial civil construction, turn key projects for making 132/33/11kV electrical substations – both indoor and outdoor types, SCADA system, tele control and automation systems, telecommunication systems and customer oriented software and application development.

Selection of right technologies, development of customer-oriented solutions based on industrial standards ensures our system to work trouble-free over the time. These features apprehend smooth transition to future expansion and seamless incorporation of new technologies.

OTAE is committed to make a positive impact on the communities where we live and work with extra focus on our environmental preferences, economic development and social responsibilities. Our goal is to make our company not only a business leader but also to be a positive enabler for the enhancement of society at large.

**WAIS MAHMOOD**

# The Optimal Track **Automation & Engineering**

## THE OTAE

We are the fastest growing Energy and Power EPC (Engineering, Procurement & Construction) Company in Bangladesh. Our business step originates from our core values of Integrity, Fairness, Accountability and Social Responsibility. These ethical sources determine our goals and vision to serve our large customer base and the world at large. Our Business group has successfully diversified product and service portfolios in different sectors through different business units during the last one decade. All our achievements would surely speak about our phenomenal success story.

The Optimal Track Automation & Engineering is a pure Technical Consultancy, Design, Engineering and Construction Company in Bangladesh, which has significant exposure in country's ever emerging Industrial sector. OTAE has exposure in construction of Light and Heavy Industries in Bangladesh.

At the moment we have associated ourselves in the emerging market of Bangladesh, with full expertise in the Area of Energy & Power, Oil & Gas and Industrial utility management system, Process Automation and building Electrical Substations, Substation Automation System (SAS), Central SCADA System with in house IT and Software development. We are dedicated to provide best possible support to our esteemed and world-class eminent customers. We have successfully performed number of projects and related works for our esteemed and eminent customers.

The **OTAE** has several partners and principals to cover all support in the field of technology like for Power and Energy market our technology partner is **EKOSinerji and METROELEKTRIK** and for **SCADA** and **SAS - OTAE** is technology partner of **Ids** GmbH and **DataWatt** Netherlands and for System Study & System Simulation for Industries and Power sector we are channel partner of **ETAP-USA( OTI).**

## **Our** Business **Area**

- **Energy & Power**
- **Software** Development
- **Industrial** Process Automation & Control **Engineering**
- Infrastructure **Engineering**

# VISION, MISSION & CORPORATE VALUES

## OUR VISION

To be the preferred Engineering Solution & Service provider, supplier as well as contractor for innovative turn-key solutions and best services using new technologies.

## OUR MISSION

To achieve total customer satisfaction

To provide distinguished services to gain desired engineering efficiency for the customers

Introduce the advance environment friendly green technologies for the customers

## OUR CORPORATE VALUE

Our belief is that OTAE 's business excellence and growth must be governed by the moral principles and the values that keep our alliance with society, with our people and with the environment unbroken.

Our corporate values, which are based on business ethics and fair conduct behavior, are the following

## BUSINESS EXCELLENCE

**"We are pursuing the continuous improvement of our performance in order to achieve optimal business results"**

- Financial soundness / High profitability
- High efficiency / Excellent result
- Competitive advantage
- Continuous progress / Innovation
- High Safety & Quality Standards

## HUMAN CAPITAL

**"Our business success is based on our people"**

- Team spirit
- Integrity
- Communication
- Professional attitude
- Health & Safety at the Workplace

## SOCIETY & ENVIRONMENT

**"We elevate our corporate social responsibility to a daily practice"**

- Socially responsible development
- Gaining the trust of the society around us
- Respecting the environment
- Safety & Environmental Conscience

# OTAE
## Groupe Management & Team

The OTAE Team has defined and created the concept of engineering specialty for Energy & Power, Heavy Industries system study, customized solution and optimization of client's needs through various engineering solution and use of advanced technology. These help customers to have smart, green and environment friendly system.

We are new but promising team as we have expertise from renowned industry sectors of power system engineering, software development, data acquisition, data analysis, expert systems and artificial intelligence.

Our team members have joined together from diverse industrial background with working experience in companies such as ABB, ERICSSON, DEWA, SCHNEIDER, BPDB, PGCB and others.

| SN. | level | Qualification | | CE | ME | EEE | CSE | IPE | Sub Total | Year's of Experience |
|---|---|---|---|---|---|---|---|---|---|---|
| 01. | Senior & Mid level | BSc Engineering | | 03 | 02 | 06 | 04 | 01 | 16 | Average 10 Year's |
| 02. | Executive | BSc Engineering | | 05 | 04 | 09 | 06 | 01 | 25 | Average 03 Year's |
| 03. | Junior Executive | Dipolma Engineer | | 08 | 06 | 11 | 09 | 00 | 34 | Average 07 Year's |
| 04. | Technichian | Basic Trade | | 16 | 12 | 15 | 15 | 00 | 58 | Average 10 Year's |
| | | | | | | Total OTAE Staff | | | 133 | |

# OTAE
# HONORARY **ADVISOR**

**Dr. Mohammad Zahidul Rahman** Ph.D.(CSE)
Professor, Computer Science and Engineering Department
Jahangirnagar University

Dr. Mohammad Zahidur Rahman is one of the honorary advisors of OTAE Bangladesh Ltd. He is fulltime Professor of CSE Department in Jahangirnagar University and visiting Professor in BRAC University, Dhaka.

Dr. Rahman completed his undergraduate and graduate degree from BUET and received his PhD from University of Malaya, Malaysia. Throughout his carrier, he was involved with computer technology based teaching and research. He has numerous publications on e-commerce, network security, software architecture, distributed system, computer graphics and artificial intelligence. He is the co-author of a book E-commerce Services and Applications- A practical Guide published in 2003.

He also served as Chairman of CSE Department both in Jahangirnagar University and in BRAC University. He was consultant to the Controller of Certifying Authority (CCA), Bangladesh. He also worked as editor of Journal of Electronics and Computer Science, Jahangirnagar University.

**Dr. Mohammad Abdul Kader Ph.D.** (Structural Engineering)
Professor, Civil Engineering Department
Dhaka University of Engineering & Technology (DUET)

Dr. Mohammad Abdul Kader is working as professor of structural engineering in Dhaka University of Engineering and Technology.

Dr. Kader received his PhD in structural engineering from Nagoya University, Japan. He is specialist in Steel and Fiber Reinforced Polymer (FRP) Structures. He is a member of Japan Society of Civil Engineers and has multiple publications on structural engineering. As a faculty member of civil engineering department, his rating as a popular professor is more than 90%. His strong inter personal communication is remarkable. He is also an honorary Advisor of OTAE Bangladesh Ltd. particularly on civil construction.

## Md Sohel Rana
Managing Director

Md. Sohel Rana is the founding member of OTAE Bangladesh Limited. As an energetic young entrepreneur he started OTAE as a design and engineering consultancy firm focusing automation and communication of Power Utilities, Heavy Industries, Oil & Gas and Water sector.
Over the time, he expanded the area of activities of OTAE in the growing market of Myanmar. At present OTAE activities are not limited to design and consultancy rather adopted the concept of EPC and Turn-Key contracting.

Md. Sohel Rana is a CS Engineering graduate from Dhaka University of Engineering & Technology (DUET) and worked for various organizations like – as Communication Engineer in ERICSON Bangladesh and Myanmar, in Dubai Electricity and Water Authority (DEWA) UAE, KORDIA SOLUTION in Australia; as Power System control, automation and communication consultant in INTEC GOPA, Germany.

## Jasper Arts
CTO

Jasper Arts is the co-founder of OTAE and working as CTO for the organization. His specialization covers the development of business software, ensure product quality and fulfill customer requirements. He also looks after the international business development for OTAE.
He is the pioneer in developing business application software through which utility managers can monitor key assets, collect field data, validate the process status and ensure the service level quality over the internet. Ensuring cyber security of such applications is also under his responsibility.
Jasper Arts earned his bachelor's degree in Operation Technology & Management and Dutch National degree in Engineering. He worked as CEO for Energy Force, as CTO for DataWatt and as Project Manager for several projects. He also worked as Engineer for Royal Dutch Navy.

## Al Mizanur Rashid
Director & Lead Architect

Mizanur Rashid is the chief programmer and software developer for OTAE. He leads the software development, testing and integration team in the sector of process automation, control engineering and IT. Fast growing business endeavors in the software and IT sectors for OTAE is at the skillful and expert hands of him.
He is the pioneer in customizing OTAE in-house product A-MECHANICS, a widely used process automation software for vehicle maintenance.
Rashid is a CS Engineering graduate from Dhaka University of Engineering & Technology (DUET) and worked for A7 Power – consultant to Ministry of Energy. He also worked for AMAN Group of Industries.

# THE **OTAE** TOUCH

OTAE transforms industries with second generation technology to industries with third or fourth generation technology ensuring green, smart and energy efficient system. Team of OTAE is capable to work for artificial intelligence engineering and cyber physical system. Our focuses are for:

**We Do EPC For**

## Energy & Power

- Energy & Power System Study, Design & Audit
- Transmission & Distribution Sub Station System (HV,MV & LV)
- **SAS, SCADA, Smart Grid & Protection system**
- Renewable & Sustainable Energy
- Enterprise/Data Center Power System

## Software Development

- Embedded System Design
- Business Automation/ERP
- Customize Utility Control Systems
- Computer Clouding

## Industrial Process Automation & Control Engineering

- Oil & Gas Process Plant Automation
- Water Automation
- Heavy Industrial Automation
- Building Automation

## Infrastructure Engineering

- Design, consultancy, Engieering and Construction of Civil , Steel and Electromechanical Infrastructure
- Energy Efficient CHP Co-Generation process plant
- CPS-G4 Based Green Industries and commecial building
- IT & Telecommunication Infra Structure

# **OTAE** Energy & Power

**The Ultimate Power Solution**

**OTAE** is one of bangladesh's most growing design consultancy and **EPC** contractors, covering with its projects the entire energy chain – from power generation to transmission, distribution and supply

Over the year, **OTAE** is striving to become key **EPC** Contractor in environment friendly projects. OTAE can successfully develop industrial power system, automation and SCADA. Installation, testing and commissioning of electrical substations for power utility at different voltage levels are also our area of expertise. Our teams of Engineers are experienced in the field of advanced technology with the support from world renowned technology partners like **EKOS** Group, **Metro** Electric, **IDS, DataWatt, ETAP** and so on.

**OTAE can deliver turnkey solutions according to client's need. Our business field covers:**

- **Energy & Power System Study, Design & Audit**
- **Transmission & Distribution Sub Station System (HV,MV & LV)**
- **SAS, SCADA, Smart Grid & Protection system**
- **Renewable & Sustainable Energy**
- **Enterprise/Data Center Power System**

## **Energy & Power** System Study, Design & Audit

OTAE is a multifunctional engineering and technology organization to provide premier consulting services exclusively for the electric power industry. most of otae engagements are per diem, best effort contracts with an agreed upon scope of work, schedule, set of deliverables and budget limit.

**Our Service Areas:**

- **Area Of Study**
- **Function Of Study**
- **Tool's & Software**
- **Industrial Energy Audit.**

## **Area** Of Study

| | |
|---|---|
| Distributed Generation Integration | Strategic Assessment |
| Network Studies | Voltage Control And Reactive Power Studies |
| Fatal Flaw Studies | Site Assessment |
| Feasibility Studies | Interconnection Studies |
| Expert Testimony | Model Development |

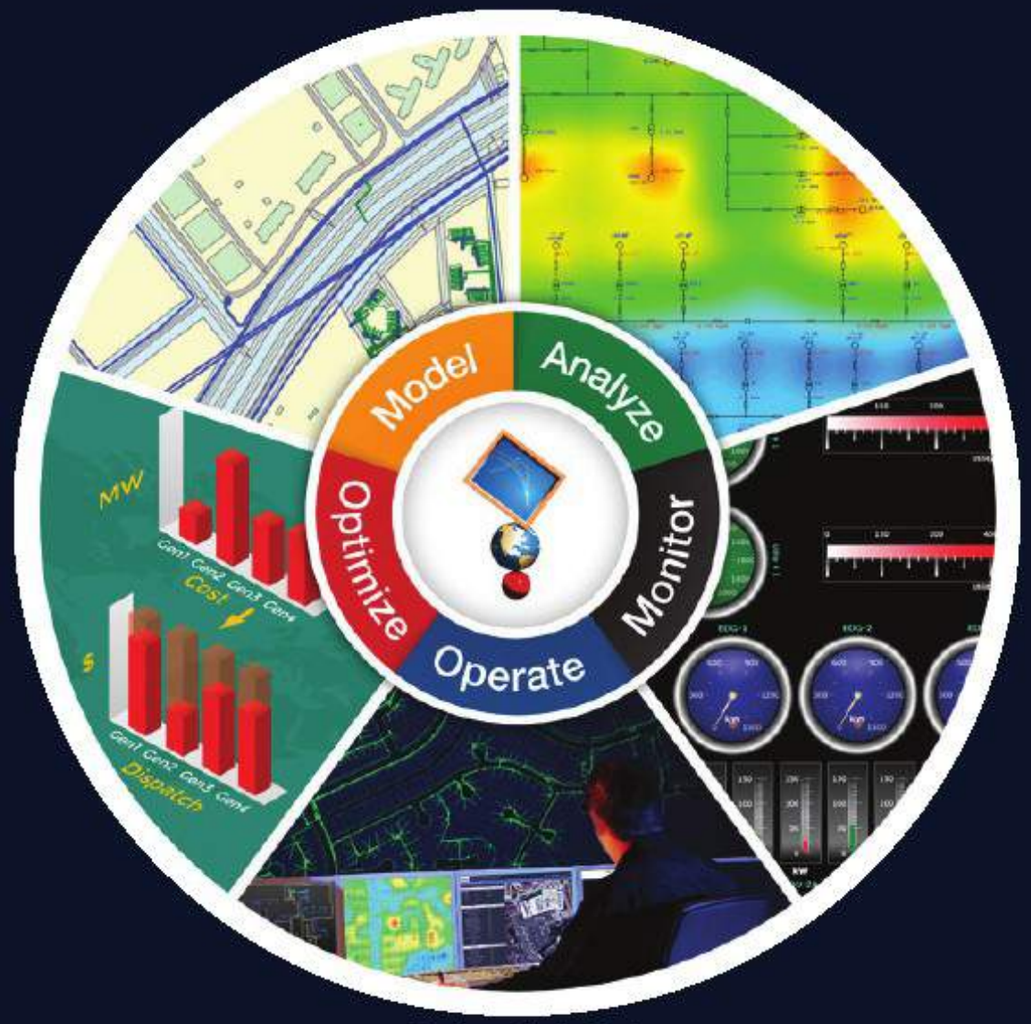
## **Analytical** Study

| | |
|---|---|
| Power Flow Analysis | Short Circuit Analysis |
| Dynamic Simulation | Electromagnetic Transient Simulation |
| Harmonics Analysis | Flicker Analysis |
| Relay Cordination | Insulation Co-ordination |
| Capacitor Sizing | Switching Analysis |

## **Tool's** & Software

**OTAE** will apply the appropriate in-house or commercial software to various engagements. in-house software are developed for specific purposes and can be configured for particular applications.our expertise in commercial software include

*etap*




System Study Tools

# ENERGY AUDIT

| | |
|---|---|
| Reduced energy consumption | Accurate quantity and quality |
| Purging of energy wastage | Reduce OPEX |
| Saving outage | Increase in process output |
| Safe working environment | Green Industry |
| Maintain Industrial Standards's | Purging of energy wastage |

## SAS, SCADA, Smart Grid & Protection system

The **OTAE** is the first ever and leading designing, engineering & integrator of the utility system control and data acquisition **SCADA**, sas and protection control system in bangladesh market. **OTAE** supports these processes with products and systems of **ETAP** solution for electrical & power system and stream for water automation and **IDS** gmbh for protection control system.

## IDS ACOS 300 Protection System

Short circuits and earth faults do not only lead to grid outages and, consequently, incalculable risks, but also cause damage to switchgear and, in the worst of cases, to persons. More than ever, efficient solutions for protection and control are required to meet these and other challenges that have arisen from the injection of renewable energies into the power grids.

The **ACOS** 300 protection devices from **IDS** offers reliable protection for medium- and high-voltage grids and installations, including their operation and monitoring.

# OTAE
# POWER
# SOLUTION

**OTAE** Is Introducing High Range Of MV & LV Substation For Industries And The Utility With Ekos Group Of Turkey.Also Do Service Of Design, Supply , Installation & Testing Commissioning Of HV, MV & LV Substation of AIS & GIS up to 33KV

We have full range of product of AIS , GIS, Metal Clad and Hybrid Switch gear with Oil type and cast resign distribution and power transformer up to 20/26 MVA.

**Substation:**

High Voltage & Transformer.
High Voltage & Low Voltage Module.
High Voltage Module.
Transformer Module.
Medium & Low Voltage Module.
Low Voltage Module.

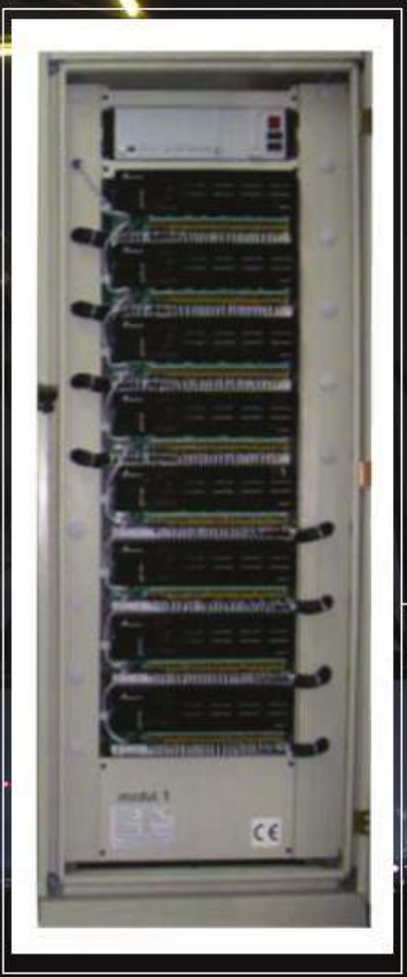
**Fixed Type Transformer Substation LV & MV**

Underground Substation.
Semi Underground Substation.
Ground Substation.
Ai1 Mobile Substation On Skid

# OTAE POWER SOLUTION

**MV Product's**

GIS Switchgear ( Primary).
Gas Insulated Switchgear ( Secondary).
Gas Insulated Switchgear (Compact).
Air Insulated Switchgear.
Metal Clad Switchgear.
Vacuum Circuit Breaker.
SF6 Circuit Breaker
LBS

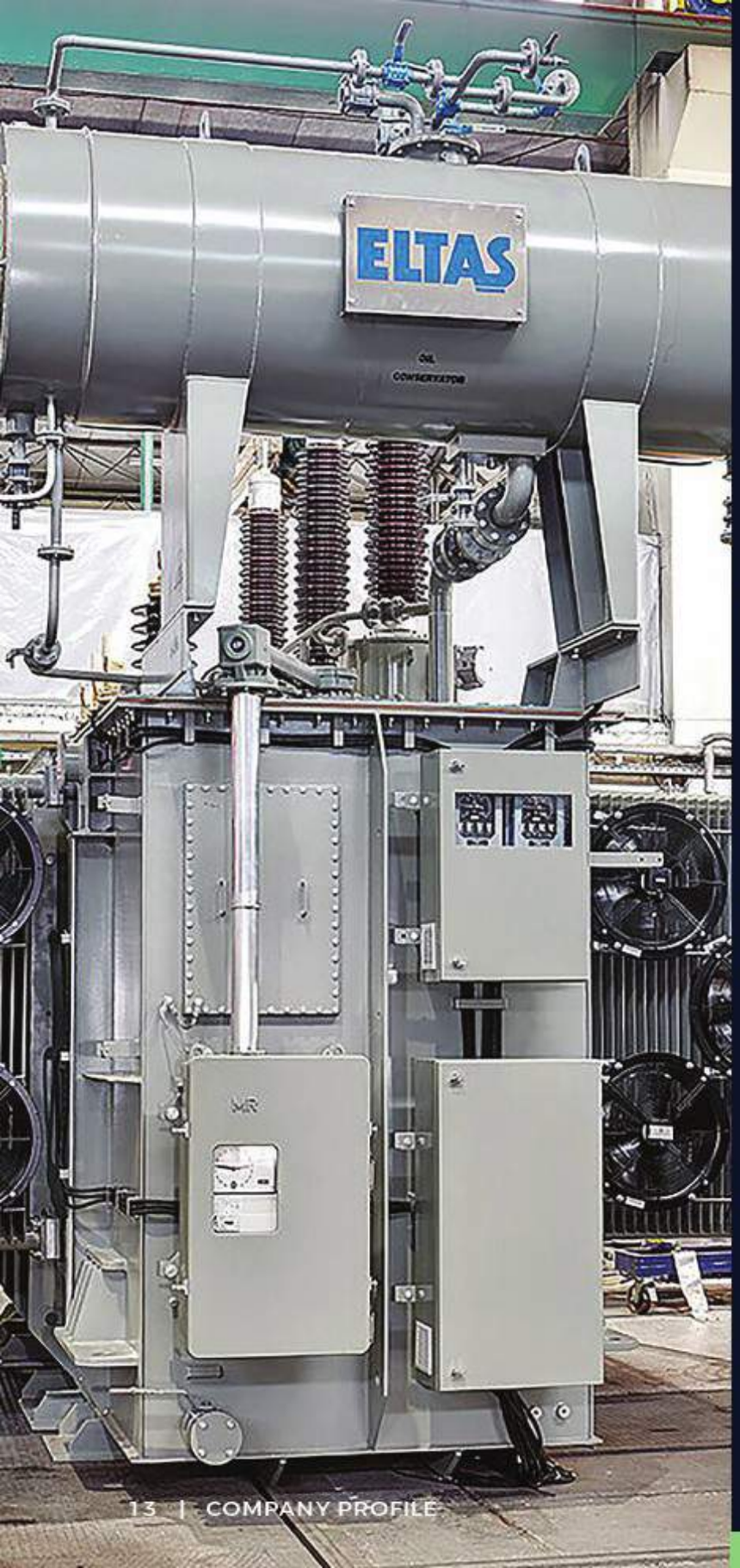


**Substation Control & Automation:**

SAS61850
SCADA System
Automation and Tele-control
Protection Equipment( Relay)
RTU & PLC

**Secondary Panel**

Protection Control Panel.
Auxiliary Service Panel.
LT Switchgear Panel.
HT Switchgear Panel
PFI




# Power **Transformer**

OTAE Bangladesh is a local technology partner of the famous branded Transformer company ELTAS from turkey. The ELTAS Strengths are unique engineering and design feature and flexibility to meet all the customer requirements.Every transformer is designed according to its required specification and its application.

**Dry Type Transformer**

- Oil-Immersed Transformer
- Dry Type Transformer
- Special Transforemer
- Oil Treatment Plants

**Products:**

- Power Transformer up to 250 MVA.
- Generator Step-up Transformer
- Auto Transformer
- Multi-winding auto and separate winding transformer
- Shunt Reactor

# AUTOMATIC CIRCUIT **RECLOSER**

- 15kV and 27kV systems
- Up to 800A Six (6) voltage and three (3) current sensors built in (Loop Scheme Ready)
- Magnetically actuated vacuum interrupters
- Tested to 30,000 CO operations at full load
- Maintenance free and light weight
- 5-year warranty

# **Sustainable** And Renewable Energy

From lanning, permitting to engineering, procurement, construction and maintenance, The OTAE Projects Group is capable to provide custom turnkey solutions for a variety of solar energy projects around Bangladesh. As a joint venture partner, we offer PV System from EKOS Group and system study, design, modeling of PV generator and grid interconnection studies from ETAP. Recently we have delivered and commissioned 8 MW Sympa Solar Grid power plant for Tetulia.

**PV Array & Solar Panel**

Solar penetration studies
Generation Management System
Wind Turbine & Solar Panel performance monitoring
Prediction of system response to operator actions

**Wind Turbine Generator**

Grid interconnection studies
Wind farm collector system design
Wind penetration studies
Solar farm collector system design

# **Enterprise/Data Center** Power System

**Explore our power solutions:**

Power Distribution Network for Enterprise Edition
Backup power / UPS
Hybrid Power Pack ( SOLAR+DG+ONGRID) System

# Substation

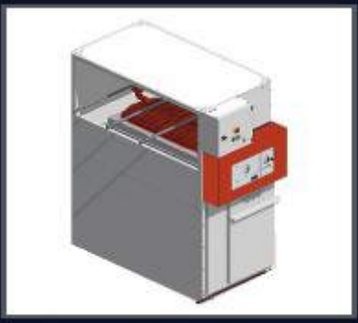
# POWER **PRODUCTS**

GAS INSULATED SWITCHGEAR (PRIMARY)

OIL TYPE TRANSFORMERS

DRY TYPE TRANSFORMERS

GAS INSULATED SWITCHGEAR (SECONDARY)


AIR INSULATED SWITCHGEAR

METAL CLAD SWITCHGEAR

VCB

ACB

BBT

MPR-2 SERIES NETWORK ANALYZER

HIGH VOLTAGE DROP OUT FUSE

CENTRE-BREAK DISCONNECTORS

CT PT

POWER CAPACITORS

INSTRUMENT TRANSFORMER

AVR

FTU

ATS

CIRCUIT BREAKERS LOW VOLTAGE

TRANSFORMERS IQ

PANEL ENGINEERING

MCC PANEL

LV DISTRIBUTION PANEL

SOFT STRATER

# OTAE
# SOFTWARE **DEVELOPMENT**

**OTAE starts with the premise that most businesses need outside support in finding the right service providers for their specific needs. It is hard for a company to keep up with ever changing landscape of energy & power , infrastructure engineering and utility management system for high technologies industries based on process automation engineering and the system is more dependent on software and otae is one of the high tech.**

**Company provides unbiased consulting services that assist executives in managing their business costs and decisions. As an objective agent, we help to customise your needs with specific solutions that fit the size and budget of your company based on "We design as you Demand".**

| | |
|---|---|
| Design Development of System Software | Design & Developing Commercial Software |
| IoT Based SCADA & BMS | Cloud Based ERP |
| Ai & Robotic | Utility Management System( EPC) |

# **OTAE** SCADA SOLUTION

The OTAE is the first ever and leading Designing , Engineering & Integrator of Supervisory Control And Data Acquisition (SCADA) system for Utility in Bangladesh Market.

OTAE supports these processes with products and systems of Data Watt NL for:

- Distribution Automation & Waste Water Transport
- Pump-station Automation & Steam Process automation
- Control of Treatment Plants & Surface Water Management
- Bridges, Gates and Locks & Water Quality Monitoring
- Irrigation Systems & Tidal Gate Control
- Fire & Safety automation and control
- Building automation system (BAS/BIS) for industries to monitor all utility system

# Our Products

## A-Mechanics

Considering Bangladesh automobile market and vehicle business, from import, sale, service and maintenance both the trader and users are in dilemma. We OTAE took initiative and emphasized the need of a virtual vehicle maintenance system and developed the application software A-MECHANICS. This can be very useful for automobile traders as well as for workshop owners. Track record of every vehicle will be just a few clicks in the system.

## Feature:

Automobile Workshop requirement based service software
Easy management of vehicles maintenance and services
Sales, spares, services, inventory account, HRM – all are in a single software

## OTA-E Accounts & MIS

Business accounts control and monitoring is vital for any organization. OTAE has introduced a fully dynamic business accounts management and control solution for industries, and Project managers. Enterprise edition of AFC is a smart ERP solution with the option of optimization based on customer needs.

## Feature:

Accounting
HRM
Project Management
Asset Management
Inventory Control
Cloud based integration and operation

## SCADA Solution

OTAE works for design, supply and integration of SCADA system for Industries and Utilities. We are official partner of world renowned ETAP-USA in Bangladesh. For electrical and energy SCADA solution we have partnership with IDS Germany and for Water SCADA with DataWatt Netherlands.

## Features:

Seamless integration
Robust client / server architecture
Multi-redundant system
Scalable modular design
ODBC / SQL compliant database
Enterprise-wide access
Multi-tiered user access management
ISO 9001 A3147 certified
Hardware independent

# **Industrial** Process Automation & Control **Engineering**

The unique skill required to excel in the field of Automation & Control are best exemplified as we successfully support clients in the sector ranging from electrical, water, Oil&Gas. Environmental Monitoring system including Building Automation solution for Industries and commercial business complex.

Last 4 year's we have been working for various private and government organization in this sector like DHAKA WASA, RPGCL, PADMA OIL, BABYLON GROUP and so on.

**Oil & Gas Process Plant Automation**

**Water Automation**

**Heavy Industrial Automation**

**Building Automation**

## OIL & GAS

We provide services on Engineering and Technical part in various light & heavy industries in Bangladesh.

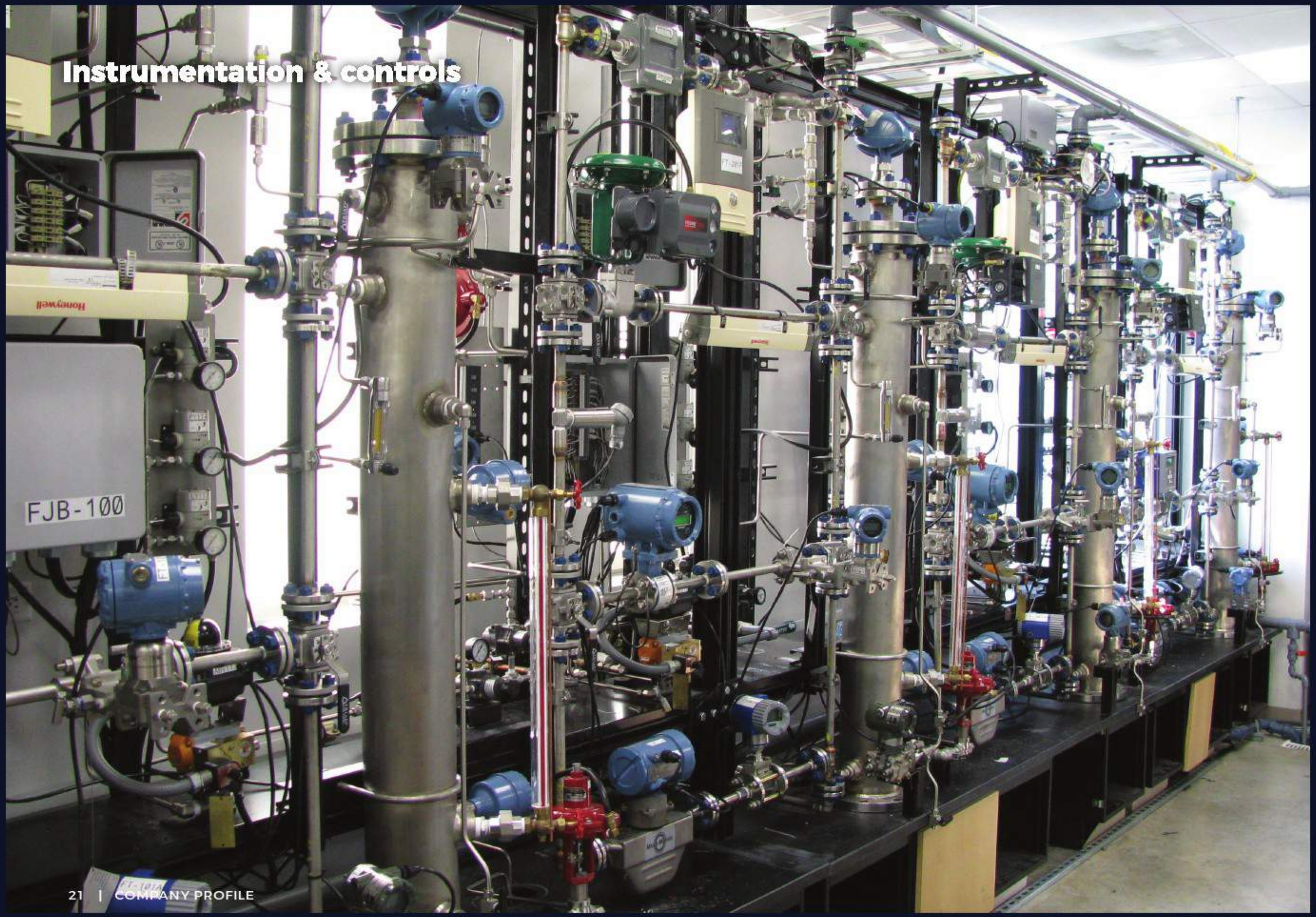
We have our full range of machines, equipment, tools and manpower to provide support & services in erection, fabrications, Installation and commissioning of Oil & Gas Tanks, Piping System, its fittings with accessories and Instrumentations & Controls solutions.

# Smart Water Engineering

**OTAE** is the only company in Bangladesh who introduced smart water engineering control and monitoring system and manage the water network for DHAKA WASA with the partnership with famous water operator VEI from Netherlands. Considering the preciousness of water, OTAE offers smartly managed system for water production and distribution.

1. Energy Efficiency Production
2. Right Scheduling of production based on demand
3. Centralised control Water SCADA system
4. Monitoring hydrostatic water level and etc

# Instrumentation & controls



# Automation & Control **Products**

PLC

¿RTU

HYDROSPIN

VALVE POSITIONER

ULTRASONIC FLOW METER

WATER FLOW METER

CONTROL VALVE

STEAM FLOW METER

DIFFERENTIAL PRESSURE TRANSMITTER

GAS REGULATING VALVE

LEVEL TRANSMITTERS

LEVEL SWITCHES

SUBMERSIBLE LEVEL TRANSMITTERS

OIL TRANSFER PUMP

DIESEL FLOW METER

VFD

SUB MEARSIABLE PUMP

CONTROL PANEL

LIMIT SWITCH

GAS PRESSURE REGULATOR

IP CONVETAR

AIR FLOW METER

PRESSURE REDUCING VALVE

FIRE DETECTION

# Infrastructure **Engineering**

**Infrastructure**

The OTAE ensures the perfect engineering design of the industrial buildings, best solution and service for customer to get right infrastructure as required with reference guide line of USGBC and endure to reduce carbon footprint and go Green strategies.

The OTAE services include **Survey, Design, Supply and construction of Smart Buildings by its in house team like : Design, Consultancy, Survey Engineering and Construction of**

- **Civil , Steel and Electromechanical Infrastructure**
- **Energy Efficient CHP Co-Generation process plant**
- **CPS-G4 Based Green Industries and commecial building**
- **IT & Telecommunication Infrastructure**

# **Energy Efficient** CHP Co-Generation

CHP is an energy efficient technology that generates electricity and captures the heat that would otherwise be wasted to provide useful thermal energy—such as steam or hot water—that can be used for space heating, cooling, domestic hot water and industrial processes. CHP can be located at an individual facility or building, or be a district energy or utility resource. CHP is typically located at facilities where there is a need for both electricity and thermal energy.

## COMMON CHP Configurations:

**The two most CHP system configurations are:**

- **Combustion turbine or reciprocating engine, with heat recovery unit**
- **Steam boiler with steam turbine**

# The Area OTAE Surveyor Run

Licensed Professional Land Surveyors by the perform field work, office calculations and drafting
Statewide experience in ANCSA allotment, and rectangular surveying

- Geotechnical Surveying
- Topographic Digital Surveying
- GIS Mapping
- Hydrographic Surveying
- Construction Surveying
- Civil Design Surveying

Global Positioning System, Robotic Instrument, and Digital Leveling services
Full Hydrographic Vessel setup -- Side Scan Sonar available, R.O.V. available
Current or historic AutoCAD data output.
Very knowledgeable of local government entities, construction companies, and logistics
Experienced local employees.
Have been hired repeatedly by the same clients for years and would be happy to provide references

## Survey Engineering Tool List

TIDE MASTER
AOTT THALIMEDES

CURRENT METER
AEM213D JFE

WAVE RECORDER
AWAC

TOTAL STATION
SOKKIA

GARMIN
ATLAS DESO 15

WATERPASS
SOKKIA

GARMIN
GPSMAP 1020

GPS GEODETIC
TRIMBLE/GEOMAX

CURRENT METER
VALEPORT 106

WAVE RECORDER
SBE

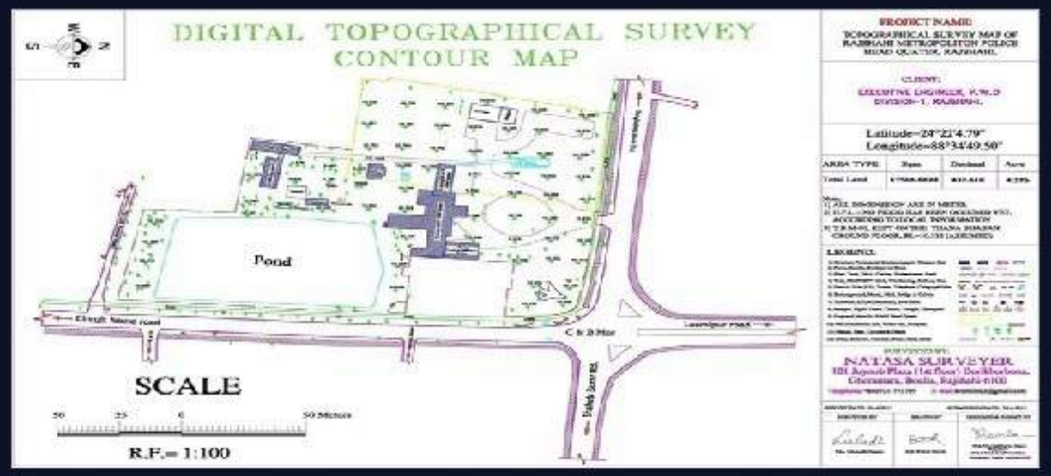
WEATHER STATION
OREGON/DAVIS

RTK GPS
TRIMBLE/GEOMAX

## Project Reference for Survey Engineering

- **Khulna Kustia 33/11 kV GIS Substation Survey**
- **Savar 132/33 kV AIS Substation Civil Design Survey**
- **Padma Oil JT at Kanchan Hydrographical Survey**

- Drinking Water Supply Project Phase -3 Barindra Development
- Extension Of Irrigation facilities by increasing availability of surface water and removing water logging in NAOGAON District under Barindra Development
- Rain Water conservation & Irrigation Project Phase-II (RWCIP)
- Surface water argumentation project (SWAP)
- Integrated Agriculture Development Project(IADP)



# CPS-G4 Based Green Industries/Building

OTAE Controls has set the standard in the industry for innovative, cost-effective, and truly open building and energy management systems that help increased operational savings and sustainability throughout the lifecycle of industrial facilities. Our commitment to open protocols, industry and IT standards, combined with our best of breed to reach LEED certified Industry or complex.

OTAE building automation and energy management innovations provide a complete solution for unifying HVAC, lighting, shades/sunblind, access control and CCTV, and energy management . OTAE Controls and unique solutions are based on providing results for industrial buildings to:

**Environmental Benefits:**

- Reduce wastage of water
- Conserve natural resources
- Improve air and water quality
- Protect biodiversity and ecosystems

**Economic Benefits:**

- Reduce operating costs
- Improve occupant productivity
- Create market for green product and services

**Social Benefits:**

- Improve the quality of life
- Minimize strain on local infrastructure
- Improve occupant health and comfort
- Achieving the Goals of Green Building

**Social Benefits:**

- Improve the quality of life
- Minimize strain on local infrastructure
- Improve occupant health and comfort
- Achieving the Goals of Green Building

OTAE Represent the **technology of Distech Control from USA**

# Telecommunication
## And IT Infrastructure

Design, Engineering and construction of Telecommunication Infrastructure

- SCADA Transmission Network
- Tele Protection Communication
- Design , Engineering and Optimization RF Network
- Hybrid Telco Power solution and smart Grid Integration

**Telecommunications**

- Core
- DWDM
- IP/MPLS

**Access**

- SDH/PDH, OTN, carrier Ethernet
- SDH radio
- xDSL
- Satellite communications, VSAT
- Point-to-point microwave radio
- U/G, ADSS & OPGW Fiber optics Network, LoRA,

**Last mile**

- Point-to-multipoint wireless broadband, LTE
- GSM-R
- GPRS
- VHF/UHF land mobile radio, DMR
- Digital/analog trunked radio--TETRA, P25, MPT1327
- VHF ground-to-air radio
- VHF marine radio
- EPIRB, AIS, SART
- Non-directional beacon
- HF-SSB radio

- PA/GA, intercom/paging
- LAN/WAN
- PBX/telephony, hotline, DECT
- Structured cabling, outside plant cabling
- Network monitoring & management
- Master/slave clock
- Weather monitoring

**Industry-specific solutions**

- Digital power line carrier, teleprotection
- Automatic train protection, operation & supervision
- Onboard multimedia information

**Associated solutions**

- UPS, solar power, power generator
- Earthing/grounding
- Active/passive/hybrid cooling shelter
- Tower/pole

# HEAVY INDUSTRIAL **PRODUCTS**

**RACK MOUNTED DC POWER SYSTEM**

**MOV**

**HVAC**

**AUTO TANK GAUGING**

**FIRE FIGHTING AUTOMATION SYSTEM**

**FIRE PUMP**

# HEAVY INDUSTRIAL **PRODUCTS**

**GENERATOR**

**BOILER**

**CONDENSATE RECOVERY SYSTEM**

**GAS BOOSTER COMPRESSOR**

**CHILLER**

**LIFT**

# **OTAE** Sustainability **Platform**

## SOCIAL RESPONSIBILITY

OTAE is committed to the principle of sustainable development. The company strives for business excellence together with transparency and accountability towards society, the environment and its people. In addition, OTAE invests in creating a "social product" that promotes the values and synergies among individuals and societies.

The last few years, the company has actively supported Dhaka WASA through VEI to control and monitor ground water which is really crucial for environment also reducing the carbon footprint by energy saving technology.

## BUSINESS EXCELLENCE

All actions taken to achieve Business Excellence are bound to top quality standards' products, environmental sustainability and occupational health and safety. As a responsible corporate citizen, dedicated to promote ethics and morals across its business operations, OTAE is planning the following initiatives in cooperation with national l institutions:

**UN Global Compact: a strategic policy initiative for businesses that are committed to align their operations and strategies within ten universally accepted principles in the areas of human rights, labor, environment and anticorruption.**

**OTAE's high quality operations are assured through the application of comprehensive Quality systems for which the Company has been following:**

- **Quality Management System according to EN ISO 9001 : 2008**
- **Environmental Management System according to EN ISO 14001 : 2004**
- **Health and Safety Management System according to OHSAS 1800 : 2007**

## ENVIRONMENTAL IMPACT

Within its business operations as a whole, OTAE not only strive to ensure that the company operates within the terms of the applicable legislation but also actively looks for opportunities to improve its overall environmental performance.

In this context, OTAE invests in projects such as energy efficiency improvements and evaluates partners and suppliers based on their environmental sensitivity and certifications.

# **OTAE** COMPLETED PROJECT **Reference**

## Water SCADA Solution
## DHAKA & CTG WASA

## 132kv Substation Bay Extension
## PGCB

**The ALIF & MEEM Industrial Complex G+5 Floor Turnky Project, Rajshahi**

Distribution  Control Panel
DBG Sugar mill

Inter Tank Transfer Pipe Line
RPGCL

# OTAE Projects

132 Kv Substation Bay Extension, PGCB

8 MW Sympa Power On Grid Solar plant Study , Design and Consultancy

Distribution Control Panel, DBG Sugar mill

System Study And Energy audit with safety and compliance, CWASA

Industries Business Complex Turnkey Project, ALIF & MEEM

Paper Mill Turnkey Project, WEB-COATS

Inter Tank Transfer Pipe Line, RPGCL

Water SCADA Solution, DHAKA & CTG WASA

Deep Tubewell Turnkey Project, DHAKA WASA

ETP Management System, BABYLON GROUP

Industrial Cooling system Design Manufacture, supply, BSRM

Pipeline and Steel structure design , supply and erection, MAHMUDA Chemical

Prebid design & study JET A1 fuel plane accessories supply, installation ,testing and commissioning.

A-Mechanics Micro ERP software project for Automobile garaging

## Clients

## Partners

## Sister concern

**OTAE Bangladesh Limited**
Flat-4D & 4B, TA – 203, Rubi Ameana South Badda, Gulshan,
Dhaka – 1212, Bangladesh.
+88029882818 +8801767696529
info@otae.com.bd
www.otae.com.bd