



ZAHRAT ALHIBAA
TECHNICAL SERVICES

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TECHNICAL SERVICES
DUBAI



AHMAD
TRADING LIMITED

AHMAD TRADING LTD
ISTANBUL



COMPANY
PROFILE



About Us

As a startup, we are committed to delivering tailored consulting services that meet the unique needs of each client, helping them to achieve their strategic objectives in an increasingly competitive and dynamic environment.



Mission

We envision a future where Ahmad Import and Export and ZATS Co. operating in diverse sectors, admired for its unwavering commitment to integrity, innovation, and customer-centricity. By 2025, we aim to create and sustain an ecosystem where values drive our actions, our services provide unparalleled quality, and our relationships become the cornerstone of our success

Vision

To create a legacy of excellence, innovation, and sustainable growth in every industry we touch. We are dedicated to delivering top-tier services, building visionary Infrastructure, contributing positively to the communities we serve and delivering Trust.





Global Reach & Local Expertise

Our operations span continents, but we always bring a deep understanding of the local landscape. The unique synergy of our global reach and local expertise enables us to adapt seamlessly to the specific requirements of each project or client, no matter where they are located

Innovative Solutions

In the ever-evolving business environment, innovation is not just a choice; it's a necessity. We're proud of our ability to offer innovative solutions that not only meet immediate requirements but also anticipate and prepare for future challenges. This commitment to staying ahead of the curve is part of our DNA.



Sustainability & Responsibility



We work with organizations to streamline their operations, reduce costs, and improve productivity. Our experts analyze existing processes, identify inefficiencies, and recommend best practices that lead to increased efficiency and improved bottom-line performance.



Market Research

We provide deep market insights through comprehensive research and analytics. Our team delivers actionable data that helps clients understand market trends, customer behavior, and competitive dynamics, enabling them to make informed decisions and stay ahead of the curve.



Why Choose Us?

Expertise:

Our team comprises seasoned professionals with deep expertise across various industries, ensuring that our clients receive the highest level of service and insight.

Innovation:

We stay ahead of the curve by continuously exploring new technologies, methodologies, and market trends to provide cutting-edge solutions.

Client-Centric:

We prioritize our clients' needs, working collaboratively to deliver solutions that are not only effective but also aligned with their strategic goals.



CEO's Message



The existing stock of natural capital must be maintained and enhanced because the functions it performs cannot be duplicated by manufactured capital.

Unplanned developmental activities as well as the ever-increasing population have caused enormous strain on environmental resources and hence societies across the world face several problems of environmental degradation. This task can be achieved through the application of sustainable development/utilization mechanisms which are based on scientific principles of the environment.

The world is in a constant state of flux, with businesses adapting and evolving to meet the demands of an ever-changing landscape. Yet, at the heart of our enduring success lies a steadfast commitment to our customers and an unwavering dedication to excellence.

Since our inception, we have consistently demonstrated our commitment to delivering exceptional performance with integrity. Day by day, we strive to enhance and perfect our services to meet the evolving needs of our clients., our vision for 2030 is both ambitious and attainable, and I am proud to have the wholehearted support of our dedicated team. With the guidance of the Almighty, we are diligently working towards becoming an organization driven by our values and vision. By focusing on strategic priorities, redefining our business model, and strengthening our core competencies, we aspire to create immense value for our customers, employees, vendors, and shareholders.

Our values serve as the compass, guiding our actions, both as individuals and as a team. They form the bedrock of our vibrant culture at Zahrat Alhibaa contracting and Ahmad Trading Co's, where our passion, energy, and unwavering execution enable us to achieve victory every day. I would like to express my heartfelt gratitude to our incredible team, whose unwavering dedication makes our company a truly exceptional place to work. Together, we are committed to building a brighter and more prosperous future. I invite you to explore the diverse services and solutions offered by

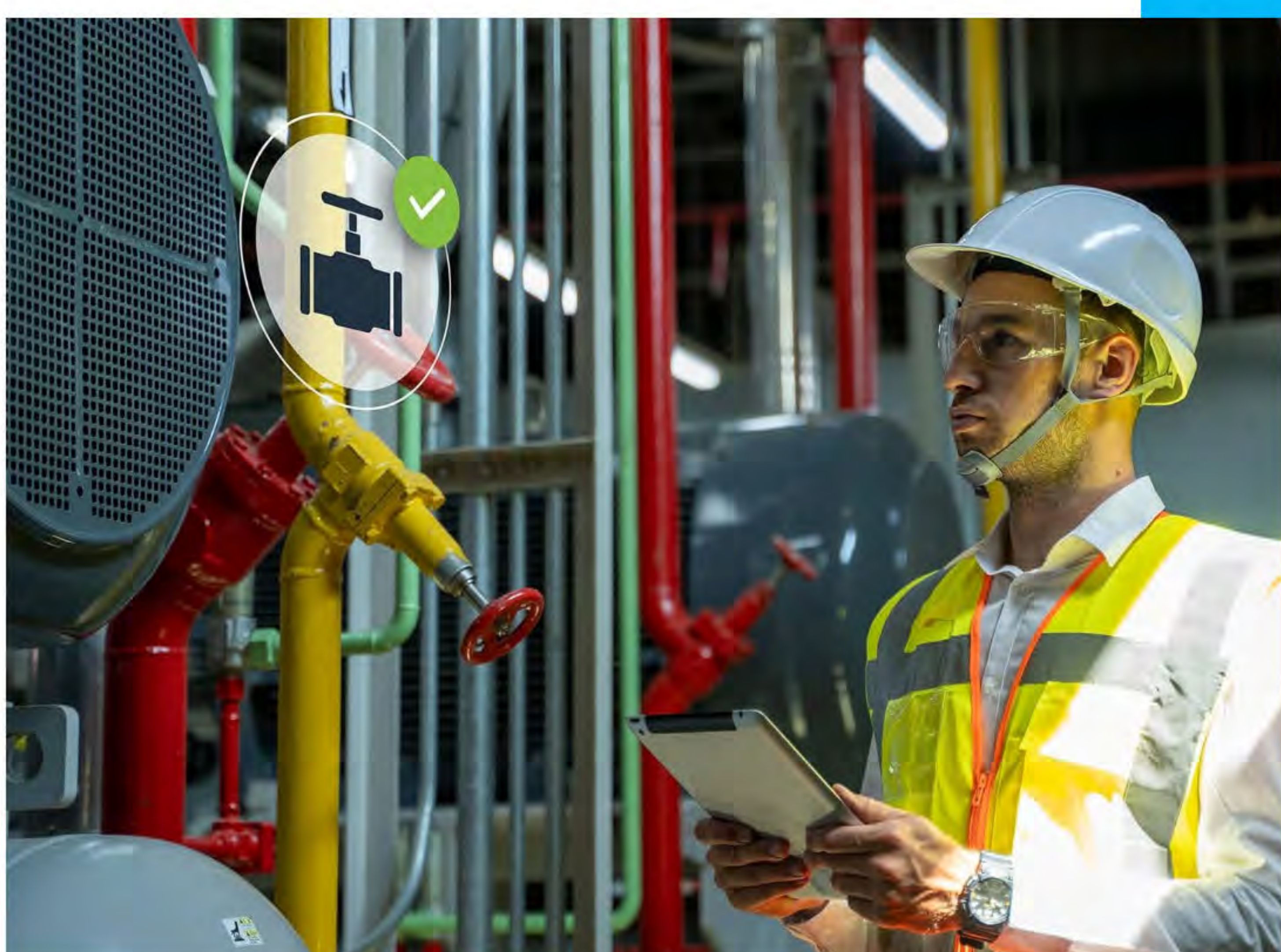
With sincerity and gratitude,

Shahzada Hussain CEO

Ahmad Trading Limited & Zahrat Alhibaa Contracting



Our Services



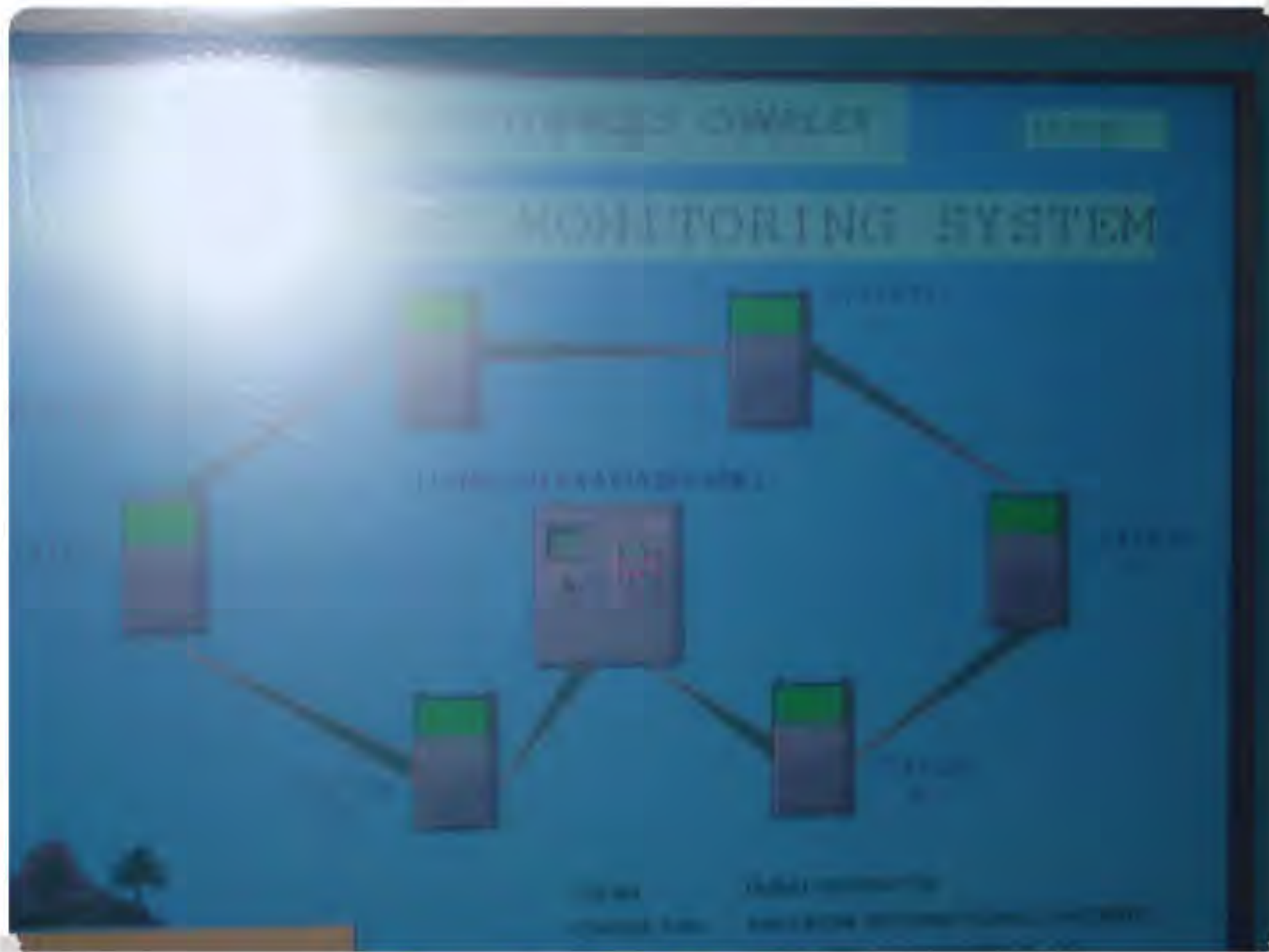
MEP & AUTOMATION CONTRACTING

we work across many industry verticals and have supported many key stakeholders in the Middle East and Other parts of the world in these verticals i.e We are MEP turnkey contractors with specialty and grade A classification in HVAC, MEP Building, and Infrastructure, Renewable energy, Automation, and energy conservations applications. our portfolio is focused on medium-large scale projects with build-to-suite mandates and build-to-suit qualities, we have been successful in supporting multi-departmental, in- house client-age of our various departments of Emirates Transport as well as serving all the major developers operating within the UAE. we are working in line with The aspirations of Estidama regulations (Abu Dhabi based) are incorporated into Plan 2030 and other urban Planning Council PC) policies such as the Development Code, it aims to create more sustainable communities, cities, and global enterprises and to balance the four pillars of Estidama: environmental, economic, cultural and social. we offer Design, Construction, Upgrading the existing facilities, and Operation & Maintenance in the fields of HVAC, Mechanical, Electrical, and Plumbing (MEP) services to the building Construction and infrastructure, utilities, and industrial sectors in the United Arab Emirates (UAE). Our services have evolved over the years to include turn-key Engineering, Procurement, and Construction (EPC) projects, Integrated Facilities Management Services, and various specialized services in areas such as solar systems, building Retrofits, Water conservation implementation, Telemetry & SCADA control systems, and Building Management System (BMS) operations

Our Services

MEP INFRASTRUCTURE CONTRACTING

We are proud to introduce ourselves as one of the Growing Infrastructure and Building Electro Mechanical Automation Trading and Contracting Company in the UAE and Turkiye markets undertaking diverse projects in Automation, HVAC, Electrical and Plumbing and Fire fighting. The strength of The company is construction of Pumping Stations, and Networks: We specialize in the design, construction, and maintenance of various types of Pumping Stations and Rising Main networks. This includes Sewerage Pumping Stations, Portable Water Transfer and Booster Pump Stations, Irrigation Pumping Stations, Combine Fire & Irrigation Pumping Stations Closed Loop Pressurized Networks, and Rising Main and Gravity Networks. We are pioneers in designing and implementing remote control and monitoring system for combined and individual networks and rising mains. Electrical & Street Lighting Works: Our electrical services encompass a broad spectrum. We manage LV/MV Distribution Cabling Networks, 11 KV and Pocket Substations, RMU, Transformers & KWH Meters. We are experts in Tunnel and Under bridge Lighting Systems, Street Lighting Works, both with conventional and LED luminaries. Telemetry & SCADA Control Systems: We implemented PLC/RTU-based Telemetry and SCADA control systems, offering full control and monitoring features as per customer demands. Our expertise in instrumentation includes power and control cabling for Electromagnetic flow meters, Actuated Gate/Butterfly valves, Ultrasonic and Hydrostatic level transmitters, Hydrocarbon Analyzers, Float switches, Pressure, Temperature, and Flood sensors/Transmitters. Our Remote Terminal Unit is used for monitoring and controlling Odor control systems, WWTP's, and various pumping stations from a centralized facility. We also provide BMS and Access control systems with smart sensors. Waste Water Treatment and Recycling Systems:



Pumping Stations (Civil & MEP)



Telemetry & SCADA Control Systems



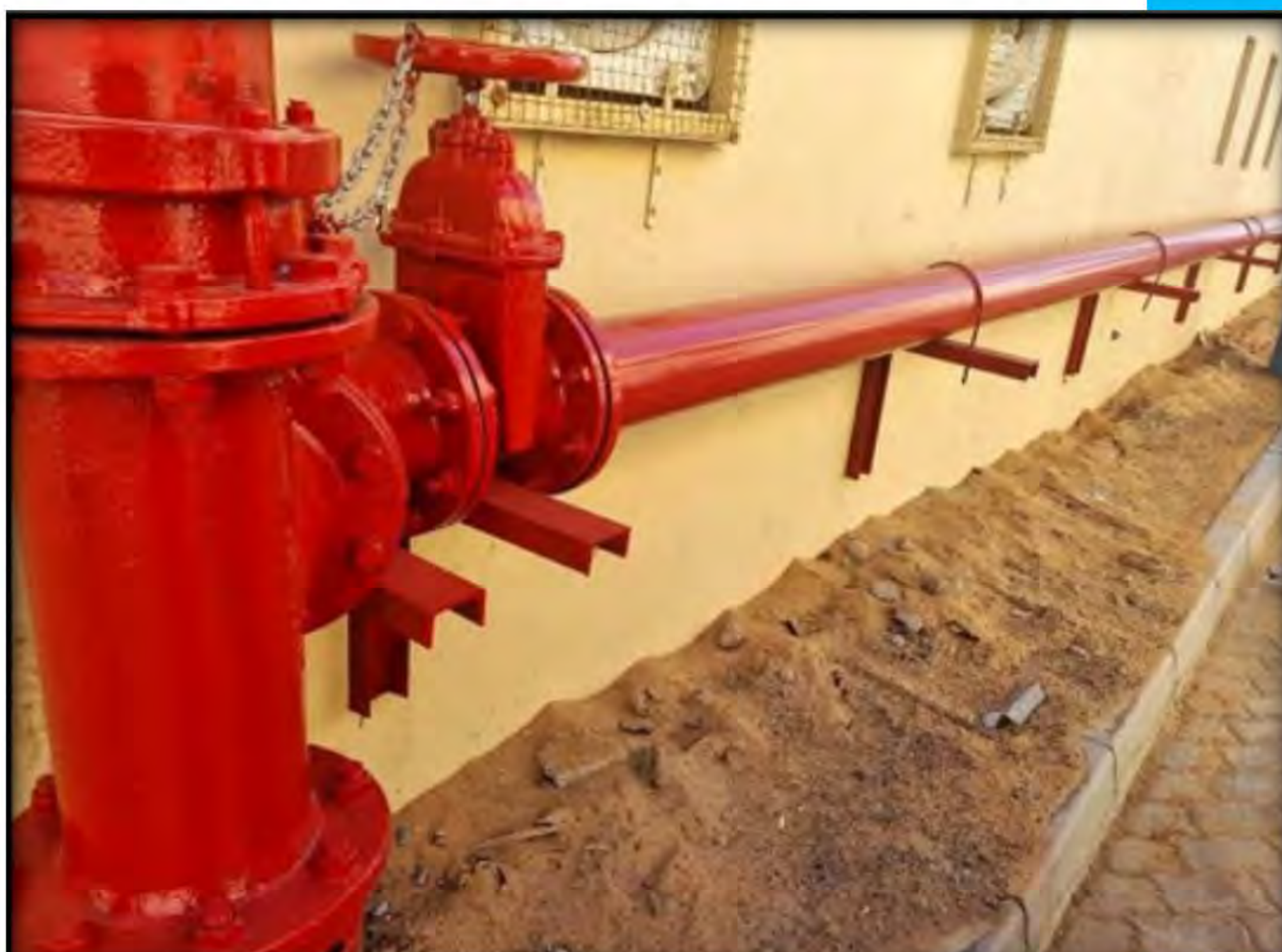
Electrical & Street Lighting Works



PV Solar Systems & applications



Our Services



MEP & AUTOMATION CONTRACTING

- o Design, supply, installation and maintenance of all kinds of HVAC and Plumbing System.

- o Design, supply, execution and maintenance for all kinds of Electrical projects.

- o. Green building construction and management – Smart home Solutions

- o. Design and installation of ELV System

- o. Engineering Product Trading

- O. Buildings, Sub Stations and Data centres, offices, shopping malls, water treatment plants, Pumping Stations, Scada telemetry enabled Rising mains/gravity mains, workshops, Petrochemical plants (borouge-3) and Power plants(ksa Projects) with Scada system

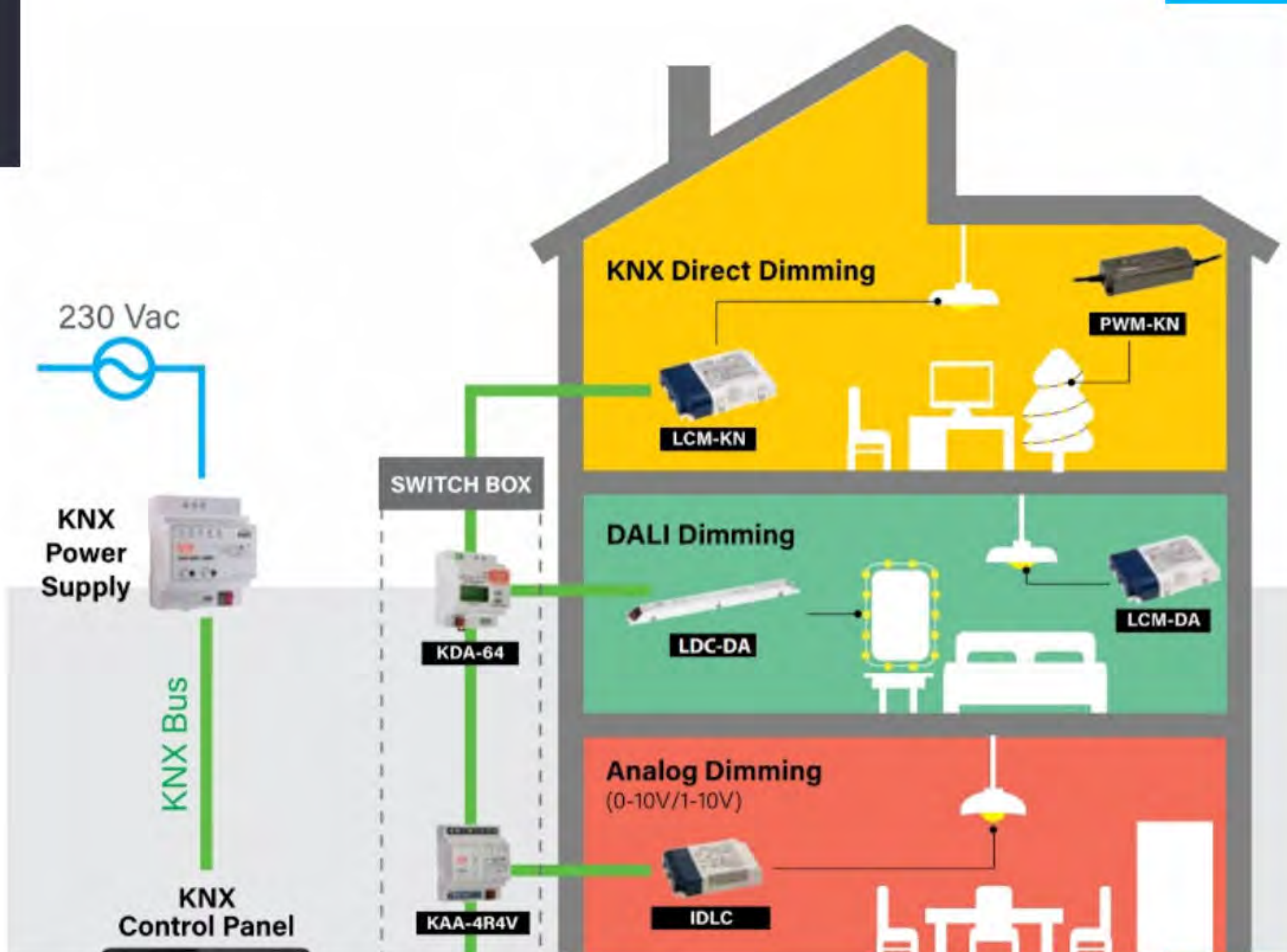
- o. Building Maintenance. o Interior Fit-Out Works

- o. we specialize in Automation, HVAC, Electrical and Plumbing, and Firefighting solutions. We provide specialist Information Technology and Security Solutions in a wide range of products and services including IT Equipment, IT Services, Telephony, CCTV, Access Control, Road Barriers, Smart Homes and Green Energy and Our IT Services and Solutions, includes structured Cabling, Home and Business Grade Wireless Solutions for Data and Voice, Microsoft Software and Server Sales and deployment Services.

- o. Annual Maintenance Contracts The Key to maintain is to have periodical preventive support with minimal cost. we cater Buildings & Infrastructure projects including Annual PPM Planning, RM, CM, reliability centred and Predictive Maintenance etc SLA's are tailor made according to each case separately and it is subject to client's approval and billed accordingly

Green Building and Sustainability, Building Construction & Infrastructure utilities Services

- Smart energy services
- HVAC design and build Renewable energy Design, Supply, Installation
- Smart Chillers starting from 5 TR capacity
- Sustainable Air Handling units
- Building automation
- Smart Solar Peltier efficient solutions
- Smart VFD's and Solar inverter pumps
- Smart services for solar power plants
- Smart services for pumps
- Smart services for chiller compressors.
- Critical Asset Monitoring.
- Hydrogen Plant installation
- Bio-Diesel plant installation
- Energy Auditing and accounting, Building Automation implementation.
- Lighting control Systems, Motor and Drive Systems, Control Systems,
- Building envelope, Generators, UPS, FA/FF and Security Systems
- Waste water recycling plants
- Industrial coolant recovery recycling plan "RECOOL"
- Agriculture and irrigations systems
- CARANDINI interior and exterior lights
- Energy Auditing and accounting, Building Automation implementation, Lighting control Systems, Motor and Drive Systems, Control Systems, Building envelope,



ALHIBA Energy

Revolutionizing Solar Power Efficiency

Our Prototype project integrates Peltier technology with photovoltaic solar panels to enhance energy production efficiency, especially in high-temperature climates. Traditional solar panels experience efficiency losses as surface temperatures rise. Our innovative approach prevents this issue and significantly improves performance.

Understanding Peltier Technology

The Peltier effect is an electronic mechanism that generates DC voltage from a temperature difference. When electricity is applied, one side heats up while the other cools down. While Peltier technology is continuously improving, we have leveraged its capabilities to enhance solar energy efficiency by converting excess heat into electricity.

Challenges with Traditional Solar Panels

Photovoltaic solar panels typically have an efficiency of 22% under optimal conditions.

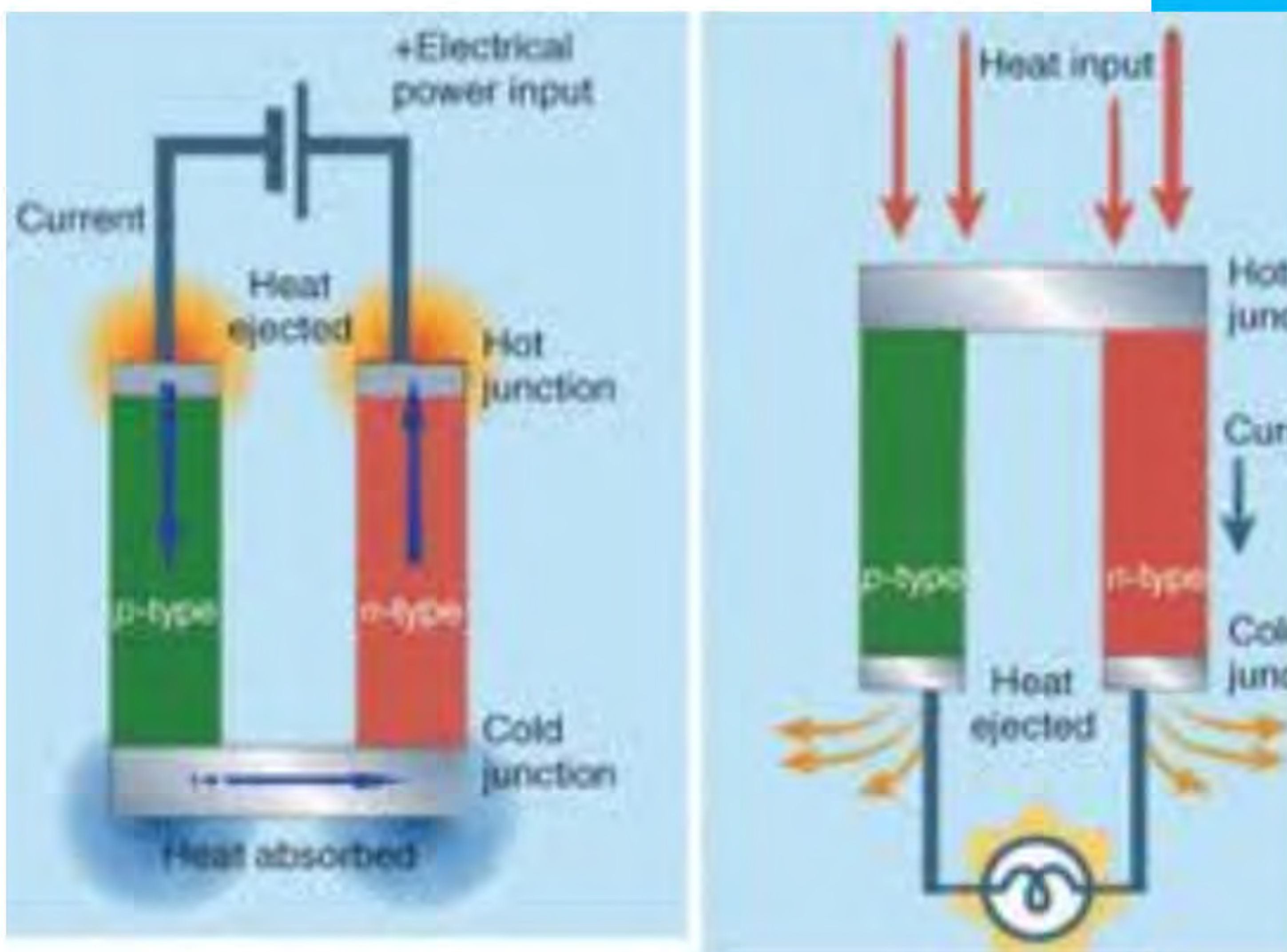
However, real-world efficiency is often lower due to heat buildup on the panel surface.

In hot and desert climates, where air temperatures exceed 25°C, solar panels overheat, leading to reduced energy output.

Our Innovative Solution

Our system integrates Peltier devices to maintain optimal panel temperatures, ensuring maximum efficiency. Key benefits include:

- ✓ Prevents overheating of solar panels.
- ✓ Efficiency never decreases with rising air temperatures—instead, it can increase up to 90% by converting heat into electricity.
- ✓ Generates electricity even at night without sunlight.
- ✓ Extends the lifespan of solar panels by preventing thermal degradation



Our Innovative Solution

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Generates electricity even at night without sunlight.

Extends the lifespan of solar panels by preventing thermal degradation.

System Components

Solar Panel – Captures sunlight and generates electricity.

Peltier Assembly – Mounted behind the solar panel to convert excess heat into electricity.

Water Tank – Placed behind the Peltier assembly to absorb and store heat.

Hot Water Tank – Stores heated water for potential use.

Plumbing & Pump System – Circulates water to maintain cooling.

PLC Control Unit – Automates system operations for optimal performance.



How It Works?

Peltier modules are connected in parallel and series, placed between thin copper plates.

The Peltier assembly is securely attached to the back of the solar panel.

A water tank (equal in size to the panel) is mounted behind the Peltier assembly.

As sunlight heats the panel, the Peltier modules convert excess heat into electricity.

The transferred heat is absorbed by the water tank, keeping the panel cool.

The Result?

Consistently high solar panel efficiency, even in extreme heat.

Increased energy production—up to 90% efficiency improvement.

Electricity generation even at night.

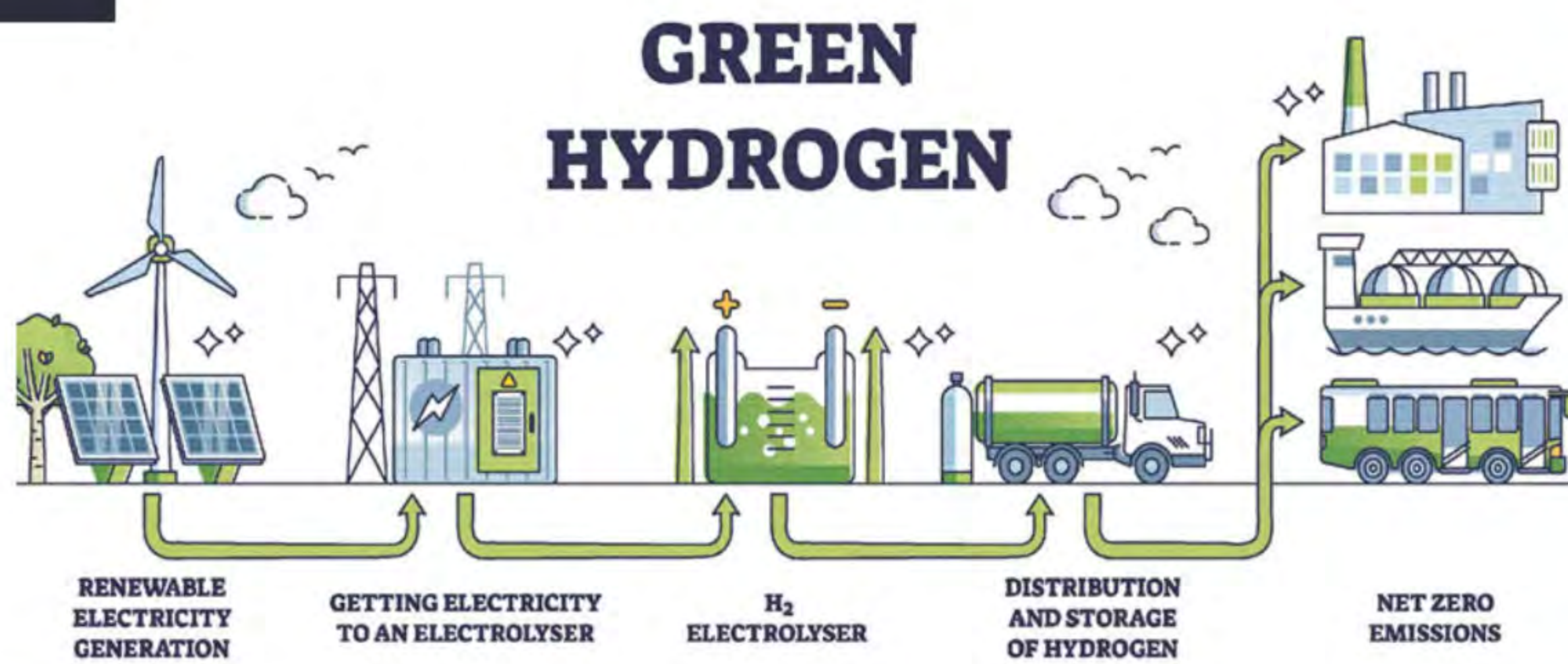
Longer-lasting, more reliable solar panels.

This breakthrough redefines solar energy efficiency, making solar power more viable in high-temperature regions while enhancing sustainability



Green Hydrogen Solutions

We produce fuel from water.



Alhibaa Technical Services, based in Dubai, is a sister concern of Ahmad Trading, Türkiye, Istanbul. We specialize in supplying advanced and Price competent hydrogen reactors in collaboration with our Turkish manufacturing partner, BBDS

Our parent company based in Istanbul has been producing cutting-edge electrolysis reactors, with exports to the USA for the past five years. We continue to drive innovation through strategic collaborations with the University of South Florida, constantly enhancing our technology.

Revolutionizing Energy – "We Burn Water"

At Alhibaa, we produce green hydrogen and oxygen by breaking down water through advanced electrolysis technology. Our patented aqueous-type electrolysis reactors are the only ones of their kind in the world, enabling industries and individuals to generate clean fuel from water—free of cost. Global Reach & Commitment to Sustainability; With a strong manufacturing base in Türkiye, we proudly distribute our electrolysis machines and industrial electrolysis devices worldwide. Our mission is to accelerate the adoption of clean energy, reduce dependence on fossil fuels, and make hydrogen-based fuel accessible to all. Innovation & Quality: Powering a Sustainable Future; Driven by innovation and an unwavering commitment to quality, affordability we empower businesses and individuals to live every moment to the fullest—through sustainable energy solutions that redefine the future of fuel.

Waste water recycling system

The water discharged from a wastewater treatment system, treated to reduce the concentration of any substance or organism that may be detrimental to public health or the environment and made suitable for reuse State of the art technology fully integrated with current environment.

The objective & purpose to implement a comprehensive Water recycling system since the environmental laws are becoming more stringent and now soak ways are not allowed for oily waste water, thus increased disposal charges could be avoided by implementing. Objective to safely and efficiently recycle vehicle wash water, to be reused again for the wash operation, The recycling unit should be capable of delivering the flow continuously to the wash unit during the operating hours of the wash operation according to best practice Technology to ensure, Conformance to General requirements of Municipalities and Water & Electricity departments

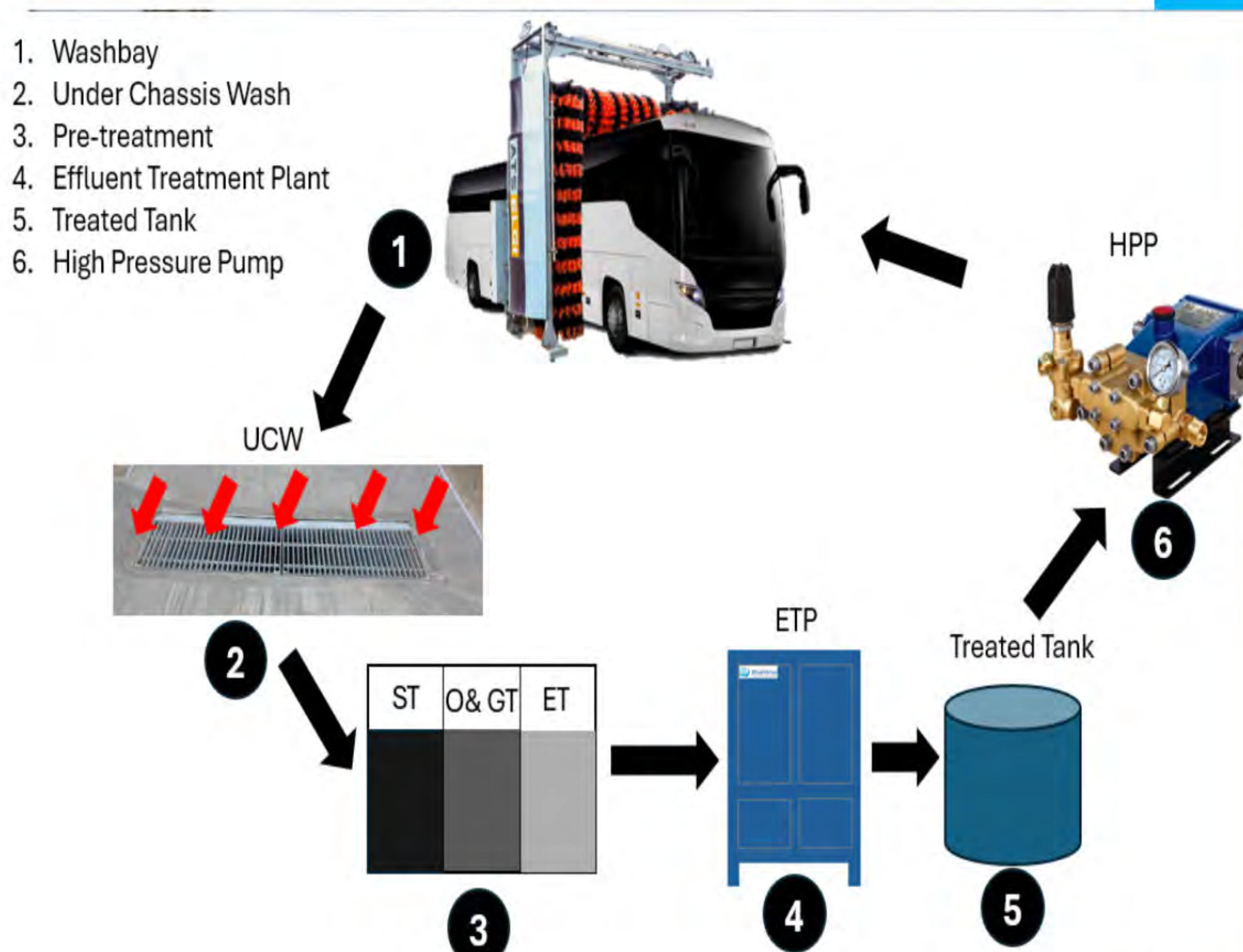
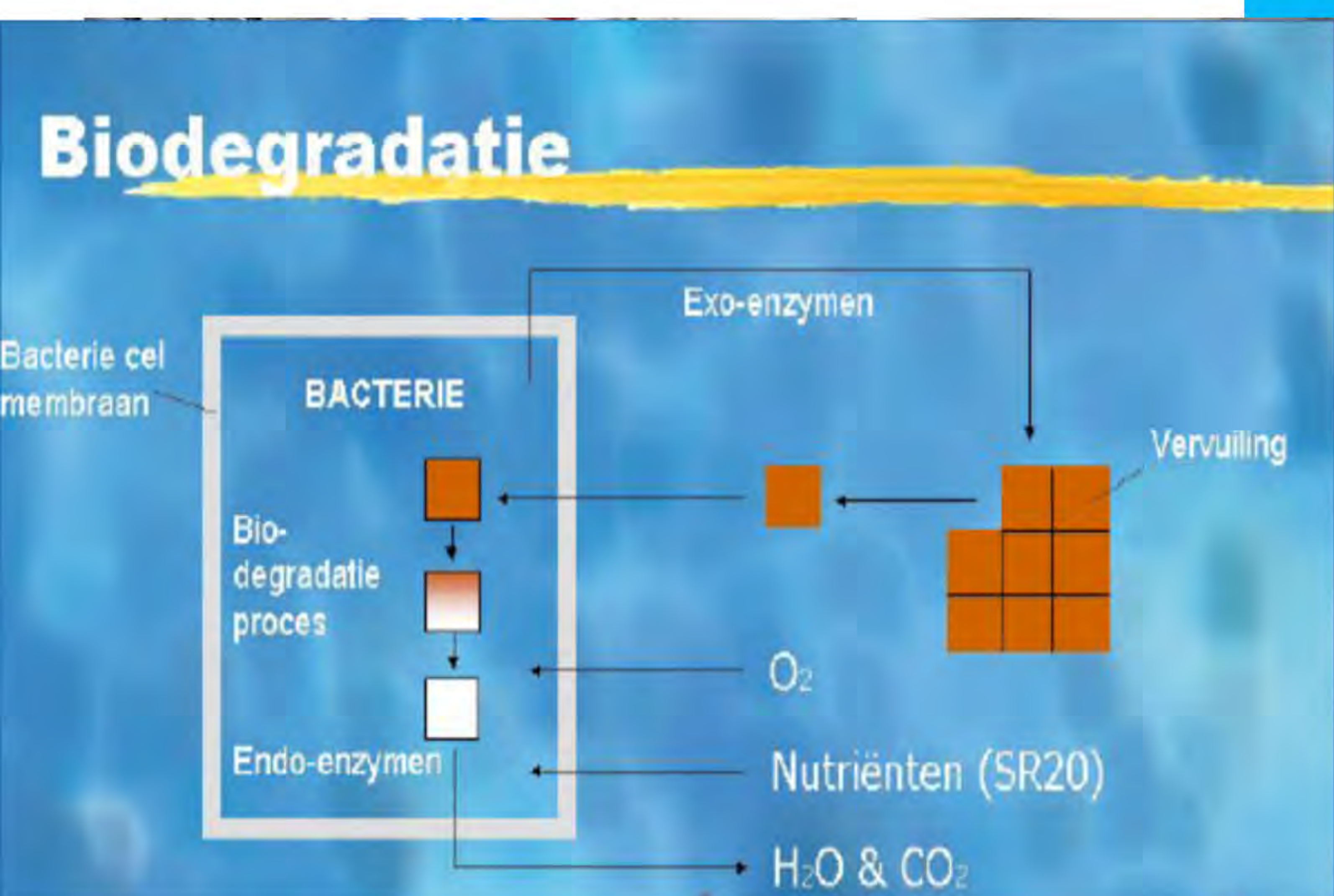
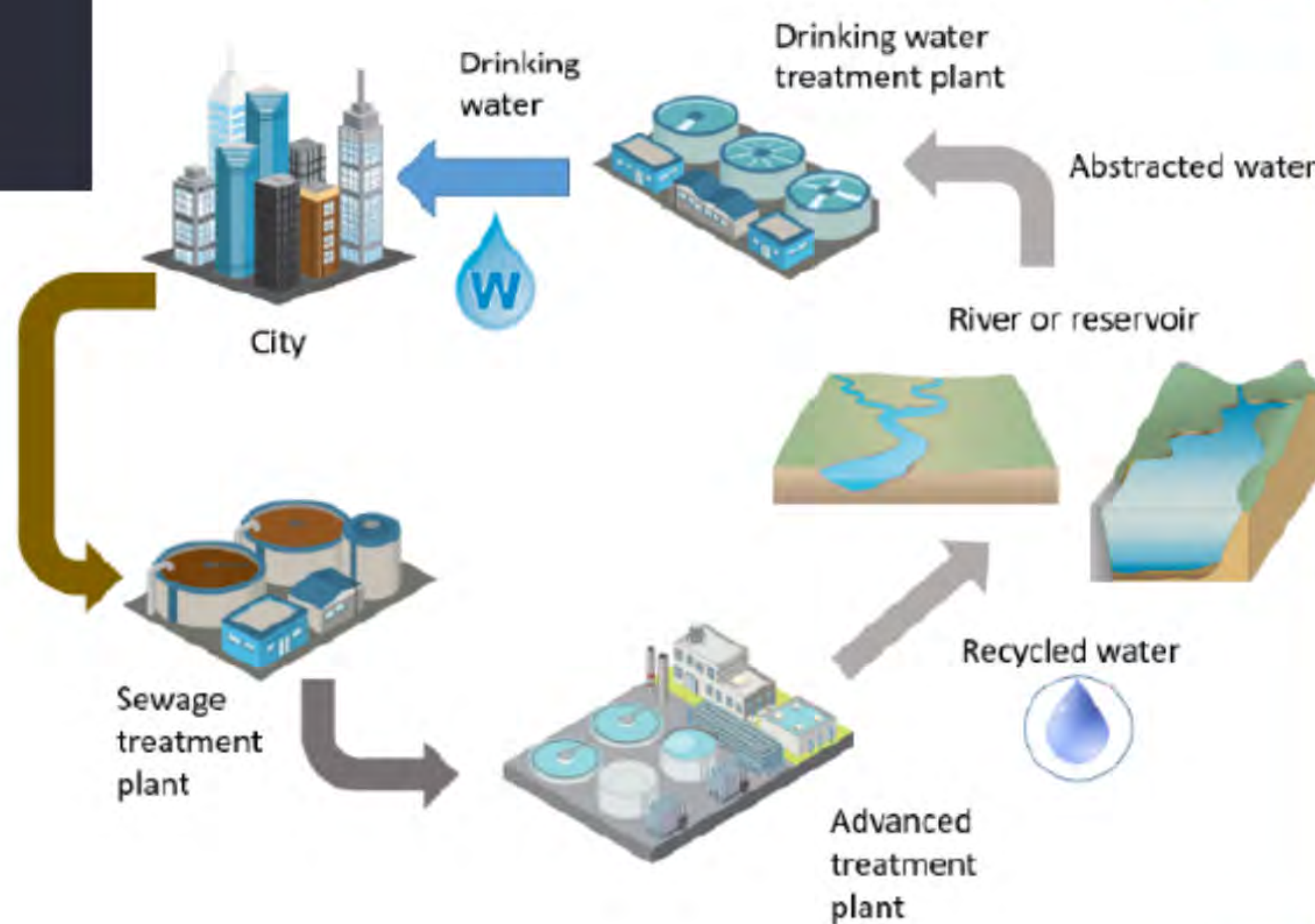
Conventional Washing 1

Traditional method of manual washing using a hose pipe / water pressure gun with no wastewater treatment before discharge and no collection and regulated disposal of hazardous waste.

Conventional Washing 2

Inclusion of ETP (running on 50% wastewater treatment efficiency) for

wastewater treatment in Conventional 1 and



ALHIBA Energy

ESW Boiler and Steam auxiliaries for Supply and Maintenance



ESW Boilers is our sister concern company (Made in Ajman, UAE) – From past 30 years is having our presence in UAE and other Middle east countries, delivering our Advanced boiler systems with latest innovation application i.e Reclaims latent energy of ~420 kJ/kg of condensed H₂O vapor and c/w steam and condensate return management systems, heater etc we offer all kinds of Steam and associated auxiliaries manufacturing and after sales services.



Authorized Agent for TANGRA Belgium producing sustainable AHU's and FAHU's and other HVAC equipments

TANGRA has a production plant with more than 5500 m² and a team of more than 140 people. The company uses the top-notch class production equipment and constantly invests in its highly qualified specialists. TANGRA's portfolio also includes its own HVAC design bureau, R&D department, aerodynamic HVAC laboratory, teams for installation, service and maintenance of HVAC systems, 3 commercial centers in Sofia, Varna and Burgas, as well as a wide sales and service network in Bulgaria and Europe

Industry-specific Field Application and Non-standard VFD



KEWO Variable Frequency Drives and Solar pumps FD and solar pump inverters. Being honored as High-tech Enterprise, Kewo has become a top comprehensive professional provider for drive and control solutions in the indust

Extraction & manufacturing of components The first step in a metalworking fluid's "life" is production of the ingredients that will be mixed together to produce a metalworking fluid. These can be fossil oils, or synthetically produced alcohols, fatty acids, amines, or other chemicals.

On the other hand, just as in the



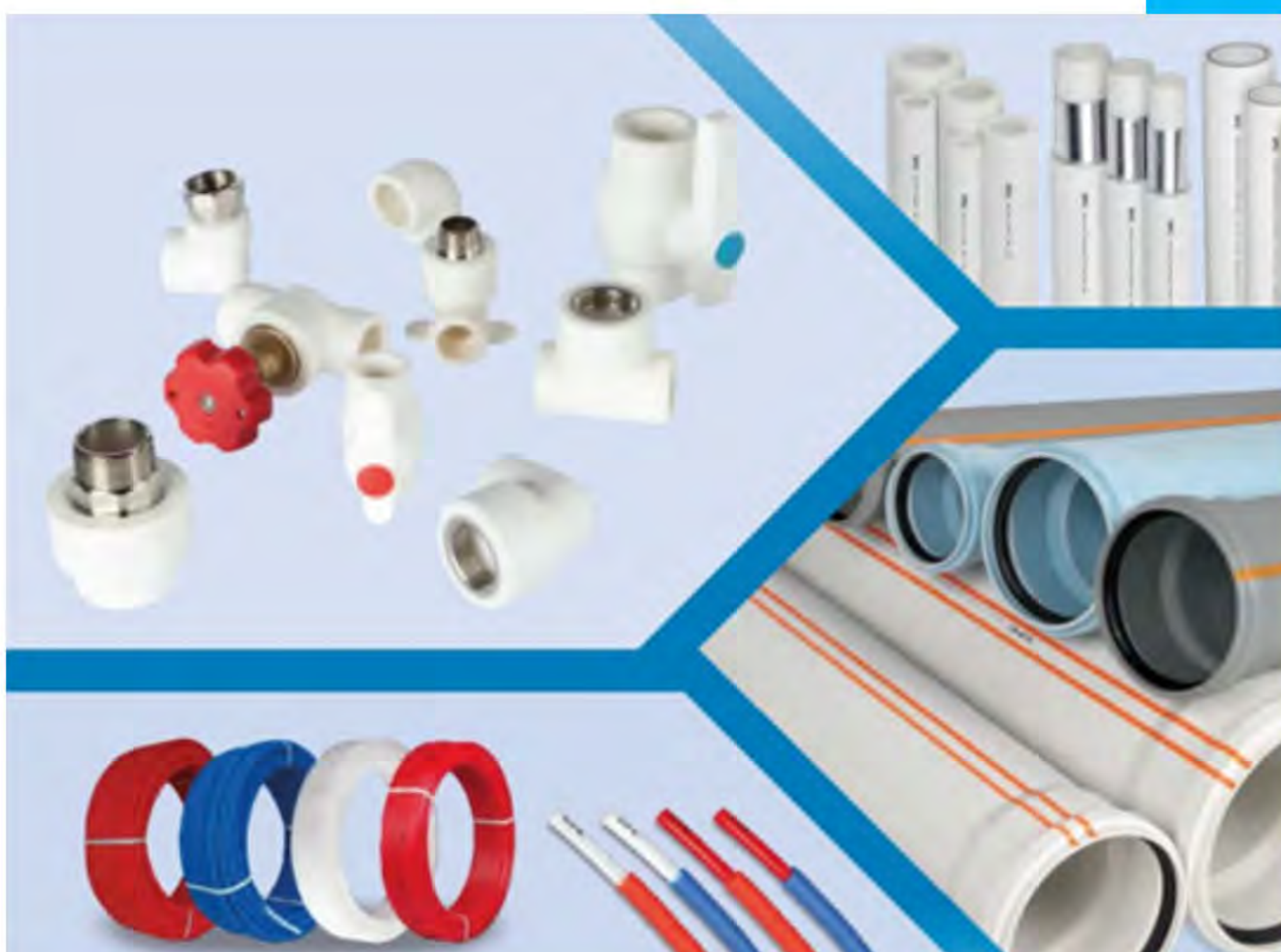
Building and Infra Materials supply



Import/Export and Supply of Building and Infrastructure Equipment's and Materials

Our Global Trade division excels in importing and exporting a wide range of Building and Infrastructure Equipment's and Materials, connecting international markets, and facilitating trade between different regions. We provide a seamless trading experience and ensure the smooth flow of goods, including raw materials and finished products across the board and have Signed MOUs with National and international organizations i.e AOY chillers Turkiye, SUMAK PUMPS Turkiye, CARANDINI LIGHTINGS SPAIN, KEWO VFD's, TANGRA AHU's BELGIUM, , and Peltier Solar PV panels Turkiye,

SPK pipes, HDPE Pipes Yildiz/Dorekler Pipes Turkiye, and ESW Boilers Made in Ajman UAE and also dealer for Hydrogen Reactors Turkiye, Cutting Tools Sustainable coolants RECOL Turkiye,, Tekop Turkiye for Refrigeration Plants, Pile Driver Mazzaka Turkiye, and Bio diesel for industry and Transportation sectors and other than Multiple Products i.e Piping (HDPE) manufacturers, Fire Fighting systems Pumps, Refrigeration and HVAC products for UAE, KSA and Pakistan markets.



PROJECTS



Power Plants & Pumping Stations - KSA

Power Plants and pumping stations from 1997-2006 Sulieman Al-Rajhi and Sons Company Saudi Arabia(al-qaseem) at al-wataneya and including design, Planning, Procurement, Installation, Operation, Maintenance testing & commissioning and handing over of the building and infrastructure projects and also buildings, workshops, and power plants related to Mechanical and MEP systems, i. e Gas Turbines, Diesel Generators (HFO and Diesel) all other power plant auxiliaries and supporting HVAC Systems, Fire systems, Plumbing systems, Green building implementations, specialized systems (gate barriers and shutter doors, cranes, lifts, water recycling plants tanks, fume extraction systems, Fuel handling systems, Diesel generators, BMS systems), LV systems.



PROJECTS



INFRASTRUCTURE PROJECTS - UAE

Pumping Stations, and Networks:

We specialize in the design, construction, and maintenance of various types of Pumping Stations and Rising Main networks. This includes Sewerage Pumping Stations, Portable Water Transfer and Booster Pump Stations, Irrigation Pumping Stations, Combine Fire & Irrigation Pumping Stations Closed Loop Pressurized Networks, and Rising Main and Gravity Networks. We are pioneers in designing and implementing remote control and monitoring system for combined and individual networks and rising mains.

Electrical & Street Lighting Works:

Our electrical services encompass a broad spectrum. We manage LV/MV Distribution Cabling Networks, 11 KV and Pocket Substations, RMU, Transformers & KWH Meters. We are experts in Tunnel and Under bridge Lighting Systems, Street Lighting Works, both with conventional and LED luminaries.

Telemetry & SCADA Control Systems:

We implement PLC/RTU-based Telemetry

PROJECTS



Petrochemical Plant- Abu Dhabi

Petrochemical plant (polyolefin) with Brougue Group Ruwais Abu Dhabi U.A.E from May 2012 to May 2013 as Mechanical contractor for Samsung and Tecnimont co. Participated in MEP construction of 11 Nos. Sub Stations and Data Centers . Responsible for All HVAC, Fire alarm & Fire Fighting and Plumbing works



Facility Centres - UAE

Successfully completed all the Emirates Transport Projects sites 2013-2023 as per below list with Pearl-1 Leeds Certification with overall investment of 2 Billions UAE dirhams and in compliance with Estidama requirements i.e Alquoz VIP 2. Alfaya. 3. Aljarf Ajman 4. Alhayer and Alqua 5. Alain industrial Area.6. Mussafah-1 7. Mussafah-2 8. Alrams Rak 9. Alqusais. 10. Aladla 11. Alfaya 12. Shahama 13. Ghayati 14. Aldafra western region, 15. Mussafah-3, 16. Mazyed Alain 17. Alsaad VIC, 18. Mussafah-3, 19. Garhoud, 20. Alhayl Fujairah 21. Aljuwaizah. 22. Warsan Driving institute etc.;



38 sites were implemented Estidama's Green building initiatives

PROJECTS



Waste Water Recycling System for Car Wash Bays - UAE

As per Green building initiatives of ET, 10 Nos. waste water Monitoring and Emirates Transport is benefiting, by saving more than 80% water from each plant, all these plants which are being utilized had completed their ROI with in First 2 year of their installation refer WRS water consumption and net saving reports. It can be further confirmed from below newspaper publication refer RTA announcement about waste water recycling





Reach Out

For general inquiries, partnership opportunities, and service requests. We aim to respond to all emails within 24 hours.

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Visit our website or our social media profiles for more information about our services, team, and latest news.

www.techalhibaa.com