

The background of the entire slide is a scenic landscape. At the top, a large mountain with significant snow cover rises against a clear blue sky. Below the mountain, a dense green forest covers the rolling hills. The bottom third of the image shows a body of water with small, dark ripples on its surface.

committed to
water and
wastewater solutions

AES ARABIA LTD
Environmental & Process Engineering



Mission Statement

AES is fully committed to improving water quality through innovative technologies, at the most economical means, compatible with the environment anywhere in the world, extending beyond geographical and cultural boundaries.

AES continues to strive for excellence in its products and services. As leaders in the industry, AES continues to provide a conducive environment for its employees and staff for professional growth with ultimate goal of producing the highest quality products and services, and achieving full customer satisfaction at its best.



Water is one of humanity's most precious resources. Nature has always provided us with a vast supply of fresh water and the means to purify and recover wastewater we have generated in a closed cycle. But as our civilization flourishes, nature can no longer sustain this delicate cycle which is resulting in a decline in the quality of life and the environment.

The scarcity of fresh water has now become a global concern. The growth of hightech industries in the last decade has spurred the rapid need for increasing amounts of high quality water. The indiscriminate withdrawal of water from our wells, streams and aquifers, followed by the subsequent dumping of this same water back without treatment has led to severe problems.

Our quest to improve the quality of life continues to place demands for better quality of water. We, at AES recognize these problems and are focusing our efforts on providing water and wastewater treatment solutions.



Commitment, Dedication, Solutions

AES is committed to creating and utilizing the most innovative, state-of-the-art and advanced technologies in order to help cleanse and restore the environment. AES has established a solid global reputation with a proven record of success for a wide range of municipal, industrial, commercial and institutional clients by providing solutions to their water and wastewater treatment problems. AES has been at the forefront of evolving technology and expertise to improve the quality of water, a critical need to sustain quality of life.

AES is dedicated to maintaining a strong, committed management team, supported by a staff of qualified engineers and specialists. Combined with the flexibility and readiness to incorporate and utilize changing and challenging environments, we can adapt to circumstances that extend beyond cultural and social barriers.

AES has the solutions to improve and sustain our environment by using the most innovative and appropriate technologies. As water and wastewater treatment engineers and specialists, AES has the experience, qualifications, and capabilities to design, manufacture, supply, install, operate and maintain our superior and innovative systems and processes.



With a strong commitment to global water and wastewater treatment, AES has developed a solid international reputation that places us at the forefront of evolving technology and expertise to improve the quality of water, thereby improving the environment and the overall quality of life.

Our Design and Engineering Capabilities Focus On Quality.



Combined with our strong sense of dedication and loyalty to meet each client's diverse and individual needs, AES is proud of the integrity and quality our reputation stands for. Our company's creative and cost-effective operation and maintenance service programs are designed to suit a full range of specific requirements and conditions.

AES is totally committed to providing the highest quality products and services to our customers and clients. The pursuit of excellence in quality is well emphasized within our corporate walls and extends to our vendors and sub-contractors. Our corporate quality control and assurance procedures are continuously reviewed, upgraded and updated to keep up with the ever increasing market demand for the highest quality products and services.

AES design teams have developed water and wastewater treatment plants and systems to suit a diverse range of conditions that range from the simple operation to the more sophisticated and complex arrangement. Combined with the development of a wide range of chemical formulations to treat wastewater, AES has established a long record of proven and recognized success.

As water and wastewater treatment specialists, AES takes pride in developing creative, cost-effective solutions to meet our clients' diverse needs. We are dedicated in our mission to provide quality products and services through globalization, diversification, innovative finance and human resources.

AES continues to focus on environmental issues facing the world. Realizing the diversity of needs, environmental conditions, economics and geography in different countries, we will continue to seek innovative ways to adapt to new and challenging environments and circumstances.



Starting with individual needs assessment and analysis, continuing with plant design, engineering, construction (including on-site), commissioning and start-up, AES follows through with maintenance programs to ensure superior quality control and quality assurance. Dedicated AES engineers and technicians have the expertise and capabilities of designing and maintaining custom systems to meet specific needs, or they can upgrade, rehabilitate, and retrofit existing and aging plants, extending their useful lives and restoring optimal performance levels.



Strategic Manufacturing and Assembly

AES specializes in the manufacture, maintenance, and operation of custom-made water and wastewater treatment systems, specifically designed to meet each client's needs. AES engineers and technicians offer in-depth knowledge and expertise in design, engineering, manufacturing, quality control and assurance, project management, construction management, value engineering, and international sales and marketing.

With strategically placed manufacturing and assembly facilities, our international affiliates can coordinate activities in any desired global location. When there are special requirements and specifications requested to suit individual needs, AES will make modifications and custom build the units. AES Arabia's factory in Riyadh, Saudi Arabia is a multi facet plant with facilities to blend specialty chemicals, manufacturing filters and demineralizers, reverse osmosis desalination equipment, clarifiers, wastewater treatment plants as well as all related electricals and controls.



AES manufactures and assembles water and wastewater treatment plants such as clarifiers, lime-soda softening, particulate filters, ionexchangers, microfilters, ultrafilters, and chlorinators to produce water suitable for potable water applications, industrial use, agricultural and irrigation, cooling tower make-up, and pretreated feed water for desalination and demineralization.



AES is a proven leader in brackish water, sea water and wastewater desalination using reverse osmosis processes. AES reverse osmosis systems effectively and safely reduce and/or eliminate: Total Dissolved Solids (TDS), salts, nitrates, heavy metals, Trihalomethanes (THM), bacteria and viruses, organic matters, taste and odors, and toxic substances. The reverse osmosis system has been a proven cost effective pre-treatment to polishing demineralizers used in power plants, semiconductor and other ultra high purity water applications. AES has designed and manufactured reverse osmosis systems to further purify treated

wastewater for re-use, recycling, and for re-injection to aquifers for recharge or to prevent sea water intrusion. AES extensively uses ion-exchange processes for removal of minerals, silica, hardness, nitrates, heavy metals, organic matters, tannin, and other dissolved substances in water.



The AES package extended aeration sewage treatment plants (STP) are designed to treat sewage from various sources and different operating conditions. Custom designed. AES also designs, manufactures, supplies and installs industrial wastewater treatment plants for various industries, power plants, manufacturing facilities, mining operations, and military. The industrial wastewater treatment plants utilize combined physical, chemical and biological treatment processes in order to meet treatment goals such as discharge compliance with national and local regulations, materials recovery, wastewater recycling or re-use to achieve economic benefits. AES zero discharge wastewater treatment plants combine the wastewater treatment and water treatment processes including membrane separations and thermal processes to achieve the treatment goals.

Installation and Operational Services.

AES installs and operates industrial water and wastewater treatment plants for various industries, power plants, manufacturing facilities, mining operations, and military factories. The plants utilize combined physical, chemical, and biological treatment processes in order to meet goals such as applicable boiler feed water, WHO drinking water standards and discharge compliances within national and local regulations, materials recovery, wastewater recycling and reuse, and achievement of economic benefits.

AES offers a full range of custom products, supplies and services to meet and exceed our clients' specifications and expectations. We have the knowledge and skills to completely install, commission, operate and maintain water and wastewater treatment plants. AES provides full maintenance and operational services and supply a complete range of water and wastewater treatment chemicals used in boilers, cooling towers, and manufacturing processes.

AES also supplies control instrumentation and a complete variety of chemicals used in the various treatment processes as well as for maintenance and chemical cleaning of plants, pipes, cooling towers, tanks, etc.

AES offers a global presence through its overseas offices and affiliates. Our distributors, representatives, sales and technical network respond quickly to customer needs and requirements through shorter delivery periods, least cost and best financing options.

Combined with our strong sense of sincerity, dedication, and loyalty to meet every client's or customer's needs, AES is proud of the integrity and quality our reputation stands for. With a trend toward privatization, the company's creative and cost-effective operation and maintenance service programs are designed to suit specific requirements and conditions.



Our Range of Products and Services.

AES is totally committed to providing the highest quality custom products and services to our clients and customers. We are proud of our solid international reputation that places us at the forefront of evolving technology and expertise to improve the quality of water, thereby improving the environment and the overall quality of life.



AES Products:

- Clarifiers for treating surface water and lime-soda softening
- Filtration systems for suspended solids removal, iron and manganese removal, taste and odor control, and organic removal.
- Brackish and seawater reverse osmosis desalination plants
- Ion-exchangers for softening, demineralization, and specific ion removal
- Chlorination system
- Ultra-violet sterilization
- Membrane treatment systems to include microfiltration, nanofiltration, and ultrafiltration systems
- Ozonation
- Multi-stage flash and vertical tube evaporation system
- Package sewage treatment plants
- Tertiary filtration system
- Sludge treatment and dewatering
- Advanced Wastewater Treatment (AWT)
- Industrial wastewater treatment plants
- Zero discharge water and wastewater treatment system
- Water and wastewater treatment chemicals
- Internal water treatment programs
- Instrumentation and control systems

AES Services:

- Complete engineering design of water and wastewater treatment plants.
- Manufacturing, assembly and installation of treatment plants.
- Wastewater characterization and survey.
- Water and wastewater analysis.
- Plant upgrade, refurbishing and retrofitting old and aging plants.
- Design, supply and operation of pilot plants including collection, analysis and interpretation of data.
- Turn key projects.
- Build and operate schemes.
- Operation and maintenance contracts.
- Value engineering
- Procurement services
- Project management

AES



when water
matters...

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