



ساسد القابضة SASIC HOLDING

Company Profile
In the future .. we invest





In the future .. we invest

About us:

SASIC is a Saudi holding company headquartered in Riyadh, we work side by side with our partners and investors to be a part of the economic transformation, based on increasing local content in promising technical and industrial sectors in line with Saudi Vision 2030. Through thoughtful investments, which create an added value for our investors, and positively impact our societies to further progress and prosperity.



Our Investment Approach:

At SASIC holding, our investment approach is characterized by being based on long-term strategies, which enables us to respond rapidly to new opportunities, follow up on the latest global trends in several areas, and identify emerging technologies that would have the greatest impact in determining the promising paths that will lead the future of business. We believe that we will achieve a great success by following two investment approaches that will contribute in making SASIC among the leading companies in the region.



Acquisition

After determining the promising companies that are compatible with our plan and investment criteria, we provide thoughtful investments which contribute to drive target companies towards a new horizon of growth that enable them to lead their local market, and to open up towards new markets.

Partnerships

Through our strategic partnerships with governmental agencies and leading global and national companies, we will pave the way to attract a range of emerging sectors and new technologies to the kingdom, which will result in creating many job opportunities and increasing local content.

Vision

To be the leading investment entity that contributes directly in driving economic transformation, towards localizing emerging technologies in line with Saudi Vision 2030, and improving the quality of life at all levels.



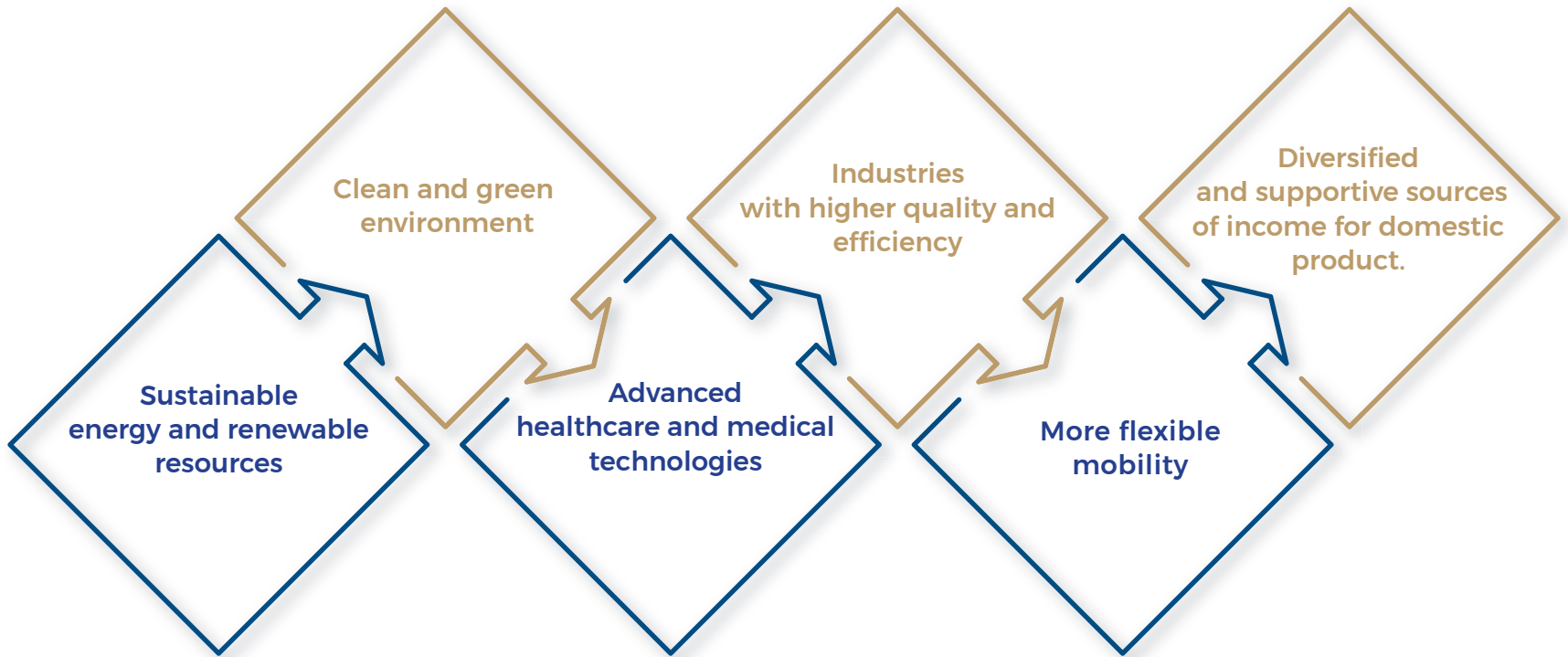
Mission

Improving the quality of life locally and globally, through providing smart investments in promising sectors which create sustainable solutions.



Goals

We invest for:



Sectors

1 Manufacturing

2 Renewable energy

3 Healthcare & Medical services

4 Agriculture & Food Services

5 Waste

6 Energy

7 Transportation

8 Petrochemical Industries

9 Advanced Technology


Industry 1: Agriculture



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Agriculture

The agricultural sector is one of the important tributaries of the national economy in Saudi Arabia, It has expected roles to contribute to increasing the welfare of citizens, improving their food level and reducing the cost of living. it provides job opportunities for its employees and related activities as inputs and outputs, which contributes to the nationalization of technology and national expertise that works to help with raising production efficiency and rationalizing the consumption of natural resources.



**We strive to provide technical solutions, that benefit humankind.
We identify issues, before offering solutions.**

Agriculture in Saudi Arabia

One of the most important obstacles to agricultural expansion is the scarcity of water in a desert country that represents a subcontinent like the Kingdom, where the agricultural sector consumes more than 85% of the available water resources.

This requires the importance of taking into account the aspect of rationalization in the use of water, and the continued development of irrigation systems and raise their efficiency, focusing on plant, animal or fish products that do not deplete this vital element. The Saudi Government recognizes the importance of this sector, and its key role in achieving the Saudi Vision 2030 to





contribute to the development of the Saudi economy. The government works on developing it by adopting programs and initiatives, aimed at transforming the agricultural sector from a traditional to a technical sector.

YUNHE ECO Planting Prospectors Company

SASIC PARTNER:

Yunhe Company is an independent research and development of “Yunhe eco-logical planting technology”

Mission:

Green agriculture & healthy people

Able to buy eco vegetables

Objective:

100% pure high quality vegetables without pesticides, fertilizers, and nutri-ents

Product:

Cloud Grass Ecological Planting Technology

YUNHE ECO Planting Prospectors Company

Yunhe Model Structure:

1. Production side: Yunhe high efficiency farm

Software and hardware: planting system, mechanical picking, re-frigeration technology, intelligent distribution, block chain track-ing, network platform

2. Industry: Green Tourism Resort with Popular Science and New In-dustry in Urban Center

Tourism and old-age care are the secondary development of Yun-he efficient farm and terminal sales in the future, creating a brand image of “Yunhe family health”, from children to the elder-ly.

3. Ecology: Pension and Welfare Base

Integrative system of people, continuous extension of brand ef-fec-tiveness and product categories, forming a unique brand ecosys-tem of Yunhe.



YUNHE ECO Planting Prospectors Company



Features

Committed to providing the world with truly healthy, safe and High- yielding fresh green vegetables

- Vegetables that grow without pesticides, nutrient solutions, soil and pesticide residues, and are only supplied with natural minerals in water, air and sunlight.

Higher production & Lower cost

YuLet high-tech enterprises increases crop production by more than 10 times that of traditional planting and the quality is stable by using the technical advantages of “multi-dimensional stereo” and “water vapor rising”. Also through technological innovation and supply chain integration, the cost of production equipment of Yunhe ecological planting technology is less than one third of the cost of production of traditional high-tech and new agricultural equipment



FINAXO ENVIRONNEMENT

SASIC PARTNER

FINAXO ENVIRONNEMENT intervenes as a developer in partnership with engineering offices and as a supplier of major operators in the fields of water and waste treatment through a range of equipment and services.

Solution

Universal and high-performance fertilizers.

Fertilizer : 2-3 months of starter fertilizer

It improves germination rate, recovery and the vegetative development

It speeds up the growth cycle 1,5 to 3 fold

It increases root development by 3 to 5 fold

It optimizes yield, quality and homogeneity of produce

Hydro-activator :3 to 5 years of action in the soil

It saves a minimum 50 to 80% of water consumption

It permits a reduction of fertilizer use by 30 to 50 %

It increases cultivated areas by decreasing inputs

Efficacy is 3 to 5 years in the soil

Naturally biodegradable by soil bacteria

It protects the environment and underground waters

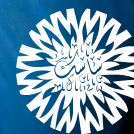
It stabilizes and unpacks soils, restructures the organic matter



A close-up photograph of a healthcare professional in blue scrubs holding a patient's hand. The professional's stethoscope is visible around their neck. The patient's hand is resting on a clipboard with a white sheet of paper. The background is a solid blue color.

Industry 2

**Healthcare and Medical
services**



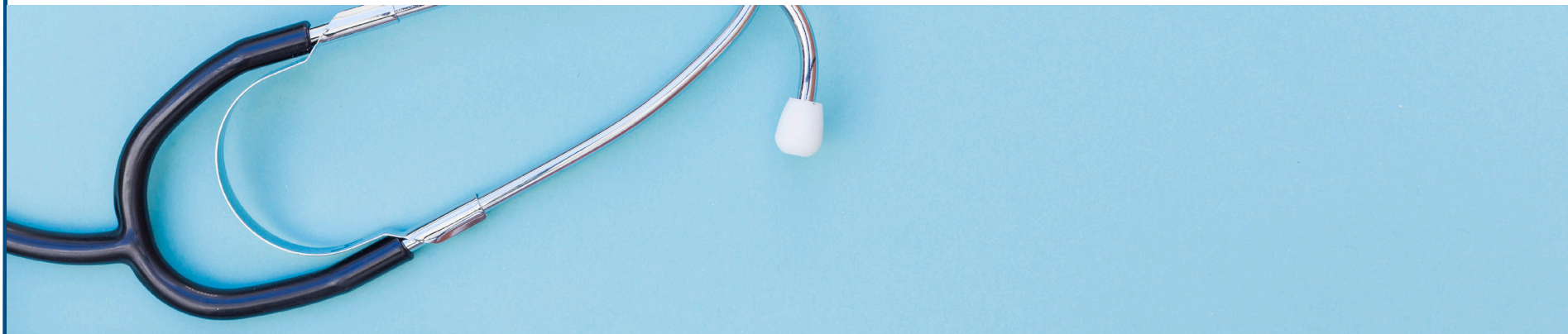
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Healthcare and Medical services

Sector overview:

Challenges in Saudi Health Sector are somehow similar to those in other countries, represented in financial sustainability due to the steady rise in the cost of health services, scarcity of health staff, demographic change of the population, increase in the proportion of the elderly, increase in the proportion of chronic diseases and easy access to health services.

At SASIC, we aim to track the latest developments in health services, medical device technologies and best practices in healthcare to identify opportunities for developments in healthcare in the Kingdom.



DiaEagle

SASIC PARTNER

The company is the first and only manufacturer in the Kingdom of Saudi Arabia, specializing in the manufacture of dialysis filters in all stages of manufacturing process (all components other than the fiber are produced on-site). It is not a facility for merely assembling of filters as is the case in other facilities in the Middle East. The maximum annual production capacity of the factory at all stages is reaching up to (6 million filter / unit annually), where it's located in the second industrial city of Jeddah with a building area of 10,000 square meters.

Domestic Market Needs and Commercial Sales

According to statistics from the Ministry of Health, more than 18,000 patients are admitted to Saudi Arabia by the end of 2018. Every patient needs at least 3 sessions per week for the dialyses process.



Industry 3: Waste Management



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Waste Management

Sector Overview

Saudi Arabia has been witnessing rapid industrialization, high population growth rate and fast urbanization which have resulted in increased levels of pollution and waste. Solid waste management is becoming a big challenge for the government and local bodies with each passing day. With population -whether it is medical or industrial- of around 29 million tons, Saudi Arabia generates more than 15 million tons of solid waste per year. A landmark initiative launched in Riyadh aims to recycle 47% of construction and demolition waste by 2035, and recycling of 81 per cent of the 3.4 million tons of annually produced municipal solid waste and approximately 5 million tons of construction and demolition waste per year. The strategy further aims to the removal and recycling of an estimated 20 million tons of construction and demolition waste that is currently lying in vacant plots and on roadsides around the capital.



FINAXO ENVIRONNEMENT

SASIC PARTNER

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Technology

PYROBIO technology is a waste and organic matter thermal treatment solution. A patented innovation makes it possible for PYROBIO to produce a quality syngas and an inert solid residue. PYROBIO is an effective replacement for incineration and methanization. Unlike Incineration and Methanization, PYROBIO technique is the thermal-chemical decomposition in a neutral atmosphere.

Applications

Slaughterhouse wastes, Liquid manure, feathers, droppings, dung, urban and industrial sewage sludge, plastic, wood and green wastes, tires, hospital wastes, automobile crush residues, paper, cardboard, beet, sugarcane residues, all substances including industrial & household byproducts



FINAXO ENVIRONNEMENT

Waste Water Box

Waste Water Box is a small wastewater treatment system similar to a wastewater tank system, but it uses aerobic digestion rather than just anaerobic process used in sewage systems. Unlike a conventional sewage system, the pneumatic treatment system produces high quality secondary residues, which can be sterilized and used for surface irrigation. This allows much greater flexibility in the placement of the leach field, as well as cutting the required size of the leach field by as much as half.

Charectrization

Energy reduction

Reduction of sludge volume up to 30% compared to activated sludge

100% biological treatment (no chemical intake) and

Possibility of autonomy in energy (solar panel, wind)



Plantec

SASIC PARTNER:

Since its establishment in 1967, Plantec has created many original technologies through research and development for 40 years.

Product:

“Vertical Combustor”

Plantec strongly believes that this new incineration technology is the solution

Objective:

Making treating different types of waste such as hazardous and toxic industrial waste efficient without using fuel.

Solutions:

- Vertical Combustor, turning waste into fuel for perfect combustion

This product is capable of stably and perfectly burning any types of waste, including municipal solid waste, industrial waste, medical waste and sludge with various properties and in a wide range of shapes.





Plantec

Features

1. Originally developed combustion method
2. No waste segregation is required
3. No auxiliary fuel is required, which reduces CO2 emissions
4. Thermal energy can be recycled \$7 efficiently
5. Fully automated control
6. Waste is incinerated completely



1. Medical Waste

Dedicated combustion of medical waste that is most difficult to treat thermally is available.

2. Municipal waste and/or Industrial Waste

Mix combustion of general waste is also available.

3. High Moisture Sludge

Sludge, 82% of moisture and 54% of mix ratio, can be combusted with other waste. Drying treatment is not required.

Advantages

Vertical Combustor, turning waste into fuel for perfect combustion

What makes it special?

Due to its vertical structure, the Vertical Combustor has merits and advantages that conventional incinerators don't, such as:

1. It generates almost no toxic gases.
2. It incinerates various types of waste completely.
3. It can run on solid fuel such as wood-based biomass which can generate both electric power and useful heat.



Industry 4: Manufacture



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Manufacture

Sector overview:

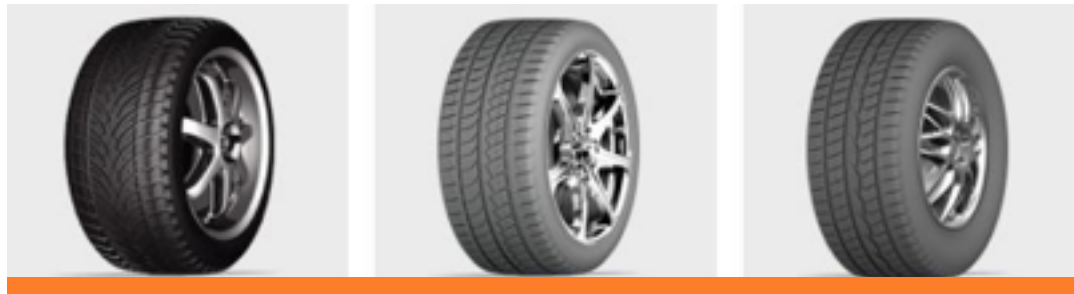
Saudi Arabia is one of the world's largest markets for industrial equipment and is currently valued at SAR 56 billion (US \$ 15 billion). Local demand for industrial equipment is set to experience massive growth, with KSA anticipating to spend approximately SAR 1 trillion (USD 270 billion) on industrial equipment between now and 2030. Saudi Arabia currently imports 80% of its local demand for industrial equipment and machinery, valued at SAR 64 billion (US \$ 17 billion). This sizeable demand offers significant potential for import substitution, leading the government and other market players to introduce local content initiatives that promote the procurement of locally produced products, thus significantly increasing demand for locally produced industrial equipment.



China First Rubber Tire

SASIC PARTNER

China First Rubber Tire (Beijing) Technology Development Co., Ltd. is a scientific and technological company that integrates research, production and marketing. It has nearly 20 core technology and invention patents of self-sealing and leakproof tires. It has a research team of high polymer nano material leakage memory adhesive research team, tire safety level equipment R & D team and training service team and Brand promotion team.



New Solar Arabian Factory

New Solar Arabian Factory is a leading national company for the localization of advanced industries related to clean energy solutions. It works to consolidate the vision through achieving the objectives of reducing dependence on the traditional energy sector, protecting the environment by reducing the phenomenon of thermal emission, Infrastructure and public facilities. It relies on the highly qualified expertise of the company and our partnership with many international expert houses from Asia, Europe and America. Obtained a technical certificate in product efficiency from SABIC Research and Development Center.



New Solar Arabian Factory



Solar LED Street Light



LED Street Light



Indoor LED Lighting



Solar System



Outdoor LED Lighting



Solar Outdoor LED



LED Solar Security Light



Water Treatment Systems



Solar Pump



Solar Powered Cold Storage Room



Solar Water Heater



Solar Air Conditioner

Industry 5: Petrochemical Industries



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Petrochemical Industries

Sector overview:

Saudi Arabia's chemical market is the largest in the Middle East & North Africa, housing one of the grandest integrated chemical complexes worldwide. In 2016, investments in the sector were 40% higher than any other global market, amounting to SAR 3.75 billion (US \$1 billion) and helping production capacity grow by 5%. The Kingdom now has the 5th largest chemical production market in the world and takes up a 10% share of total global output, generating operating revenues of SAR 170 billion (US \$637.5) in 2016. The chemicals sector is expected to double in size by 2030 due to the increasing demand for basic, intermediate and specialty chemicals.



HIGHTECH MOLECULAR SIEVES

Technology

This is a Potential Projects investment based on local raw materials available competitively in Jubail – KSA, High-tech Molecular Sieves Plant 100MT/day of various grades.

The properties and uses of Molecular sieves or zeolites are being explored in many scientific disciplines: modern inorganic and organic chemistry, physical chemistry, colloidal chemistry, biochemistry, minerology, geology, surface chemistry, oceanography, crystallography, catalyst and all in all types of chemical engineering process technology.

- **Molecular sieves applications in various industries:**

- Petroleum refining
- Chemical & petrochemical industries
- Chemical & petrochemical industries
- Atmospheric gases



Pellets



Beads

HIGHTECH MOLECULAR SIEVES

- **Wide variety of applications includes:**

1. Separation and recovery of normal paraffins by hydrocarbons,
2. Catalysis of hydrocarbon reactions
3. Drying of refrigerants
4. Separations of air components
5. Carrying catalyst in curing of plastics and rubber
6. Recovering radioactive ions from radioactive waste solutions
7. Removing carbon dioxide and Sulphur components from natural gas
8. Sampling air at high altitudes
9. Solubilizing enzymes
10. Separating hydrogen isotopes and removal of atmospheric pollutants such as Sulphur dioxide.



Best Industries

Nonwoven Fabric Geo-textile

Product and Features:

Nonwoven fabrics are engineered fabrics constructed of 100% polypropylene, a landscape fabric which offers excellent water permeability allowing for a high level of water to easily pass through the fabric. Excellent for use in drainage and filtration applications. Nonwoven geotextile fabrics are produced by needle punching staple fibers in a random pattern to form a high strength, dimensionally stable fabric.

Today, the nonwoven fabric technology is the most modern method used in the branch of textile and petrochemical industries due to their simple production stages, high efficiency of production, lower cost, and disposability.



Industry 6: Renewable Energy



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Renewable Energy

Sector Overview:

Investe in this emerging sector given increased global interest in clean energy and the reduction of carbon emissions, In addition to its positive impact on the environment, this type of energy is sustainable and has a significant economic impact.

Saudi Arabia has set a renewables target of 27.3 GW by 2024 and 58.7 GW by 2030. Round one for solar PV energy of 300 MW has already been ten-dered and round two has been announced for 1.5 GW.

KSA solar PV inverter market is forecasted to grow from USD 30 million in 2019 to reach USD 330 million by 2030. This amounts to an estimated 2019-2030 cumulative forecast of USD 3,960 million.



SolarLand

SASIC PARTNER

SolarLand is a leading company in all matters relating to renewable energy industries, it was first established in 2003. Since then, it has been carrying on with success, the company offers sustainable solutions to their clients of all levels, directly contributes to the global transformation towards clean energy.

SolarLand now operates in around 38 countries across major branches, serves their clients in the rest of the world through authorized clients world-wide.

Solar Module

We manufacture high quality, state of the art off-grid solar panels ranging from 1.5W - 460W, in 6V, 12V and 24V configurations. These panels feature high-efficient cells/wafers and are covered by our 25 year manufacturer's warranty.



SolarLand

Solar desalination

Solar desalination is a technique used to remove salt from water via a specially de-signed still that uses solar energy to boil seawater and capture the resulting steam, which is in turn cooled and condensed into pristine freshwater. Salt and other impuri-ties are left behind in the still.

Products:

Solar desalination system of 5-1000 tons

Solar desalination system (monomer) of more than 1000 tons

Induced solar collector:

Trough solar collector

Seawater desalination evaporator

Cryogenic multi-effect evaporator



Industry 7: Oil & Gas Services



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Oil & Gas Services

Sector Overview:

·Energy continues to be the fundamental fuel for the progress of civilization that we witness nowadays. The global energy market is gaining momentum with investors interests. According to McKinsey, the global fuel demand is expected to peak in 2030, and global consumption will double in 2050. This is what captured our attention to this global market and the promising growth and stability.





SPIE

Since its creation in 1982, SPIE Oil & Gas Services mission as a service company has been to transform work into energy, and vice versa.

Over 3,000 engineers and technicians dedicate themselves every day to projects with a spirit of adventure where risk-taking is mitigated by preparation.

Thanks to their energy and our evolving expertise, we assist our clients from the engineering phase of their projects through to operations.

Our clients are the catalyst of our evolution, and it is thanks to their trust that SPIE Oil & Gas Services deploys the most comprehensive range of services on the market in over 30 countries.



Industry 9: Energy & Water



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LIS

Lis Energy Technology established in 2004. It is the first batch of energy-saving service providers and dual-soft, certification enterprises registered by the National Development and Reform Commission, also it is National high-tech enterprise and member of China Energy Conservation Association.

The company has passed:

- ISO9001 quality system certification
- ISO14001 environmental management system certification
- CCC certification
- EU CE certification.

It is the first batch of scientific and technological enterprises with energy-saving system and equipment research, development, design, production, installation, operation, maintenance and other qualifications.





LIS

Specialized in:

- building energy-saving diagnosis and analysis energy-saving inspection and evaluation
- contract energy management
- energy-saving project
- investment and development,
- new energy project,
- EPC general contracting for new energy project and water environment management.



EcoLine Solar Thermal Air Conditioning

SASIC PARTNER

Ecoline is committed to play a leading role in the solar thermal industry with focus on continual improvement of products, management and service while minimizing environmental impact of all our products and operations.

Technology

Ecoline's proprietary solar thermal air conditioning system is engineered to produce predictable, reliable and cost-competitive clean energy by harnessing the cleanest and most inexhaustible form of all known energy sources – the SUN.

Ecoline technology utilizes a solar thermal collector to convert both solar as well as ambient thermal heat, to assist in the super-heating of the refrigerant acting as an additional compressor, thereby substantially reducing the load of the electrical compressor.

Ecoline has been selected for the IES Prestigious Engineering Achievement Awards 2019



FINAXO ENVIRONNEMENT

Technology

DRINKABLE WATER PRODUCTION UNITS

DRINKABLE WATER PRODUCTION UNITS is a robust, mobile and renewable source of fresh, clean drinking water. It has been designed to meet the needs of villages, factories, off-grid settlements and for emergency situations with no infrastructure or civil works needed. This unit has the functionality of producing drinking water from Sea water, Brackish water and Ground water.



FINAXO ENVIRONNEMENT

ULTRA-FILTRATION MOBILE UNIT

Ultrafiltration standardized design units are used to supply drinking water to different areas (municipalities, life bases, tourist complexes, military camps, hospitals or in situation of emergency) without any problem of storage. They can also be used for industrial applications upstream of reverse osmosis installation. The membrane ultrafiltration technology is that it stops unwanted particles, bacteria and viruses. It is very respectful for the environment, because this technology uses few chemicals.



Industry 9: Advanced Technology



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EV Charger

INTELLIGENT CHARGERS FOR ELECTRIC VEHICLES (EV)

EV Charger provides a wide and complete range of battery loading products, these products are connected, universal, simply used, and come with electronically fast charging systems

B2C SOLUTIONS

- Home load
3,5 - 7,5 kW
8h - 2h

- Hub load
3,5 - 22 kW
8h - 30min

B2B SOLUTIONS

- Super load
0 to 90 kW
90 - 30 min

- Hyper load
30 to 360 kW
to 15 min



A large industrial steel mill with a glowing furnace in the center and a worker in the foreground.

Industry 10: Mining and Metals



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Mining and Metals

Sector Overview

Saudi Arabia's metals and mining sector is preparing for rapid expansion in accordance with Vision 2030 objectives. As the nation embarks on its journey to diversify from oil and gas, the role of the metals and mining sector is to gain increasing importance. This opportunity entails localizing the value chain of open-die forging to serve KSA and GCC energy sectors.

Open-die forging and closed-die are metal techniques used to manufacture energy products in KSA.

In KSA, open-die & closed-die forging are driven by turbines, electric motors, wellhead equipment (casing head and spools), pumps, ball valves, gas compressors & blowout preventers.

In 2016, KSA demand for open-die forging was valued at USD 304 Mn (32% of all five techniques used to manufacture energy products) and estimated to be 47 Ktpa (20% of all five techniques used to manufacture energy products). On the other hand, demand for closed-die forging was valued at USD 179 Mn (17% of all five techniques used to manufacture energy products) and estimated to be 48 Ktpa (20% of all five techniques used to manufacture energy products).

Demand for open-die & closed-die forging in KSA are forecasted to increase at an annual growth rate of 3% to reach 62 and 63 Ktpa respectively by 2025.

Beyond the KSA market, investors in Saudi Arabia have the opportunity to tap into the large regional market in the GCC which is expected to witness strong growth fueled by oil and gas production (expected to increase from 45 Ktpa in 2017 to 56 Ktpa by 2025).

Jiangyin Hengye Forging Co.

SASIC PARTNER

Hengye Forging Company has state-of-the-art manufacturing processes, testing methods and experiences in manufacturing stainless steel, duplex stainless steel, super stainless steel, nickel-base alloy, high alloy steel, and low temperature steel. It is very known with the ASTM Standards and related processing of materials. Hengye has become a professional manufacturer of forging products. The products have been widely used in petroleum, chemicals, boilers and pressure vessels, power station equipment, shipbuilding and general machinery construction.

Products

- Hollow Cylinder
- Flange/Ring
- Pipe
- Shaft
- Disc
- Valve parts

Main Industry Applied

- Petrochemicals Industry
- Power Generation
- Mechanical Industry
- Naval
- Oil & Gas
- Nuclear



Industry 10:

Fire Protection Systems



Fire Protection Systems

Sector Overview

Fire safety systems and equipment are essential for the safety of all the individuals of a country. The demand for fire safety systems & equipment in Saudi Arabia is likely to remain stable in future as these are inescapable and are installed across all the sectors. Oil & gas being the major sector of the country, surges the demand for fire safety systems and equipment.

According to research, Saudi Arabia Fire Safety Systems and Equipment market is projected to grow at a CAGR of 5.6% during 2017-2023. The total spent on and fire safety markets was worth US\$8.5 billion in 2018, a five percent increase over the previous year. By 2025, the market will be worth US\$14.4 billion, driven by a combination of increased investments in infrastructure in line with the Saudi Vision 2030



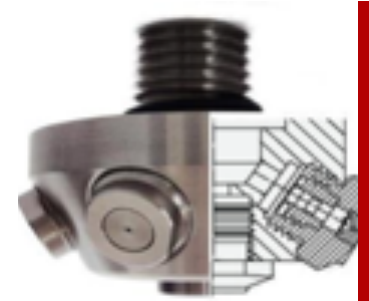
Shanghai Neotec Fire Protection Equipments Co.

SASIC PARTNER

Shanghai Neotec is a technological company for developing and manufacturing different types of new fire protection equipment. Most products of Neotec are high-end and high value equipment of automatic or smart fire suppression systems, while applying to many industries and fields, specially the new fire technology to the industry of new energy. The company persistently pursues innovations under Neotec's faith of "make fire protection & green technological".

Our technology:

Neotec has also developed and been providing a line of products of fire suppression devices for battery packs of electric cars and buses, in addition to fire suppression systems for ESS (Energy Storage Systems). Furthermore, has also developed water mist system for fire suppression is new and very effective technology in fire industry, Neotec kitchen fire system is unusual excellent product by using low-pressure water mist with its own invented Fat fire agent. This system extinguishes the fire of large oil pan for deep-fry within only 2 seconds, which is 4 times faster than any other similar equipment of American/European fellow counterparts of the fire industry.





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