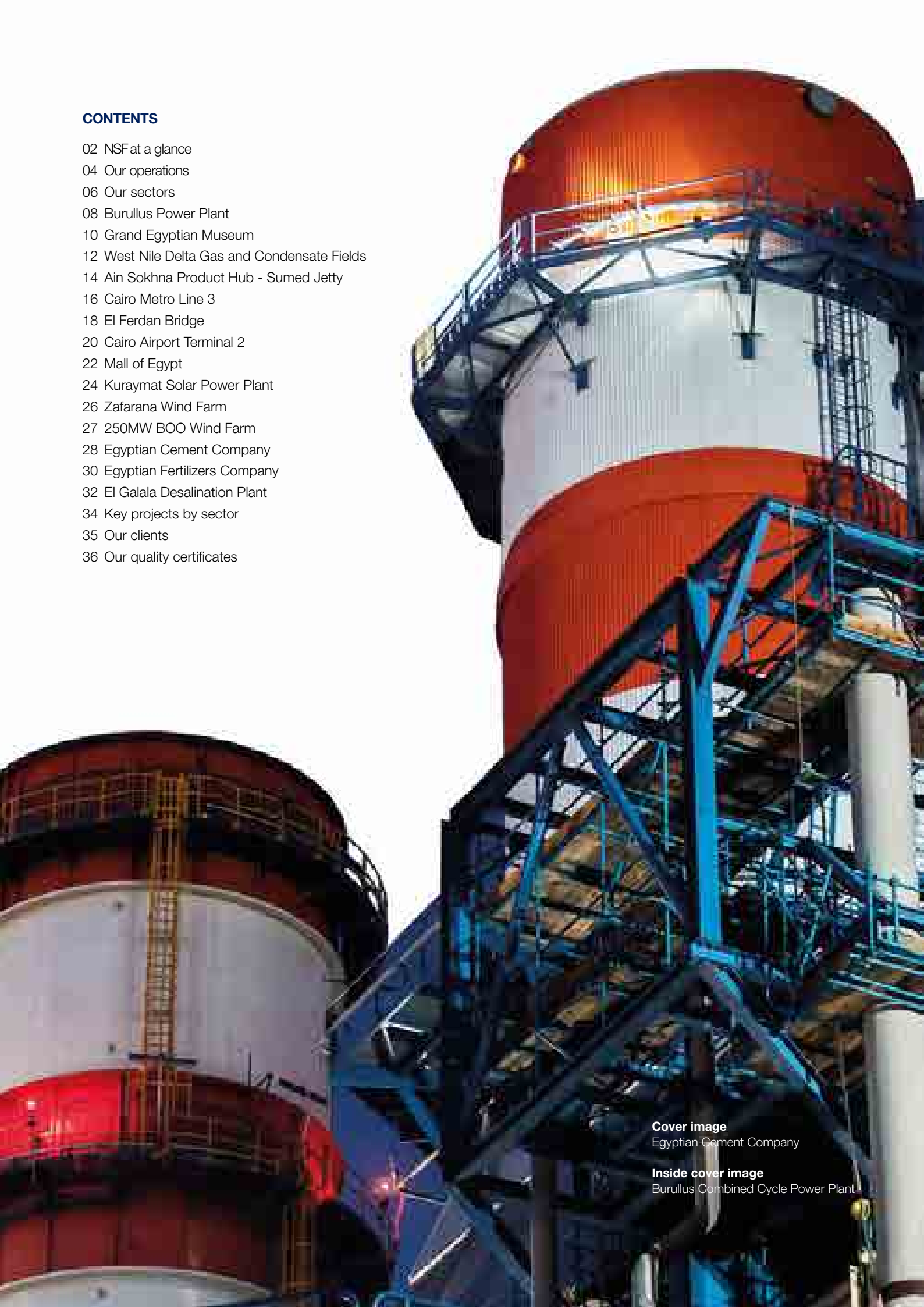

NATIONAL STEEL
FABRICATION

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Cover image
Egyptian Cement Company

Inside cover image
Burullus Combined Cycle Power Plant



We are a world leader in the highly diversified field of steel fabrication and erection.

We provide outstanding, quality products and services. Through our unrivalled production capacity and planning facilities, we are able to deliver complex and sophisticated customer solutions — on time and within budget — regardless of size or scope of project.

NSF AT A GLANCE

We aim to be the preferred choice for steel fabrication and erection solutions. We lead our industry by providing the best value in products, services and solutions to our customers.

OUR STRATEGY

We work to deliver exceptional value for our stakeholders by following a coherent and considered strategy.

- Targeting large, complex steel fabrication and erection projects worldwide.
- Working in partnership with local and global leaders.
- Investing in the best people and technologies.
- Maintaining our commitment to quality and safety.
- Searching for new opportunities in order to deliver exceptional value.

➤ [See samples of our work from page 08](#)

QUALITY

We provide the ideal model in achieving international quality standards throughout all phases of projects both locally and in regional markets.

NSF was initially ISO 9001:1994 certified in 1997 by Lloyd's for implementing all the requirements. In 2000 and 2004, NSF took the necessary steps to achieve the latest upgrade of ISO 9001:2000, and then ISO 9001:2008, assessed and certified by TUV.

Last year, NSF upgraded its ISO certification to ISO 9001:2015, as well as adding ISO 14001:2015, assessed and certified by TUV.

We have also added to our portfolio the OHSAS 18001:2015 certificate.

NSF was assessed by ASME for the first time in 1998 and was certified as ASME "U" stamp holder. NSF now holds ASME "U", "U2", "S" and "R" stamps, as well as the EN 1090-2 certificate.

In addition, both of our facilities carry the American Institute of Steel Construction (AISC) certificate.

➤ [See our quality certificates on page 36](#)

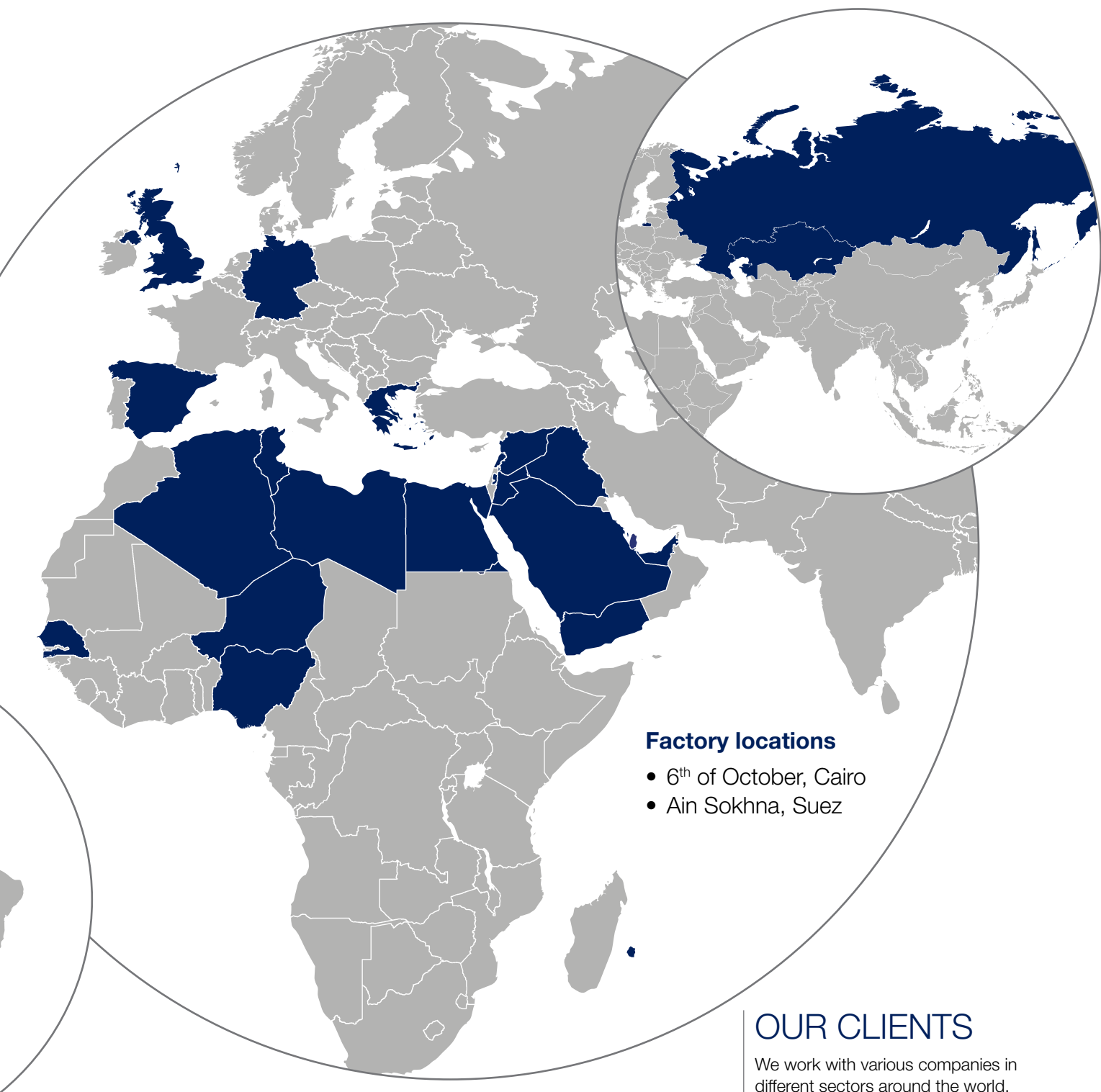
OUR PRESENCE

Our two plants are based in Egypt and we have delivered projects in 24 countries around the world, including Africa, Europe, Asia, and Latin America.



100,000 tons
ANNUAL PRODUCTION CAPACITY

750,000 m²
FACTORY PRODUCTION AREA



OUR CLIENTS

We work with various companies in different sectors around the world.

› For a list of our clients go to page [35](#)

OUR OPERATIONS

We own and operate two major facilities in Egypt with a total combined production capacity of 100,000 tons annually. Our plants cover a total area of 750,000 square meters.

NSF was established in 1995, with a single production facility in Egypt and a total annual production capacity of 36,000 tons. With our experienced team and the use of the latest equipment, we have more than doubled our capacity and have become a world leader.

Today we offer a sophisticated and complex product range, which has resulted in NSF being chosen for critical projects across a variety of sectors and countries.

We work on projects involving the production of different types of steel works, ranging from extra light up to extra heavy structural steel, specialist pressure vessels, storage tanks, a variety of plate works activities, piping spools, steel towers, and boilers.

NSF's continuous improvement has resulted in us being the preferred supplier across Europe and worldwide for some of the biggest international EPC companies, and we strive for continued excellence.

Delivering quality on precise and complex projects can only be achieved with the application of the latest equipment and technologies, combined with a highly experienced and skilled workforce. Our

production facilities include the latest CNC machines, laser cutting equipment and highly automated robots. In the past few years NSF has added state-of-the-art closed painting facilities accommodating highly specific painting requirements for special projects.

Our experienced manpower combined with diversified equipment and our modern facilities give NSF an unmatched edge in its flexibility to fabricate and deliver several types of works on the same shop floor at the same time.

Our production capacity, combined with our customer focused delivery schedules, enable us to provide our clients with complete solutions to meet all their project requirements.

In addition, NSF production can be executed in line with ISO, ASME, AISC, BS, EN and Euronorm quality certificates.

Many years of experience in on-site erection capabilities for steel structure, plate works and tanks, extends our services beyond steel fabrication and allows us to offer our clients a complete solution package for even the most complex site requirements.



OUR VALUES

Premier customer service

We treat our customers professionally and serve them in the best possible way. We make sure the products and services they receive will meet and exceed their expectations and we continuously seek to improve our processes to better serve them.

Operational excellence

We make our workplace a safe place and hire the best professionals in our business. We develop partnerships with the best suppliers and continuously strive to produce perfect products. We invest in our people, processes and relationships to be the best in our industry.

Deliver business results

We work and win as a team by promising and delivering the best results.



OUR SECTORS



POWER & ENERGY

With increasing demand for sustainable energy solutions we are focusing resources on wind and solar energy projects. In this specialist area we have worked on projects including the Kuraymat Solar Power Plant in Egypt, Shams 1 CSP plant in UAE and wind farms in Egypt and Greece.

However, our experience is not limited to solar and wind projects. We have extensive experience on various power and energy generation projects including the Burullus and New Capital combined cycle power plants in Egypt (combined 9.6 GW), the Langage gas fired power station in the United Kingdom and the Cartagena combined cycle and gas turbine power plant in Spain.

Our specialism in heat recovery steam generation units and boilers, combined with our capacity has allowed us to work in nine power plants simultaneously in 2015, 2016, and 2017 and deliver all on time.



OIL & GAS

Growing economies rely on industry to provide the raw materials they need to thrive. We have worked on projects in the oil and gas extraction industry, as well as petroleum refineries and pipelines for crude petroleum and natural gas.

Our experience in this sector extends to supplying different diameters of piping, structural steel, piling, plate works, design and fabrication of pressure vessels and reactors and painting systems for clients including Bechtel and Archirodon.

NSF has been awarded the major steel works for Egypt's biggest oil and gas projects such as WND and Zohr and has delivered excellent and fast track results on both projects.

Due to the environmental demands on companies operating in this sector, we frequently address challenging problems to reduce the environmental risks of our clients to the minimum acceptable levels.



BUILDINGS

NSF has executed numerous large and complex projects through which we developed a wide range of niche core competences that enhance both our regional and international market positioning.

Every project is met with NSF's proven expertise in project management along with exceptionally strong resources – the result of the Company's continuing investment in machinery, fleet, technology, and people. This investment assures NSF's capacity to deliver fast-track services and seamless technical support through the planning, design, construction, commissioning, and operational phases of projects.

As today's urban development requirements continue to change at a fast pace, NSF has been able to position itself as a key player supporting development projects in Egypt and worldwide. Our continued development has enabled us to offer our services across six main market sectors.



INDUSTRIAL

With the global economy focusing on industrial advancements, allowing more industries to take active roles in the markets worldwide, it was inevitable that industrial applications using extensive steel constructions would grow as a result.

NSF has carried out several projects in the cement and FMCGs sectors. With the experience gained from executing such projects, we have positioned ourselves as a market leader in this sector and we are well equipped for any kind of industrial application regardless of the design complexity and sophistication.



TRANSPORT

As the world strives to build bigger and more impressive structures, we continue to rise to the challenge. We produce components for mega constructions off site and deliver them ready to slot into place. Precision and timely delivery is essential so as not to disrupt strict schedules.

We have worked on mega steel structures including the El Ferdan swing bridge – the longest of its kind in the world, the new Cairo Terminal 2 airport, the C-130 maintenance hanger at Cairo West air base and Borg El Arab airport.

In addition, NSF has completed steel works for Cairo's new metro lines, stations and workshops and has completed more than four fast track bridges as part of the Government's program for transport development. Our heavy steel works is not limited to the production of structural steel, but also include the supply of drawing, engineering and steel coating services.

We have a proven track record of precision, timely delivery and executing projects to the highest level of quality and attention to detail.



PETROCHEMICALS

With increased global reliance on value added concepts, there has been a strong shift towards projects which involve transforming valuable raw materials like oil and gas into highly useful products which become the raw materials used in multiple other industries.

NSF has also been very active in this sector, working on several fertilizers and natural gas based projects throughout the region.

View samples of our projects across these six sectors in the following pages.

Burullus Combined Cycle Power Plant

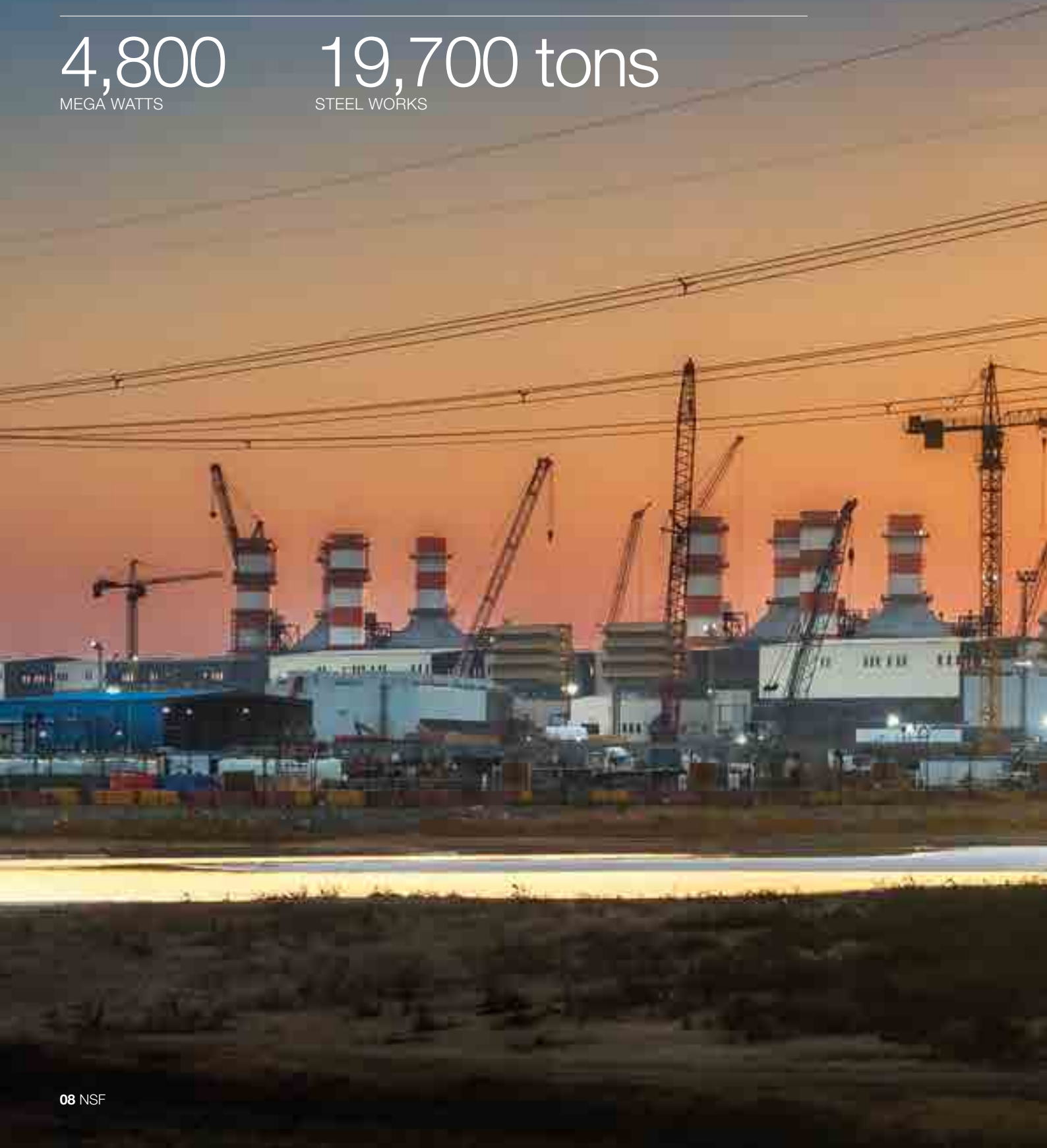
One of the largest gas-fired combined cycle power plants in the world

4,800

MEGA WATTS

19,700 tons

STEEL WORKS





Client: Middle Delta Electricity Production Company (MDEPC)

Contractors: OC/Siemens AG

Location: Burullus, Egypt

Completion: 18 months

This plant will be one of the largest gas-fired combined cycle power plants in the world and the most efficient in Egypt. It will operate on natural gas, with future provision of light fuel as a back-up for one module.

NSF scope

Supply, fabrication and delivery of steel structure, piles and tanks.





BUILDINGS



Client: The Ministry of State for Antiques

Contractor: OC/Besix

Location: Giza, Egypt

Completion: 36 months

When completed, the Grand Egyptian Museum (GEM), will be the largest archaeological museum in the world. The museum will exhibit the full Tutankhamun collection with many pieces to be displayed for the first time. With its location, only two kilometers from the Giza pyramids, the area is expected to be a truly inspirational reflection of one of the world's most intriguing civilizations.

NSF scope

Supply, fabrication and erection of 10,900 tons of structural steel.



Grand Egyptian Museum

The largest archaeological museum in the world

120 acres

TOTAL LAND SIZE

10,900 tons

STEEL WORKS

West Nile Delta Gas and Condensate Fields

One of the major developments of gas and condensate fields in Egypt

US\$ 12 bn

TOTAL ESTIMATED INVESTMENT

16,000 tons

STEEL WORKS





Client: BP, RWE DEA

Contractors: Bechtel

Location: North Alexandria, Egypt

Completion: 18 months

The West Nile Delta (WND) project involves the development of gas and condensate fields located within the North Alexandria and West Mediterranean Deepwater concessions, 65 km to 85 km off the coast of Alexandria, Egypt. These fields are being developed in several phases. In the first phase of execution, five major fields are under development: Taurus, Libra, Giza, Fayoum and Raven. Production from the offshore WND gas fields commenced on March 24th, 2017.

NSF scope

Supply, fabrication and delivery of approximately 16,000 tons of structural steel works.





OIL & GAS



Client: Arab Petroleum Pipelines Company

Contractor: Besix-Orascom and Enppi

Location: Ain Sokhna, Egypt

Completion: 12 months

BESIX-Orascom joint venture built the Ain Sokhna Product Hub, a 3 km F-shaped jetty. This facility, located in the Gulf of Suez, is of great strategic importance to the region. The project includes onshore and offshore facilities and will provide services for storage, loading, unloading and send-out of LNG.

In an extremely fast tracked project with very tight deadlines, the construction of a 2 km long jetty 'ready to berth a ship' was completed in only 5.5 months.

NSF scope

Fabrication of steel structure frames for the pipe racks – Lot 2, and approximately 7,700 tons of catwalks.



Ain Sokhna Product Hub Sumed Jetty

A world class center of energy

7,700 tons

STEEL WORKS



Cairo Metro Line 3

Line 3 will eventually extend from the northwest of the Greater Cairo area to the northeast serving Cairo International Airport

10,000 tons

STEEL WORKS



Client: Egypt Ministry of Transport

Contractor: JV OC/AC

Location: Egypt

Completion: 18 months

The line will cross the River Nile twice — at the western branch between Kit Kat and Zamalek and at the eastern branch between Zamalek and downtown Cairo. The total length of the line will be approximately 30.6 km and will be implemented in four phases. 28.1 km will be underground and the remaining 2.5 km on grade.

NSF scope

Fabrication of approximately 10,000 tons of steel structure for 4 overhead stations.





TRANSPORT



Client: Ministry of Transport

Contractor: ThyssenKrupp

Location: Ismailia, Egypt

Completion: 24 months

The swing bridge at El Ferdan was built as part of a major drive to develop the area surrounding the Suez Canal, near Ismailia in Egypt.

The bridge provides an essential rail link across the Suez Canal to Sinai. The double swing bridge spans 340 meters, making it the longest bridge of its type in the world.

NSF scope

Supply, fabrication and delivery of the steel structure.



El Ferdan Bridge

The longest bridge of its type in the world

340 m
LENGTH OF THE BRIDGE

6,400 tons
STEEL WORKS



Cairo Airport Terminal 2

State-of-the-art renovation more than doubling passenger capacity

4,100 tons

STEEL WORKS



Client: Ministry of Civil Aviation

Contractor: Limak

Location: Cairo, Egypt

Completion: 10 months

The project includes the construction of apron, taxiways and connection ways in a 340,000 m² area; the construction of a new terminal building connected to the current terminal building III and the construction of an airport hotel and a pier block. In addition, it has been designed to be capable of serving large body aircrafts such as Airbus A380 Super Jumbo and Boeing 747.

NSF scope

Supply, fabrication, erection and delivery of approximately 4,100 tons of structural steel and plate works for Terminal 2 building.





BUILDINGS



Client: Majid Al Futaim

Contractor: OC/Besix

Location: Cairo, Egypt

Completion: 25 months

The development is located in 6th of October city outside Cairo. The mall will have more than 400 shops, 50 food and beverage outlets, an open air plaza and a hypermarket. It will service customers in the residential areas of Cairo's growing suburbs and potential tourists.

With over 7,000 tons of snow, Ski Egypt is launching the first ski resort in Africa with the world's largest indoor snow park.

NSF scope

Supply, fabrication and erection of approximately 7,500 tons structural steel works.



Mall of Egypt

Featuring Ski Egypt – Africa's first indoor ski resort

455,500 m²

TOTAL AREA

7,500 tons

STEEL WORKS

Kuraymat Solar Power Plant

Egypt's first integrated solar combined cycle power plant

3,200 tons 624,438 m²

STEEL WORKS

AREA COVERED



Client: Upper Egypt Electricity Production Company (UEEPC) - Ministry of Electricity and Energy

Contractor: OC/Flagsol

Location: Kuraymat, Beni Suef, Egypt

Completion: 14 months

The plant is capable of generating 20 MW of Solar heat. It is the Egyptian government's objective to grow the solar energy generation sector in line with its electricity power diversification strategy. This is also aligned with global development objectives of increasing the market share of low greenhouse gas emitting technologies.

NSF scope

Supply, fabrication and erection of the steel structure which holds the 160 skal-et-parabolic trough collectors, spread over an area of 624,438 m².



Zafarana Wind Farm

NSF's continuous involvement in wind energy extends from one of Egypt's first wind Farms in Zafarana to the most recent wind scheme in Gulf of Suez

130 TOWERS **4,400 tons** STEEL WORKS



Client: Upper Egypt Electricity Production Company (UEEPC)

Contractor: Nordex

Location: Zafarana, Suez, Egypt

Completion: 12 months

The wind farm at Zafarana is capable of producing 63 mega watts in winds that often gust to 10 meters per second.

This farm is located in the desert with particularly harsh conditions such as extreme heat, sand storms and salty sea air. The turbines were specially prepared to prevent sand from getting into the units so that they can withstand these harsh conditions.

NSF scope

Supply, fabrication and delivery of the steel for 130 wind towers.





250MW BOO Wind Farm

20
TOWERS

2,200 tons
STEEL WORKS

Client: Upper Egypt Electricity Production
Company (UEEPC)

Contractor: Siemens-Gamesa

Location: Ras Ghareb, Egypt

Completion: 12 months (under construction)

Gulf of Suez wind farm is the latest addition of wind energy projects for NSF. Each tower will produce up to 2 mega watts supplied by Siemens/Gamesa turbines.

NSF scope

Supply, fabrication and delivery of the steel for 20 wind towers.

Egyptian Cement Company

The second largest cement plant in the world

60,000 tons

STEEL WORKS

10 million tons

CEMENT PRODUCED ANNUALLY





Client: The Egyptian Cement Company (ECC)

Contractor: Polysius

Location: Suez, Egypt

Completion: 10 months/kiln line

Over a 10 year period we have worked on various projects as the plant has grown from a single kiln line to five kiln lines with four raw material mills and six cement mills.

NSF scope

Our core activity on the site has been the supply, fabrication and delivery of plate works and steel structures for the five kiln lines.





PETROCHEMICALS



Client: Orascom Construction Industries

Contractor: Uhde GmbH

Location: Suez, Egypt

Completion: 8 months for each of the two stages

Strategically located by Sokhna Port on the Suez Canal, the Egyptian Fertilizers Company is capable of producing 1.65 million metric tons per year of granular urea through two identical production lines.

NSF scope

We supplied and fabricated the pressure vessels, separators, reactors and drums for line one, as well as the supply and fabrication of steel structure, plate works and equipment for line two.



Egyptian Fertilizers Company

A world-class cement production complex

30
PRESSURE VESSELS

3,500 tons
STEEL WORKS

El Galala Desalination Plant

One of the largest seawater desalination plants in the world

22

FILTER TANKS

164,000 m³

DAILY CAPACITY



Client: Ministry of Defence

Contractor: OC/Metito

Location: Port Said, Egypt

Completion: 6 months

The desalination station will benefit the economic zone located northwest of Suez Gulf, as well as supporting another three giant desalination stations located inside El Galala, east of Port Said Governorate and the New El Alamein city. The plant is expected to have the capacity to purify 164,000 cubic meters of seawater each day, by using Reverse Osmosis technology.

NSF scope

Supply, fabrication and delivery of 22 filter tanks.



KEY PROJECTS BY SECTOR



POWER & ENERGY

6 th of October Combined Cycle Power Plant	Egypt
AS Pontes WFGD Power Plant	Spain
Assuit Thermal Power Plant	Egypt
Baiji Power Gas Fired Power Plant	Iraq
Bois-Rouge Power Plant	Reunion Island
Burullus Combined Cycle Power Plant	Egypt
Cairo West Thermal Power Plant	Egypt
Caratagena Combined Cycle Gas Turbine plant	Spain
Conversion of El Shabab Power Plant to CCP Plant	Egypt
El Khalij Thermal Power Station	Libya
Escombreras Combined Cycle Gas Turbine Power Plant	Spain
Giza North Combined Cycle Power Plant	Egypt
New Capital Combined Cycle Power Plant	Egypt
Shams 1 Solar Power Plant	UAE
Soto and Malaga Combined Cycle Power Plant	Spain
Sousse Combined Cycle Power Plant	Tunisia
South Helwan Super Critical Power Plant	Egypt



PETROCHEMICALS

Alexfert	Egypt
Egyptian Fertilizers Company (EFC), Suez II Line	Egypt
EBIC Ammonia Plant	Egypt
El Merk Processing Facilities	Algeria
Helwan Fertilizers Company (HFC)	Egypt
KIMA Ammonia Plant	Egypt
MOPCO Fertilizer Plant	Egypt
Sorfert Algeria	Algeria
Qatar Vinyl Company	Qatar
Qatar Fertiliser Company (QAFCO 4)	Qatar



INDUSTRIAL

Ain Kebira Cement Plant	Algeria
Al Safwa Cement Plant	KSA
Cement Project (Cimatfa 1, Cimatfa 2)	Morocco
Cement Project, Rouifa	Tunisia
EcoCementos Molins Cement Plant	Columbia
EDO Cement Plant	Nigeria
Egyptian Cement Company	Egypt
Ezz Steel, Ain El Sokhna	Egypt
Fancesa Cement Plant	Bolivia
Grand Cote Project	Senegal
Imouraren Uranium Mine	Niger
Kaluzhsky Cement Plant	Russia
Kar Najaf Cement Plant	Iraq
Kar Najaf Cement Plant	Iraq
Saint-Gobain Glass Factory	Egypt



BUILDINGS

Air Defence Hotel House	Egypt
Golden Pyramids Plaza	Egypt
Grand Egyptian Museum	Egypt
Maadi City Center-Extension (Carrefour Project)	Egypt
Mall of Egypt	Egypt
Mubarak TV Studios Complex	Egypt
New Administrative Capital Cathedral	Egypt
Peace Vector VI, Fayed Project	Egypt
Pireaus Bank, Smart Village	Egypt



OIL & GAS

Aden Refinery Tanks	Yemen
Ain Sokhna Products Hub ASPH, Sumed Jetty	Egypt
Damietta LNG	Egypt
Dukhan Gas Lift Project	Qatar
Egyptian Refinery Company	Egypt
IDKU LNG	Egypt
In Amenas Gas Development	Algeria
Skikda LNG	Algeria
Sokhna Port Liquid Bulk Jetty	Egypt
Thermal Gas Oil Unit Vessels, Al-Jubail	KSA
West Nile Delta Gas and Condensate Fields	Egypt
Western Desert Gas Complex	Egypt
Western Libya Mellitah Plant	Libya



TRANSPORT

Ard El Lewa Bridge	Egypt
Borg El Arab Airport	Egypt
Cairo Airport, Terminal Building 2	Egypt
Cairo Metro Line 3, phase 4a	Egypt
Cairo Metro Line 3, Phase 4b	Egypt
Cairo Metro Workshops	Egypt
Cairo West Air Base	Egypt
El Ferdan Bridge	Egypt
El Mosheer Bridge	Egypt
Kattameya Bridge	Egypt
Naga Hammadi Barrage	Egypt
Microwave Towers	Yemen
Port Said Tunnels	Egypt

OUR CLIENTS

ABB	S.p.A
Abener	Orascom Construction Industries
AC Boilers SpA, formerly Ansaldo Caldaie	ONDEO – Degremont
Alstom	PGESCO
Archirodon Construction (Overseas) Co.S.A.	Polysius
Babcock Hitachi	Procter & Gamble
Bechtel	SAE International
BESIX Group	Schlumberger
BG International	SNC Lavalin
BP	Sinoma
C.A.C. Degremont	Siemens
CDM	Skanska
Chiyoda Corporation	Snamprogetti
Contrack	SPIG
Degremont – Egypt Branch	STF
Eisenmann	Techint
Enxio, Formerly known as GEA	Technip
Enppi	Tecnicas Reunidas
FLSMIDTH	TOMEN
Fluor Daniel	Toshiba
Foster Wheel	Toyo Engineering Corporation
G+H Schallschutz	UHDE
General Electric	UWG
GS Engineering & Construction	
Hyundai Corporation	
IHI	
INTEC	
JGC	
KELLOGG	
Kvaerner	
Limak	
MHI	
Metito	
NEM	
Nordex	
Nordex Energy	
Nuova Cimimontubi	



OUR QUALITY CERTIFICATES



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