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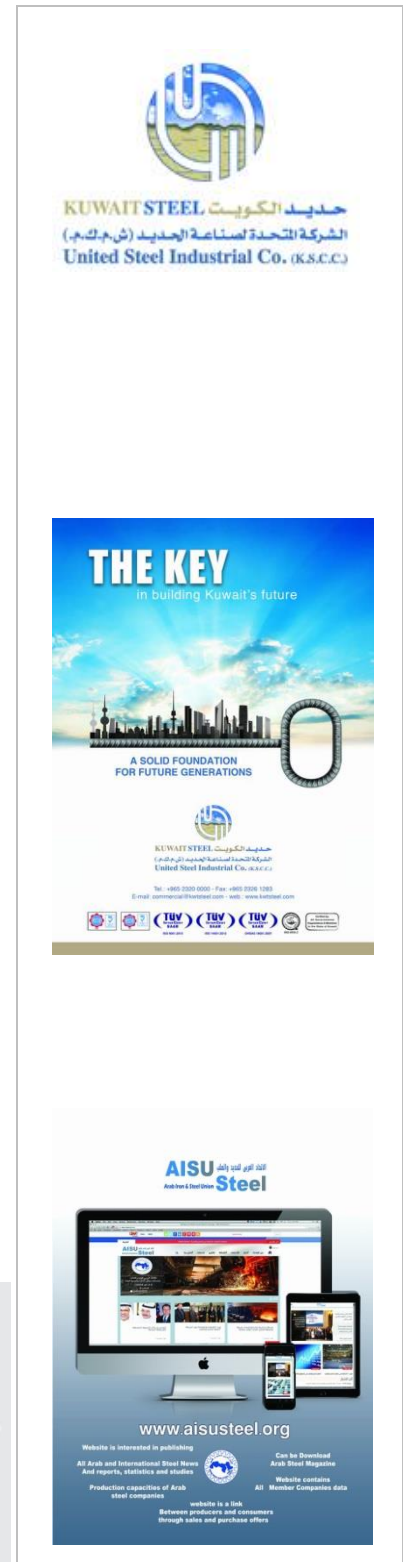
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والمعرض الدولي للحديد والصلب 2023  
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## Arab Iron and Steel Union is training the second group in the steel making technology field at the Sulb Company in Bahrain

Within the framework of the Arab Iron and Steel Union objectives, interest in human development and boosting the administrative, organizational and technological skills of engineers and technicians in the iron and steel field.

AISU is training the second group of engineers and technicians at Sulb Company in the Kingdom of Bahrain through the training program “Steel Making Technology.

The program aims to provide participants with information related to the nature of melting furnaces, the proportions of materials and the interactions that accompany smelting processes. The training course deals with the following topics:

The program provides the participants with information about melting furnaces’ nature, materials proportions, and reactions accompanying smelting processes.

The training course covers the following topics:

- Electric arc furnaces
- Direct arc
- Submerged arc
- Indirect arc
- Electric induction furnaces
- Reactions that occur in the different stages of steel production in an electric arc furnace
- Gases in the steel industry
- Crucible furnace
- Casting from an electric arc furnace
- Continuous casting
- Types of products by continuous casting and rolling processes
- Defects arising from errors in continuous casting.

The training field is considered a primary goal of AISU, which aims to raise the capacities and expertise of human resources, including engineers and technicians, in the iron and steel industry field and develop them through various training programs in the technical, organizational, and administrative areas.

AISU has implemented several training courses in cooperation with Arab institutions and organizations, benefiting thousands of workers in major steel companies in the Arab world.



### North Africa

#### The latest rebar prices update in Egypt, March 15, 2023

According to the daily follow-up of rebar prices in Egypt, the prices of rebar ranged between 27,000 pounds – 34,700 pounds today.

Rebar prices today are as follows:

Company	EGP/t
Ezz Steel	29,285
Suez Steel	29,200
Beshay Steel	29,000
El-Marakiby Steel	29,500
Egyptian Steel	29,200
Ashry Steel	29,500
Garhy Steel	27,000
Misr Steel	34,700
El komy Steel	34,700
Al Olaa steel	34,500
Al Gioshy steel	34,500

Prices include 14% VAT

#### Egypt: Prices of flat steel for Ezz Steel in March 2023

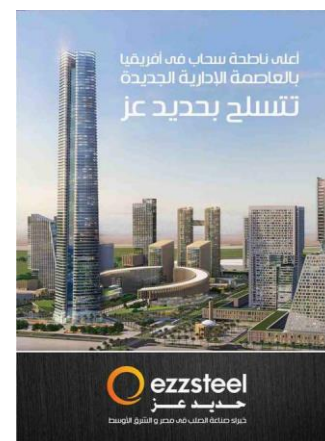
The prices of flat steel for Ezz Steel amounted to 31,635 EGY/tonne EXW, which are the same prices announced by the company on March 7, including value-added tax.

Statement	including VAT
Flat Steel	31.635

#### Mohamed Al-Shahat, president of the Delta Steel Company

Engineer Mahmoud Esmat, Minister of the Public Enterprises Sector, issued a decision appointing the geologist Mohamed Al-Shahat as president of the Delta Steel Company after a prosperous march made by Al-Shahat in El Nasr Glass and Crystal Company, where Al-Shahat was able during this short period to increase sales to El Nasr Company. Choosing Al-Shahat comes due to the development that the government is currently interested in developing steel factories and increasing their production capacity.

Concerning the Delta Steel Factory, the minister indicated that during the past period, the factory was developed to increase its production capacity to about 250,000 tonnes. However, the current operating capacity does not exceed 81,000 tonnes, and this May, the second production line will be operational, bringing the total production capacity to about 500,000 tonnes annually. It is also intended to complete the construction of a new foundry in the Delta Steel Company to be ready for operation by the end of this year.



### Gulf Area

#### Emirates Steel Arkan: Events display the Group's efforts in sustainability, safety, and innovation

Stemming from its leading position in the iron and building materials industry, Emirates Steel Arkan hosted internal events to display the Group's efforts in sustainability, safety, and innovation.

More than 500 employees and contractors attended these events, with the participation of more than 20 companies that presented their sustainability initiatives, innovative solutions, and safety equipment.

The events also included a series of interactive lectures presented by the Group's employees and several guest speakers on various topics such as digitization, decarbonisation, women's empowerment in the industrial sector, energy management and more.

#### Rebar prices in Jordan for March 2023

The Jordan Chamber of Industry, in agreement with the local steel factories, issued a guiding bulletin for the selling prices of locally manufactured reinforcing steel in the Kingdom.

According to the bulletin, the selling price of a ton of rebar grade 60 from the factory land and loaded on the back of the car ranges between 465 and 485 dinars per tonne without sales tax, with sales tax between 555 and about 575 dinars per tonnes.

Grade	Price without tax Sales/tonnes		Price with tax Sales/tonnes	
	Min	Max	Min	Max
60	465	485	555	575



### World

#### Steel prices in the third week of March 2023

According to the prices of the global steel markets, the scrap price reached 460\$/tonne, the iron ore price was 132\$/tonne, the prices of billets ranged between 595 and 630\$/tonne, and rebar prices ranged between 735 and 750\$/tonne.

Prices for iron and steel products in Russia and Ukraine were not obtained due to the war.

The following prices of iron and steel in the global markets on 17/03/2023

Product	Place	Min	Max	Date	w-o-w
Scrap HMS 1&2 (80:20)	CFR Turkey	460	460	17/03/2023	↓
Iron ore Fe 62%	CFR- China	132	132	17/03/2023	↑
Billet	FOB Russia	595	605	17/03/2023	↓
	Ex-CIS,CFR Turkey	620	630	17/03/2023	↓
Rebar	FOB Turkey	735	750	17/03/2023	↓
	FOB Ukraine	-	-	17/03/2023	-
Wire Rod	FOB Turkey	740	770	17/03/2023	↓
HR coil	FOB Russia	745	755	17/03/2023	↓
CR coil 1mm	FOB China	730	740	17/03/2023	↑

#### China removes all restrictions on coal imports from Australia

China is moving to allow all domestic companies to import Australian coal, signalling an end to trade restrictions imposed in late 2020.

Ports and customs offices have been advised to allow goods shipments from Australia. Earlier this year, Chinese authorities have given four principal importers permission to resume purchases of Australian coal, with shipments beginning in January.

China's steel manufacturers and power plants seek high-quality Australian coal. Imports could reach 1 million tonnes in the first half of March alone, according to China's largest coal group. The country is the world's largest producer and consumer of coal, and its imports exceeded 290 million tonnes last year.



### China steel mills' daily steel output fell 3.08% in early March

China Iron and Steel Association (CISA) announced that in early March (March 1-10) of this year, the average total daily raw steel production of large and medium-sized steel companies in China amounted to 2.1517 million tonnes, down by 3.08% compared to late (February 21-28) this year.

In late February (21-28) this year, the average total daily crude steel production of large and medium-sized steel enterprises in China reached 2.2202 million tonnes, up 6.09 per cent from mid-February (11-20).

Stock levels in China's steel market rose as of March 10, and the final steel stock of large and medium-sized steel companies in China reached 17.7041 million tonnes, up by 1.63% from February 28.

As of March 10, rebar futures on the Shanghai Futures Exchange were at CNY 4,314/t (\$625.2/t), up CNY 140/to (\$20.3/t) or 3.4 per cent since February 28.

The daily steel output of China's steel mills fell by 3.08% in early March.

### China's steel production increased by 5.6% in January-February 2023

From January to February 2023, steel firms' output in China rose by 5.6% compared to the same period in 2022 to reach 168.7 million tonnes, according to data from China's National Bureau of Statistics (NBS).

According to the world steel organization "Worldsteel", in January 2023, China produced 79.5 million tonnes of steel, which is 2.3% more than in January 2022. Production in February was about 89 million tonnes.

Chinese steelmakers are ramping up steel production as they expect increased demand for the products in March when the construction season begins. At the same time, the index was not affected by the halt in production amid the winter holidays.

The average daily production from January to February 2023 was about 2.86 million tonnes of steel, an increase of 13.8% compared to the average daily rate in December 2022 and a decrease of 6.8% compared to the same period last year. As of February 24, 2023, the utilization level of blast furnace capacity in China was 80.98%, up by 5.77% compared to 75.21% at the end of December 2022.

At the end of 2022, China introduced a series of actions to the country's economy, especially in the real estate market, which was restricted by strict measures to contain the Coronavirus for most of 2022.

According to analysts, in March 2023, China's steel production volume will continue to grow, as the peak of the country's construction season will witness a rise in demand for finished products. Although Beijing has not given a clear answer as to whether it will pursue a policy of zero control of the disease, China's annual steel production is expected to be the same in 2022 or will rise slightly. In 2022, China's steel production declined by 2.2% compared to 2021, reaching 1.01 billion tonnes, due to the slowdown in the economy and the decline in the real estate market.



## Report: An increase in global iron scrap prices with an upward trend in demand in Turkey

Global scrap prices continued to rise in most regions of the world amid high activity in the Turkish market – one of the largest importers of scrap metal supported by the demand recovery for steel and increased production.

HMS 1/2 scrap prices in the Turkish market increased, during March 6-13, 2023, by \$8/t, or by 1.5%, compared to the previous week – up to \$460-465 per tonne, and since the beginning of the year – by \$64 tonnes or 16% with an upward trend over the past three weeks.

Scrap quotations in Turkey began to rise sharply sometime after the earthquakes when the country's government announced a plan to rebuild the damaged areas in the next three to four months. Steel mills, in anticipation of a sharp increase in demand for rebar, began purchasing raw materials to fill warehouse stocks and prepare for a possible increase in production. Local steel mills indicated they are ready to meet domestic demand for steel, which will be used to rebuild infrastructure, while export sales are expected to come to a complete halt. Until steel manufacturers see stable and healthy demand for steel, they have to sacrifice profit margins as scrap prices increase, and there is not enough demand for rebar at prices in line with scrap quotations as scrap suppliers insist on not cutting raw material prices.

In the European market, scrap prices also rose due to the favourable situation in Turkey and higher demand from steelmakers. In particular, scrap prices in Italy as of March 10, 2023, increased by €30/tonne compared to March 3 – up to €400-440/tonne overall. A similar trend is also observed in France, Spain and the entire Eastern European region. Tariffs increase on rail transport and freight affected raw material quotations from Northern and Eastern Europe and higher steel prices.

Scrap prices in the US also rose significantly amid March trading that started a week ago. This is the fourth consecutive prices increase in the US after a long downward trend last year.

In the week of March 3-10, 2023, scrap prices on the east coast of the United States increased by \$5 per tonne – up to \$436-441 per tonne. As expected, scrap prices were supported by higher export supplies, improving demand, and higher US steel prices. April is also expected to boost scrap prices in the US.

China's scrap market has stabilized as a considerable supply freed the market from supply problems. As of March 10, 2023, scrap quotations in eastern China were 3.15 thousand Yuan/tonne (\$453 per tonne), up 5 Yuan from the previous week. After steel prices rose last week, scrap prices stabilized, and scrap collectors have increased supply after fully resuming operations after the holiday.

Although scrap consumption has increased in China due to the resumption of production in EAF factories and the increased use of this raw material in blast furnaces, supply and demand are currently unbalanced. The global scrap consumption in the first half of 2022 decreased by 8.4% compared to the same period in 2021 – to 248.79 million tonnes. The negative trend in scrap demand was supported by the decline in global steel production. The global consumption of scrap metal in steel production in 2021 increased to 620 million tons over the year, and the share of scrap in steel production increased to 32%, while in 2019, it was 30%, and in 2020, at the height of the epidemic -29%.



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## Oil is falling and incurring a large weekly loss, amid concerns about banks

Oil ended trading lower on Friday, giving up early gains that exceeded a dollar per barrel; concerns about the banking sector pushed the two benchmarks to record their most significant weekly losses in months.

Brent crude futures fell \$1.73, or 2.3%, to \$72.97 a barrel at settlement, while US West Texas Intermediate crude lost \$1.61, or 2.4%, to reach \$66.74.

Both benchmarks fell more than \$3, hitting their lowest levels during the session.

Brent lost about 12 per cent during the week, recording the most significant weekly loss since December.

West Texas Intermediate crude futures have fallen by 13 per cent since last Friday's close, recording their heaviest weekly loss since April.

"The fundamentals are not as bad as the market expects here, but there are concerns that oil will not be as safe as it is with cash or gold," said John Kilduff, partner at Again Capital in New York.

## Crude steel production in Brazil declined by 9.1% in February

Brazilian crude steel production reached 2.5 million tonnes in February, down by 9.1 per cent from January, according to Brazil's steel institute IABR.

Domestic steel products sales decreased by 7.2 per cent to 1.5 million tonnes, while exports increased by 10 per cent to 1.1 million tonnes, whilst the apparent consumption of steel products in the country (domestic sale plus imports) decreased by 9.9 per cent to reach 1.8 million tonnes, with imports down by 13.8 per cent to 325,000 tonnes.

Looking at total production in January and February, crude steel production decreased by 5.8 per cent to reach 5.3 million tonnes year on year, and domestic sales increased by 2.6 per cent to 3.1 million tonnes. Exports lowered by 4.9 per cent to 2.0 million tonnes, imports increased by 16.5 per cent to 702 thousand tonnes, while apparent consumption increased by 2.4 per cent to 3.7 million tonnes.



الشركة الليبية للحديد والصلب  
LIBYAN IRON AND STEEL COMPANY





### Technology

#### Sulb Company commissions SMS Group to modernize the Electric Arc Furnace

Sulb Company in the Kingdom of Bahrain has commissioned the SMS Group to upgrade its 130-tonne capacity Electric Arc Furnace (EAF). The main motive for this project is to increase safety and enhance efficiency and productivity and this will lead to improved quality of products. Production is scheduled to start in 2024.

The Bahrain Steel Plant, located in Hidd Industrial Area, has a melting unit and a medium and heavy rolling mill supplied by SMS Group, and the process starts from the direct reduced iron unit to the final product.

As part of the electric furnace modernization, a CONDOOR® slag door will be installed. Its aim is to improve and increase productivity as well as the safety of operating personnel as slag cleaning is performed automatically without the use of a slag removal forklift.

The upgrade will reduce energy consumption and increase production yield. Moreover, the iron oxide in the slag will be greatly reduced.

The four-thread continuous wheels are designed to produce six section sizes. The goal of the upgrade is to increase casting speeds and productivity through additional cooling and thread support in the uppers. The scope of the upgrade includes a Part 1 rebuild of the empty sections of the bloom and beam, including a new spray cooling system, water baffles, a new hydraulic system and an expanded vapour extraction system. The modernization of the wheel provides Sulb with greater flexibility in production and thus the ability to respond more effectively to market demand.

Ravi Singh, CEO of Sulb, said, “We chose the SMS Group because we trust the group’s technology and the excellent team. We have a long-term and good partnership between the group and Sulb. We focus on environmental steel production. SMS Group’s expertise and equipment have helped us with that. And will continue to help us improve.” Quality requirements constantly increase our productivity and environmental sustainability.

Sulb is an integrated company for the medium and heavy steel sectors and structural steel structures production in the Middle East. It is a joint venture between Foulath Holding Company and the Japanese Yamato Kogyo Company. Sulb has two factories, one in the Kingdom of Bahrain in Hidd and the other in the Kingdom of Saudi Arabia in Jubail. The plant in Jubail is a light to medium steel section plant, also supplied by SMS Group.



## SMS group modernizes SteelAsia's Calaca steel mill and implements digital solutions for higher annual production with lower CO2 emissions

SteelAsia Manufacturing Corp., the Philippines' top steel producer, is equipping its steel mill in Calaca City, Batangas, with SMS group-developed Digital Solutions that will provide a more efficient way to boost output without increasing its carbon footprint.

- Latest combustion technology to increase plant output by 20 per cent
- Digital solutions to predict machine failures at an early stage
- Reducing carbon footprint significantly by utilizing 100 per cent renewable energies.

SteelAsia signed a performance improvement agreement with SMS group to equip its Calaca steel plant with process automation and digitalization based on latest artificial intelligence to produce green steel. The EPICA project (EAF Performance Improvement Partnership for Calaca) utilizes the latest combustion technology and will be employed in the electric arc furnace (EAF). Additionally, the pollution control system will also be upgraded to support this project. The digital components of this package include solutions based on artificial intelligence and machine learning. The SMS Data Factory Suite functions as the central data platform. It collects all plant data, evaluates it and forwards this information to the appropriate systems, for example, to optimize real-time dashboards for KPI and plant monitoring. Here, the DataXpert software ties in. The complete platform for developing and managing condition monitoring and expert systems delivers real-time recommendations and notifications. Finally, the Alarm Manager will act as an intelligent alarm and maintenance management system to simplify fault analysis thanks to intelligent prioritization, multiple analysis options, linkage of resolution advice and automated notifications.

Data-driven prediction models are indispensable for improving performance and increasing plant availability. By utilizing machine learning algorithms to provide real-time insights into the plant's condition and process deficiencies, and by predicting machine failures, maintenance measures can be taken proactively, production can be rescheduled and productivity can be increased.

With the leading technology expertise from SMS group, for a cost effective conversion of the existing asset to produce green steel, SteelAsia's Calaca Steel Plant will have higher energy efficiency, allowing it to increase its output by 20 percent and cut emissions because of the new Digital Solutions. Engineers and technicians at the SteelAsia plant will be given extensive training on the use of all digital technologies. *"Advanced Integrated Solutions is the day's buzzword, and we are proud to have Calaca as the Philippines' first steel plant to be equipped with our leading technology,"* said Prof. Pino Tesè, Chief Sales Officer, India and Asia Pacific Region of SMS group. The use of renewable energies and efficiency improvements for reduction in greenhouse gas emissions, equally supported by recycling, is a vital factor for a sustainable circular economy.

*"It also means higher green steel production for the country as Calaca uses 100 percent renewable energy for steelmaking"*, Benjamin Yao, SteelAsia Chairman and CEO added. SteelAsia operates five other manufacturing plants in Bulacan, Cebu, Davao and Misamis Oriental. It is set to open a seventh plant this year in Compostela town, in Cebu, and increase its output from two million metric tons of steel rebars annually to three million metric tons.

SMS group





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