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Annual Construction Review 2017

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EDITOR'S NOTE

IN 2015 AND 2016, the construction sector took a hard hit with many projects stalled or postponed. This year, the sector has gained some ground largely due to the corrective measures by oilfocused regional governments towards infrastructure development. No doubt, the UAE and Saudi Arabia are leading the way, but other member nations are not far away. Take a look at our GCC Construction Review (p10) to know more. As construction takes off again, can steel production be far behind? Our Annual Steel Review (p20) will give you an updated market overview. Also, an exclusive interview with EmiratesGBC chairman (p16) puts into perspective how the UAE is paving the way for energy-efficient buildings.

Also in this issue, we have news from the HVACR industry (p34) and the latest industrial innovations (p40) in the Middle East.

> At Technical Review we always welcome readers comments to trme@alaincharles.com

IN THIS ISSUE...

BUSINESS & MANAGEMENT

Market News

AfDB approves US\$200mn loan to Morocco; LCVs launched at IVECO's new China plant; New ICMS standard to bring consistency in construction costs; UAE firms win US\$100mn Expo 2020 funding

ANALYSIS

GCC Construction Review

The sector sees an upturn and the investors see an opportunity

Steel In Demand

As demand gathers momentum, governments are aligning their policies for better output

INTERVIEW

Decoding Sustainability 16 EmiratesGBC chairman on what it takes to be the global leader in building sustainability

CONSTRUCTION

Glass Growth Demand for efficient buildings is leading to a bigger

glass market in the GCC

TRUCKS

Automation All The Way

Volvo Trucks paves the way for 'self-driving' vehicles that may be a reality in coming years

28

38

40

HVACR

10

20

24

Industry Updates	36
The latest news from the region's HVACR industr	у

EVENTS	
The Mining Show	

INNOVATIONS

Products and Progress

The latest offerings and developments featuring RANCO, INMESOL, Lijan Insulation, SDLG, PASCHAL, Comansa CM, Hitachi Construction Machinery, COORDINADORA

ANNUAL BUYERS' GUIDE

Construction Equipment and Services 48 Our comprehensive guide to the Middle East construction suppliers and manufacturers

ARABIC	
News	4
Analysis	6







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Briefly

Three UAE firms win US\$100mn funding from Expo 2020 grant scheme

THREE UAE-BASED organisations are among the first 29 from around the world to gain funding from the US\$100mn Expo Live fund. The organisations include Smart Labour, International Center for Biosaline Agriculture (ICBA) and Ver2.

Expo Live is an initiative of Expo 2020 Dubai. It is aimed at funding social enterprises and start-ups that offer products or services geared to improving people's lives and preserving the Earth.

Smart Labour is a smartphone app that uses voice-enabled content to teach blue collar workers skills in their own language and to provide them with smart services. The technology also allows them to report workplace violations. The ICBA specialises in developing technology for growing plants in desert environments.

Ver2 Digital Medicine helps develop a medical education model that can be used to train doctors in Africa, where a lack of suitable medical schools has meant there is a shortage of qualified doctors.

New ICMS standard to bring consistency in construction costs

THE INTERNATIONAL

CONSTRUCTION Measurement Standards (ICMS) has launched a new universal system that compares construction project costs around the world. According to the company, its system aims to improve cost prediction in infrastructure projects and slash investment risk. This first edition of ICMS focuses on capital costs; however, future editions of ICMS may incorporate other matters such as costs-in-use. It said that consistent practice in presenting construction costs globally will bring significant benefits to construction cost management. Cost classification standards were established for buildings and selected types of civil engineering projects like road and rail transport, oil and gas and utility sectors. This is achieved by the creation and adoption of the ICMSagreed international standards for structuring and presentation of cost reports. ICMS describes construction costs in terms of project scope, attributes and values descriptors

AfDB approves US\$200mn loan to boost Morocco's industrialisation plan

THE AFRICAN DEVELOPMENT Bank (AfDB) approved a loan of US\$200mn for Morocco to boost the country's industrialisation plan, local media said.

The loan will help fund the first phase of the support program of the Industrial Acceleration Plan, which aims to create 500,000 jobs by 2020 and to increase the share of industry in Morocco's GDP from 14 per cent in 2014 to 23 per cent in the same year. It also aims to improve the business environment, boost exports and support the financing of industrial activities that promote women's entrepreneurship and respect for the environment.

The AfDB has also approved a risk-sharing agreement amounting to US\$50mn for the Moroccan Central Popular Bank (BCP).

The agreement will help meet the growing demand of African markets for trade financing in vital economic sectors such as agro-food, health, services and industry. In addition, it will promote regional integration, the development of the financial sector and enable several African States to generate additional tax revenues. This deal will support Moroccan exporters in particular, and more broadly, African banks and SMEs.

"This project is in line with the AfDB's strategic priority in matters of regional integration," added Stéphane Nalletamby, the AfDB's director for Moroccan capital Rabat will host Africa's tallest tower. (Photo: Migel/Shutterstock)

financial sector development. "This operation will strengthen exchanges between the Maghreb and sub-Saharan Africa."

Meanwhile, a deal was recently concluded between Moroccan firms and a Chinese company to build the tallest skyscraper in Africa in the capital of Rabat. The deal was signed between China Railway Construction Corporation and Morocco's BMCE Bank of Africa and Travaux Generaux de Construction de Casablanca. The 55storev tower will be at least 250m high, with the adoption of ecological and sustainable design concepts. It will include offices, hotels and luxury apartments, according to a news report. The tower will be the highlight of a large-scale project to develop the Bouregreg valley in Rabat, a key component of the 2014-2018 Integrated Development Program dubbed 'Rabat, City of Light, Moroccan Cultural Capital'.

First unit of LCVs launched at IVECO's new China plant

NAVECO, THE 50-50 joint venture between IVECO and SAIC for light commercial vehicles (LCVs) and engines, previewed the New China Daily as the first unit off the assembly line at its new manufacturing plant in Qiaolin, Nanjing. According to IVECO, the new generation vehicle represents an investment of US\$310mn and aligns the Daily range offer in China with the most advanced European standards.

The New China Daily is a multi-functional commercial vehicle developed to compete in all segments of the Chinese market. With a



The New China Daily is a multi-functional commercial vehicle developed to compete in all the segments of the Chinese market. (Photo: IVECO)

complete and extensive line up, the New Daily China is ideal for customers who need flexibility covering with efficiency all the needs of all customer missions, from goods and people transport to special applications, as well as for customers who require a highly professional vehicle such as logistic operators. This versatility and flexibility is possible due to the completely new vehicle architecture with four different chassis and 27 types of body that leverages IVECO's exclusive body-on-frame structure.

The plant, which spreads over 843,000 sq m increases NAVECO's production capacity up to 100,000 vehicles per year. The new Qiaolin manufacturing plant is a world-class green operation that uses energy regeneration with solutions such as its solar photovoltaic system and rainwater and process water recycling system. This helps in the reduction of environmental impact of its operations through practices such as TNV waste gas burning, rain and sewage diversion and wastewater treatment. At this facility, NAVECO aims to reduce energy consumption by 30 per cent and to increase per capita output value by 25 per cent.

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25-27	Gulf Glass	DUBAI	www.gulf.glass
26-27	Intersolar Middle East	DUBAI	www.intersolar.ae
27	Annual Refrigeration Conference	DUBAI	www.refrigeration-forum.com
ОСТОВ	ER 2017		
2-3	The Mining Show	DUBAI	www.terrapinn.com
8-9	3rd Annual Health, Safety & Security Forum	DUBAI	www.hse-forum.com
23-26	Project Iraq	ERBIL	www.project-iraq.com
23-25	WETEX	DUBAI	www.wetex.ae
23-26	Saudi Build	RIYADH	www.saudibuild-expo.com
NOVEM	IBER 2017		
26-29	The Big 5	DUBAI	www.thebig5.ae
DECEM	IBER 2017		
3-5	Electricx	CAIRO	www.electricxegypt.com
3-5	Solar-Tec	CAIRO	www.solartecegypt.com
4-6	Gulf Traffic	DUBAI	www.www.gulftraffic.com

Readers should verify dates and location with sponsoring organisations, as this information may be subject to change.

ON THE WEB

A round up of the leading developments and innovations recently featured on *Technical Review Middle East's* online portal. To read more or to stay up to date with the latest industry news, visit *www.technicalreview.me*

'Mineral transport increases by 27 per cent in 2017'

THE SAUDI RAILWAYS Company (SAR) transported 4.06mn tonnes of phosphate and bauxite during the first half of 2017, an increase of 27 per cent from the 3.21mn tonnes during the same period in 2016. Bashar Bin Khaled Al Malik, CEO of SAR, said, "Mineral trains transported a total of 23,683,134 tonnes of phosphate, bauxite, molten sulphur and commercial



The company's operational division has achieved growth in phosphate and bauxite transportation in 2017. (Photo: SAR)

phosphoric acid between May 2011 and June 2017."

SAR has recently started transporting molten sulphur from the eastern province of Waset to Waad Al-Shamal in the north after successfully connecting the latter to its railway network. The company has also started transporting commercial phosphoric acid from Waad Al-Shamal to Ma'aden's refinery in Ras Al Khair in June 2017. www.technicalreview.me/construction

Iraqi port receives largest container vessel

GULFTAINER, AN INDEPENDENT port operator, has announced that it has received the largest container vessel to call at Iraq's ports to date. The vessel – YM Wealth, deployed by Taiwan-based shipping line Yang Ming Marine Transport Corporation (Yang Ming), arrived at Gulftainer's Iraq Container Terminal (ICT) facility.

Omran Radhi Thani, director general of National Ports Authority of Iraq; Osama Ali al-Maliki, director of Umm Qasr Customs Authority; and Rafi'e Yosif Abbas, director general of Iraqi State Company for Maritime Transport, were present at the occasion. Yang Ming currently operates a fleet of 98 vessels, primarily container ships, with the combined capacity of approximately 590,000 twenty-foot equivalent units (TEU). The company deployed the YM Wealth for the China Gulf Express (CGX) service on a revised route that now includes a call at the Umm Qasr Port, offering a direct connection between the Far East and Iraq. On its maiden call to ICT, the 5,551-TEU vessel discharged and loaded more than 2,500 containers. *www.technicalreview.me/logistics*

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The GCC construction market continues to hit a few roadblocks but hope for a better market prevails as opportunities continue to rise with the development of vital projects across the region. Nnamdi Anyadike reports.

Up seven per cent from 2016, the value of new building contracts in the GCC will hit US\$85.6bn in 2017.

HE CONSTRUCTION INDUSTRY across the six countries of the Gulf Cooperation Council (GCC) has improved markedly this year. This follows a rocky three-year period on the back of the oil price collapse, which last year culminated in a 33 per cent fall in project contract awards. Recent reports from the accounting firm Deloitte, the International Monetary Fund (IMF) and Middle East Economic Digest (MEED) all show an upturn in GCC construction as the private sector recovers in confidence. MEED added that the GCC construction market will continue to be challenging in 2017 due to continued uncertainty surrounding government spending, but the outlook is brightening.

There are certainly positive macroeconomic drivers for construction that include population growth, diversified economic growth, a growing younger labour force, and localised drivers such as Saudi Arabia's Vision 2030 and Expo 2020 Dubai, in addition to a strong tourism drive for a number of governments across the region. The recent Organization for Oil Producing Countries (OPEC) agreement to cut oil production appears to have further stabilised prices, at least in the short term.

Kingdom at the helm

The construction boom is evident across the region. However, it is led by the GCC's largest market Saudi Arabia. Under its Vision 2030 programme, investment in the kingdom's construction sector is expected to double this year. According to MEED, Saudi Arabia has more than US\$250bn worth of projects in the pipeline. Saudi Arabia says it plans to double infrastructure and transport spending this year. Its Vision 2030 programme provides a long-term



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Burj 2020 District in DMCC – Burj 2020 Tower		115-storey		UAE	
100-storey Tower in Business Bay for HDS Group (La Maison)		100-storey		UAE	
Jeddah Falcon Towers					
S Residence in Dubai Marina		80-storey		UAE	
Lusail Towers – Lusail Plaza		80-storey		Qatar	
Aykon City at Dubai Canal		80-storey		UAE	
IL Primo at Opera District		77-storey		UAE	
Photo: Shutterstock; Source: Ventures Onsite					

vision for economic development while the National Transformation Programme has set an economic strategy up to 2020 and the coming three years will be all about its implementation. In fact, it has almost as much work in the pre-execution phase as the UAE and Qatar, with US\$184bn and US\$69bn of work in the pipeline respectively.

A key factor in the upturn in Saudi Arabian projects this year was the establishment of a national centre for privatisation in March. The centre is responsible for the procurement of public-private partnership (PPP) deals. With more control given to the private sector, government oversight has to improve. The solution Riyadh has formulated is the establishment of professional project management offices within each government ministry and authority to oversee the delivery of future capital expenditure projects.

Following on its heels, four PPPs have been announced for airport projects at Yanbu, Taif, Qassim and Hail as part of its target of privatising all of its airports by 2020. New construction projects have also been announced in Saudi Arabia's water supply and sanitation sector.

But it is the hotel sector that dominates the construction market. Recent data released by the global data benchmarking and analytics company, STR, shows that Saudi Arabia has 40,145 rooms in a pipeline of 95 projects. This compares with 32,604 rooms in 116 projects in the UAE and 9,147 rooms in 37 projects under contract in Qatar. The Saudi and UAE hotel projects are equivalent to more than a quarter of the total 159,711 rooms in 581 hotel projects that are under contract in the Middle East.

UAE in focus

The construction industry in Dubai is undergoing a reboot. According to BNC Network reports, the combined value of 7,488 active building projects reached US\$228bn in the first half of the year ending June 2017. The building projects constitute 82 per cent of all active projects in the UAE's urban construction sector, and account for 44 per cent of the total estimated value, the report indicates.

Active building projects constitute all types of commercial and residential buildings, but not catering to education, healthcare, hospitality and retail sector, which are in concept, design, tender, under construction or on hold. According to the report, 5,276 projects, worth US\$99.4bn are currently under construction and tendering phase. Of the total 7,488 projects, 1,378 buildings, worth US\$89.9bn are on hold.

Most of these building projects are expected to be completed by October 2020 before the Expo 2020, says Avin Gidwani, CEO of BNC Network. "While the lower oil price might have dampened investor appetite, developers and contractors are going ahead with the building projects as planned. A number of these buildings are being developed to meet the anticipated rush during Expo 2020 Dubai."

About US\$3bn in construction contracts

for Expo 2020 are expected to be awarded this year, with more than US\$540mn of those contracts going to small and mediumsized enterprises. Expo 2020 awarded the same amount of contracts last year. Indeed, the Dubai Economy Tracker Index showed the construction sector to be at an 18-month high. Construction on Dubai Investments' iconic US\$250mn 70-storey freehold residential tower on Sheikh Zaved Road, next to Al Habtoor City and Damac's Aykon City, is on course to start before the end of this year. The company has a real estate development portfolio of US\$1.77bn and says that it will gradually launch more hi-rise towers across the emirate.

In the UAE capital, Abu Dhabi General Services Company, Musanada, has revealed that work is progressing as planned across four infrastructure projects in Mohammad Bin Zayed City, as part of its efforts to achieve the objectives of the Abu Dhabi Plan, aiming to provide sustainable infrastructure for the community and economy of the emirate, in line with the best international standards, according to *WAM* news agency.

"The total construction cost of the Mohammad Bin Zayed City projects will be US\$177mn, including the US\$76.2mn Z35 Sector project comprising internal roads and infrastructure works for residential plots over an area of 1.5mn sq m," said Saleh Al Sheibah Al Mazroui, Musanada's acting roads and infrastructure executive director. "This significant project is located in Mohammed Bin Zayed City, Abu Dhabi,

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20km to the south of the Abu Dhabi Airport, at the Al Mafraq Interchange of the Abu Dhabi-Al Ain highway. The project consists of roads and infrastructure works, including storm water, potable water, and sewerage networks, as well as telecommunications, street lighting, and electricity networks, together with 21 primary substations. Anticipated to be completed by next March, it will serve 517 residential plots, four mosques, three schools, and 28 community and sports facilities," he added.

Mansour Al Ameri, project manager of Sector Z35, said, "Split into three contracts, the project is expected to be completed as scheduled next year. The Sector Z35 project has been designed and is being executed in cooperation with Musanada's partners."

Kuwait calling

Meanwhile, in Kuwait the country's construction industry is expected to continue to expand in real terms in 2017 and beyond to 2021. It is being driven by the government's focus on the development of transport infrastructure, energy and utilities facilities, and affordable housing. Under Kuwait's Five-Year Development Plan (2015–2020) the government is committed to spending US\$117.7bn to develop roads, rail, airports networks, water infrastructure, power projects and social infrastructure. It was backed up in January 2017 with the launch of the government's New Kuwait 2035 strategy.

The PPP model is to play a major role in delivering Kuwait's new projects. Some US\$47.6bn will be invested in building the Mutlah Residential City, Al Subiyah Residential City, Sabah Al-Ahmad township, Bubiyan Island, Al Khairan residential city project and the Kuwait City, by 2020. Ground was also recently broken on the US\$2.5bn Hessah Al Mubarak District, a planned city on the outskirts of Kuwait City that is being developed by Kuwait Projects Company (KIPCO).

By 2020 the 227,000-square metre plot will house residential and commercial spaces, as well as parks and urban plazas. It is understood that 25 per cent of available plots have already been sold. The government is also looking to greatly expand its refining sector with the construction of new refineries. Plans are in place to build the Al Zour oil refinery, under the PPP model, by 2020.

Bahrain boost

There is also a high level of confidence in Bahrain's construction market. *Forbes*

reports that both the retail and residential real estate markets are poised for growth. According to the global commercial real estate adviser CBRE a sizeable number of residential tower projects are planned for completion in 2017 and 2018 in districts of high demand like Jufair. These are anticipated to lead to a significant increase in freehold supply over the next two years. At least 15 four and five-star hotels and beachfront resorts are also set to be launched within the next five years at a combined investment of more than US\$10bn.

All the GCC governments want to increase private sector investments to ease the burden of capital spending on the treasury, which will create new opportunities.

Oman in the race

Oman is also witnessing a substantial uptick in construction activity. The construction sector is the largest employer, providing jobs for 39 per cent of foreign workers and 25 per cent to local staff. However, new draft bills that will ease workforce restrictions and allow 100 per cent foreign ownership in the sector are designed to boost the sector still further. The private sector is heavily involved in construction and Oman's hope is that easing government controls will help drive continued expansion in the country's construction sector over the medium to long-term.

Under its 2016-2020 development plan, spending of US\$4.3bn per year is allocated for a range of projects. These include a waterfront complex at Port Sultan Qaboos, a new international airport terminal in Muscat and a national railway system. In the retail sector, construction is underway in the Mall of Oman. When it is completed in 2020, this 137,000 sq m mall, which is being built by Majid Al Futtaim at a cost of US\$714.2mn, will be the largest in the country. It will have 350 retail outlets and a 'snow park', similar to Ski Dubai at Majid Al Futtaim's 255,489 sq m Mall of the Emirates.

The country is also set to implement a series of infrastructure development projects to iron out traffic congestion and improve road networks. The projects include the construction of a new bridge connecting two major highways – the Shaikh Khalifa bin Salman Highway and the Shaikh Isa bin Salman Highway, the *Bahrain News Agency* has reported. The bridge is expected to be ready by Q4 this year.

Qatar crisis

But despite the impressive growth rates across the GCC, a cloud nonetheless hangs over the region. An economic blockade imposed by Saudi Arabia, Bahrain, Egypt and the UAE on Qatar could threaten all sectors of the region's economy. For Qatar, a lot is at stake. The country is hosting the 2022 FIFA World Cup and ahead of that, it has outlined over US\$220bn in investments to be spent on new roads, stadiums, facilities, and numerous major projects including hotels, leisure, and recreation.

There is no denying that the continued spat between Qatar and the Saudi-led economic blockade is causing some contractors to express concern. One World Cup supplier told the *UK Telegraph* newspaper that a number of them are drawing up departure plans amid fears that the dispute could delay the country's construction programme. Although Qatar has not confirmed the number of World Cup 2020 stadiums, it is expected to construct eight between 2018 and 2021.

However, as of July 2017, Qatar's construction sector appeared to be weathering the storm. Some Qatari commentators say that the blockade is actually helping the country's mammoth construction sector. This is because it is encouraging the streamlining of operations and enhancing efficiency by way of lowering inventory costs.

Qatar is also looking at alternative shipments of construction raw materials from elsewhere, particularly Oman. This is essential as prior to the blockade most of the materials required for building the World Cup stadiums had been coming by land route through Saudi Arabia.

With the new direct container services to Oman recently announced by Qatar Ports Management Company, besides new direct maritime links between Qatar and India, experts opine that Qatar's construction sector will be able to remain buoyant.

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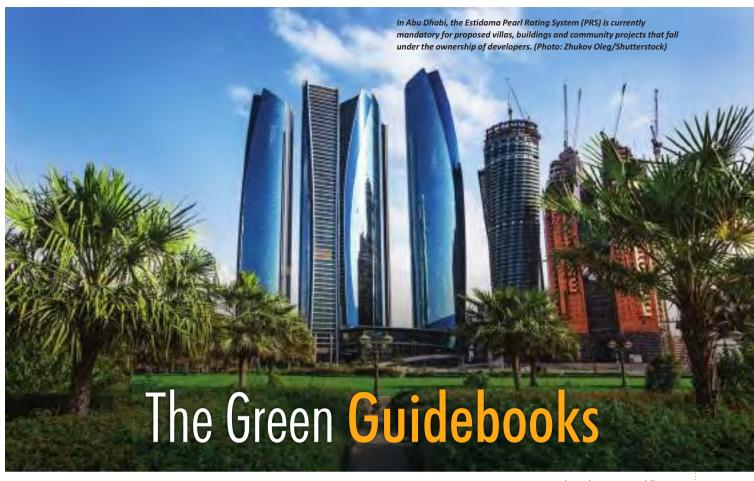


Material

Handling



Racing Team



Saeed Alabbar, chairman of Emirates Green Building Council (EmiratesGBC), in talks with *Technical Review Middle East* about the UAE's sustainable construction practices and the council's role in fulfilling the criteria.

Technical Review Midde East (TRME): In the decade since its inception, how has EmiratesGBC's role as the UAE's sustainability partner evolved?

Saeed Alabbar (SA): The EmiratesGBC is an independent forum aimed at conserving the environment by strengthening and promoting green building practices. Ever since our inception in 2006, we have focused on promoting dialogue and positive action in promoting green buildings.

EmiratesGBC has played a central role in facilitating the Green Building agenda in the UAE, working as a catalyst between the public and the private sector. As an independent entity supporting the evolution of the UAE as a green economy, our role is to serve as a common platform for all stakeholders to meet, interact, discuss and exchange ideas for promoting sustainable built environments, support decision making and influence policymaking. We do this through our events and programmes that can help in affecting these changes in sustainable building developments. We have partnered with several government departments over the years that have sustainability as their core agenda, such as the Ministry of Infrastructure Development, the Dubai Supreme Council of Energy, the Abu Dhabi Urban Planning Council, among others, to create opportunities that drive the nation's vision on a green economy. We also encourage the private sector and the community to become active participants in

"We have seen a significant increase in the number of LEED certified buildings, placing Dubai third among global cities." driving sustainable built environments. We have served as a catalyst in energy efficiency in existing building stock through introducing technical programmes as well as facilitate the growth of the energy efficiency market, and work to increase awareness and capacity building.

EmiratesGBC functions as a common platform for all stakeholders in the building industry supply chain, whereby they can meet, discuss, interact, and exchange ground-breaking ideas and help promote a sustainable built environment.

Through the last 10 years, EmiratesGBC has launched several initiatives, which added tremendous value to the sector. We launched the EmiratesGBC 'Energy Efficiency Programme' (EEP) that consists of an online database that serves as a catalyst for all stakeholders to support the growing number of building retrofit projects.

We are also committed to supporting the current focus of the UAE in retrofitting buildings to achieve the nation's overarching sustainable development goals. For this, we launched the *Technical*

Exclusive Interview 17

Guidelines for Retrofitting Existing Buildings, a handbook in English and Arabic, which serves as a textbook for the recently launched EmiratesGBC Building Retrofit Training Programme taking place in August and September 2017. The BRT Programme is in partnership with Dubai Supreme Council of Energy and Masdar.

Last year, we published the first energy and water benchmarking report that covered the UAE's hotels. This year, we have partnered with Dubai Supreme Council of Energy to benchmark the energy performance of Dubai hotels, malls and schools under the Dubai's commitment for the Building Efficiency Accelerator.

Our recent launch of the 'Green Building Tooltips,' freely accessible online on our website as a rich online resource on best practices, will help the construction industry and community to make their built environments more sustainable.

Additionally, our regular networking event 'Focus Days', the annual MENA Green Building Awards, and the annual EmiratesGBC Congress promote dialogue among industry stakeholders in driving sustainable development.

TRME: In 2013, Dubai became home to the world's largest sustainable building with a Platinum rating. Are there more projects like this that we can look forward to in the future in the emirates?

SA: The UAE is definitely seeing a paradigm shift in how buildings are being constructed. What we want is to see a holistic approach to green buildings and we have seen a significant increase in the number of LEED certified buildings, placing Dubai third among global cities in the world with the highest number of green buildings under both LEED and BREEAM certification.

According to EmiratesGBC's Green Building Market Brief May 2017, the total number of LEED Certified and Registered projects in the UAE are 191 and 897 projects, respectively. Furthermore, regulations by authorities such as the Dubai Municipality (Dubai Green Building Regulations and Specifications) and free zone authorities such as Trakhees - (Health, Safety and Environment), have mandated many green building features for new constructions in Dubai. This has further been strengthened with the launch of Al Sa'fat, the new building rating system introduced by the Dubai Municipality. The new system energises the ongoing initiatives to promote sustainable buildings, a key area of EmiratesGBC.



EmiratesGBC chairman Saeed Alabbar actively works to promote the advancement of sustainable building in the UAE and MENA region by working with industry, academia and government departments to develop collaborative solutions to some of the region's greatest sustainability challenges. (Photo: EmiratesGBC)

In Abu Dhabi, the Estidama Pearl Rating System (PRS) is currently mandatory for proposed villas, buildings and community projects that fall under the ownership of developers. According to *EmiratesGBC's Abu Dhabi Green Building Market Brief May 2017*

- More than 14,200 villas in Abu Dhabi are awarded a design rating
- More than 120 buildings in Abu Dhabi are awarded a construction rating
- More than 1,950 villas in Abu Dhabi are awarded a construction rating With regulation becoming more effective

and mandatory, the number of green buildings in the country will increase.

"The strong commitment of the government acts as a catalyst that drives green building projects in the UAE."

TRME: What, in your opinion, is the right mix for an energy-efficient building? Are high-tech buildings more sustainable?

SA: It's not just about high-tech buildings being more sustainable but an entire ecosystem that should encourage all stakeholders of the green building industry to be more efficient. The strong commitment of the government acts as a catalyst that drives green buildings projects in the UAE.

This, in turn, encourages de-carbonised diversification by setting targets in demand side management, and renewable energy generation. In addition to the regulations mentioned above, retrofitting initiatives such as Etihad ESCO's initiative in Dubai and the Tarsheed programme in Abu Dhabi also drive green building development.

When it comes to energy efficiency, an energy-efficient building is one which reduces its energy consumption by adopting energy demand conservation measures and installing energy efficient appliances and technologies. There are three major stages to increase the efficiency in buildings:

Stage 1 – Energy Demand Reduction Passive Design

- a. The building orientation optimal orientation to reduce heat gains and provide shading during summer – has an impact on energy-efficiency
- b. Having natural ventilation features in the building helps reduce the use of energy for mechanical ventilation systems
- c. Thermal insulation in the building envelope, glazing features, and the use of daylighting all makes a significant difference in a building's energy efficiency

Stage 2 – Increasing Energy Efficiency

 a. Install efficient lighting system (LED), use of efficient air conditioning systems and technologies, water heating and white good appliances

Stage 3 – Onsite renewable energy systems helps offset energy demand

Examples could be solar water heating systems and solar PV panels

High tech buildings have energy-efficient features, inbuilt automation systems, sensors and control units to maintain the building set points, measure the building performance and support the optimal operation of building systems based on the building's occupancy and functions.

EmiratesGBC, later this year, will publish a report to support defining Nearly Zero Energy Buildings (nZEBs) during the World Green Building Week in September 2017. With the aim of promoting highly efficient

Technical Review Middle East - Annual Construction Review 2017



building designs in the UAE, the study will serve to be a reference point to support future building regulations.

TRME: Building a 'green' building is necessary. However, does EmiratesGBC also look at restorative sustainability in existing buildings and what are the challenges to achieve it?

SA: As mentioned earlier, in 2015, the EmiratesGBC published its *Technical Guidelines for Retrofitting Existing Buildings* providing organised and resourceful information about building retrofit methods. As an extension to the programme, we have recently launched the Building Retrofit Training (BRT) Programme that is intended to enhance the foundational knowledge of participants from different backgrounds.

EmiratesGBC plays the role of an educational driver to support the restorative sustainability in existing buildings through its Energy Efficiency Programme (EEP). The EEP is a marketinfluencing and capacity-building platform created to facilitate the reduction of the UAE's carbon footprint through energy efficiency retrofits of existing buildings.

TRME: What are the technologies and trends that will gain ground in green building in the next five years?

SA: Beside energy and water efficiencies of the building in question, the trends that are expected to gain ground in the next few years are the occupants' well-being, comfort, health and indoor environmental quality.

The WELL Building Standard, managed and administered by the International WELL Building Institute, was created to measure and certify buildings that have lower impact on human health and wellbeing.

TRME: EmiratesGBC recently launched the Green Building Tooltips. Does this mean that the building has to be retrofitted or do the residents also have the option of following energy saving steps without making any changes to their assets?

SA: The EmiratesGBC Green Building Tooltips aim to familiarise readers from various backgrounds about sustainability measures, best practices and behavioural changes. The tooltips address low cost energy savings measures that require minimal changes to assets within schools, offices or homes.

The 'Lifestyle and Awareness' section in the Green Building Tool tips highlights these behavioural changes by addressing the following topics – plastics, recyclables, electronics and electrical appliances, energy, laundry and water demand usage.

TRME: Are you coming up with newer sustainability standards for UAE and, if so, what can we expect from future standards?

SA: As an independent forum, EmiratesGBC encourages and promotes the implementation of green building policies and rating systems, while the development, enforcement, application and certification are the responsibility of the concerned regulatory authorities.

TRME: Where do you see the UAE with its sustainability efforts in the global map? Where do the challenges lie?

SA: What is notable is the determined drive by regulatory authorities and government departments to ensure that the country's sustainable vision is achieved by a systematic approach. There have been significant steps taken in making its mark on the global map. By launching several initiatives and strategies such as the UAE Vision 2021, Dubai Integrated Energy Strategy (DIES), UAE Energy Strategy for 2050, Abu Dhabi 2030 Urban Structure Framework Plan, the country's leadership has shown strong resolve in ensuring a greener future for its residents. The UAE's sustainability targets are to reduce 30 per cent of energy and water consumption in Dubai by 2030; 75 per cent clean energy by 2050 in Dubai; achieve 75 per cent treated wastes by 2021 in the UAE and reach 50 per cent clean energy by 2050 in the UAE.

It's worth mentioning that some of the major challenges in the UAE are the rapid rise in population, the climate of the country, scarcity of water resources, lack of awareness in sustainability and environmental issues, operational challenges such as retrofitting existing buildings and the perception that sustainability costs more.

However, through the above-mentioned initiatives that the country's leadership have put in place, policy makers have already begun to implement measures to overcome many of these challenges in the future. EmiratesGBC will continue to independently support all such initiatives.

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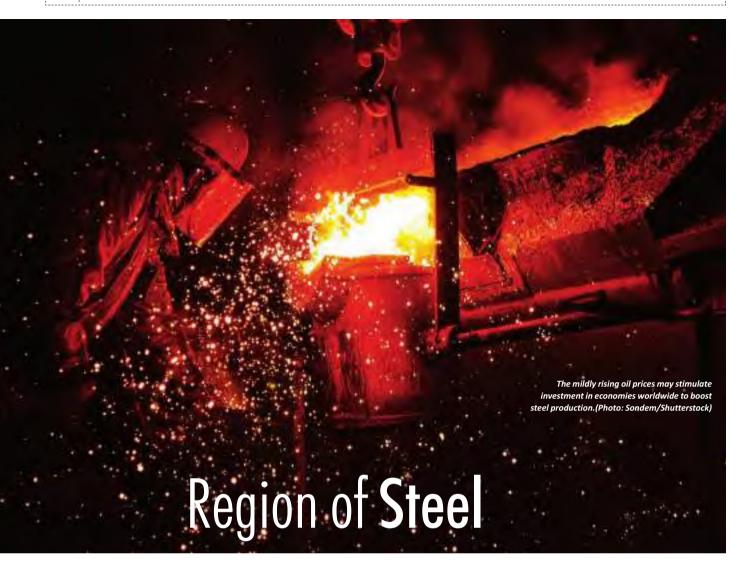
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Despite significant production and demand decline, steel production and exports have risen in the Middle East nations who are moving away from an oil-dependent to a manufacturing and construction-oriented economy.

Worldsteel forecasts that global steel demand will increase by 1.3 per cent to 1,535.2 metric tonnes in 2017 and by 0.9 per cent in 2018 to 1,548.5 metric tonnes. NOWN FOR ITS rich hydrocarbon resources, the Middle East region is now emerging as a hotspot for steel industry. Not only the governments but also private companies have been heavily investing in the steel sector that is poised to change the outlook of the region from an oildominant to a steel hub in the coming years.

The crude steel production in the Middle East increased by 9.41 per cent year-on-year in June 2017, according to the latest figures from World Steel Association (Worldsteel).

The region's output totalled 2.43mn tonnes in the same month, compared with 2.66mn tonnes in June 2016. Iran recorded the highest crude steel output in the region, producing 1.79mn tonnes in June, up by 16.36 per cent from 1.53mn tonnes in the corresponding month last year.

Production in the UAE totalled 268,000

tonnes in June, up by 25.82 per cent on an annual basis from 213,000 tonnes in June 2016, while Qatar produced 207,000 tonnes of crude steel in the same month, a 16.3 per cent rise from 178,000 tonnes a year earlier.

However, Saudi Arabia production decreased by 20.91 per cent with 401,000 tonnes of crude steel in June, from the 507,000 tonnes output a year earlier. Reuters reported in July that the drop in steel demand in the kingdom was seasonal, driven by Ramadan and Eid holidays.

Saudi Arabia biggest hit

The global oil price collapse has prompted Saudi Arabia to reconsider the development of its relatively under-performing non-oil related industries. These non-oil industries have been identified in 'Saudi Vision 2030' as a key focus for further development in order

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At present, the steel industry in Saudi Arabia is import-oriented. However, according to market experts, the share of imported steel will see a downward trend in the coming years as several major capacity expansion plans are currently under pipeline. Meanwhile, business conditions in Saudi Arabia improved in July 2017 due to rising demand and increased in construction activity in the kingdom, according to the Emirates NBD Saudi Arabia Purchasing Managers' Index (PMI).

The index, which measures economic activity in the non-oil sector, rose to 55.7 in July from 54.3 in June, the highest reading in three months. A ranking above 50 indicates economic growth, while a reading below 50 indicates a contraction.

The report found that manufacturing output and new orders increased at a faster rate in July compared to June. With new orders coming in, firms were able to increase their purchasing activity, with pre-production inventories rising at a faster rate in July. The increase real estate projects in different parts of the country are currently the key boosters, and this trend coupled with government initiatives will play a greater role in promoting reforms and increasing competitiveness.

Saudi Arabia also recently announced that it would cancel export duties on steel for two years to encourage local industries. Sabic has also reduced its rebar price for the domestic market by US\$67 per tonne in order to maintain market share amid lower prices from rivals.

Building boom in the UAE

With real estate and local infrastructure development in full swing, demand for steel in the UAE is on the rise. The steel manufacturing sector is currently witnessing standard trends with improvement in growth by 15 to 20 per cent compared to that of 2016, thanks to the announcement of major infrastructure development projects across the country. From the steel industry standpoint, local manufacturers are in a strong position to cater to each of the upcoming projects. According to *Khaleej*



The steel industry in Saudi Arabia is dictated by construction, manufacturing, transportation and energy projects. (Photo: Ali Al-Awartany/Shutterstock)

Times, commenting on the outlook for 2017, Bharat Bhatia, founder and CEO of Conares, said, "The overall outlook for the steel sector is mostly positive with 2016 having witnessed steady growth. Focussing on the current market and ongoing trends we can expect to see a growth of about 12 to 15 per cent in 2017 compared to 2016. With Expo 2020 Dubai nearing, we will witness real estate and local infrastructure development in full swing. We foresee no decrease in demand for steel."

According to Conares, 2016 has been fairly good with a consumption of three to 3.2mn tonnes of steel, while in 2017 it is expected that the market will grow to about 3.5mn to four million tonnes. Looking further at 2018 and 2019, there will be moderate growth. The steel market in the UAE is very active with the local producers being able to match up to the international prices and the country's growing demand.

Also, Emirates Steel, the only integrated steel plant in the UAE, owned by Senaat, has exceeded its last manufacturing record of steel making plant 2 (SMP2) to achieve 40 heats per day of 6,024 tonnes of beam blanks; accomplishing an unmatched record on international levels from a 150 tonnes Electric Arc Furnace. The company also reported that its rebar rolling mill RM5 production exceeded 500,000 tonnes per year in 2016. Last year, the company reported sales of 2,139,203 tonnes of rebar compared to 2,046,314 tonnes in 2015, 422,542 tonnes of wire rod compared to 353,106 tonnes in 2015 and 479,807 tonnes of heavy sections compared to 522,978 tonnes in 2015.

Emirates Steel also achieved an increase of 31 per cent in its deliveries of value added rebar and wire rod in 2016, whereas in 2016 it dispatched around 17,426 tonnes of value added rebar, and 49,370 tonnes of value added wire rod. Emirates Steel attributed the new record to operational improvements completed by the company; accordingly generating positive net profit despite the difficult market environment while achieving cost figures that are below international benchmarks.

2016 also saw significant progress in major projects for the group, including the April 2016 ground-breaking of the Al Gharbia Pipe Company plant, a JV between Senaat and Japanese partners JFE Steel Corporation and Marubeni-Itochu Steel Inc. The facility will be the first sour service

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capable, welded steel pipe plant in the UAE, and will have an expected production capacity of 240,000 tonnes annually.

Iran inching towards its goal

Iran's performance during the first five months of 2017 shows that the country has accounted for 64 per cent of the Middle East's raw steel production in this period, managing director of National Iranian Steel Company (NISCO) Abdol-Majid Sharifi, said.

As stipulated in Iran's Vision 2025, the country is expected to jump seven spots in the world ranking to No. 7 in raw steel production with an annual output capacity of 55mn tonnes. At present, Iran stands 14th in the global ranking.

The NISCO MD said global steel production in the first five months of 2017 witnessed a 4.5 per cent increase compared to the figure same period last year. This comes as Iran's steel production in the same duration was 13.1 per cent higher than the country's five-month output in 2016, he added. "Iran's YoY steel production growth in the said period of time was three times higher than that of the world."

Latest statistics show that Iran's raw steel exports during 21 March-21 June 2017, stood at 1.675mn tonnes, indicating a 67 per cent growth compared to the same period last year, which was 1.016mn tonnes.

The country's annual raw steel overseas sales are expected to exceed 15mn tonnes by 2025. In 2015 and 2016, Iran exported 4.2mn tonnes and six million tonnes of raw steel respectively.

North Africa gains ground

According to Turkish Iron and Steel Producers' Association (TCUD), in the first half of 2017, Turkish steel exports increased by 17.6 per cent to 9.93mn tonnes as compared to similar period last year.

Also, in the same period, semi-finished steel exports increased sharply by 400.6 per cent to 545,000 tonnes YoY. Long products exports declined by two per cent to 5.14mn tonnes and flat steel exports were up by 80.4 per cent to 2.31mn tonnes YoY. However, in June 2017, Turkish steel exports decreased by four per cent YoY to 1.46mn tonnes. Flat products exports continued to increase by 90 per cent to 396,000 tonnes.

The good news is that the Turkish steel imports in the first six months of 2017 decreased by 23 per cent to 7.57mn tonnes YoY. Semi-finished steel imports were in total 2.26mn tonnes; down by 37.6 per cent YoY. Flat steel imports declined by 12.3 per cent to 4.15mn tonnes YoY. In June 2017, total steel imports dropped by 35 per cent to 1.21mn tonnes. Interestingly, Turkey, world's second largest rebar exporter, imported 18,000 tonnes rebar from Italy and 5,000 tonnes rebar from Georgia in June 2017.

The other positive area is Egypt, which is battling with foreign exchange and energy shortages, but authorities are determined to remove the obstacles by taking concrete action. The government has also increased VAT to 14 per cent in the wake of International Monetary Fund (IMF) loan, which will help them to reduce deficit. It is expected that Egyptian steel industry will benefit from the housing and infrastructure projects announced by the government.

Egypt's steel production, meanwhile, increased by 40.9 per cent year-on-year to 531,000 tonnes in June, while its output for the six months was up 36.9 per cent yearon-year to 2.27mn tonnes.

According to a report, nearly three years after the implementation of a bailout plan, Morocco's Maghreb Steel is showing positive results. The national steelmaker has reduced its debt from US\$612mn to US\$459bn, Amine Elouali, deputy managing director of the company, said.

Maghreb Steel is actively working on achieving production efficiency. At present, company produces only 600,000 tonnes despite an installed production capacity of one million tonnes at their two plants, with an aim to produce 700,000 tonnes by the end of 2017.

The company is also doubling exports every year since the bailout plan, from 50,000 tonnes in 2015 to 100,000 tonnes in 2016 and plans to reach 200,000 tonnes in 2017. The destinations targeted are Spain, France, Algeria, Tunisia, Lebanon and West Africa. This year, the steelmaker has started exporting to Canada and the USA to benefit from free trade agreement (FTA).

Fight fake

As the demand for steel increases, the market of fake steel products in Middle East is growing year by year. This poses serious safety, legal and financial risks for all stakeholders with disastrous consequences.

A study commissioned by the Steel Alliance against Counterfeiting (SAAC) revealed in April 2017 that more than half the industry – 53 per cent – has reported an incident of, what is believed to be, counterfeit steel products at some point.

SAAC is made up of the world's 18 leading suppliers of steel products and is working to drive awareness and identify solutions to the growing problem of fake steel in the region. The research revealed that 79 per cent of

ie research revealed that 79 per cent of

construction industry professionals in the GCC are in favour of tighter controls over the import of steel products from certain markets. Government policies, including the UAE Fire and Life Safety Code, prescribe a very high standard for materials to be used in buildings and installations.

Andrey Burtsev, commercial director for the Middle East, Africa and Asia markets, Interpipe, said, "As the survey indicates, counterfeit steel products continue to pose significant risks across sectors and in critical installations like oil rigs, pipelines, oil refineries and so on. Through this study, we are supporting key governmental initiatives and procedures that protect society and sustain economic development."

Bertrand de Rotalier, managing director, Middle East, Vallourec, said, "We cannot emphasise enough the dangers of counterfeit material usage in our sector. This is the reason why members of SAAC are working together to apply preventive measures to fight the use of counterfeit tubular products."

The SAAC is working with the industry to develop measures allowing it to detect counterfeit material and forged certificates. The alliance is also carrying out trans-border investigations and initiating legal action against counterfeiters.

Ahmed Hashash, general manager, Pan Gulf Piping Systems Co., said, "Customer protection and safety are our top priorities, and that can often be neglected by unfair competitors. We cannot afford to put our reputation at risk. Therefore, we pay significant attention to the quality assurance confirmed by industry standards and hope to strengthen our trusted partnership with reputed producers."

Steel going strong

Apart from major landmark projects, the improved efficiency of supply chain ecosystem in the industry, the capacity and technologies in place to cater to the requirement, and facilitating the adoption of latest innovations in production have also played a key role to signal a boom in the steel industry in Middle East.

The region has many infrastructure projects such as Expo 2020 Dubai in the UAE, 2022 FIFA World Cup in Qatar, Kuwait Development Plan 2015-2020, which will help in boosting regional steel consumption. However, Saudi Arabia remains a concern for the Middle East, given its fragile situation due to fall in oil prices. The outlook for the Saudi Arabian steel sector is gloomy and it is widely predicted that the economic revival will not be likely before mid-2017.

Reflecting GCC's sustainable standards

With its ability to generate renewable energy from solar thermal and PV applications to insulating buildings, glass can be looked upon as the ideal building material for achieving energy efficiency to mitigate climate change.

ORE AND MORE developers in the Middle East, especially the GCC, are increasing looking at using glass materials for construction. The demand for construction glass products is growing at a significant pace and is projected to grow at an even higher rate in the near future. Even with a tightened budget, the GCC governments are going ahead with major projects and, therefore, the construction sector is stable, to an extent. This has also led to designing of sustainable and low-energy buildings, a condition fulfilled by glass. The construction glass market can be classified into two main categories based on application: residential and non-residential.

The reason behind huge consumption of construction glass in commercial segment is due to its ability to offer numerous solutions, such as solar protection and temperature control, high resistance to electricity and chemicals, least affected by changing climatic conditions, and flexible moulding.

Construction glass has become an alternative to most of the building materials such as polycarbonate, brick, and wood. Construction glass is increasingly used as a building construction material owing to key factors such as it increases the influx of natural light in the building, safety, security and environmental sustainability. Furthermore, the advancement in manufacturing technology has made glass stronger than steel and lighter than cork, thus making it more economically viable in construction. Some of the barriers for the manufacturers, however, is increasing cost of raw materials. This is also affecting the manufacturing cost as the profit margin of the retailers is reducing due to increasing cost.

Cision Research and Markets has forecast that the construction glass market in the Middle East will grow at a 7.6 per cent (CAGR) until 2022.

With Abu Dhabi's recent 'Gold Leadership in Energy and Environmental Design (LEED)' certification award for glass-enclosed towers and Dubai Electricity and Water Authority's (DEWA) initiative to maximise reliance on clean energy by Expo 2020, the glass industry has the advantage over other building materials.

Emirates Glass LLC, a subsidiary of Dubai Investments PJSC and one of the largest processors of flat architectural glass in the region, has announced that it has achieved strong results in 2016 compared to 2015 with profits exceeding all previous records.

Emirates Glass also announced that it currently has projects worth US\$29.95mn on hand, and is executing more than US\$16.33mn worth of contracts in GCC countries alone.

Rizwanulla Khan, executive president at Emirates Glass, said, "The eco-friendly glass of Emirates Glass offer multifunctional benefits – offering low thermal transmission and low emissivity, keeping out direct solar heat gain and maximising visible light transmission,



Glass is one of the most versatile materials for building construction throughout the world. (Photo: Tim S/Shutterstock)

leading to overall enhanced energy savings."

Glass is an inherent part of the construction industry in the region, and with over US\$2.8 trillion forecast to be spent on construction in the GCC countries, there is huge demand for cut-to-size, sustainable, post-temperable coated glass products to be used for both commercial and residential projects, according to Khan.

Gulf Glass

To address the needs of the glass industry in the Middle East, dmg events Middle East, Asia and Africa will return with Gulf Glass, from 25-27 September 2017, at the Dubai World Trade Centre.

With an aim to showcase the latest manufacturing and processing technology in the glass industry, more than 140 regional and international exhibiting brands will be featured in the event along with decision makers from the glass community in the region.

Muhammed Kazi, director of Gulf Glass, explained that the future of the construction glass industry is pinned against the unification of two themes – commitment towards sustainability and an efficient use of glass materials by the contractors.

The opportunities in glass industry are stretching from the solar energy sector, where glass is a principle material for panel builds, to the increasing demand for value added architectural considerations such as acoustics and utility reduction.

With Canadian Solar's commitment to supply 268MW glass-based solar modules to the Expo 2020 Dubai and the architectural firm Foster + Partners' glass-enclosed construction at Dubai Mall in collaboration with Apple, there is expected to be a boost to further glass projects in the Middle East, especially the GCC.







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Recent REPORTS SUGGEST that construction awards in the GCC may hit US\$85.6bn in 2017 and more than US\$40bn in contracts to be awarded in the UAE alone this year.

As the need for effective building models continue, Bentley Systems brings to us products and models that can quickly produce high quality and economical designs.

One such system was used by UAEbased Rasana Engineering. The firm used Bentley applications to deliver the luxury US\$544.5mn Nakheel Mall, which serves as the centerpiece for Dubai's world-famous manmade island, Palm Jumeirah.

The sole steel contractor for the project, Rasana used STAAD.Pro Advanced for analysis of all steel structures and Sectionwizard for the irregular built-up steel sections.

Implementing an integrated analytical modeling approach resulted in a 15 per cent savings in design time for this state-

of-the-art complex featuring five retail levels with 350 shops, restaurants, and leisure attractions spread across 1.2 million square feet of leasable space.

Located in Palm Jumeirah, off the coast of Dubai, UAE, the Nakheel Mall is a 418,000- sq m complex featuring a hotel, medical centre, fitness facility, and cinemas, as well as a three-level underground parking structure that accommodates 4,000 vehicles. The facility boasts a VIP entrance and rooftop fountains and waterfalls plunging 19.8m into the mall. Nakheel Properties retained Rasana Engineering (Rasana) as the sole steel contractor for the project. To design the steel structure economically and safely, without sacrificing quality, Rasana needed interoperable structural design technology with advanced analysis capabilities.

Integrating STAAD.Pro Advanced reduced the originally budgeted 7,900 design hours to just 6,656 hours.



Rasana used STAAD.Pro Advanced for analysis and design of all steel structures, and Sectionwizard for irregular built-up structures. The project team initially modeled all structures in Tekla and then imported them directly into STAAD.Pro Advanced for further design and analysis. The flexibility and interoperability of Bentley's 3D structural analysis and design applications enabled an integrated design approach to deliver this unique world-class structure offering sprawling views of Dubai's skyline.

Using STAAD.Pro Advanced helped economise on a majority of the steel sections resulting in a 15 per cent savings in design time. The direct integration between STAAD.Pro Advanced and Tekla improved project collaboration and eliminated the rework of inputting information, while the dynamic performance of STAAD.Pro Advanced

accelerated the analysis process and helped Rasana deliver on-time, in-budget construction drawings. The focal point of the world's largest manmade island and popular holiday spot, Nakheel Mall will be a huge boost to the local economy.

Productivity promised

Integrating STAAD.Pro Advanced reduced the originally budgeted 7,900 design hours to just 6,656 hours. The flexible modeling environment enabled Rasana to better understand the behavior of the structure more quickly and instilled confidence that the design was 100 percent compliant with local steel requirements. Bentley's interoperable design and analysis applications optimized analytical modeling, allowing Rasana to efficiently define a complex model, streamline collaboration, and enhance information mobility among the team to meet project deliverables.

Jebin Jacob, structural design engineer, Rasana Engineering, said, "Bentley's technology helps our projects to be designed economically without sacrificing safety and quality. Using STAAD.Pro (Advanced), we were able to better understand the behaviour of our structure very quickly. This enabled us to deliver construction drawings on time and within budget."

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Self-driving Volvo FMX trucks being tested in regular operations in the oliden mine in Kristineberg, Sweden. (Photo: Volvo Trucks)

Technology takes the driver's seat

Volvo Trucks is pushing the 'self-driving' experience to a whole new level with its innovations and sustainable solutions.

S AUTOMATION TAKES over dayto-day processes in the every industrial sector, the truck industry is not unaffected by this change. In recent years, many truck manufacturers have started to experiment with self-driving trucks and there has been a significant leap in the achieving automation. Swedish premium heavy construction machinery maker Volvo Trucks is at the forefront of this automated evolution for more than two decades that promises productivity, safety and energy efficiency.

According to Mikael Karlsson, V-P of Productivity and New Concepts, Volvo Trucks is creating a new kind of automation to complement the driving experience. "This is a key enabler for increased productivity. The technology might involve replacing the human with that of a machine, but the focus is based on customer experience. This is a software-driven approach in which we are looking at taking a broader part of the value chain."

Volvo Trucks has been working on automated technology for 12 years in both confined spaces and public roads.

Sasko Cuklev, director, Customer Solutions and New Concepts, adds, "We believe that a high automation level will be achieved in confined spaces since employing automation in public roads is way more complex. As confined spaces are often private areas and, therefore, not subject to restrictions, we are able to test solutions more quickly to capture value. We can learn a lot from that and apply that information for public road solutions."

Boliden Mine, Sweden

Volvo Trucks is taking yet another important step in the development of autonomous vehicles. Self-driving Volvo FMX trucks are being tested in regular operations in the Boliden Mine in Kristineberg since August 2016. The aim is to examine how this technology can contribute to safe and productive transports in tough geographically limited application areas.

"Through our cooperation with Boliden, the development of autonomous vehicles is entering an exciting phase. This is the first time that self-driving trucks are being tested in regular operations underground, and the results will provide valuable input to our ongoing mission to transform technical breakthroughs into practical customer benefits," explains Claes Nilsson, president, Volvo Trucks.

This R&D project reveals that self-driving trucks may offer a significant contribution to increased transport efficiency and productivity, particularly in mines, ports and other geographically limited and wellcontrolled environments with a large proportion of repetitive driving.

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The vehicles used in the mine are seriesbuilt Volvo FMX trucks equipped with new functionality. Among other things, they include a system incorporating radar/laserbased sensors. This system is initially used to monitor the mine's geometry and to generate a map of the route that the truck has to traverse. The collected information is then used to regulate the vehicle's steering, gear changes and speed. On every new trip, the sensors are used to continuously scan the area around the truck and further optimise both the operation and the route.

During blasting operations, drivers usually wait until the mine gallery has been ventilated before the ore can be loaded, but with self-driving trucks there are no such restrictions. This means that each truck can carry out more transport assignments per shift. The vehicles become an integrated part of the mine's overall production system. Smoother transport flow and steadier speeds are also accompanied by lower fuel consumption and less wear and tear.

An autonomous truck must be at least as safe and reliable as a manually driven truck. If an obstacle appears near the truck, the vehicle stops automatically and the transport management centre is alerted. Of the six sensors included in the system, there are always two that monitor the same part of the truck's surroundings. If a fault occurs with the truck, it can be remotely operated from the transport management centre.

Sugarcane plantation, Brazil

In Maringá, an hour's flight west of São Paulo, the Usina Santa Terezinha Group produces sugar and ethanol from its own sugarcane crops. In the past growing season, the company's huge fields have served as a test area for a prototype vehicle from Volvo Trucks. The truck was developed to examine how automated driving can make it possible to avoid damage to soil and crops, thus boosting revenues. The potential for bigger harvests is significant – up to ten tonnes per hectare per year.

"With the help of Volvo Trucks' solution we can increase productivity, not just for one single crop but for the entire lifecycle of the sugarcane plant, which lasts five to six years," explains Santa Terezinha's finance and procurement director, Paulo Meneguetti.

At present, sugarcane is brought in from the fields using harvesters and manually controlled trucks, which drive alongside each other at a low speed. When a truck is fully loaded and drives off to empty its load, the next one moves up next to the harvester and the procedure is repeated. The big challenge for the truck driver is to match the speed of the harvester and at the same time concentrate fully on driving in its tracks, so as not to trample the nearby plants that will become the following year's crop. Volvo Trucks has solved the problem with a driver assistance system that automates steering. It ensures that the truck always maintains exactly the right course when it drives to, alongside and away from the harvester, so that the plants are not damaged by trampling. With the help of GPS receivers, the truck follows a coordinate-based map across the sugar-cane field. Two gyroscopes ensure that not only the front wheels but the entire vehicle is steered with great precision, to prevent the truck from veering more than 25mm laterally from its set course. When loading, the driver can choose to regulate speed with the help of the vehicle's cruise control, or to accelerate and brake manually. Since the driver is released from the burden of the concentrationdemanding and tiring high precision steering process, it is easier to remain focused and work in a more relaxed way.

"With this solution we will soon be able to significantly increase the productivity of our customers in the sugarcane industry. At the same time, we will improve their drivers' working conditions and safety. This, in turn, will make the job more appealing, and make it easier to recruit and maintain drivers," says Wilson Lirmann, president of Volvo Group Latin America.

Refuse truck, Sweden

Together with Swedish waste management company Renova, Volvo Trucks is currently testing and researching how automated vehicles can contribute to safer, more efficient refuse handling and create a better working environment for drivers. The automated systems being tested are in principle the same as those fitted to the autonomous Volvo truck operating in the Kristineberg Mine in Sweden since 2016.

"Driving a heavy commercial vehicle in an urban residential area with narrow streets and vulnerable road users naturally imposes major demands on safety, even when the vehicle's speed doesn't exceed a normal walking pace.

"The refuse truck we are testing continuously monitors its surroundings and immediately stops if an obstacle suddenly appears on the road. At the same time, the automated system creates better prerequisites for the driver to keep a watchful eye on everything that happens near the truck," explains Carl Johan Almqvist, traffic and product safety director, Volvo Trucks. The first time the automated refuse truck is used in a new area, it is driven manually while the onboard system constantly monitors and maps the route with the help of sensors and GPS technology. The next time the refuse truck enters the same area, it knows exactly which route to follow and at which bins it has to stop. Since the automated systems optimise gear changes, steering and speed, fuel consumption and emissions can also be reduced.

Although the technical scope already exists, a lot of research, testing and development remains before self-driving refuse trucks can become a reality.

The current joint project is expected to continue until the end of 2017 and will be followed by an extremely thorough evaluation of functionality, safety and, not least, how well this type of vehicle is accepted by drivers, other road users and local residents. Vehicles with varying degrees of automation will probably be introduced earlier in other applications, where transport assignments take place within strictly confined areas such as mines and cargo terminals.

Not just self-driving

Tests involving self-driving vehicles are among several research and development projects in which Volvo Trucks is examining the scope for making trucks more autonomous. Several of the systems found in today's Volvo trucks, such as adaptive cruise control (ACC), work towards the same goal. The global market will see more and more solutions that offer ever greater degrees of driver support. Self-driving trucks may gradually complement mining operations but for transport operations on public roads the driver will continue to play the major role. Meanwhile, as Dubai announces its Autonomous Transportation Strategy 2030 for at least 25 per cent of transportation trips to be driverless, Volvo Trucks wishes that commercial vehicles too can be a part of this agenda.

However, even as the shift is tilting towards automation in the transport sector, challenges namely regulatory (government and environment), commercial and technological (sensors and codes) remain. Karlsson says that driverless future is possible but only time will say when.



MB Crushers penetrates into the Middle East market

World's first crusher bucket still going strong

PRODUCED AND PATENTED by MB in 2001, MB Crusher's BF90.3 was the first crusher bucket to be made in the world.

The crusher bucket is designed to eliminate material friction in the loading phase and to resist even the most difficult conditions on site. The BF90.3 is compact and versatile and has been improved and strengthened over the years. The company states that it is suitable for all crushing operations, even the harshest, keeping its performance level with any type of inert material.

One of the projects that MB Crusher Bucket BF90.3 is used for is to crush limestone from excavation on a Komatsu PC300LC in a quarry in Lebanon.

The crushed material will be recycled and sold as aggretates for buildings and construction projects.

The aplications of the crusher bucket are multiple. Recycling, urban job sites, road works, demolition, excavation, quarries and mines, foundry and tunnels and enclosed spaces are a few of the areas of application for the product.

MB Crusher is a leading company in the fields of crushing, demolition and recycling by designing, producing and selling the very first jaw bucket crusher.

Since 2001, it has offered the largest line of patented crusher buckets all over the world, including crusher buckets for excavators, skid loaders and backhoes of all sizes.

Built for extreme conditions

MB CRUSHER BUCKETS are being used in the lime and sandlime quarry in Al Kharj, Saudi Arabia, where the machines are working to recover inert material to be reused for the construction of a new subway in Riyadh. Two MB crusher products have been used in this guarry the BF135.8 crusher bucket (for excavators weighing over 43 tonnes) and the MB-S18 screening bucket (for excavators between 20 to 35 tonnes). The largest models have been manufactured to satisfy the needs of the operators in the quarry sector, where the performance of hourly production yields and of resistance over time are necessary. The MB patented system aims to achieve the expected manufacturing targets and a strong reduction in the costs linked to the consumptions, even with sturdy materials.

The MB buckets offer versatility of use, the possibility of crushing on site under any condition and the capacity of lowering costs, the company stated. The crusher bucket, in fact, operates in couple with an excavator, normally already available at every worksite. MB Crusher commented that even large companies, which in their own quarries already own large crushing installations, often decide to equip themselves with the MB crusher buckets. This allows them to cover many particular situations and processes, such as working in tight spaces and difficult to access spaces.



MB crusher uses exclusive and patented Made in Italy technology and is built to process all extracted materials, in order to render it reusable directly onsite. The precision of production aims to allow materials that were previously destined solely for disposal to be processed in calibrated batches, which can be resold or reused onsite, thus leaving the mineral balance of the quarry unaltered.

The range of MB crusher and screening buckets dedicated to quarries are designed for operations in steep and uneven areas, characterised by substantial changes in temperature. They require only simple and rapid maintenance, which can be carried out directly by excavator operators on-site. The flexibility and innovation of MB products leads companies, which already have large mobile and fixed crusher plants, to equip themselves with MB crusher and screening buckets.

MB Crusher signs Q-Fab as exclusive distributor for Qatar

MB CRUSHER HAS appointed Q-FAB – Qatar Welding & Fabrication Supplies – as exclusive distributor for Qatar.

"We are very pleased to have confirmed this agreement since we are confident that this partnership will capture more opportunities in the market and will provide enhanced services to meet our customers' requirements, " said Najmeddine Sahraoui, deputy of the general manager of Middle East and Africa at MB Crusher.

Under the distribution arrangement, Q-Fab will sell, service and support in the region, the complete MB Crusher range of crusher and screening buckets, sorting grapples and drum cutters.

Mohamed Al Mrayat, head of sales deparment at Q-Fab, said "Our company established in 1996 and it is fully equipped in terms of market and product knowledge and operational excellence to service MB Crusher's customers. We are very delighted with the MB Crushers appointment: our common goal is focused on improving the market support and servicing our customers to the highest level of satisfaction".

BF90.3 in action at a limestone quarry in Bahrain. (Photo: MB Crusher)



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Taxing times ahead?

With only four months to go for value added tax (VAT) to come into effect across the GCC, governments are taking every bit of an effort to 'soften the blow' on citizens. Martin Clark reports.

TARTING 1 JANUARY 2018, the countries of the Gulf Cooperation Council (GCC) will introduce value added tax (VAT) for the first time, a move that may or may not have repercussions for the region's popular free trade zones. The intention is to launch a five per cent tax despite administrative and technical obstacles, which could see some member states lag behind.

GCC governments hope that the harmonised tax hike will help offset the impact of lower oil prices, which have eaten away at state coffers in recent years.

The UAE Finance Ministry announced over the summer months that it was still on track to implement the tax, and that others, including Saudi Arabia, were also ready to follow suit. Indeed, Saudi finance minister, Ibrahim Al-Assaf, confirmed in May that the kingdom will be ready for the launch date.

Meanwhile on 31 July, HH Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE, Emir of Abu Dhabi and the Supreme Commander of the Union Defence Force, has issued a new law defining the role of Federal Tax Authority (FTA). The Federal Law No. 7 of 2017 for Tax Procedures also sets out the foundation for the planned UAE tax system. The law defines a clear set of common procedures and rules that will be applied to all tax laws in the UAE like VAT and excise.

This includes tax procedures, audits, objections, refunds, collection and obligations such as tax registration, taxreturn preparation, submissions, payment and voluntary disclosure rules.

According to local news agency WAM, the new federal law also sets out a list of penalties for non-compliance. It establishes a clear process for appeals and a fair and transparent environment for the FTA to carry out its mandate.

Speaking on the law, HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, UAE minister of finance and FTA chairman added, "We are working to establish an optimal legislative and executive environment to ease the nation into the VAT and excise tax systems. Implementing these taxes gives the UAE further leverage when it



Dubai's Jebel Ali Freezone is the largest freezone in the MENA region. (Photo: Gagliardilmage/Shutterstock)

comes to international competitiveness." In a bid to soften the blow, the UAE also announced that it will most likely be

announced that it will most likely be enforcing a waiver on around 100 goods and services, such as food and healthcare.

Officials and economists have conceded privately that simultaneous introduction in all countries may not be feasible and that some states may delay the introduction.

The GCC bloc also includes Kuwait, Oman and Bahrain. However, the general view is that it is not the political situation facing the GCC – with the isolation of Qatar by Saudi Arabia and other states – that would enforce delays, but economic and practical reasons.

Whether users of the free trade zones are ready for the VAT launch is another matter entirely, with experts suggesting that GCC businesses as a whole remain woefully unprepared for the new system.

While few firms in the GCC have in-house VAT expertise, freezone users include a disproportionate number of large, international corporations adept at navigating complex tax regimes. Saudi Arabia published its draft VAT laws in May providing a greater level of clarity such as zero-rating on goods movements from other GCC states.

When it comes to freezones, technically, the new tax regime gives rise "to a range of complex questions", according to a PwC report on the subject. Key considerations, it says, include:

- The VAT classification and treatment of goods and services obtained inside the freezone, brought from outside the freezone, and overseas.
- The VAT treatment of supplies from one freezone to another.
- The VAT treatment of entities operating in freezones (fenced) and free trade zones (unfenced).
- Any organisational and structural changes required to optimise competitiveness.

In the UAE, at least, the good news is that freezones are presently enjoying strong trading despite an uncertain global economic backdrop, providing a degree of resilience to the tax changes.

Last year, Jebel Ali Freezone attracted 470 new companies to its ranks and in Q1 2017, a further 122 from 33 countries. Its owner, ports giant DP World, is also flying high on the back of good results and continues to invest in digital and automation technology to prepare the freezone for future growth.

Importantly, key experts – including the International Monetary Fund (IMF), which concluded a visit to the UAE in July – suggest the planned VAT introduction will not have a significant adverse impact on overall growth.

At a time when the region is hurting under the impact of flagging oil prices, this a welcome news, including the freezone operators. EXPERIENCE AND KNOW-HOW

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Carrier launches two cooling solutions exclusively for Middle East

CARRIER HAS INTRODUCED two new innovative cooling solutions ideal for the Middle East. The new XPower variable refrigerant flow (VRF) system and AquaForce® 30XV air-cooled screw chiller were launched in Dubai and Abu Dhabi.

The XPower VRF is ideal for the Middle East region as it operates in high ambient conditions – up to 54°C – with a high efficiency ratio (EER) of 14. It consists of 12 different types of indoor units with a wide capacity range, including fan coil units and air handling unit (AHU) connectors. Installation is easy with condenser units with a small footprint and easy-to-transport, flexible piping that reaches up to 1,000m for a single refrigerant circuit and can connect up to 64 units indoors with automatic addressing.

AquaForce 30XV air-cooled screw chiller is highly versatile and energy-efficient with a range of benefits, including tiered capacity offerings from 140 to 500 tonnes as well as a variety of other features. To ensure performance and efficiency, the AquaForce[®] 30XV has variable frequency drives that are IP55-rated and fully air-cooled by ambient air. It also utilises a next-generation rotary screw compressor, which is designed and



The AquaForce 30XV offers a footprint that is significantly smaller on average versus conventional designs while achieving best-in-class industry-leading IPLVs above 21 and fully meeting ASHRAE 90.1-2016 requirements. (Photo: Carrier)

optimised specifically for variable frequency drive operation: no slide valve, reduced pulsation, lower noise and better efficiency. With its operating envelope in ambient temperatures of -29°C to 55°C, it is suitable for a wide range of applications including schools, hotels, data centres, offices and residential buildings. The AquaForce chillers with Greenspeed intelligence deliver superior efficiency throughout its operating range to keep costs down. This performance provides significant energy savings and lowers the cost of ownership.

"We are proud to launch these highly efficient and versatile products in the UAE," said Mohammed Al Qaisi, general manager, UTS Carrier.

ASHRAE to open new training centre in Dubai, conduct training courses

AMERICAN SOCIETY OF Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has launched the inaugural course schedule for its new Global Training Center for Building Excellence in Dubai with 'HVAC Design Essentials' slated as the first planned training opportunity. The course will run from 10-13 September.

The creation of the ASHRAE Global Training Center was announced at the ASHRAE Annual Conference in the USA in June. The focus of the centre is to make curricula-based, region-specific training conveniently available on a regular schedule. The training offered will be customised and scalable based upon climate, culture, suppliers, energy sources, prices, codes and construction practices.

"The ASHRAE Global Training Center in Dubai is a tangible step toward our goal of extending our global community to better embrace our industry's shared needs and objectives," sais 2017-2018 ASHRAE president Bjarne W. Olesen. "By creating this training centre, our members in the Middle East will be more empowered to continue producing and sharing technical guidance worldwide while being better equipped to serve the needs of their local communities."

'HVAC Design Essentials' will feature training that provides participants with practical skills and knowledge to design and maintain HVAC systems. Participants will receive real-world examples of HVAC systems based on the renovated ASHRAE Headquarters and on buildings in the Middle East and Northern Africa (MENA) region. The training leaders for this course are Walid Chakroun, Ph.D., Fellow ASHRAE, and Donald Brandt, BEAP. All courses are eligible for Professional Development Hours (PDHs). Credits correspond to the hours of instruction and these credits are recognised by the ASHRAE Global Training Center for Building Excellence.

Empower and Trane in world's biggest deal for chillers purchase

EMIRATES CENTRAL COOLING Systems Corporation (Empower) has announced a partnership with Trane Commercial for the purchase of new chillers in what is considered the biggest deal in the district cooling industry worldwide.

The agreement was signed in Arizona, USA, in June 2017. Trane Commercial will supply Empower with 30 advanced, eco-friendly chillers with a total RT of 100,000.

Under this agreement, Empower also has the right to buy additional 30 chillers with a total RT of 100,000 in the future, which makes this agreement the biggest in the district cooling industry worldwide.

"We are excited to partner with Trane Commercial for our new line of chillers, which will serve as an important part of Empower's advanced assets. These new chillers will have a significant role in supporting the company's growth, in accordance with the increasing demand for district cooling solutions now and in the future as a result of our global leadership position in the industry and our customers' trust in our qualitative services and costs," said Ahmad Bin Shafar, CEO of Empower.

Dave Regnery, president of Trane Commercial for North America, Europe, Middle East and Africa, said, "Trane is committed to delivering innovative, energy-efficient products and services to help organisations lower their environmental impact and achieve sustainability targets.

"We are excited to work with Empower, the world's largest district cooling services provider, to drive toward their carbon emission reduction goals with the use of next-generation refrigerants that deliver advanced efficiency with a near-zero global warming potential. This business partnership for highly eco-friendly chillers between Trane and Empower stands to make a significant and positive environmental impact."

Empower will use the new chillers in its projects in Tecom C, Dubai World Trade Centre Residences, Jumeirah Beach Hotel, and the International Media Production Zone.

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Mining for **prospects**

With substantial market opportunities of US\$4 trillion in unexploited mineral resources, The Mining Show in October will address explorers' challenges in the MENA region and push for better economic agenda.



HE MIDDLE EAST and North Africa (MENA) economies have, to a large extent, been governed by the hydrocarbon industry. However, as a low oil price continues to affect the region, steps have been taken by various governments in the region to diversify their economies towards non-oil sectors. Mining is an important area that the regional players have been focussing on for economic consistency and less dependency on oil and gas.

According to a CDE Global, it was reported in 2016 that MENA hosts more that 30 per cent of global mineral reserves and is rich in phosphates, uranium, copper, gold, iron ore and manganese. Despite this rich reserve, many countries in MENA lack the investment needed to push the industry forward to full capacity. This has not gone unnoticed and new regulatory regimes and incentives are being developed to generate greater financial backing.

The mining industry in Saudi Arabia has long been seen as having the potential to become one of the pillars of the Saudi Arabia's economy. The government plans to implement a new mining strategy that will help more than triple the mining industry's contribution to GDP by 2030. Some estimates put the value of Saudi Arabia's gold reserves at US\$240bn, which alongside extensive reserves of bauxite, copper, uranium and phosphate, bring the total worth of its mineral reserves to as much as US\$1.3 trillion.

In Oman, Public Authority for Mining (PAM) signed a contract in July 2017 with SRK Consulting to implement a new mining strategy. One of the mandates of the authority is to develop a strategy that includes the plans and policies related to the geologic infrastructure of the sultanate and develop the mining system within the framework of the national strategy for development. The sultanate's direct revenues form mining sector in 2016 stood at almost US\$60mn.

Egypt could be one of the top mining jurisdictions in the world, but it needs to reform its policies to attract more companies to invest in developing its mineral resources. After eight years of lull since 2009, in July 2017, four companies won Egypt's gold mining exploration tender for five concessions in the Eastern Desert and the Sinai Peninsula, petroleum minister Tarek El Molla said. According to analysts, gold could help Egypt boost exports and generate foreign reserves, but it's now up to investors, who have complained in the past over the commercial terms offered in previous tenders, saying they were unattractive and the main reason the sector remains underdeveloped.

Meawhile, Iran's mining sector needs US\$18bn investment by the end of the country's Sixth Five-Year National Development Plan (March 2021), according Amir Sabbaq, planning and strategic supervision director, IMIDRO. Sabbaq also said that to reach an eight per cent economic growth, a 15 per cent growth in investment is necessary.

The Mining Show 2017

Now in its 10th year, The Mining Show has grown to be the only event with a geographical reach covering the Middle East, Africa, Central Asia and South Asia. A massive conference and exhibition in the region with over 2,000 attendees, the show has seen billions of dollars of business initiated, influenced and concluded on-site.

To be held in Dubai from 2-3 October 2017, The Mining Show is ideally located to attract mining companies, investors and their partners from across the region.

The

Show

Key drivers for the continued expansion in demand for materials handling equipment, continues to be the ongoing focus of the GCC countries in large-scale infrastructural and logistics development. (Photo: Materials Handling Middle East)

In good hands

Materials Handling Middle East will host world's leading companies in Dubai to provide realistic solutions on managing goods and services in an efficient manner.

ITH MORE THAN 130 exhibitors from 21 countries having signed up for the upcoming ninth edition of Materials Handling Middle East, the region continues to be a key focus of leading names in intralogistics, warehousing, freight and cargo industries.

Despite the overall slowdown in economic growth trends worldwide, the materials handling and logistics industries continue to enjoy a relatively healthy growth rate in the region.

According to research by analysts Frost & Sullivan, the market revenue for materials handling equipment in the GCC, which was worth US\$3.78bn in 2014, is set to maintain a CAGR of over four per cent while reaching an estimated US\$4.8-5bn in revenues by 2020. Saudi Arabia, with about 46 per cent and the UAE with 35 per cent, make up the largest markets in the region.

Key drivers for the continued expansion in demand for materials handling equipment, continues to be the ongoing focus of the GCC countries in large-scale infrastructural and logistics development including that of key transport and shipping hubs, export processing and freezones as well as the high dependence of many countries on imports of goods and services that calls for increased reliance on materials handling and logistics facilities.

Realising the growth potential of the regional market, world's leading materials handling systems suppliers have already signed up for the event, which will run from 11-13 September at the Dubai International Convention and Exhibition Centre.

"Materials Handling Middle East has through the years served as an invaluable networking and interactive platform for industry stakeholders, suppliers, traders and buyers to conduct business and scope out the latest developments in the industry," said Ahmed Pauwels, CEO of organisers Messe Frankfurt Middle East.

Among the global heavy hitters who will be showcasing their latest offerings on the regional stage at Materials Handling Middle East 2017, include the likes of Swisslog, Daifuku and Kardex. Local leading lights such as GENAVCO, SPAN Motors and United Motors and Heavy Equipment will also be out in force, while debutants such as Feralco from France, MPM from Italy and Saudi manufacturer, Power Rack Factory are looking to make a favourable impact.

Touting the vital role of automation and the merging of digital and intelligent processes and systems as the road to the future of materials handling, Frederic Zielinski, general manager of Swisslog Middle East, sees immense potential in the region. "By implementing fully integrated, effective, future-proof automation solutions and keeping their facilities up-todate with modernisation, companies can not only speed up their processes and satisfy changing customers' needs but also stay profitable by adding greater productivity into their supply chain and reducing errors. "Industry 4.0 has the potential to reshuffle the cards in how businesses operate. The focus in the future will no longer be on the manufacturing process of purely mass-produced goods, but on the customised product manufactured to industrial. This evolutionary step can only succeed, however, if we finally break down the barriers between the digital and real worlds," Zielinski stated.

Neeraj Mahajan, director of GENAVCO, said, "The rising need for global production companies to automate operations and foster flow of goods in an efficient manner is the key force driving growth in the materials handling equipment market. The main challenge for customers in this region is to get a complete solution from a single source. Here we play a vital role with our warehouse solution engineering to overcome this challenge by offering end-toend solutions. We design and develop custom-made concepts and so projects are delivered from one source and in the timeliest manner."

Materials Handling Middle East 2017, will also feature the Supply Chain and Logistics Forum, a key interactive forum to discuss and examine the strategies, policies, trends that are of relevance to the industry today, as well as shining the light on new and existing opportunities in the field. The event will additionally showcase the Forklift Operator of the Year Challenge, a competition to decide the most talented and skillful forklift jockeys in the region.

Bolstering business with equipment rental

Linklease Arabia allows companies to access stateof-the-art equipment. (Photo: RANCO)

Rabiah & Nassar Group's equipment rental division, Linklease Arabia, is fostering business growth in Saudi Arabia by making it simple for businesses to acquire relevant equipment.

ABIAH & NASSAR Group (RANCO), distributors of Zoomlion, Goodsense and Altec heavy equipment in Saudi Arabia, have announced the launch of Linklease Arabia, its new division specialising in long-term heavy equipment rental. Linklease Arabia is managed by Linklease Ltd, a leading investoroperator of regional equipment rental companies.

A collaboration with the experienced equipment rental professionals at Linklease Group, Linklease Arabia provides a brand new innovative array of services. It aims to match the long-term rental needs of companies in the fluctuating business climate by focusing on critical aspects of utilisation, asset management and cash flow optimisation.

Linklease Arabia aims to foster business growth in Saudi Arabia by making it simple for businesses to acquire equipment, which helps maximise inventory turnover. Long-term rental enables businesses to have access to equipment without capital and restricting liquidity. "Linklease Arabia provides customers an additional route to our

The rental solutions give businesses access to the equipment they need in return for fixed monthly payments, with the added benefit of options to acquire the equipment. proven Zoomlion, Goodsense and Altec equipment range," said Faisal Mobayedh, commercial manager at RANCO.

The rental solutions give businesses access to the equipment they need in return for fixed monthly payments, with the added benefit of options to acquire the equipment outright at a later date.

"We are proud to introduce our range of rental services to the Saudi Arabian equipment market," added Roy Evans, group operations manager at RANCO.

Renting options

Linklease Arabia provides its customers with four categories of equipment rental solutions that include:

Easy Rent — Ideal for short term rental, this allows customers to select the equipment they need to use for a monthly rental price. At the end of the contract the equipment is returned to the company. Flexi Rent — Suited for medium term rental requirements, this product allows customers to lock-in monthly rental costs in advance. At the end of the contract, the customer can hand back the equipment or alternatively, at any point can purchase the equipment from the company.

Rent to Own — Under this category, the customer gets to pay a fixed monthly rental charges for the duration of the contract and will own the equipment at the end of it.

Equity Rent — This allows customers to use their existing assets to inject cash back into their business. Customers can sell their equipment to the company and it will rent it back to them so that they can continue to benefit from the right to use it. This is a highly flexible structure with the option to return or purchase the asset during the term of the agreement.



27th September 2017 | Habtoor Grand Resort & Spa, Dubai, UAE

The Annual Refrigeration Conference will play host to some of the best minds in the refrigeration industry to share their insights and experiences. The conference will address challenges, innovative ways to help existing processes and how digitalisation is the solution to most issues.

We are proud to announce our keynote speaker for the Annual Refrigeration Conference is



His Excellency Abdulla Al Maeeni Director General Emirates Authority for Standardization and Metrology

Reasons to register today

- Discuss key underlying issues related to refrigerants
- Get updates on Government environmental policies that impacts companies
- Access innovative technology and sustainable alternatives
- Delve into technical training through vendor-led workshops

The conference will provide a rich networking and learning experience through a mixed format of presentations and interactive workshops.

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To find out more about the conference and certified training, please contact us on: ⊠ register@technicalreview.me | ≅ +971 4 4489260 www.refrigeration-forum.com

INMESOL gensets help projects take-off

AN INMESOL GENSET model IV-440 has been installed at the concrete plant used in the construction of the Ariane 6 new launching pad, located at the Guiana Space Centre in Kourou, French Guyana. This powerful stand-by generator set ensures power supply in case of mains failure, preventing the potential interruption of the construction work for the new pad from where the Ariane 6 European space rocket will be launched. This first launch is planned for 2020.

The generator performs 440kVA ESP, and it is powered by a 13litre Volvo Penta Diesel engine, model TAD1344GE, that is extremely robust and reliable. According to INMESOL, these engines stand out for their low operating and maintenance costs and high availability, with excellent load acceptance characteristics.

The generator is installed in INMESOL's soundproof canopy, that guarantees low noise emissions due to its innovative design and high quality sound attenuating materials as well as excellent environmental protection, due to the Qualicoat paint that INMESOL applies to all the metal components of its canopies. This is a critical aspect in generators operating in locations with aggressive climate, as it is the case of the French Guyana, with high humidity and frequent and severe storms.

In order to minimise the potential effects of the moisture, this generator was also equipped with several additional devices for avoiding the harmful condensation of water in its main electrical parts, what is especially dangerous in stand-by gensets, since these might spend long periods of inactivity depending on the stability of the commercial power supply.



Lijan's turnkey solutions for a sustainable future

LIJAN INSULATION CONTRACTING LLC the flagship company of Lijan Group established in 2004, provides extensive solutions in the green energy sector and has introduced climatisation solutions in the Middle East and North Africa (MENA) region.

The scope and scale include design, fabrication and installation of wind-driven turbo ventilators. These ventilators are used for industrial and commercial facilities to bring fresh air and comfort to the working environment without power consumption and maintenance. Lijan has successfully installed turbo ventilators in various prestigious projects for the regional governments, and local and international clients. It has also recently completed installation of 1,500 ventilators for the Dubai Textile City, which saves three million units (KWh) electricity and reduces 2,000 metric tonnes of CO_2 emission per year.

According to the company, its business is driven by a focus to eliminate energy waste by using resources and sustainable practices that preserve the ecology by innovative, dedicated, professional on-time solutions for safer world. Making working conditions more energy-efficient is an easy and proven way to reduce carbon footprint, thereby protecting the environment. With the Middle East countries blessed with a high level of solar irradiation throughout the year, Lijan said that it utilised this solar energy to install solar sky tubes for day lightings. Sky tubes work without electricity in CSP technology and do not have PV panels and battery, thereby eliminating the need for maintenance.

Lijan is a contracting and trading company based in Dubai and provides turnkey solution in all types of hot/cold insulation and



Lijan's climatisation solutions helps save electricity and CO₂ emissions. (Photo: Lijan)

renewable energy services for marine and industrial sectors. Keeping utmost care in mind for health, safety and environment, the company stated that it endeavours to execute projects on time, complying with highest international standard. Managed by a professional team in the UAE and India with state-of-the-art facilities, Lijan offers expertise in various industrial insulation and climatisation projects.

Lijan also offers repairs and maintenance services in thermal insulation to power and desalination plants, refineries and petrochemical plants, chemical and bitumen storage tank farms, offshore and onshore oil rig platforms and industrials plants such as cement, steel, fertiliser and chemical, etc.

The new face of fastening

Specialinsert has developed a range of innovative fastening systems suited for fixing needs on a wide variety of materials and applications.

TALIAN COMPANY SPECIALINSERT has been engaged in the production of fastening systems, suitable for all the fixing needs on different materials and applications for more than 40 years. The Specialinsert range spans from inserts for metal sheets and sections, to inserts for wood and metal full parts and inserts for plastics and for composite materials.

MASTER-PLATE

MASTER-PLATE is a very simple fixing system that through appropriate adhesives allows the fixing on any type of receiving material. The MASTER-PLATE system includes a base plate with threaded fasteners that can be a stud, a bush, a nut, a pin, a nail or a tie wrap holder.

MASTER-PLATE is made of a base plate that might be in different shapes and dimensions (round, square, rectangular) and a fastener element, a threaded bush or stud, manufactured in zinc plated steel or Stainless Steel AISI 316. It is manufactured in zinc-plated steel or AISI 316L stainless steel.

It does not require any particular mechanical preparation, the usual mounting is done by placing the MASTER-PLATE on adhesive previously applied to the merging point required.

The several combinations between the

base plates and fastening elements offer a wide range of possibilities to technicians and designers.

DEFORM-NUT

Specialinsert's DEFORM-NUT TC/SC/1 (insert for sandwich panels) is a threaded blind rivet nut by deformation with double anchoring system, mechanical and chemical. The first anchorage is given by the tubular rivet nut on the skin of the material. The second is assured by an adhesive dropped in the hole before the installation

Specialinsert's revolutionary pressin insert, Keep-Nut, has received official ETA certification (ETA-15/0615) for cladding and façades project. of the internal screw insert.

According the company, this kind of fastener guarantees flatness during the insertion, avoids choking of the weakened part, works on the total thicknesses of the sandwich panel and can be used and moved immediately.

ETA certification for cladding and façades projects

Specialinsert's revolutionary press-in insert, Keep-Nut has received official ETA certification (ETA-15/0615) for cladding and facades project. This guarantees the structural performance of the Keep-Nut to be used as hidden anchor on panels made of ceramic, stones and any solid surfaces common on wall cladding projects.

Keep-Nut inserts for stone and solid surfaces like ceramics, composites, glass and more have been also widely used for undermount sinks installation on countertops, furniture and interiors elements.

Several projects have been completed and more are in the process in countries like Europe, USA and Middle East. That includes the Sheikh Abdullah Al Salem Culture Centre in Kuwait City where Keep-Nut has been used to fix fiber cement panels on buildings.

COORDINADORA arrives in the Middle East

SPANISH FIRM COORDINADORA INTERNACIONAL de CARGAS S.A has opened its new office in Abu Dhabi's Al Reem Island. The company specialises in the management and transportation of cranes and heavy-lift cargoes for oil and gas, power generation, renewables and mining sectors.

According to regional manager Jason Hoey, COORDINADORA Middle East Freight Services LLC, COORDINADORA's activity is based on four key business pillars – vast experience and extensive market knowledge; a skilled engineering department; supervision of field



A delivery bound for Saudi Arabia which required Coordinadora's transport designs and on board engineering with force calculated sea fastenings to offset the cargo overhanging the stern of the vessel. operations by highly qualified personnel; and reliability and a well-known reputation in the international market.

Founded in 1982, COORDINADORA has 35 years of experience in the transportation of large equipment and components. In addition to services in heavy-lift, project cargoes with transport engineering, COORDINADORA is also involved in air, land and sea transport, containers and groupage.

The company provides all kinds of ancillary services such as transport insurance, customs clearance, processing shipping documents, preparing feasibility reports, transport drawings, amongst others. Not limited to the movement of special or complex loads, COORDINADORA is also involved in additional activities related to multimodal transport that offer customers the necessary response at any time.

Jason says, "We have highly qualified professionals in all departments who follow strict training and apprenticeship programmes to ensure our commitment to excellence and risk management. COORDINADORA's unique skills and high standards are globally recognised and allow us to successfully perform the operations entrusted to us by our customers. We have a wide network of offices and agents in most countries enabling the execution of challenging transport movements for some of the world's key blue chip companies.



Refinery cargo shipped to Turkey by Coordinadora weighing just under 1000 tons, said to be the heaviest cargo ever moved on Turkish roads at the time.

"COORDINADORA's top priority is to provide personalised attention to our customers especially the complex transportation needs of over dimensional and custom build cargoes. The specialised work of the engineering department in the design of each operation has added exceptional value in this regard. We execute best-in-class operations – be it anywhere in the world."

Excited about the opportunities in the Middle East, Jason adds that he extends an invite to all companies to call COORDINADORA at any time and engage in discussions with regards to any freight services be it onshore or offshore, especially the jobs most say can't be done.

To know more, please connect with Jason Hoey, Regional Manager MENAT, at jhoey@coordinadoraetm.com Contact number: +971 (0) 2 650 6820 (T)/ +971 (0) 527 357 333 (M). For additional details, please visit www.coordinadoraetm.com

Profitability and reliance with Hitachi's new wheel loader

FOR HIGH PERFORMANCE in demanding sites in the quarry industry, the new Hitachi ZW310-5 wheel loader in the ZW-5A series delivers on all levels in terms of productivity, comfort, advanced technology, reliability and versatility.

New features such as the active engine control makes the ZW310-5A enhance its productivity and minimise operation costs. These are strategically positioned sensors that detect movements throughout the machine and adjust engine speed accordingly to eliminate energy losses.

To cater for situations like heavy loading and uphill climbing where extra power is required in a short time, this ZW-5A series wheel loader is equipped with the quick power switch (QPS), which provides an instantaneous power boost at the push of a button conveniently located on the operational lever. Yet, another intelligent feature is the auto shift mode, which automatically chooses the optimum gear to maximise fuel economy.

The ZW310-5A also boasts of a powerful engine and high quality components to provide long-lasting durability and performance. A newly designed centre pin leads to better stress distribution, enhanced durability and reliability, especially in tough digging operations where stress imposed on the centre joint pin of the wheel loader causes it to otherwise crack, leading to premature failure. Specifically designed for even the harshest and most demanding customer sites, the ZW310-5A has minimal breakdowns, thereby ensuring continuous productivity.

Operator comfort is a top priority for the ZW310-5A and offers greater visibility and a more spacious working environment. Based on the key concept of a 'profitable machine', the



The ZW310-5A also boasts of a powerful engine and high quality components to provide long-lasting durability and performance. (Photo: Hitachi Construction Machinery)

Hitachi ZW-5A wheel loaders offer improved operating costs and are, thus, able to provide customers with enhanced satisfaction and values in a variety of job applications.

An effective air conditioning system regulates the temperature within the cab. A double air-conditioning filter is provided as standard equipment for dusty environment such as industrial waste and indoor disposal facilities. High levels of sound insulation ensure noise levels within the cab are reduced.

www.technicalreview.me

UD Trucks reveals new medium-duty truck

UD Trucks' new medium-duty truck 'Condor' is equipped with fuel efficiency, safety features, and drivability. In addition, UD Trucks' comprehensive support services will realise efficient logistics in a better way.

The 'Condor' offers a greater variety of engine power, cabin types, and drive train systems than existing models. By adopting automated manual transmission as a new option, Condor comes with a wide range of models that meet the business needs of customers and is currently available for the Japanese market.

The features include -

 Fuel efficiency: The lightweight, compact 4HK1 engine significantly contributes to a reduction of customers' transportation costs. The engine delivers environmental performance and further improves loading and fuel efficiency by adopting Eco Stop (idling stop-and-start system), which is effective in reducing wasteful fuel consumption and exhaust gas; the ECONO mode that prevents vehicles from excessively accelerating through automatic control of the engine speed and fuel injection; as well as an advanced turbo system and fuel injection system. All Condor trucks with GVW ranging from eight to 14.5 tonnes and the 4X2 axle configuration, equipped with Eco Stop (idling stop-and-start system), achieve +10 per cent over the 2015 fuel economy standards for heavy vehicles in Japan.

 Safety performance: Condor's safety performance is strengthened from three viewpoints: proactively detect danger to support drivers, support safe daily running, and minimise damage. Detecting danger is ensured by combining multiple advanced systems such as pre-crash brake capable of double detection with a millimetre-wave radar and camera, lane departure warning system, and millimetre-wave inter-vehicle warning system. Also, Condor's safety performance helps reduce drivers' fatigue.

- Drivability: In addition to the reliable manual transmission, automatic manual transmission (AMT) options, capable of operating the transmission only with a shift lever, without a clutch pedal, are available for all models. The ECONO mode that enables automatic gear shifting provides all drivers with comfortable drivability and fuel efficient driving. Condor's large cabin's interior excels in operability and visibility and has plenty of storage space such as a center console box. Drivers will be offered a comfortable and efficient environment not only while driving but also working in the cabin.
- The new Condor pursues efficient maintenance by fulfilling aftermarket services. UD Trucks ensures that customers' trucks run and remain in optimum condition, maximising its uptime.

New control units for gas gensets



HIMOINSA draws on more than two decades of experience in designing and manufacturing advanced control systems for generator sets. (Photo: HIMOINSA)

HIMOINSA HAS DEVELOPED control units for gas-powered generator sets. The new controllers have been programmed with a special start-up and stop sequence to ensure enhanced installation safety.

Drawing on more than two decades of experience in designing and manufacturing advanced control systems for generator sets, HIMOINSA is incorporating these new control units, specially designed for gas-powered generators to ensure maximum safety.

The new CEM7-G, CEA7-G and CEP7-G controllers include gas train management that controls all gas train safety systems and incorporates an alarm to warn when fuel pressure is insufficient.

- CEM7-G makes it possible to monitor how the gas engine is running and the quality of the electric signal generated with a very intuitive interface.
- CEA7-G checks the gas generator and switching with the grid in the event of grid failure.
- CEP7-G, a control unit, is designed for parallel applications to enable load management between gas-powered generator sets. "The new gas control units offer the well-known advantages of HIMOINSA control units, such as ease of use, power and durability,

but also make the most of gas generation technology," explained Manuel Aguilera, gas product manager at HIMOINSA.

RMD Kwikform provides design solutions for Doha Metro

WITH PHASE ONE underway for Qatar Railway, the construction of the Red Line South (RLS) Elevated and At-Grade section of the project is being led by the



In total, RMD Kwikform delivered 3,536 tonnes of equipment to site. (Photo: RMD Kwikform)

FYAP JV with formwork and shoring provided by RMD Kwikform.

The RLS project includes the construction of a 5.8km viaduct at a grade line of 0.4km; three elevated stations with one at grade, and a one kilometre underpass structure. As one of the few elevated sections across the Doha Metro project, FYAP JV is working with RMD Kwikform to provide the solution for in situ bridges and stations.

RMD Kwikform, Ahmed Awaly, said, "The overall design process was very complicated as the project was divided into several subprojects, each with its own team and challenges. As the soffits sloped in all different directions across each section of the bridge, at tender stage, we worked closely with FYAP JV's technical, planning and construction teams to determine which system would accommodate every element of the project."

RMD Kwikform produced 3D designs and conducted 3D frame analysis to create a solution that was fit for all subproject teams, using only standard components. In total, RMD Kwikform delivered 3,536 tonnes of equipment to site, including Megashor and Kwikstage, Rapidshor, GTX and Aluminium Beams, and Superslim Soldiers.

Comansa CM adds new model to its luffer range

TOWER CRANE MANUFACTURERS Comansa CM has launched a new luffing-jib crane CML165, with maximum load capacity of 12 tonnes and 50-metre reach globally and will be made available in Middle East this September.

The new model is Comansa CM's first addition to CML Series, the factory's luffingjib family that was launched late 2016, along with the CML190 crane.

The CML165 features a 45kW standard hoist mechanism that achieves maximum speeds of up to 94m per minute and a drum with capacity for 545m of rope, allowing the crane to work in projects of up to 270m in height.

With the optional 65kW winch that features a larger wire rope drum, this new model can build towers of almost 400m in height, working with hoist speeds of up to 131m per minute. The new crane also features one of the shortest counter jibs in



The crane will be made available in Middle East this September. (Photo: Comansa CM)

the market, only 6.5m long, and an out-ofservice radius of 19m to 22m (depends on the jib length). These characteristics are suitable for narrow sites or projects with space restrictions due to buildings and other cranes or due to regulations.

"We expect this new crane to be very successful in Asia and the Middle East due to the increasing construction demand in large cities," said Andy Huang, sales manager at Comansa CM.

"Luffing-jib cranes are the best solution in congested sites and the CML165 is a great option for all type of edifications including high rise buildings, which are becoming more and more popular in the region."

The company plans to launch another luffing-jib tower crane before the end of the year, it announced.

Comansa CM, part of China-based Linden Comansa, offers a wide range of luffing-jib cranes to its customers worldwide. Their range consists of 14 models with a maximum load capacity from eight to 64 tonnes.

PASCHAL helps achieve highest standards in short span of time

GERMANY'S KARLSRUHE SCHOOL extension, involving PASCHAL equipment, was executed in a short construction period and costeffectively, that created a building shell to the highest standard of quality.

According to PASCHAL, the reinforced steel structures involving an award-winning architectural concept with a gross room area of 17,204 cu/m were implemented by Weisenburger Bau GmbH with the support of PASCHAL. The three sections of the building involved the use of 2,400 cu/m of concrete with three formwork and shoring systems from PASCHAL.

Situated in Hagefeld district of Karlsruhe, a one- to two-storey school building with basement level, a school refectory and the three-storey office and seminar building, have been erected as a solid construction on the basis of the award-winning draft design concept devised by Peters Schmitter freie Architekten from Stuttgart.

The new administration building with a gross floor plan area of 2,139 sq m will be Erziehungskunst (Friends of the Art of Education). With the two-storey school extension covering a gross floor plan area of 1,974 sq m and a school refectory with a gross floor plan area of 348 sq m, the existing Parzival school complex will be expanded after the 2017 summer vacation with the addition of the lower grade building for the Karl-Stockmeyer Schule. Weisenburger Bau GmbH started the construction work on 2



The TTR circular formwork combined with LOGO.3 formwork on the extension of the Karl-Stockmeyerschule in Karlsruhe. (Photo: PASCHAL)

August 2016 and completed the building shell construction of the office and seminar building by December.

Three formwork systems – foundations, the lift pits and lift shafts were built using the LOGO.3 formwork system from PASCHAL – were used on all three sections of this construction site using the LOGO.3 formwork system from PASCHAL.

LOGO.3 formwork was also used to shape the external and internal walls, and on the polygonal floor plans with radii of 15.21m to 37.14m. Due to the specified roof shapes, the wall formwork was stepped at each roof storey to create wall copings that blended with the roof pitch. In the same way, sloping beams were used to transfer the weight of the roof constructions employing the LOGO.3 formwork system.

The practice-based element range with LOGO.3 played an important role here. The

smallest element used by Weisenburger Bau GmbH measures 20cm x 90cm while the largest LOGO.3 element measures 240cm x 340cm. The experts from PASCHAL planned the required adapter components in the form of system-compatible plastic fillers. Even a very small rounded room section was created using LOGO.3, including an adjusted wooden insert also supplied by PASCHAL, and was cemented up to full room height in a single operation. The continuously adjustable circular trapezoidal girder formwork TTR was used on about 200 sq m of the more tightly rounded reinforced concrete walls with radii less than 10m. Wall heights of up to 6.5m were concreted on the top floor.

Along the free slab edge of the office building, 17 linear metres of the KBK 180 climbing platform provided a safe workplace.

The PASCHAL Deck system was rented for the 3,304 sq m slab surface area of school, refectory and office block.

The formwork experts from PASCHAL, along with CAD assistance, implemented the reinforced concrete structures using formwork. While planning, the formwork and supporting material was optimised and the 600 sq m LOGO.3, 200 sq m TTR and 1,221 sq m of PASCHAL Deck as well as 17 linear metres of climbing platform KBK 180 were all that was required for the three sections of the build, extending over a total gross room area of 17,204 cu/m.

SECURITY Forum 2017

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BACK FOR THE

Continuing our highly acclaimed annual HSE event series, the 3rd Annual Health, Safety & Security Forum 2017 is being held on the 8th – 9th October 2017 in Dubai. Focusing on the proposed regulations for Safe Public and Fair Judiciary under the UAE vision 20121, this year's theme is 'Realising the UAE's Vision 2021 safety goals'.

The forum will provide a platform to promote discussions on critical issues such as emergency preparedness and response, unforeseen hazards, legislation for occupational safety etc. through keynote presentations, interactive panel discussions and delegate Q&A sessions.



Raed Mohammed Al-Marzougi Head of Occupational Health and Safety, Dubai MunicipalityEmirates National Of Company Limited (ENOC) LLC

CONFIRMED SPEAKERS



Waddah S. Ghanem Executive Director, EHSQ Compliance & Corporate Affaits Emirates National Oli Company Limited (ENOC) LLC



Geoffrey Williams OFSM, ChFt, CIETecRt, MIFreE Ex. D.Chiel Fire Officer Central Scotland Fire and Rescue Service

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The Middle East's annual where-to-buy guide

Section One: Listings by category

Section Two: Suppliers of construction & mining equipment and services Section Three: Contact details of Middle East agents & subsidiaries listed by country

Section One: Listings by category

AIR COMPRESSORS

Atlas Copco Services Middle East OMC Cummins Middle East FZE Doosan Portable Power (Doosan Benelux SA) Euroblast Middle East LLC FAMCO (AI-Futtaim Auto & Machinery Co. LLC) Gardner Denver FZE General Navigation and Commerce Co. (GENAVCO) LLC Sullivan-Palatek, Inc.

Diesel Driven

Aggreko Middle East Ltd. Atlas Copco Portable Energy Division Doosan Portable Power (Doosan Benelux SA) Euroblast Middle East LLC FG Wilson JCB Power Products Jeremias Middle East Perkins Engines Co. Ltd.

Electric

Aggreko Middle East Ltd. Atlas Copco Portable Energy Division COELMO spa Euroblast Middle East LLC HELUKABEL Middle East Marelli Motori S.p.A. WAGO Middle East FZC

AIR CONDITIONING

Aggreko Middle East Ltd. LG Electronics Gulf FZE Polycon Gulf Ltd. Technical Converters Ltd.

ALTERNATORS FOR GENSETS

Linz Electric S.p.A.

BUILDINGS

COELMO spa Danway LLC Diamond Metal Screen Pvt. Ltd. INMESOL, S.L. Polycon Gulf Ltd. Powertech Switchgear Industries FZE Saudi Building Sytems Mfg. Co. WAGO Middle East FZC

COMPONENTS AND SPARE PARTS

Al Muqarram Auto Spare Parts Trading LLC Assosiated Power Solutions FZC COELMO spa Conrico International Ltd. Flowrox Oy Gardner Denver FZE Leroy-Somer Nidec Group Liebherr-Export AG Lovato Electric S.p.A. Marelli Motori S.p.A. Marini S.p.A. Powertech Switchgear Industries FZE Shandong Shantui Construction Machinery Imp.& Exp.Co. Ltd.

Specialinsert S.r.I. Top Screw Metal Corp. Van der Hilst International b.v WIRTGEN GROUP Holding GmbH

CONCRETE EQUIPMENT

Atlas Copco Services Middle East OMC Elaskon Sachsen GmbH & Co. KG Iveco Astra Liebherr-Export AG Shandong Shantui Construction Machinery Imp.& Exp.Co. Ltd. Trelawny Spt Ltd. Vortex Hydra S.r.I. Wacker Neuson Vertrieb Europa GmbH & Co. KG - Dubai Branch Representative Office

Batching Plant

Ammann Group LINTEC GmbH & Co. KG Parker Plant Ltd. SPECO Ltd. Vortex Hydra S.r.l.

Block/Tile - Making Equipment

German-Gulf Enterprises Ltd. Vortex Hydra S.r.l.

Breakers

Bobcat (Doosan Benelux SA) Danway LLC Doosan Portable Power (Doosan Benelux SA) Keestrack Lovato Electric S.p.A.

Concrete Equipment - Other

Bobcat (Doosan Benelux SA) Doka Middle East Doosan Portable Power (Doosan Benelux SA) Euroblast Middle East LLC LINTEC GmbH & Co. KG Vortex Hydra S.r.I. Weckenmann Anlagentechnik GmbH & Co. KG

Concrete Pumps Flowrox Oy German-Gulf Enterprises Ltd.

German-Gulf Enterprises Ltd. Formwork

Doka Middle East Elaskon Sachsen GmbH & Co. KG Herrenknecht AG PASCHAL-Werk G. Maier GmbH PERI RMD Kwikform UAE Weckenmann Anlagentechnik GmbH & Co. KG

Mobile Mixing Plant

LINTEC GmbH & Co. KG Parker Plant Ltd.

Recycling

CDE Global Keestrack Liebherr-Export AG Terex Minerals Processing Systems

Reinforcement Alyaf Industrial Company Ltd. International Trade Solutions (FZE)

Maklada

Caterpillar SARL Conrico International Ltd. FAMCO (AI-Futtaim Auto & Machinery Co. LLC) Haulotte Middle East FZE Iveco Astra Liebherr-Export AG Perkins Engines Co. Ltd. Terex Trucks Volvo Construction Equipment Zahid Tractor

Construction Vehicles - Other

Astra Veicoli Industraili SpA Caterpillar SARL General Navigation and Commerce Co. (GENAVCO) LLC Haulotte Middle East FZE Iveco Astra Liebherr-Export AG

Dump Trucks and Haulers

Astra Veicoli Industraili SpA Balkrishna Industries Ltd. (BKT) Caterpillar SARL Iveco Astra Kleyn Trucks Terex Trucks

Engines, Components and Accessories

Aksa Power Generation FZE Caterpillar SARL COELMO spa Dresser-Rand HUEGLI TECH. Schweiz Jubaili Bros Kleyn Trucks Lovato Electric S.p.A. Motorenfabrik Hatz GmbH & Co. KG Perkins Engines Co. Ltd. RUD Ketten Rieger & Dietz GmbH u. Co. KG Top Screw Metal Corp. Van der Hilst International b.v Volvo Penta

Weichai Middle East FZE

Site Dumpers Caterpillar SARL Klevn Trucks

Tractors

Astra Veicoli Industraili SpA Caterpillar SARL Diamond Metal Screen Pvt. Ltd. Kleyn Trucks

Trailers

Goldhofer Aktiengesellschaft Kleyn Trucks

CONSULTANCY SERVICES

Cummins Middle East FZE Imeco Austria SRK Consulting Africa

DEMOLITION EQUIPMENT

Atlas Copco Services Middle East OMC Bobcat (Doosan Benelux SA) Doosan Portable Power (Doosan Benelux SA) Liebherr-Export AG MB Crusher Volvo Construction Equipment Wacker Neuson Vertrieb Europa GmbH & Co. KG - Dubai Branch Representative Office

DRILLING

Eland Cables Sullivan-Palatek, Inc.

Components and Accessories HUEGLI TECH, Schweiz

Top Screw Metal Corp. Van der Hilst International b.v WAGO Middle East FZC Drilling Machinery and Plant

Herrenknecht AG Imeco Austria

Drilling - Other Doosan Portable Power (Doosan Benelux SA)

Piling Imeco Austria

Trenching and Pipe Laying Alyaf Industrial Company Ltd.

Imeco Austria
Tunnelling
CDE Global

Doka Middle East Herrenknecht AG Imeco Austria Liebherr-Export AG

EARTHMOVING EQUIPMENT Bobcat (Doosan Benelux SA) Caterpillar SARL Conrico International Ltd. General Navigation and Commerce Co. (GENAVCO) LLC Iveco Astra KATO WORKS CO., LTD. Liebherr-Export AG MB Crusher Perkins Engines Co. Ltd. Volvo Construction Equipment Wacker Neuson Vertrieb Europa GmbH & Co. KG - Dubai Branch Representative Office Zahid Tractor

Attachments and Accessories

Bobcat (Doosan Benelux SA) Caterpillar SARL HUEGLI TECH, Schweiz MB Crusher Van der Hilst International b.v

Backhoe Loaders

Balkrishna Industries Ltd. (BKT) Caterpillar SARL Liugong Machinery (Middle East) FZE

Dozers

Caterpillar SARL Liebherr-Export AG Shandong Shantui Construction Machinery Imp.& Exp.Co. Ltd.

Dumpsters

Kaeser Kompressoren FZE Liebherr-Export AG

Earthmoving Equipment - Other

Bobcat (Doosan Benelux SA) Caterpillar SARL Liebherr-Export AG Telestack

Equipment

CDE Global Euroblast Middle East LLC Jubaili Bros Vortex Hydra S.r.l.

Excavators

Bobcat (Doosan Benelux SA) Caterpillar SARL Kaeser Kompressoren FZE KATO WORKS CO., LTD. Liebherr-Export AG Liugong Machinery (Middle East) FZE Shandong Shantui Construction Machinery Imp.& Exp.Co. Ltd.

Loaders - Other

Bobcat (Doosan Benelux SA) Caterpillar SARL Kaeser Kompressoren FZE Liebherr-Export AG Shandong Shantui Construction Machinery Imp.& Exp.Co. Ltd.

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Materials

Rabiah & Nassar Group tremco- illbruck LLC

Mini-Excavators

Bobcat (Doosan Benelux SA) Caterpillar SARL Kaeser Kompressoren FZE KATO WORKS CO., LTD. Liebherr-Export AG

Motor Graders

Balkrishna Industries Ltd. (BKT) Caternillar SARI Liugong Machinery (Middle East) F7F

Scrapers

Caterpillar SARL Trelawny Spt Ltd.

Services

PASCHAL-Werk G. Maier GmbH

Skidsteer Loaders

Balkrishna Industries Ltd. (BKT) Bohcat (Doosan Benelux SA) Caterpillar SARL

LIFTING EQUIPMENT

Conrico International Ltd. Eland Cables Elaskon Sachsen GmbH & Co. KG Haulotte Middle East FZE Hi-Force Ltd. KATO WORKS CO., LTD. Liebherr-Export AG Perkins Engines Co. Ltd.

Arress

Danway LLC General Navigation and Commerce Co. (GENAVCO) LLC Haulotte Middle East FZE TVH

Components and Accessories

Hi-Force Ltd. HUEGLI TECH, Schweiz RUD Ketten Rieger & Dietz GmbH u. Co. KG TVH Van der Hilst International b.v

Cranes

Balkrishna Industries Ltd. (BKT) Danway LLC Elaskon Sachsen GmbH & Co. KG German-Gulf Enterprises Ltd. KATO WORKS CO., LTD. Liebherr-Export AG Rabiah & Nassar Group

Hoists

Elaskon Sachsen GmbH & Co. KG Liebherr-Export AG

Hydraulic

Alyaf Industrial Company Ltd. Hi-Force Ltd.

Jacking Equipment Hi-Force Ltd.

Lift Trucks FAMCO (AI-Futtaim Auto & Machinery Co. LLC)

General Navigation and Commerce Co. (GENAVCO) LLC TVH

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Mechanical

Hi-Force I td

Pneumatic

Doosan Portable Power (Doosan Benelux SA) PRAMAC Middle East FZE

Telescopic Handlers Bobcat (Doosan Benelux SA) Haulotte Middle East FZE

тун **MOBILE POWER**

SUPPLY UNITS

Aggreko Middle East Ltd. Aksa Power Generation FZE Altaaga Global CAT Rental Power Assosiated Power Solutions FZC Atlas Copco Services Middle East OMC Conrico International Ltd. Cummins Middle East FZE Doosan Portable Power (Doosan Benelux SA) Dresser-Rand Eland Cables FG Wilson HIMOINSA S.L. HUEGLI TECH, Schweiz INMESOL, S.L. **JCB** Power Products Jubaili Bros Kohler SDMO Linz Electric S.p.A. Mahindra Powerol - Mahindra & Mahindra Ltd. Motorenfabrik Hatz GmbH & Co. KG Visa S.p.A. Weichai Middle East FZE

PIPES

Jeremias Middle East **Pipe and Cable Detecting** Systems HELUKABEL Middle East

Pipe and Pipeline Fittings/Coatings

METALLURGICA ABRUZZESE S.p.A. METSO Rabiah & Nassar Group Technical Converters Ltd. Triplefast Middle East Ltd.

Pipe Laving METSO

Pipeline Accessories Triplefast Middle East Ltd.

PUMPING EQUIPMENT Eland Cables

Flowrox Oy Mahindra Powerol - Mahindra & Mahindra Ltd. **METSO** Sullivan-Palatek, Inc. Visa S.p.A. Wacker Neuson Vertrieb Europa GmbH & Co. KG - Dubai Branch **Representative Office** Concrete

Liebherr-Export AG Pumping Equipment - Other Flowrox Ov

Motorenfabrik Hatz GmbH & Co. KG Submersible

Atlas Copco Portable Energy Division Danway LLC

RAW MATERIALS

Diamond Metal Screen Pvt. Ltd. MFTS0

Crushing, Screening and Washing

CDE Global Diamond Metal Screen Pvt. Ltd. German-Gulf Enterprises Ltd. Keestrack MB Crusher McCloskey International Ltd. Minyu Machinery Corp. Parker Plant Ltd. Rockster Recycler SPECO Ltd. Telestack Terex Minerals Processing Systems WIRTGEN GROUP Holding GmbH

Grinding Equipment Trelawny Spt Ltd.

Quarrying

CDE Global Doosan Portable Power (Doosan Benelux SA) German-Gulf Enterprises Ltd. Liebherr-Export AG Minyu Machinery Corp Telestack Terex Minerals Processing Systems

Raw Materials - Other Diamond Metal Screen Pvt. Ltd. Rabiah & Nassar Group

Testing Rabiah & Nassar Group

RENTAL EOUIPMENT

Aggreko Middle East Ltd. Aksa Power Generation FZE Altaaqa Global CAT Rental Power Assosiated Power Solutions FZC Caterpillar SARL Cummins Middle East FZE FAMCO (AI-Futtaim Auto & Machinery Co. LLC) FG Wilson Herrenknecht AG Hi-Force Ltd. HIMOINSA S.L. INMESOL, S.L. JCB Power Products Jubaili Bros Peter Berghaus GmbH RMD Kwikform UAE Sullivan-Palatek, Inc. Terex Trucks Visa S.p.A. Zahid Tractor

ROAD BUILDING EQUIPMENT

Atlas Copco Services Middle East OMC Bobcat (Doosan Benelux SA) Caterpillar SARL Ciber Equipamentos Rodoviários Ltda Doosan Portable Power (Doosan Benelux SA) Gardner Denver FZE General Navigation and Commerce Co. (GENAVCO) LLC Liebherr-Export AG METALLURGICA ABRUZZESE S.p.A. Sullivan-Palatek, Inc. Volvo Construction Equipment Wacker Neuson Vertrieb Europa GmbH & Co. KG - Dubai Branch

Representative Office

WIRTGEN GROUP Holding GmbH

Asphalt Plant Ammann Group

Ciber Equipamentos Rodoviários

I tda LINTEC GmbH & Co. KG Marini S.p.A. Parker Plant Ltd. SPECO Ltd.

Compaction Equipment

Ammann Group Caterpillar SARL Doosan Portable Power (Doosan Benelux SA) Weckenmann Anlagentechnik GmbH & Co. KG

Pavers

Alvaf Industrial Company Ltd. Ammann Group Caterpillar SARL Ciber Equipamentos Rodoviários Ltda

Recycling

Ciber Equipamentos Rodoviários Ltda LINTEC GmbH & Co. KG Marini S.p.A. MB Crusher Telestack Terex Minerals Processing Systems

Road Marking

Euroblast Middle East LLC Telestack

Rollers

Ammann Group Caterpillar SARL Ciber Equipamentos Rodoviários

I tda Liugong Machinery (Middle East) F7F

Road Building Equipment - Other

Alyaf Industrial Company Ltd. Bobcat (Doosan Benelux SA) Caterpillar SARL Doosan Portable Power (Doosan Benelux SA) Marini S.p.A. Peter Berghaus GmbH Zahid Tractor

SOFTWARE

Construction Computer Software (Gulf) LLC PASCHAL-Werk G. Maier GmbH

CAD

Construction Computer Software (Gulf) LLC

Management Systems

Construction Computer Software (Gulf) LLC

Software - Other

Construction Computer Software (Gulf) LLC

Diamond Metal Screen Pvt. Ltd. Hypertherm Europe b.v Maklada Saudi Building Sytems Mfg. Co.

Valbruna Gulf FZE

Fabrication and Structures Diamond Metal Screen Pvt. Ltd. Galva Coat for Galvanizing & Lighing Poles

Technical Review Middle East - Annual Construction Review 2017

Hypertherm Europe b.v Jeremias Middle East Saudi Building Sytems Mfg. Co. Technical Converters Ltd.

Steel - Other

Diamond Metal Screen Pvt. Ltd. Hypertherm Europe b.v Jeremias Middle East METALLURGICA ABRUZZESE S.p.A. Top Screw Metal Corp. Technical Converters Ltd. Triplefast Middle East Ltd.

TOOLS

Conren Ltd. Doosan Portable Power (Doosan Benelux SA) Gardner Denver FZE Hi-Force Ltd. Hypertherm Europe b.v TÝH

Hydraulic

Hi-Force Ltd.

Mechanical

Hi-Force Ltd.

Pneumatic Doosan Portable Power (Doosan Benelux SA)

Hi-Force Ltd.

Tools - Other

Hi-Force Ltd.

COELMO spa

Benelux SA)

Eland Cables

FG Wilson

Fencing

S.p.A.

Division

Benelux SA)

Lighing Poles

JCB Power Products

HIMOINSA S.L.

INMESOL, S.L.

Jubaili Bros

Visa S.p.A.

Systems

Kohler SDMO

Mahindra Ltd

Conren Ltd.

Trelawny Spt Ltd.

Specialinsert S.r.l.

Hypertherm Europe b.v

AND MATERIALS

OTHER SITE EQUIPMENT

Bobcat (Doosan Benelux SA)

Cummins Middle East FZE

FAMCO (AI-Futtaim Auto &

Diamond Metal Screen Pvt. Ltd.

METALLURGICA ABRUZZESE

Lighting Masts/Towers

Aksa Power Generation FZE

Atlas Copco Portable Energy

Galva Coat for Galvanizing &

Assosiated Power Solutions FZC

Doosan Portable Power (Doosan

Mahindra Powerol - Mahindra &

PRAMAC Middle East FZE

Pipe and Cable Detecting

HELUKABEL Middle East

Pipe Manufacturing

Jeremias Middle East

International Trade Solutions (FZE)

Machinery Co. LLC)

Doosan Portable Power (Doosan

Sand Blasting Equipment

Doosan Portable Power (Doosan Benelux SA) Euroblast Middle East LLC

Scaffolding

Diamond Metal Screen Pvt. Ltd. Doka Middle East PASCHAL-Werk G. Maier GmbH PERI RMD Kwikform UAE Wilhelm Layher GmbH & Co KG

Diamond Metal Screen Pvt. Ltd. Welding Equipment INMESOL, S.L. International Trade Solutions (FZE) Kohler SDMO Linz Electric S.p.A. PRAMAC Middle East FZE

Wood-working Equipment/ Services

Doka Middle East

USED EQUIPMENT

Atlas Copco Portable Energy Division Caterpillar SARL Goldhofer Aktiengesellschaft Herrenknecht AG HIMOINSA S.L. Terex Minerals Processing Systems Terex Trucks Visa S.p.A. Vortex Hydra S.r.I.

Section Two: Suppliers of construction & mining equipment and Services

Aggreko Middle East Ltd.

PO Box 16875 Jebel Ali Free Zone Dubai United Arab Emirates Tel: +971 4 8086100 Fax: +971 4 8831825

Web: me.aggreko.com E-mail: rentals@aggreko.ae

Aggreko has grown to become the world's leading provider of rental power and temperature control solutions and offers round-the-clock service, support and equipment availability in the Middle East through a network of twelve locations. Aggreko serves a diverse market from construction sites to quarrying, oil and gas to refineries and events.

Aksa Power Generation FZE

AKSA POWER GENERATION

PO Box 18167 Jebel Ali Free Zone Dubai United Arab Emirates Tel: +971 4 8809140 Fax: +971 4 8809141 Web: www.aksauae.com E-mail: sales@aksauae.com

For 30 years, Aksa Power Generation has manufactured generating sets from 1kVA up to 2500 kVA, supplies comprehensive spare parts, rental solutions and a customer-focused after sales service all around the world. Agents:

Iran - Aksa Generator Arya

Al Muqarram Auto Spare Parts Trading LLC

PO Box 60235 Deira Dubai United Arab Emirates Tel: +971 4 2297722 Fax: +971 4 2297722 Web: www.a-map.net E-mail: info@a-map.net

A-MAP trading is the sole distributor of Solite Batteries in the region. Solite Batteries are 0.E.M to Hyundai and KIA motors. The batteries are currently being used by some of the biggest Construction and Heavy Equipment companies in the UAE.

Altaaqa Global CAT Rental Power

PO Box 262989, Dubai United Arab Emirates Tel: +971 4 8808006 Fax: +971 4 8808007 Web: www.altaaqaglobal.com E-mail: info@altaaqaglobal.com

Altaaqa Global, a subsidiary of Zahid Group, has been selected by Caterpillar Inc. to deliver multimegawatt turnkey temporary power solutions worldwide. The company owns, mobilizes, installs, and operates efficient temporary independent power plants (IPP's) at customer sites, offering power rental equipment that will operate with different types of fuel such as diesel, natural gas or dual-fuel.

Alyaf Industrial Company Ltd.

PO Box 10737 Dammam, 31443, Saudi Arabia Tel: +966 3 8121206 Fax: +966 3 8121836 Web: www.alyaf.com E-mail: info@alyaf.com

Alyaf Industrial Company Ltd., is the largest manufacturer of geotextiles in the Middle East and has pioneered the development of technical nonwovens. Incorporated in the year 1992 with manufacturing facility located at Dammam, Saudi Arabia, and sales offices at Riyadh and Jeddah; it is currently one of the few companies in the world that manufactures the widest possible range of nonwoven geotextiles.

Ammann Group

Eisenbahnstrasse 25 Langenthal, 4901, Switzerland Tel: +41 62 9166161 Fax: +41 62 916402 Web: www.ammann-group.com E-mail: info.aag@ammann-group.com

Ammann is the leading supplier of machines, systems and services for the construction industry with core competences in asphalt and road building worldwide. Established in 1869 Ammann is a highly credible family owned Swiss business representing sustainable values – Productivity Partnership for a lifetime!

Arminox Middle East FZC



PO Box 51626 Hamariyah Free Zone, Sharjah United Arab Emirates Tel: +971 4 8872777 Fax: +971 4 8872778

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Web: www.arminox.com

Assosiated Power Solutions FZC

PO Box 122212 Q1- 43 & 44, SAIF zoneSharjah United Arab Emirates Tel: +971 6 5528142 Fax: +971 6 5528143 Web: www.apsuae.com E-mail: sales@apsuae.com

Associated Power Solutions (APS) offers various products like: Diesel Generators (with choice of any engine)

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Synchronizing Panels) Fuel tanks - Bunded and Containerised

Lighting Towers - ranging from 9kVA, 13kVA & 20kVA

Turnkey Project and Installation services: - 1MW to 50MW.

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Astra Veicoli Industraili SpA



Via Caorsana 79 Piacenza PC, 29122, Italy Tel: +39 0523 591773 Fax: +39 0523 543433 E-mail: info@astraspa.com Web: www.iveco-astra.com

A premium manufacturer of construction and mining equipment, IVeco Astra has 70 years' experience building machines for the global construction sector. It develops robust, reliable and versatile trucks that include heavy trucks for heavy off road missions of over 60 tonne gross vehicle weight, dump trucks and specialized vehicles.

Agents: United Arab Emirates - IVECO - Dubai Regional Representative Office

Atlas Copco Portable Energy Division

Ingberthoeveweg 7 Aartselaar, 2630 Belgium Tel: +32 3 8702111 Web: www.atlascopco.com

E-mail: info.acea@ke.atlascopco.com

Atlas Copco is a world-leading provider of sustainable productivity solutions. We serve customers in more than 180 countries with products and services focused on productivity, energy efficiency, safety and ergonomics. The Portable Energy division develops, manufactures and markets portable compressors, high pressure boosters, generators, light towers and portable dewatering pumps. Atlas Copco CR/MR Regional Office MEN covers the following countries:

1. Egpyt 2. Irag

3. Jordan

4 Kuwait

- 5 Lebanon
- 6. Libyan Arab Jamahiriya

7. Oman

8. Qatar

9 Saudi Arabia 10. United Arab Emirates

11 Yemen

Agents:

Bahrain - Atlas Copco CR/MR Regional Office MEN Egypt - Atlas Copco Equipment Egypt S.A.E.

Atlas Copco Services Middle East OMC

Gold & Diamond Park Building 2, 1st Flr, Office 2121 Sheikh Zayed Road, Dubai United Arab Emirates Tel: +971 4 3738111 Web: www.atlascopco.com E-mail:

ahmed.hamdy@bh.atlascopco.com

Atlas Copco is a leading manufacturer of road construction equipment, portable compressors, generators, tools and attachments used in the construction and demolition industries. We are contantly seeking ways to improve ourselves and to accommodate the specific demands, of our customers by providing them with one total construction solution.

Balkrishna Industries Ltd. (BKT)



BKT House, C-15, Trade World Kamala Mills Compound Lower Parel, Mumbai,400013, India Tel: +91 22 66663800 Fax: +91 22 66663898 Web: www.bkt-tires.com E-mail: mena@bkt-tires.com

BKT is one of the global leaders in the 'off highway' tires segment which includes Industrial & Construction, Earthmoving, Agriculture and Lawn & Garden application. For more details, please visit the website www.bkt-tires.com

Benninghoven GmbH & Co. KG

Industriegelände Mülheim/Mosel, 54486 Germany Tel: +49 65 341890 Fax: +49 65 348970 Web: www.benninghoven.com E-mail: info@benninghoven.com

Bobcat **Bobcat**

PO Box 262688 JLT Platinum Tower Cluster I, Level 18 Office 1802, Dubai United Arab Emirates Tel: +971 4 2767206 Fax: +971 4 2767204 www.bobcat.com E-mail: gaby.rhayem@doosan.com

Bobcat manufactures the widest range of marketleading compact equipment including skid-steer and compact tracked loaders, compact excavators and telescopic handlers. The impressive selection of Bobcat attachments for use with these machines includes wheel saws, trenchers, planers, hydraulic breakers and graders, saving time, effort and cost in carrying out an increasing range of applications in the Middle East.

Agents:

Bahrain - Yusuf Bin Ahmed Kanoo Co. WLL Egypt - Otrac Heavy Equipment (Bobcat) Irag - Tristar Co. Irag Jordan - Arab Equipment Trading Co. Kuwait - Bahrah Trading Co. WLL Lebanon - Tracksparco Ltd. Libya - Rawasee Co. Oman - International Heavy Equipment LLC Qatar - Jaidah Motors & Trading Co. Saudi Arabia - General Trading & Equipment Svria - Interimex United Arab Emirates - Kanoo Machinery LLC

Bosch Termoteknik Isitma ve Klima **Ticaret AS**

Aydınevler Mah. nönü Cad. No:20 Ofis Park A Blok Kücükvalı Maltepe, Istanbul 34854 Turkey Tel: +90 216 4320800 Fax: +90 216 4320986 Web: www.bosch-industrial.com E-mail: ekin.tezeren@tr.bosch.com

Bosch Thermotechnik GmbH represents the Thermotechnology Division of the Bosch Group. Together with its subsidaries, the company is a leading supplier of heating products and hot water solutions in Europe Bosch Thermotechnology has strong

international and regional brands and manufactures a diversified product range in 21 plants in 11 European, North American and Asian countries.

Bosch Thermotechnik can draw on many decades of experience as a manufacturer of heating and water heating systems - with an uncompromising priority on quality, customer benefits and innovations

About Bosch Industriekessel

Located in Gunzenhausen in Northern Bavaria, the company has been offering innovative largescale and industrial boilers for all commercial and industrial applications for more than 145 years. Our customers benefit from project-specific solutions, advanced products and extensive expertise in the area of industrial boiler technology.

At mordern production facilities in Germany and Austria we manufacture over 1,500 boiler systems annually. Our product range comprises steam boilers with an output range from 175 kg/h up to 55,000 kg/h. Furthermore, we produce hot waters for power ranges of up to 38 MW and heating boilers up to 19.2 MW. Our boiler house components in modular technology can be used individually and simplify the planning, construction and operation of the boiler systems. We also offer a comprehensive range of services to complement our product portfolio.

Caterpillar Lift Trucks

Hefbrugweg 77 Almere, 1332 AC Netherlands Tel: +31 36 5494411 Fax: +31 36 5494698 Web: www.catlifttruck.com E-mail: info@catlifttruck.com Agents:

Bahrain - Mohamed Abdulrahman Al-Bahar Bahrain Irag - Mantrac Group Irag Jordan - Jordan Tractor & Equipment Co. Ltd. Kuwait - Mohamed Abdulrahman Al-Bahar Kuwait Lebanon - M. Ezzat Jallad & Fils Oman - Oasis Trading & Equipment Co. LLC Qatar - Mohamed Abdulrahman Al-Bahar Qatar Saudi Arabia - Zahid Tractor & Heavy Machinery Co.

Ltd. United Arab Emirates - Mohamed Abdulrahman Al Bahar Al Ain

United Arab Emirates - Mohamed Abdulrahman Al Bahar Dubai

United Arab Emirates - Mohamed Abdulrahman Al-Bahar Abu Dhabi United Arab Emirates - Mohamed Abdulrahman Al-

Bahar Sharjah Yemen - The Tehama Trading Co.

Caterpillar SARL

PO Box 262147 Jebel Ali Free Zone (South) Dubai

United Arab Emirates Tel: +971 4 8106464 Fax: +971 4 8106465 Web: www.cat.com

For nearly 90 years, Caterpillar Inc. has been making sustainable progress possible and driving positive change on every continent. Customers turn to Caterpillar to help them develop infrastructure, energy and natural resource assets. With 2013 sales and revenues of \$55.656 billion, Caterpillar is the world's leading manufacturer of construction and mining equipment, company principally operates through its three product segments - Resource Industries, Construction Industries and Energy & Transportation - and also provides financing and related services through its Financial Products segment. For more information, visit caterpillar.com. To connect with us on social media, visit caterpillar.com/social-media.

Agents:

Bahrain - Mohamed Abdulrahman Al-Bahar Bahrain Egypt - Mantrac SAE Iraq - Iraqi Co. for Machinery and Equipment Service Jordan - Jordan Tractor & Equipment Co. Ltd. Kuwait - Mohamed Abdulrahman Al-Bahar Kuwait Lebanon - M. Ezzat Jallad & Fils

Morocco - Tractrafric Equipement Oman - Oasis Trading & Equipment Co. LLC Qatar - Mohamed Abdulrahman Al-Bahar Qatar Saudi Arabia - Zahid Tractor & Heavy Machinery Co.

Ltd. Tunisia - Parenin United Arab Emirates - Mohamed Abdulrahman Al

Bahar Dubai United Arab Emirates - Mohamed Abdulrahman Al-Bahar Abu Dhabi

United Arab Emirates - Mohamed Abdulrahman Al-Bahar Sharjah Yemen - Tehama Trading

CDF Global

Ballvreagh Industrial Estate Cookstown, County Tyrone Northern IrelandBT80 9DG United Kingdom Tel: +44 2886 767900 Fax: +44 2886 761414 Web: www.cdeglobal.com E-mail: marketing@cdeglobal.com

CDE Global is the leading provider of washing equipment for quarries, mines and recycling operations on the global market. The CDE

equipment range has applications across a wide range of materials and delivers significant efficiencies in the construction and recycling, mining, specialist industrial sands and environmental sectors.

Chauvin Arnoux Group

190, rue Championnet, Cedex 18 Paris, 75876, France Tel: +33 1 44854485 Fax: +33 1 46277389 Web: www.chauvin-arnoux.fr E-mail: info@chauvin-arnoux.fr Agents: Lebanon - Chauvin Arnoux Middle East

Ciber Equipamentos Rodoviários Ltda

Rua Senhor do Bom Fim, 177 Porto Alegre/RS, CEP: 91140-380 Brazil Tel: +55 51 33649200 Fax: +55 51 33649228 Web: www.ciber.com.br E-mail: ciber@ciber.com.br

Ciber offers a complete line of equipments for building, maintaining and repairing pavements in the markets where it is located. The company manufactures high-quality equipments for various highway applications that streamlines the building of roads and brings savings to its customers by joining efficiency and high productivity.

COELMO spa

Via Delle Industrie, 278 Agglomerato Industriale ASI Acerra (NA), 80011 Italy

Tel: +39 081 8039731 Fax: +39 081 8039724 Web: www.coelmo.it E-mail: sales@coelmo.it info@coelmo.it

Coelmo is one of the oldest European manufacturers of industrial and marine generators from 3kVA up to 3000kVA. Based in Italy, with a large stock of generating sets available to be shipped overnight to any destination in the world. Company profile, products and models are available online at www.coelmo.it

Agents United Arab Emirates - COELMO (DMCC Branch)



www.technicalreview.me

Conren Ltd.

Unit 1 The Bridge Business Centre Ash Road South Wrexham Industrial Estate Wrexham, LL13 9UG United Kinadom Tel: +44 1978 661991 Fax: +44 1978 664664 Web: www.conren.com E-mail: exports@conren.com

Established in 1971 Conren are UK manufactures and exporters of construction materials including waterproofing membranes, epoxy resin coatings and screeds, anti-skid resins for highways and external decorative resin bound and bonded surfacing

Agents: Bahrain - Bader Trading Co. WLL Lebanon - T A Group SARL Qatar - Torbay Trading & Contracting Saudi Arabia - Saad H Abukhadra & Co. United Arab Emirates - Al-Shirawi Contracting Co. LLC

Conrico International Ltd.

Hanworth Lane Business Park Chertsey, Surrey, KT16 9LA United Kinadom Tel: +44 1932 567321 Fax: +44 1932 567032 Web: www.conrico.com E-mail: info@conrico.com

Conrico International are export distributors of construction equipment, parts, power generators and motor vehicles. With over 60 years of experience, we provide a professional and expert service for all your project needs with top brands such as Suzuki, JCB and PMD under our belts.

Construction Computer Software (Gulf) LLC

PO Box 34387 Dubai United Arab Emirates Tel: +971 4 3466456 Fax: +971 4 3884663 Web: www.ccsgulf.com E-mail: info@ccsqulf.com

Construction Computer Software or CCS provides essential software solutions to the construction industry and has been doing so far over 30 years. CCS's two leading software products are buildsmart an ERP construction accounting & costing system and candy, a construction estimating & project control system.

Cummins Middle East FZE

PO Box 17636 South Zone 2, Jebel Ali Free Zone Dubai United Arab Emirates

Tel: +971 4 8809911/800 Fax: +971 4 8860518/9 Web: www.middleeast.cummins.com E-mail:

cummins.middleeast@cummins.com Cummins Middle East FZE, the first whollyowned Cummins Inc. distributor in the region. was established in 2000. In early 2014, CME transitioned to an area business organization structure to allow the company to invest and grow in the region by bringing all Cummins business units closer to the market and covers UAE, Bahrain, Qatar, Yemen, Oman, Saudi Arabia, Kuwait, Jordan, Iraq, Lebanon, Afghanistan and Pakistan

Cummins offers one of the widest ranges in diesel power generators, starting from 17 kVA till 3750 . kVA

Diamond Metal Screen Pvt. Ltd.



Plot No. 26, R.S.S. No. 336/1 Majagaon, Udyambag Belgaum, Karnataka, 590008, India Tel: +91 831 2407775/2441508 Fax: +91 831 2441524 Web: www.diamondscreens.com E-mail: diamondscreens@vsnl.com Diamond Metal Screen PL is Asia's leading manufacturer and exported of custom made

perforated metal sheets. We have a state-of-art manufacturing facility spread over 50,000 sq.ft. We perforate almost all metal in various designs for industrial and architectural purpose. If you have a design we can perforate it for you.

Danway LLC

PO Box 50048. Dubai United Arab Emirates Tel: +971 4 3473700 Fax: +971 4 3473232 Web: www.danwayllc.com E-mail: info@danwayllc.com

Danway, the proud engineering arm of Al-Nowais Investments is a registered UAE manufacturer and also holds a GCC state-manufacturing license for

Modular systems **Complete conveyors** Special constructions Accessories and

Förderanlagen | conveyor-systems

bertram-hannover.de

a variety of products.

The multi-coloured bouquet of DANWAY's areas of excellence includes the electrical, power and automation division, the support technologies division, power division and the industrial and retail systems division.

Doka Middle East

C/o Doka Gulf FZE PO Box 61407 Jebel Ali Free Zone, Dubai United Arab Emirates Tel: +971 4 8708700 Fax: +971 4 8708702 Web: www.doka.com E-mail: emirates@doka.com

Worldwide, Doka is one of the leading firms in the formwork industry. Our globe-spanning organisation with 160 sales and logistics locations give construction companies around the world fast access to safe, dependable and highperforming formwork solutions. Doka customers profit from speedy and prompt availability of required formwork together with Doka's unmatched services for every type of building construction and civil engineering project.

Agents:

Bahrain - Doka Bahrain Doka Saudi Co. Ltd. for Trading Rep. Office Jordan - Doka Jordan LLC Kuwait - Doka Kuwait - Div. of Riham Gen. Trad. &

Cont. Co. Lebanon - Doka Lebanon Oman - Doka Muscat LLC

Qatar - Doka Qatar WLL

Saudi Arabia - Doka Saudi Co. Ltd. for Trading (Dammam)

Saudi Arabia - Doka Saudi Co. Ltd. for Trading (Jeddah)

Saudi Arabia - Doka Saudi Co. Ltd. for Trading (Riyadh)

Turkey - Doka Kalıp- skele Sanayi ve Ticaret AS United Arab Emirates - Doka Emirates LLC (Abu Dhabi Branch)

United Arab Emirates - Doka Emirates LLC (Sharjah Branch)

Doosan Portable Power



PO Box 262688 JLT Platinum Tower Cluster I. Level 18 Office 1802, Dubai United Arab Emirates Tel: +971 4 2767206 Fax: +971 4 2767204 Web: www.doosanportablepower.com

E-mail: hazem.elnageeb@doosan.com Doosan Portable Power is a market leading

manufacturer of portable compressors and mobile lighting systems for the Middle East market. All Doosan Portable Power products are designed and rigorously tested to ensure they give outstanding operation on the toughest sites and in the most extreme conditions around the world, for applications in construction, roads, utilities, rental, guarrying and many other industries

Agents: Bahrain - Mohammed Jalal & Sons WLL Egypt - Otrac Heavy Equipment Co. (Doosan Portable) Iraq - Tristar Co. Iraq Jordan - Arab Equipment Trading Co. Kuwait - Bahrah Trading Co. WLL Lebanon - Tracksparco Bachalani SARL Libva - Rawasee Co. Oman - Al-Futtaim Auto & Machinery Co. LLC (FAMCO - Oman) Qatar - Jaidah Group Saudi Arabia - The Machinery Group LLC United Arab Emirates - Al Futtaim Auto & Machinery CollC

Dresser-Rand

Barrio De Oikia, 44 Zumaia-Gipuzkoa, 20759Spain Tel: +34 943 865200 Fax: +34 943 865210 Web: www.dresser-rand.com

E-mail: guascor@dresser-rand.com

Dresser-Rand, a global supplier of environmentally-friendly technology in power generation of oil & gas, industrial, construction, mining, and commercial industries, are designed to work with a wide range of fuels for its Guascor engines, including natgas, diesel, biogas, biodiesel, flare gas, syngas, low methane and other gases to produce hot water, steam/cold and power.Range:100kWe-2.5mWe.

Agents: Egypt - Proserve

Eaton

Eaton Middle East, PO Box 52080 Dubai Techno Park, Dubai United Arab Emirates Tel: +971 4 8066100 Fax: +971 4 3329239 Web: www.eaton.ae

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Masa GmbH

Masa-Straße 2 Andernach 56626 Germany Tel: +49 2632 92920 Fax: +49 2632 929211 Web: www.masa-group.com E-mail: info@masa-group.com

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salesuk@mccloskeyinternational.com McCloskey International is the largest

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Metso Minerals

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Panasonic Marketing Middle East & Africa FZE

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Top Screw Metal Corp.



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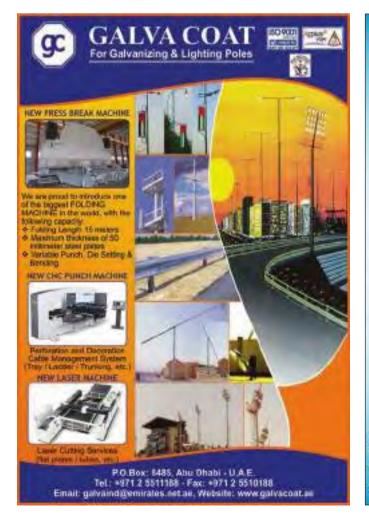
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لكرة القدم 2022 المزمع إقامتها في قطر. ويقول بريجو صمويل، المدير المساعد بقسم البحوث والاستشارات في مركز Wresearch 6: «على الرغم من تأثر سوق معدات البناء بسبب انهيار أسعار النفط، فمن المتوقع أن تستعيد السوق حيويتها عقب 2017، بعد تعافي أسعار النفط والمبادرات التي اتخذتها بعض الحكومات لتنويع الموارد الاقتصادية لدولها.

كما أنه على مستوى سوق معدات البناء في دول مجلس التعاون الخليجي استحوذت معدات الحفر على أعلى حصة إيرادات، ومن المنتظر لها أن تواصل هذا النهج في الفترة المقبلة أيضا. ومن المأمول أن تؤدي المبادرات الحكومية لتطوير البنى التحتية العامة في كل من الكويت وقطر والمملكة العربية السعودية ودولة الإمارات العربية المتحدة، إلى ازدهار سوق معدات البناء».

وقالت ساتي بول، محلل البحوث في قسم البحوث والاستشارات جركز Wresearch 6: «إن مشروعات البنية التحتية المرتقبة، مثل مترو الكويت ومترو الرياض ومترو دبي وتوسعة مطار مسقط الدولي في عمان، فضلا عن مشروعات الإنشاءات السكنية الجديدة، سوف تؤدى إلى رفع الطلب على معدات

البناء الجديدة. كما أن هناك مشروعات المرافق العامة؛ مثل محطات الطاقة النووية وتحلية المياه في عموم دول مجلس التعاون الخليجي، والتي تعزز نمو السوق خلال السنوات الست المقبلة».

وتختلف احتياجات معدات البناء من سوق إلى أخرى. كما أن مراقبة توجهات السوق على الصعيد العالمي أمرٌ في غاية الأهمية لدفع عجلة الإبداع والابتكار. فعلى سبيل المثال، أسهمت عوامل مثل سوق الإنشاءات الآخذة في النمو ومشروعات المرافق العامة في دولة الإمارات العربية المتحدة والمملكة العربية السعودية وقطر، في دعم هذه السوق بمنطقة دول مجلس التعاون الخليجي.

وقد نجم عن انخفاض أسعار النفط العالمية حدوث تباطؤ في الإنفاق على البنى التحتية، وكان من شأن ذلك إيقاف العمل بالعديد من المشروعات في المنطقة. هذا وقد تأثرت المملكة العربية السعودية بانخفاض عوائد النفط. وقد بلغت الاستثمارات في قطاع المرافق مستويات قياسية؛ بسبب تزايد الطلب على الطاقة، مما لعب دورا كبيرا في نمو السوق.

ومن المتوقع أن تشهد سوق معدات البناء في دول مجلس التعاون الخليجي تحسنا بفضل تعافي أسعار النفط والمبادرات التى تتخذها الحكومات

المختلفة لتنويع موارد الاقتصاد. وفي الوقت الراهن، تشير التوقعات إلى نمو السوق العالمية لمعدات البناء الثقيلة، معدل نمو سنوي مُركب نسبته 7 في المائة خلال الفترة ما بين 2016 و2021، وبلوغ حجم الاستثمارات بها 180,66 مليار دولار بحلول 2021.

وتكتسب سوق معدات البناء الثقيلة زخما في مجال الإنشاءات الحديثة، وذلك لعدة عوامل، منها: التوسع الجغرافي للأسواق الناشئة. فضلا عن ذلك، يوفر استخدام معدات البناء الثقيلة فرصا رائعة للجهات الفاعلة في السوق خلال السنوات العشر المقبلة. ومن بين العوامل الأخرى التي تنهض بسوق معدات البناء الثقيلة، التوسع الحضرى السريع وزيادة الاستثمارات في قطاعي الإنشاءات والتصنيع. وتشير التقديرات إلى أن قطاع أعمال الحفر والهدم، سوف يهيمن على سوق معدات البناء الثقيلة، وسيكون القطاع الأعلى نموا خلال الفترة المشمولة بالتوقعات. كما يُنتظر أن يبلغ معدل النمو السنوى المركب لهذا القطاع مستويات أعلى على مدى السنوات الخمس المقبلة، وذلك بسبب زيادة أنشطة التعدين والتنقيب عن المعادن والفلزات الثمينة على مستوى العالم، وزيادة الكوارث الطبيعية، حيث يجرى استخدام الحفارات في أعمال الإنقاذ.



موق معدات البناء الثقيلة تكتسب زخما في مجال الإنشاءات الحديثة



تم إنشاء أبنية جديدة في مركز الملك عبد الله المالي

توقعات بانتعاش سوق معدات البناء فهي الخليج

من المتوقع أن يبلغ معدل النمو السنوى المُركب لسوق معدات البناء بدول مجلس التعاون الخليجي 1,6 في المائة من العام 2016 حتى 2022، بحسب تقرير توقعات تفصيلى صادر عن مركز Wresearch 6. فخلال الفترة بين عامى 2015 و2017، كان من المرتقب أن تظل سوق معدات البناء متأثرة بفعل خفض الإنفاق الحكومي الناجم عن تراجع عوائد النفط. غير أن الخبراء قد أكدوا على أن السوق سوف تشهد، عقب انقضاء 2017، تحسنا بفضل الارتفاع المتوقع في أسعار النفط، والمبادرات التى أطلقتها الحكومات المختلفة لتنويع الأنشطة الاقتصادية.

> من بين جميع قطاعات معدات النقل، استحوذ قطاع معدات الحفر على أعلى حصة إيرادات، يليه قطاع الرافعات المتحركة، ثم الشاحنات القلابة. علما بأن معدات الحفر تستخدم على نطاق واسع

في قطاعي البناء والتعدين. وعلى مستوى سوق يزال طفيفا. وعلى الجانب الآخر، من المتوقع أن معدات البناء في دول مجلس التعاون الخليجي بوجه عام، تمتلك المملكة العربية السعودية أعلى نمواً معتمداً على معرض إكســــبو الدولى المقرر حصة إيرادات. ومع ذلك، يبدو أن نمو السوق لا إقامته في دبـــــي 2020 وبطولة كأس العـــالم

تسجل دولٌ، مثل الإمارات العربية المتحدة وقطر،

العراق وإيران تتفقان علمه إنشاء مدن صناعية مشتركة

ذكرت تقارير إخبارية أن العراق وإيران وقعتا الإيرانى: إن الدولة تعتزم توثيق علاقاتها الاقتصادية ـ مؤخرا ـ مذكرة تفاهم لإنشاء مناطق صناعية مشتركة. وقد أعلنت وكالة أنباء «شتا» أن وزير الصناعة والتعدين والتجارة الإيراني، محمد رضا نعمت زادة، وقع مذكرة تفاهم مع نظيره العراقى، محمد شياع السوداني. وفي حفل التوقيع، قال الوزير

والتجارية مع العراق.

وبحسب وكالة أنباء «مهر»، أشار نعمت زادة أيضا إلى أن عدم وجود العلاقات المصرفية بين البلدين، قد تمخض عنه حدوث مشكلات جسيمة في القطاع الخاص لكلا الطرفين. فعلى الرغم من الاتفاقية التي

وقعها البنكان المركزيان للدولتين العام الماضي، لم يشهد التعاون أى تقدم يذكر في هذا الصدد.

من جانبه، أعرب السوداني عن حرص بلاده على التعاون مع إيران في مختلف المجالات، ولا سيما تصدير الغاز. كما ناقش أيضا إنشاء خمس مناطق صناعية في المناطق الحدودية بين البلدين.

بدء تشغيل مشروع المياه العماني في الربع الرابع من ٢٠١٧

المياه لإنتاج 44 مليون جالون يوميا في ولاية قريات، بحلول الربع الرابع من عام 2017. ووفقا لصحيفة «تايمز أوف عمان» الناطقة بالإنجلزية، فإن مشروع محطة قريات لتحلية المياه البالغة تكلفته 260 مليون دولار، والذي يستخدم تقنية التناضح العكسي، كان قد أوكل إلى ائتلاف مكون من شركة هايفلاكس السنغافورية وشركة الطاقة والمياه الوطنية في 2014. وكانت الشركة تتوقع بدء إنتاج المياه الصالحة للشرب في مايو/أيار 2017. ومن المتوقع أن توفر محطة قريات 17 في المائة من احتياجات السلطنة من المياه.

ويبدأ أيضا تشغيل محطة أخرى كبيرة لتحلية المياه في الربع الثاني من 2018 ضمن المشروع المستقل محطة بركاء (4) لتحلية المياه بتكلفة 300

من المقرر أن تبدأ عُمان في تشغيل مشروع تحلية مليون دولار، والمملوكة لشركة بركاء لتحلية المياه، والتي تبلغ طاقتها الإنتاجية 62 مليون جالون يوميا. وتعد شركة بركاء لتحلية المياه ملكية مشتركة لشركة إيتوشو، وسويز، وإنجى وشركة تاول للخدمات الهندسية. فضلاً عن ذلك، تم إسناد مشروع محطة تحلية المياه صحار 3 في نوفمبر/تشرين الثاني 2015 لشركة الخليج للمياه، وتبلغ طاقتها 55 مليون جالون يوميا، باستخدام تقنية التناضح العكسى، ومن المقرر أن يبدأ تشغيلها لأغراض تجارية في الربع الثالث من 2018. وتبلغ السعة الإنتاجية الكلية لهذه المحطات الثلاث الكبرى لتحلية المياه، والتي لا تزال في مراحل الإنشاء المختلفة في المنطقة المترابطة،161 مليون جالون يوميا، (ما يعادل 731 ألف متر مكعب يوميا). وتشر التوقعات إلى أن متوسط الطلب السنوى

ارتفاع الطلب على المياه في عمان سببه ارتفاع عدد السكان والمشروعات السياحية

على المياه في المنطقة الشمالية سيزداد بنسبة سبعة في المائة على مدى السنوات السبع التالية (حتى 2023). وستلبى المشاريع الجديدة الطلب المتزايد على مياه الشرب. وتعزو زيادة الطلب على المياه في السلطنة بشكل رئيسي إلى النمو السكاني والمشروعات السياحية. وقد بلغ تعداد سكان السلطنة 4,57 مليون نسمة بنهاية يونيو/حزيران 2017. ومن المتوقع أن يتزايد الطلب على المياه من قبل قطاع الضيافة لوجود العديد من الفنادق في المراحل المختلفة من التخطيط والانشاء.

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والسلامة	للصحة	الثالث	السنوي	المنتدى	. 9 <u>_</u> /
دبي					والأمن .





الاتفاقية ستحقق هدف مصر في تخفيف الأحمال عن الطرق البرية

تحسين البنية التحتية لسكك حديد مصر

أعلنت شركة جنرال إلكتريك عن توقيع خطاب نوايا بقيمة 575 مليون دولارأمريكي مع وزارة النقل والهيئة القومية للسكك الحديدية المصرية، وذلك لتوريد 100 قاطرة من طراز «جي إي إي إس 30 إيه سي آي» من سلسلة «لايت إيفوليوشن»، والتي يمكن استخدامها لقطارات الركاب والبضائع. هذا بالإضافة إلى اتفاقية لمدة 15 عاما لتوفير قطع الغيار والدعم الفني لقاطرات جنرال إلكتريك في الأسطول الجديد والحالي لسكك حديد مصر. وتشمل الاتفاقية، التي تعد الأكبر من نوعها بين الطرفين، التدريب التقنى

الذي يهدف إلى تحسين القدرات المحلية والمهارات الفنية لما يربو على 275 مهندسا ومستخمدا بسكك حديد مصر. وقال جون رايس، نائب رئيس مجلس إدارة جنرال إلكتريك والرئيس التنفيذي لمنظمة النمو العالمي في الشركة: «إن توفير بنية تحتية مستدامة ومتطورة يعد هدفا مشتركا للإستراتيجيات الوطنية على مستوى العالم. فقطاع النقل يعتبر عنصرا بالغ الأهمية. ونحن نتعاون مع وزارة النقل وسكك حديد مصر في هذه العملية برمتها، بدءا من ضمان توفير حل تمويلي تنافسي مع الشركاء، وحتى توفير



الدعم التقني والصناعي للقاطرات، وتدريب وتطوير مهارات المهندسين. علما بأن الشراكة الفعلية تتطلب تفاعلا على جميع المستويات من أجل حلول شاملة ومتكاملة». من جانبها، أضافت الدكتورة سحر نصر، وزيرة الاستثمار والتعاون الدولي المصرية، قائلة: "إن العلاقة بشركة جنرال إلكتريك هي ممثابة شهادة على الإمكانات الملحوظة والواضحة في قطاع النقل، والالتزام الراسخ من جانب القطاعين العام والخاص للاستفادة منها. ونحن على يقين من أنه سيساعد على دفع الاستثمارات المستقبلية عبر قطاعات متعددة".

كما ذكر دكتور هشام عرفات، وزير النقل، أن هذا الاتفاق سيسهم في تعظيم دور الهيئة في نقل البضائع عبر السكك الحديدية، وهو ما يتماشى مع رؤية الوزارة التي تهدف إلى تحسين البنية التحتية للسكك الحديدية وتقليل الأعباء على الطرق، والمساعدة في تحقيق هدف الدولة لنقل 25 مليون طن بضائع سنويا عبر السكك الحديدية بحلول 2020. ويشمل العقد أيضا صيانة ورفع كفاءة قاطرات جنرال إلكتريك الموردة في 2008. هذا إلى جانب توفير قطع الغيار المطلوبة لصيانة أسطول قاطرات جنرال

وتأتي قاطرات «جي إي إي إس 30 إيه سي آي»من سلسلة «لايت إيفوليوشن» لنقل الركاب مزودة بـ 12 أسطوانة، وبمحرك بقدرة 3200 حصان. وتوفر القاطرة قوة كبيرة لتحسين الإنتاجية والمرونة في عمليات النقل الثقيل، علاوة على تعزيز الكفاءة. ويمكن استخدام القاطرات في نقل الركاب والبضائع.



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ADVERTISER INDEX			
Page	Page		
	75		
ressoren FZE5	3		
s Gulf FZE19	2		
ort AG13	61		
	29		
Corporation	25		
us GmbH57	65		
st15	7		
	65		
ator Elektrik Sanayi ve Ticaret AS35	52		
etal Corp65	11		
V61	68		
& Co. KG			

CompanyPage
Aggreko (Middle East) Ltd75
Aksa Jenerator Sanayi AS
Al Naboodah Group Enterprises2
Arminox Gulf FZCO61
Balkrishna Industries Ltd29
CompAir*25
Diamond Metal Screens Private Limited65
Doosan Infracore7
Galva Coat for Galvanizing & Lighting Poles65
Gustav Bertram GmbH52
Himoinsa, S.L11
Hypertherm Europe B.V68
Inmarco FZC51

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