

TEI ENERGY Outlook

MARCH 2022 VOLUME - 9, EDITION - 03

EXPLORE



EMPOWER



EVOLVE



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TEI Partner Events

exhiVits – The Virtual Exhibition

Date: Mar 07, 2022 - Mar 09, 2022

Venue: Online/Virtual, USA

Smart Grid Forums - IEC 62433 Week 2022

Date: Jun 13, 2022 - Jun 17, 2022

Venue: Edinburgh, United Kingdom

Solar PV World Expo 2022 (PV Guangzhou)

Date: Aug 10, 2022 - Aug 12, 2022

Venue: China Import & Export Fair Complex, Guangzhou, China

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- Sample Tender Leads,
- List of Upcoming Tenders,
- Sample Project Report,
- List of Contract Activities
- Sample TEI Weekly Newsletter, and
- TEI Energy Outlook

For inquiries, please write to us at fdesk@theenergyinfo.com

India's Hydrogen Potential

India is set on a path to enhance its green energy portfolio with 'green hydrogen' as a source of zero-carbon energy.

Hydrogen plays a crucial role to decarbonize various sectors including transport, buildings, chemicals, refining, oil and gas industry and power generation and to achieve climate neutrality in the long term.

The hydrogen technology helps increase flexibility in energy systems. It has the capability to serve as a large-scale clean energy storage medium that aids power generation from renewable sources.

Besides, green hydrogen production from renewable energy is ought to become cheaper with the latter costs dropping significantly throughout the years. Improving electrolyzer technologies could make "green" hydrogen cost competitive by 2030.

The global hydrogen market generated a revenue of about \$200bn in the year 2021. There is a growth opportunity of \$100bn in the market during the period of 2022-2027.

The potential for hydrogen in India is immense. The demand for hydrogen is around 6 million tonnes (mt) per annum, according to TERI. It needs to go up to 28 mt by 2050 and 40 mt by 2060 if the net-zero carbon target is to be achieved. Potentially, hydrogen can also save over \$160bn worth of imports for India on crude, natural gas/LNG, coal, petroleum products and ammonia.

India is taking major strides to lead the transition from fossil fuels to green and clean energy and also become a major resource of Solar and Hydrogen Energy in the coming decades. The union government has recently announced the first Green Hydrogen/Ammonia policy wherein the government is offering sops to manufacture green fuels.

All the major Indian companies are embarking on clean energy and green hydrogen production. Reliance Industries Ltd (RIL) is building an electrolyzer factory for green hydrogen, and a fuel cell factory for converting hydrogen into motive and stationary power. This will be a big boost to the country's nascent hydrogen economy. The company plans to deploy close to 3 GW of solar power to produce 400,000 tonnes of green hydrogen.

India's top electricity generator, NTPC, has aggressive and ambitious renewable energy plans. The company is targeting to be the largest green hydrogen producer and provider in India, says its Executive Director. The company has set a 60 GW renewable energy capacity target by 2032, which would constitute nearly 50% of its overall power generation capacity and a substantial part of this RE would be utilized to produce green hydrogen, and subsequently the derivatives which could be green ammonia and green methanol.

Likewise, other major Indian firms including GAIL, IOCL, Oil India, L&T, BPCL and more are moving ahead with plans to tap green hydrogen business to provide carbon-free future.

Green hydrogen technology is showing real signs of promise to boost India's energy economy in the coming years.

TEI Editorial

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► Taziz' Ruwais Petrochemical Complex

CLIENT: Taziz, JV of Adnoc and ADQ, UAE
STATUS: Bids invited

Taziz, a joint venture of Adnoc and ADQ, has invited bids for the Cogeneration Plant to be built in the petrochemical complex.

Last date to submit bids is 17 March, 2022.

The planned steam and power facility will supply electricity to the different plants to be built in the complex.

The petchem project scope involves the construction of chlor-alkali, ethylene dichloride, methanol, ammonia, isopropyl alcohol, and elastomers production plants, along with the construction of port facilities, infrastructure works and associated facilities.

CONTACT:
 Abu Dhabi National Oil Company (Adnoc)
 PO Box: 898
 Abu Dhabi, UAE

Phone: +971 2 6020000
 Fax: +971 2 6023389

► SPPC's Taiba IPP Project

CLIENT: Saudi Power Procurement Company (SPPC), Saudi Arabia
STATUS: Developers pre-qualified

Saudi Power Procurement Company (SPPC) has pre-qualified lead developers for the project to develop a 3,600 MW gas-fired independent power producer (IPP) at Taiba, located near Medina in the western province of the kingdom.

Lead Developers who have been pre-qualified are:

- Abu Dhabi National Energy Company (TAQA)
- EDF S.A.;
- General Electric Company;
- International Company for Water and Power Projects (ACWA Power);
- JERA Co., Inc.;
- Kahrabel FZE
- Korea Electric Power Corporation;
- Marubeni Corporation;
- Nebras Power Q.P.S.C.;
- The Kansai Electric Power Co., Inc.

Other applicants will be able to participate as part of a consortium led by a lead developer.

Taiba IPP is being planned to be developed along with another 3.5 GW gas-fired Al-Qassim IPP project.

TEI reported earlier that the client had appointed Fichtner Consulting of Germany as technical consultant, Cranmore as Financial Consultant and Linklaters as the legal adviser for the two planned projects.

SPPC is planning to sign a power purchase agreement (PPA) with the appointed developer for a period of 25 years following the beginning of commercial operations of the plant. The project will be developed under a build, own and operate (BOO) structure.

CONTACT:
 Saudi Power Procurement Company (SPPC)
 2929-Al Aarid - Unit Number:68
 ZIP Code:13342-6274
 Riyadh, Saudi Arabia

Phone: 920011867
 Email: info@spb.com.sa

► MIRC's Missan Refinery Project

CLIENT: Missan International Refinery and Chemical Company (MIRC), Iraq
STATUS: EPC contract awarded

Iraq's Missan International Refinery and Chemical Company (MIRC) has awarded the engineering, procurement and construction (EPC) contract worth \$880 million to Power Construction Group International Engineering Co. Ltd., a wholly-owned subsidiary of Power Construction Corporation of China Ltd. (PowerChina) to build 150,000 barrels per day Missan Refinery Project.

The contract scope includes the design, procurement and construction of main process equipment, public works, storage and transportation works and related auxiliary systems in the factory area.

The project is scheduled for completion in Q3, 2026.

The Missan International Refinery Company was formed by a Swiss-Chinese consortium comprised of Swiss industrial firm Satarem with 15 percent share and China's Wahan with 85 percent share.

CONTACT:
 Power Construction Corporation of China Ltd. (PowerChina)
 Chegongzhuang West Road,
 Haidian District, Beijing – 100048
 China

Email: overseas@powerchina.cn

► NIOC's Sohrab Joint Oilfield Development Project

CLIENT: National Iranian Oil Company (NIOC), Iran
STATUS: Contract signed

National Iranian Oil Company (NIOC) has signed a \$800-million contract for the development of Sohrab joint oilfield.

Dana Energy Company has been signed up for the financing, development and operation of the Sohrab joint oil field in the form of a new model of oil deals.

The 20-year contract is aimed at cumulative production of 160 million barrels of crude oil from the field.

The project entails natural discharge and drilling plans for 20 new wells, equipping 14 wells with downhole pumps, a compressor with three-phase pumps, crude oil pipeline and construction of a separation and measurement unit near West Karoon production unit.

With the completion of the development phase of the project, production from the field is expected to reach 30,000 barrels per day.

CONTACT:
 National Iranian Oil Company,
 Hafez crossing,
 Taleghani Ave.,
 Tehran, Iran

► PIF's Renewable Energy Projects – Phase 2

CLIENT: Public Investment Fund (PIF), Saudi Arabia
STATUS: Financial adviser selected

Saudi Arabia's Public Investment Fund (PIF) has selected a financial adviser

for six major renewable energy projects of phase 2, which will include solar and wind projects

PwC of UK has been selected as a financial consultant for the renewables projects with a capacity of 2.3 GW, which will include a 900 MW PV solar plant at Shuaiba.

Saudi Arabia has set a target of developing 58.7 GW of renewable energy capacity by 2030. PIF will oversee the development of 70 percent capacity, through directly negotiated contracts with investors with the Renewable Energy Project Development Office (Repdo).

CONTACT:
Public Investment Fund (PIF)
AIRaidah Digital City
Al-Nakheel
P.O. Box 6847, Riyadh 11452
Kingdom of Saudi Arabia

► QatarEnergy's North Field Production Sustainability (NFPS) Project

CLIENT: QatarEnergy, Qatar
STATUS: EPCI bids invited

Qatargas has invited bids for the engineering, procurement, construction and installation (EPCI) contract of the gas pipeline package of the North Field Production Sustainability (NFPS) project.

Last date to submit bids is 30 March, 2022.

The contract scope includes the EPCI of fuel gas pipelines and fibre optic cable networks. It comprises two 32-inch carbon steel trunk lines from onshore to a key offshore facility with interconnecting lines, totaling up to 190 kilometres.

The work also involves an onshore fuel gas tie-in from QatarEnergy's gas grid and the hook-up of associated facilities.

The NFPS project aims to sustain long-term gas production from the North Field.

The project is being managed and operated by Qatargas Operating Company Limited, a subsidiary of QatarEnergy.

CONTACT:
QatarEnergy
PO Box 3212,
Doha, Qatar

Phone: 974 4440 2000
Fax: 974 4483 1125

► SEA's Grid Tied Solar PV Rooftop Power Plant

CLIENT: Sustainable Energy Authority (SEA), Bahrain
STATUS: Bids invited

Sustainable Energy Authority (SEA) of Bahrain has invited bids for the solar power project at Ministry of Education properties.

Last date to submit bids is 16 March, 2022.

The successful developer will Build, Own, Operate and Maintain (BOOM) a minimum capacity of 5 MWac grid-tied solar PV power plant on building rooftops and car park at 14 properties of the Ministry of Education for a 20-Year Period Contract.

CONTACT:
Sustainable Energy Authority (SEA)
P.O. Box 26814,
Manama,
Kingdom of Bahrain

Phone: +973 17 319429
Email: inquiry@seu.gov.bh

► Kuwait MEW's Al-Mutlaa Water Reservoirs Project

CLIENT: Ministry of Electricity & Water (MEW), Kuwait
STATUS: EPC bids submission extended

Kuwait's Ministry of Electricity & Water (MEW) has extended the bids submission deadline for the contract to design and build three water reservoirs, at an estimated cost of \$125mn, at Al-Mutlaa Residential City.

Bids are now due to be submitted by 8 March, 2022.

The pre-qualified companies include:

- Al-Ahmadiyah Contracting & Trading
- Al-Dar Engineering & Construction
- Alghanim International General Trading & Contracting
- Al-Hani Constructions & Trading
- Arab Kuwait Contractors
- Bayan National Construction Contracting
- Combined Group Contracting
- Consolidated Contractors Company
- Gulf United Construction
- KCC Engineering & Contracting
- Khaled Ali Alkharafi & Brothers Construction
- Kuwait Company for Process Plant Construction & Contracting
- Mohammed Abdulmohsin al-Kharafi & Sons

The planned reinforced concrete tanks will have a total combined capacity of 115 million gallons.

CONTACT:
Kuwait Ministry of Electricity and Water
South Al Sourra Street
Ministries Area
P.O. Box 12
Kuwait City Safat 13001

Phone: +965 2537-1000
Fax: +965 2537-1420

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News & Technology



Aramco Announces Launch of Prosperity7 Ventures

Aramco officially announced the launch of Prosperity7 Ventures, a one-billion-dollar Venture Capital fund. The fund has been operational for over a year, but was launched officially by Aramco Chief Technology Officer Ahmad Al-Khowaiter during the LEAP 22 technology conference in Riyadh.

Prosperity7 is designed as a global financial VC, with a long-term view to support the development of next-generation technologies and business models that will bring prosperity and positive impact on a vast scale.

Aramco Chief Technology Officer Ahmad Al-Khowaiter, said: "Through the breadth of the Saudi Aramco ecosystem, its vast resources, and its far-reaching footprint across geographies and sectors, Prosperity7 can present unparalleled opportunities for scalability and impact. This potential would be instrumental in creating stronger foundations for success for its portfolio compa

nies."

The fund supports exceptional entrepreneurs in building transformative companies striving to solve some of the world's most pressing challenges. Prosperity7 will support building long-lasting partnerships, providing quality mentorship, and access to a network of leading companies, venture capital firms, and market experts worldwide.

The fund identifies ground-breaking companies with exceptional leadership in diverse industries which are deploying

disruptive technologies with the ability to scale and transform. Investments include early-stage enterprise, blockchain, financial and industrial technologies, healthcare, and education solutions. It is headquartered in Dhahran, with offices in Palo Alto, New York, Beijing, and Shanghai.

The fund is named after Dammam Well-7, the first oil well to strike commercial oil in Saudi Arabia, also known as the 'Prosperity Well'.

Building on a corporate heritage that has been bookmarked by explorers and entrepreneurs, Prosperity7 continues the tradition of turning big ideas into realities.■



Oman holds Potential for Sustainable Use of Wind and Solar Energy – Study

Solar, tidal and wind energy resources can be the best alternatives to fossil fuel in future in the Sultanate of Oman, and experts called for an advanced Wind Energy Center in Duqm, according to a study conducted by the Sultan Qaboos University (SQU).

The study conducted by principal investigator Dr Mohamed Eldesoky Hereher, Assistant Professor, Geography Department and Dr Ahmed M El Kenawy and published in Renewable Energy journal at the University, suggests the country's richness of nearly 360 days of sunlight and its potential in attaining self-sufficiency in solar energy.

The research indicates that almost 3.2 percent and 4.4 percent of the Omani territory is valid for sustainable use of wind and solar radiation, respectively.

"We have made a comprehensive assessment of the potential renewable energy resources in the country, with a particular focus on solar, wind and tidal energy resources. We adopted a novel approach to assess the potential of these energy resources, in which information from multiple climatic indicators is coupled with socioeconomic drivers of energy development," Doctor Mohammed said.

His study titled 'Exploring the potential of solar, tidal, and wind energy resources in Oman using an integrated climatic-socioeconomic approach' was awarded in the Energy and Industry field within the PhD category, selected from a number of innovative research projects in the 8th National Research Award organized by the Ministry of Higher Education, Research and Innovation (MoHERI).

According to Dr Mohamed, the team then introduced a new overall assessment index (OAI) based on these three climatic indicators to explore the best localities from a climatic perspective for generating solar and wind energies. The validity of the recommended sites was discussed in the context of important physiographic, environmental and socioeconomic constraints such as population density, urban settlements, distance to water bodies, transportation network and the like.

Their study was based on a daily dataset of the National Centers for Environmental Prediction (NCEP) Climate Forecast System Reanalysis (CFRSR); three climate indicators were employed to characterize the frequency, intensity, and duration of solar radiation and wind speed.

According to Dr Mohamed, the Sultanate of Oman can be the hub for alternative energy for the future as both solar radiation and wind can be used as substantial alternative sources of fossil fuel resources in Oman, with almost 3.2 percent and 4.4 percent of the Omani territory being valid for sustainable use of wind and solar radiation, respectively. The most recommended sites for wind generation are located mainly along Al-Jazir and Duqm coasts of southeastern Oman, where a promising wind energy center can be constructed. He added that the best localities for the development of hybrid solar radiation

generation centers are likely to be placed in Sohar and Thumrayt, where solar intensity approaches 8.1 kWh/m², with a high frequency of occurrence throughout the year. In contrast, Oman showed low potential to generate tidal power, mainly due to a low tidal range (<2 m) along the majority of the Omani coastline.

Dr Mohamed further added that this study has provided a solid base for national and local decision makers in Oman for a reliable assessment, monitoring, and sustainable exploitation of clean and renewable energy resources, especially with high population growth, accelerated urbanization, and rapid economic growth over the past few decades, which can pose more challenges to future energy demand in this country.■



Aggreko Commissions ME's Largest Flare Gas to Power Project in Kurdistan

Aggreko is proud to announce commissioning of the largest flare gas to power project in the Middle East to date at 165 MW capacity. The plant is situated nearby the Saqala Field, Garmain block, South East Kurdistan.

The 165 MW modular power plant has run at full capacity for 72 hours in the project's final site acceptance test (SAT), marking successful on-time, on-budget delivery. The plant is run on approximately 40 million square cubic feet (SCF) per day of associated petroleum gas (APG) from the Saqala Field, saving 840 tonnes of CO₂ per day, and cutting flaring by a third.

Delivered over the course of 2020-2021 against the backdrop of the pandemic, the project was conceived and executed in close collaboration with Kurdistan's Ministry of National Resources (MNR) and Ministry of Electricity (MOE). Aggreko also delivered a new 6km gathering pipeline to transport the APG to the power plant, and upgraded 7km of 33 kV and 33km of 132 kV overhead cables to new high tensile low sag (HTLS) conductors in order for the local distribution grid to handle the new power plant's full output.

Ahmed Mufti, Kurdistan Regional Government's Deputy Minister of Natural Resources (MNR) said, "We worked with Aggreko to provide a creative solution to convert flare gas to power in a way that directly benefits the local population and the regional in general, while creating a positive environmental impact and improving air quality."

Phil Burns, Managing Director for Aggreko Middle East, comments: "Kurdistan's Regional Government has been forward-thinking in looking for ways to capture and convert gas that would otherwise be flared, to unlock production and power the local economy. We are extremely proud to have worked with the Ministries to deliver the Middle East's largest flare gas to power project to date, while upgrading the local infrastructure to the lasting benefit of the community and businesses it serves."

The project is now contracted to run for four years, delivering power 24/7/365. Built using 192 MW of modular gas generators, the plant can easily be scaled up or down in response to changing gas volumes. Approximately 60 Aggreko engineers have delivered the project, with 80 local jobs created directly and indirectly for the site's delivery and ongoing operation, including 44 local nationals who have already commenced Aggreko's official training scheme.■

Gulf Marine Services Appoints Alex Acimandos as New Chief Financial



Alex Acimandos

GMS is pleased to announce the appointment of Alex Acimandos as the Company's new Chief Financial Officer with immediate effect. Alex brings with him a wealth of progressive international financial management experience gained in over 27 years with first-tier companies viz. Proctor & Gamble, ABB and Alvarez and Marsal. In his recent role, Alex was the Chief Financial Officer at Qatari Investors Group, a publicly listed company. He holds an MBA and is a US Certified Management Accountant.

Andy Robertson who has most recently served in that role will remain available to assist with an orderly handover of his duties and responsibilities after which he will be leaving GMS after almost 14 years of service with the Company.

Mansour Al Alami, GMS Executive Chairman, commented "I would like to welcome Alex to GMS. He brings with him a wealth of relevant experience and joins us at an exciting time as we continue with the Company's development."

"I also wish to thank Andy for his extensive contribution to GMS over the years, having served as CFO through the update to the Company's banking arrangements and its equity raise last year. We wish him well for the future."

Siemens Energy Appoints Karim Amin as New Executive Board



Karim Amin

The Siemens Energy Supervisory Board has appointed Karim Amin as Member of the Executive Board, effective March 1, 2022.

Amin is succeeding Jochen Eickholt who will leave Siemens Energy to serve as the new CEO at Siemens

Gamesa Renewable Energy, in which Siemens Energy holds a majority stake of 67%.

Amin currently is Executive Vice President for the Siemens Energy Generation division. As member of the executive board, he will be responsible for the Generation and Industrial Applications divisions and continue to lead the Generation business.

Amin served in various management positions and had experience in service operations, sales, product management and lately was responsible

for the biggest division within Siemens Energy (26,000 employees). He graduated from Cairo University as an Electrical Engineer and holds an MBA from Warwick Business School in the UK. Amin has been leading the performance improvement for the Generation Division since the establishment of Siemens Energy.

"Karim is an excellent leader. His passion for customers, people and competitive edge is outstanding. I've known him for over a decade and value his experience and dedication for our industry and his relentless efforts to drive innovation and decarbonization at all levels of the value chain," said Joe Kaeser, Chairman of the Supervisory Board of Siemens Energy.

Sukla Mistry takes over as Director for Refineries of Indian Oil



Sukla Mistry

Indian Oil said Sukla Mistry has taken over as the director for refineries of the company. Mistry is the first woman director on the board of the state-run energy major, said a company statement.

She will also hold the positions of director on the board of Chennai Petroleum Corporation Ltd (CPCL) and the 60 mmtpa Ratnagiri Refinery & Petrochemical Limited, a refinery project coming up in Maharashtra, it said.

Mistry will continue to hold the post of non-executive director on the board of IHBL, a joint venture company of three leading state-run oil and gas companies.

As the director (refineries) of Indian Oil she will spearhead the business and operations of nine refineries and petrochemical plants of Indian Oil. With its group of companies, Indian Oil remains the top refiner in India with a group refining capacity of 80.55 million tonnes per annum (1.64 million barrels per day).

Prior to taking over as director (refineries), she was heading Indian Oil's 6.0 mmtpa Barauni Refinery in Begusarai district of Bihar, as the only woman executive director & refinery head, leading an Indian Oil refinery.

Deepak Gupta Assumes Charge of GAIL's Director (Projects)

Deepak Gupta has assumed the charge as director (projects) of GAIL (India) Ltd, the company said on 14 February. A mechanical engineer, Gupta was executive director (projects) at Engineers India Ltd (EIL), before assuming his new post, GAIL said in a statement.

He has "more than 31 years of rich and diverse experience in oil and gas sector encompassing



Deepak Gupta

project management, construction management and business development functions", it said.

GAIL is expanding its pipeline network by over 5,600 km at an investment of over Rs 250 billion in the next few years.

It owns a cross-country network of natural gas pipeline operations for nearly 14,000 km. GAIL also owns and operates over 2,000-km network of LPG transmission pipelines and has five gas-processing units producing LPG and liquid hydrocarbons.

Bahrain

<p>Tender Name</p> <p>Country</p> <p>Bid Bond</p> <p>Description</p> <p>Closing Date</p> <p>Contact Detail</p> <p>Address</p> <p>Phone</p> <p>Fax</p> <p>Email</p>	<p>Service and Maintenance of Ultrasonic Flow Meters</p> <p>Bahrain</p> <p>BD 1000</p> <p>The Tender Board of Bahrain has invited bids for the Service and Maintenance of Ultrasonic Flow Meters.</p> <p>The company requires a support laboratory calibration and certification of SICK Ultrasonic flow meters - Service and Maintenance of Flow SICK Meters located at company facilities within Bahrain Oil and Gas Field.</p> <p>The Client is the Tatweer Petroleum W.L.L.</p> <p>Complete tender documents can be obtained on payment of BD 50 from the e-Tendering portal at http://www.tenderboard.gov.bh.</p> <p>06-03-2022</p> <p>Bahrain Tender Board</p> <p>7th Floor, Almoayyed Tower, Seef District</p> <p>PO Box 18686, Manama, Kingdom of Bahrain</p> <p>(+973) 1756 6666</p> <p>(+973) 1758 7855</p> <p>helpdesk@tenderboard.gov.bh</p>	<p>Closing Date</p> <p>Contact Detail</p> <p>Address</p> <p>Phone</p> <p>Fax</p> <p>Email</p>	<p>-tion of India Limited (PGCIL) for the 400kV GIS Substation Package SS02.</p> <p>Pre bid tie-up for 400kV GIS Substation Package SS02 for 400kV GIS at KPS-3 S/S including 400kV class Bus Reactor associated with Transmission scheme for Establishment of Khavda Pooling Station-3 (KPS3) in Khavda RE Park through tariff based competitive bidding (TBCB) route.</p> <p>Complete tender documents can be obtained from PGCIL.</p> <p>For any query related to this tender please contact - Tender Inviting Authority:</p> <p>Name:</p> <p>Umesh Kumar Yadav,</p> <p>Dy. Manager</p> <p>Address:</p> <p>Power Grid Corporation of India Limited, 3rd Floor, Plot No.-2, Sector-29, Gurgaon (Haryana) - 122001</p> <p>02-03-2022</p> <p>Power Grid Corporation of India Ltd (PGCIL)</p> <p>Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122001, India.</p> <p>0124-2571845</p> <p>0124-2571912</p> <p>chetan@powergridindia.com</p>	
<p>Tender Name</p> <p>Country</p> <p>Bid Bond</p> <p>Description</p> <p>Closing Date</p> <p>Contact Detail</p> <p>Address</p> <p>Phone</p> <p>Fax</p> <p>Email</p>	<p>Transformer Covering at Transmission Substations</p> <p>Bahrain</p> <p>BD 500</p> <p>The Tender Board of Bahrain has invited bids for the Transformer Covering at Transmission Substations.</p> <p>The purpose of this tender is to get the most suitable lump price for supply and erect roofing sheets at the substations: Umm Al-Hassam 220kV substation (three 220kV Transformers) and Water-front 220kV substation (two 220 kV Reactors) as per the set specifications.</p> <p>The Client is the Electricity and Water Authority.</p> <p>Complete tender documents can be obtained on payment of BD 15 from the e-Tendering portal at http://www.tenderboard.gov.bh.</p> <p>16-03-2022</p> <p>Bahrain Tender Board</p> <p>7th Floor, Almoayyed Tower, Seef District</p> <p>PO Box 18686, Manama, Kingdom of Bahrain</p> <p>(+973) 1756 6666</p> <p>(+973) 1758 7855</p> <p>helpdesk@tenderboard.gov.bh</p>	<p>Closing Date</p> <p>Contact Detail</p> <p>Address</p> <p>Phone</p> <p>Fax</p> <p>Email</p>	<p>Tender Name</p> <p>Country</p> <p>Bid Bond</p> <p>Description</p> <p>Closing Date</p> <p>Contact Detail</p> <p>Address</p> <p>Phone</p> <p>Fax</p>	<p>Supply of Wagon Spares</p> <p>India</p> <p>Earnest Money Deposit (IN INR): 1,00,000/-</p> <p>Tenders have been issued by NTPC India Limited for the Supply of Wagon Spares for MGR Korba.</p> <p>Complete tender details can be obtained on payment of Rs. 1328/- from NTPC.</p> <p>For any query related to this tender please contact - Manager</p> <p>NTPC Limited, Western Region-II Head Quarter, Plot No. 87, Sector-24, Atal Nagar, Nava Raipur, Chhattisgarh-492018</p> <p>07-03-2022</p> <p>NTPC Ltd.</p> <p>NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi – 110003</p> <p>91 11 24360100, 24387000, 24387001</p> <p>91 11 24361018</p>
India				
<p>Tender Name</p> <p>Country</p> <p>Bid Bond</p> <p>Description</p>	<p>400kV GIS Substation Package SS02</p> <p>India</p> <p>-NA-</p> <p>Tenders have been issued by Power Grid Corpora-</p>	<p>Tender Name</p> <p>Country</p> <p>Bid Bond</p>	<p>Procurement of Spares for Turbine</p> <p>India</p> <p>-NA-</p>	

Closing Date Contact Detail Address Phone Fax Email	<p>Complete bid documents can be obtained on payment of KD 3500 from CTC. 08-03-2022</p> <p>Central Tenders Committee of Kuwait PO Box 1070, Safat 13011.</p> <p>965 2401200 965 2416574 info@ctc.gov.kw</p>	Closing Date Contact Detail Address Phone Fax Email	<p>years shall be carried out. All needed dispatch scenarios shall be verified by PSS/E studies.</p> <ul style="list-style-type: none"> - Evaluate and define additional opportunities and potential applications for PLEXOS that can improve/provide further optimization for Generation and Desalination. - Training of KM staff. <p>Complete tender documents can be obtained on payment of QR 900 from Kahramaa Website (www.km.qa). 06-03-2022</p> <p>Kahramaa 7th Floor, KM Main Building 41 Doha, State of Qatar. 974-44845555 974-44845496 contactus@km.com.qa</p>
Qatar		Tender Name Country Bid Bond Description Closing Date Contact Detail Address Phone Fax Email	<p>Tenders have been issued by Qatar General Electricity & Water Corporation "KAHRAMAA" for operation and maintenance of diesel generators. Complete tender documents can be obtained on payment of QR 4000 from Kahramaa Website (www.km.qa). 03-03-2022</p> <p>Kahramaa 7th Floor, KM Main Building 41 Doha, State of Qatar. 974-44845555 974-44845496 contactus@km.com.qa</p> <p>Turbomachinery Oil Conditioning Services Qatar QR 150,000 Tenders have been issued by QatarEnergy (QP) for Turbomachinery Oil Conditioning Services at Mesaieed Operations. QatarEnergy requires the services of a capable and experienced contractor to periodically clean turbomachinery oil systems whenever oil cleanliness is found to be out of the specifications and restore oil which ensures reliable operation of turbomachinery equipment installed in various facilities under Mesaieed Operations. The Services are required on a call-off basis for a duration of five (5) years. Suppliers and Contractors who are already registered with QatarEnergy via e-Registration system and are in possession of a valid SAP ID issued by QatarEnergy can buy Tender Online and download Tender Document from QatarEnergy's website. QatarEnergy has discontinued the method of payment of Tender Fee by cash at QNB and manual issue/collection of Tender Documents against Open/Public Tenders. Complete tender documents can be obtained on payment of QR 200 from QP Qatar. 07-03-2022</p> <p>QatarEnergy PO Box 3212, Doha, Qatar 974 4440 2000 974 4483 1125</p>
Tender Name Country Bid Bond Description	<p>Consultancy for Energy Mix Policy Qatar QR 140,000 Tenders have been issued by Qatar General Electricity & Water Corporation "KAHRAMAA" for the Consultancy for Energy Mix Policy and the Automation of Additional Capacity Planning & Dispatch.</p> <ul style="list-style-type: none"> - Develop PLEXOS database and modelling to enable the preparation of long term (LT) and short term (ST) Unit commitment and dispatch schedules using PLEXOS, with best economic optimization to meet the KM system power and water demand. - Develop / Update KM's long-term demand forecast, and support KM in preparing a long-term forecast for study horizon based on scenario planning. - Preparation of electricity and water capacity expansion plan and Energy Mix Policy for power and water for next 30 years using PLEXOS software. The consultant shall propose and agree with KM suitable generation candidates taking into account latest industry development and trends. - Preparation of Short-term dispatch, Unit Commitment (UC) and economic dispatch schedules for 1 day ahead and up-to one week ahead. - Preparation of short-term dispatch for the next 5 	Closing Date Contact Detail Address Phone Fax	Saudi Arabia
Tender Name Country	<p>Restoration of the Water Treatment Plant Saudi Arabia</p>	Tender Name Country	<p>Restoration of the Water Treatment Plant Saudi Arabia</p>

Bid Bond Description Closing Date Contact Detail Address Phone Fax Email	-NA- Tenders have been issued by Saline Water Conversion Corporation for project of improving the water, sewage and irrigation networks and the restoration of the treatment plant in Al-Haditha Port. Complete bid documents can be obtained from SWCC. 07-03-2022 Saline Water Conversion Corporation (SWCC) Makkah Road, PO Box 85369, Riyadh 11432 (9661) 4630503/ 4634546/ 4631111 (9661) 4643235/ 4641111 info@swcc.gov.sa	Bid Bond Description Closing Date Contact Detail Address Phone Fax Email	5 percent of tender price Bids have been invited by Dubai Electricity & Water Authority (DEWA) for the Supply of Materials for Transmission and Distribution Pipelines Maintenance – Water. Tender details can be obtained on payment of Dh 1050 from DEWA. 02-03-2022 Dubai Electricity & Water Authority Office of the Contracts Manager, Zabeel East, PO Box 564 Dubai, UAE +9714 3244444 +9714 3248111 contracts@dewa.gov.ae
Tender Name Country Bid Bond Description Closing Date Contact Detail Address Phone Fax Email	Providing Advisory Support for Surveying Saudi Arabia -NA- Tenders have been issued by Saline Water Conversion Corporation for providing advisory support for surveying for all regions of the Kingdom. Complete bid documents can be obtained from SWCC. 14-03-2022 Saline Water Conversion Corporation (SWCC) Makkah Road, PO Box 85369, Riyadh 11432 (9661) 4630503/ 4634546/ 4631111 (9661) 4643235/ 4641111 info@swcc.gov.sa	Tender Name Country Bid Bond Description Closing Date Contact Detail Address Phone Fax Email	Supply of Pulse Type Self-Cleaning Inlet Air Filters U.A.E. 5 percent of tender price Bids have been invited by Dubai Electricity & Water Authority (DEWA) for the Supply of Pulse Type Self-Cleaning Inlet Air Filters for 9E Gas Turbine at 'E' Station, Jebel Ali. Tender details can be obtained on payment of Dh 210 from DEWA. 03-03-2022 Dubai Electricity & Water Authority Office of the Contracts Manager, Zabeel East, PO Box 564 Dubai, UAE +9714 3244444 +9714 3248111 contracts@dewa.gov.ae
Tender Name Country Bid Bond Description Closing Date Contact Detail Address Phone Fax Email	Development and Rehabilitation of an Upper Tank Saudi Arabia -NA- Tenders have been issued by Saline Water Conversion Corporation for Development and Rehabilitation of an Upper Tank at the Main Desalination Plant in King Fahd Military City. Complete bid documents can be obtained from SWCC. 17-03-2022 Saline Water Conversion Corporation (SWCC) Makkah Road, PO Box 85369, Riyadh 11432 (9661) 4630503/ 4634546/ 4631111 (9661) 4643235/ 4641111 info@swcc.gov.sa	Tender Name Country Bid Bond Description Closing Date Contact Detail Address Phone Fax Email	Construction of 33/11KV Substation and Associated Facilities U.A.E. 5 percent of tender price Bids have been invited by Dubai Electricity & Water Authority (DEWA) for the Construction of 33/11KV Substation and Associated Facilities at Lesaily on Plot No. 9310432. Tender details can be obtained on payment of Dh 630 from DEWA. 09-03-2022 Dubai Electricity & Water Authority Office of the Contracts Manager, Zabeel East, PO Box 564 Dubai, UAE +9714 3244444 +9714 3248111 contracts@dewa.gov.ae
UAE			
Tender Name Country Bid Bond	Supply of Materials for Transmission and Distribution Pipelines Maintenance U.A.E.	Phone Fax Email	+9714 3244444 +9714 3248111 contracts@dewa.gov.ae