

TEI ENERGY Outlook

FEBRUARY 2015, VOLUME - 2, EDITION - 2

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EMPOWER



EVOLVE

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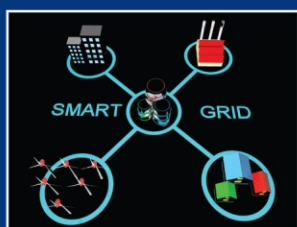
Smart Cities India 2015

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Some elements identified for Smart Cities:

- India's installed electricity generation capacity at 250 GW, is the world's fifth-largest
- India operates the 3rd largest transmission and distribution electricity network in the world
- The evolution towards smart grid will address electricity related issues and transform the existing network into a more efficient, safe and reliable grid to provide electricity access to all
- It is estimated that India will install 130 million smart meters by 2021
- The Ministry of New and Renewable Energy (MNRE) has a target to achieve an installed capacity of 41.40 GW by 2017, which is a US\$10.51 billion opportunity

843 million

people will be living in Indian cities by 2050

100 new cities

will be developed by Government of India, with plans to transform satellite towns and existing cities

USD 1.2 billion

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EverGREEN Future



Developments on making available 'alternative energy forms' emphasizing 'sustainability' have gained much needed momentum in the developed as well as developing countries.

Unprecedented advancement in the field of 'Green Energy' is being made that would make the generation and consumption possible without any significant negative impact to the

environment.

National energy policies are increasingly being devised with goal to support investor confidence in renewable energies and considerable progress is being made in the energy transition from fossil fuels to ecologically sustainable systems.

In 2013, renewable energy contributed 22% of electricity generation worldwide and accounted for more than 56% of net additions to global power capacity. Initiatives have been taken in several countries to set up Renewable Energy Regulatory Authority and Supervisory Body to oversee the green energy sector.

To strengthen energy security and create clean energy economy, many public-private collaborative efforts have been taken by the U.S. Department of Energy.

Backed by UK government, the Green Deal and ECO (Energy Saving Obligation) is a unique effort to realize the energy-saving improvements at a micro level. It is primarily concerned with buildings' energy efficiency and reducing carbon emissions.

The Indian Ministry is also promoting access to clean energy in association with UNDP, World Bank and U.S.

In this edition of TEI-Energy Outlook, 'Green Energy Development' is the subject of discussion yet again.

Progress in renewable energy map from 2005 to 2014 with new developments up in Spain and China has been presented here. The Russian government efforts on clean energy and Germany's CO2 reductions plan have been summarized.

The total investment in renewable technology across the world grows to more than USD 214 billion in 2013. We present here a brief on state-of-the-art green technologies which is all too necessary in making the scene, better and greener!!

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Bahrain Cabinet Decides to Raise Industrial Gas Price



Source: The Guardian

As global oil prices fail to make a comeback, Middle East countries are reeling under their no-compromise production margins. The latest blow came from Bahrain, where the administrative Cabinet recently decided to offer natural gas at higher rates to industries. According to officials, the step came under heavy pressure of state finance deficits and is aimed to accumulate investments for the ailing states.

The size of increases was not made clear though the policy was certified to be implemented from April 1st. In lieu of that, costs of industrial energy productions are also predicted to rise in Bahrain.

The cabinet “stressed that the readjusted natural gas prices for power generation will not affect citizens nor will it have an impact on Bahrain’s competitiveness or its ability to lure investors in the industrial sector”, said Bahrain’s official news agency.

National companies hugely benefit from the state subsidies in natural gas. Last year only, Aluminium Bahrain showed an annual savings of 610 million dinars (US \$1.62 billion). In total, 35 such companies currently benefit from the ongoing subsidies scheme which translates to a lot of revenue losses for the Bahrain government.

And the country also has a weak state finance structure compared to other Gulf strongholds, which makes them vulnerable to the excessive price drops. Last September, when Brent Crude Index had dipped to \$97 per barrel, estimates suggested a state budget deficit of 5.7% for Bahrain’s 2015 GDP. Now, with the erstwhile Index dropping to \$49, deeper budget cuts seem imminent.

A similar attempt was taken in December, 2013 when National Oil and Gas Authority tried to raise domestic selling price of diesel. It was greeted with much flak from other parliament members, and was scrapped later on.

Iraq Produces 4 Mbpd Oil, Makes Record

Iraq Oil Minister Mr. Adel Abdel Mehdi recently announced that Iraq has broken all previous records to reach production capacity of 4 million barrels per day (Mbpd) in December, 2014. According to officials in Iraq’s State Oil Marketing Organisation, the previous record for monthly production was of 3.56 Mbpd and dates back to far 1979.

An elated Mr. Mehdi recently opened the fact in a press conference, which was also being attended by Turkish Energy Minister Mr. Taner Yildiz. “It is the first time Iraq has achieved this,” he said to the press.

In the event, he also revealed plans for exporting about 375,000 bpd of oil from Kirkuk and Kurdistan in the North till April, 2015. The fields there, according to him, will reach a capacity of 600,000 bpd by then and the level of exports for the first three months was discussed in the meeting with the Turkish Energy Minister.

“We have agreed to keep the level of exports at 375,000 bpd for the first three months of the year, and as of April, we will increase exports to 600,000 bpd,” Abdel Mehdi said.

After years of bickering over oil rights, Iraq and Turkey have sit together in December to strike an interim deal to schedule an arrangement of exports. The strategic

advantage of exporting oil to Turkey via north Iraq is the pipelines network existent between Ceyhan port in Turkey and Kurdistan in Iraq.

By the deal, Kirkuk will ship 300,000 bpd of oil while Kurdistan will send 250,000.

Terrorism insurgency of the Islamic State radicals has prompted the quick alliance between two otherwise enemies -



Iraq Oil Minister Adel Abdel Mehdi

Tebodin Wins Gas Lift Network in Abu Dhabi

Galfar Engineering & Contracting of Oman has awarded a detailed engineering contract to Tebodin of Netherlands to expand Abu Dhabi's gas lift network.

Galfar is the engineering, procurement and construction (EPC) contractor on the project for operator Abu Dhabi Company for Onshore Oil Operations (Adco).

The existing network includes 10 gas lift oil wells and one water alternating gas well.

The contract scope includes:

1. Extension to the existing network to provide the gas required for artificial lifting to an additional 30 oil producer wells.
2. Replace oil side wellhead piping with new ones for 30 wells.
3. Solar power system and chemical injection skid for each of the 30 gas lift wellheads.
4. Additional water disposal pump with capacity of 8,000 cubic metres an hour (cm/h) at Bu Hasa central degassing station.



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OOCEP Opens Abu Tabul Block-60 for Tight Gas Exports

At a ceremony held recently at Oman's Abu Tabul oil field, host Oman Oil Company Exploration and Production (OOCEP) announced the commencement of tight gas and condensates export from the field's block-60. The field recently commenced production with a feed of 27 million standard cubic feet per day (mmscfd) of tight gas and 2,500 barrels per day condensates.

The announcement was made in front of the Advisor to His Majesty the Sultan, Mr. H. H. Sayyid Shihab bin Tariq al-Said and other dignitaries.

The Block 60 in the Abu Tabul oil field is a 1,500 square kilometer concession which encompasses the Ibri and Haima wilayat. The block is fully owned by OOCEP from December, 2010.

Commercial gas exports from block-60 follows from the set-up of the gas processing

plant during September, 2014 and is being currently used for processing of the tight gas in the foresaid block. This is the first time in the country's recent history that unconventional gas has been allowed to be processed and exported under the central gas system.

CEO of OOCEP, Mr. Salim al-Sibani said that the facility's current feeding capacity will be gradually raised from 27 to 70 mmscfd of tight gas and from 2500 to 6000 barrels of condensates per day. The intended increase has been estimated for this year-end.

He said, "It is worth mentioning that project investment amounted to US\$1.3bn by the end of 2014. Development will continue as per the first plan for the project, to reach about US\$2.5bn."

"The project embodies the cohesion of the tremendous efforts of all parties, whether government or private, to find best ways to

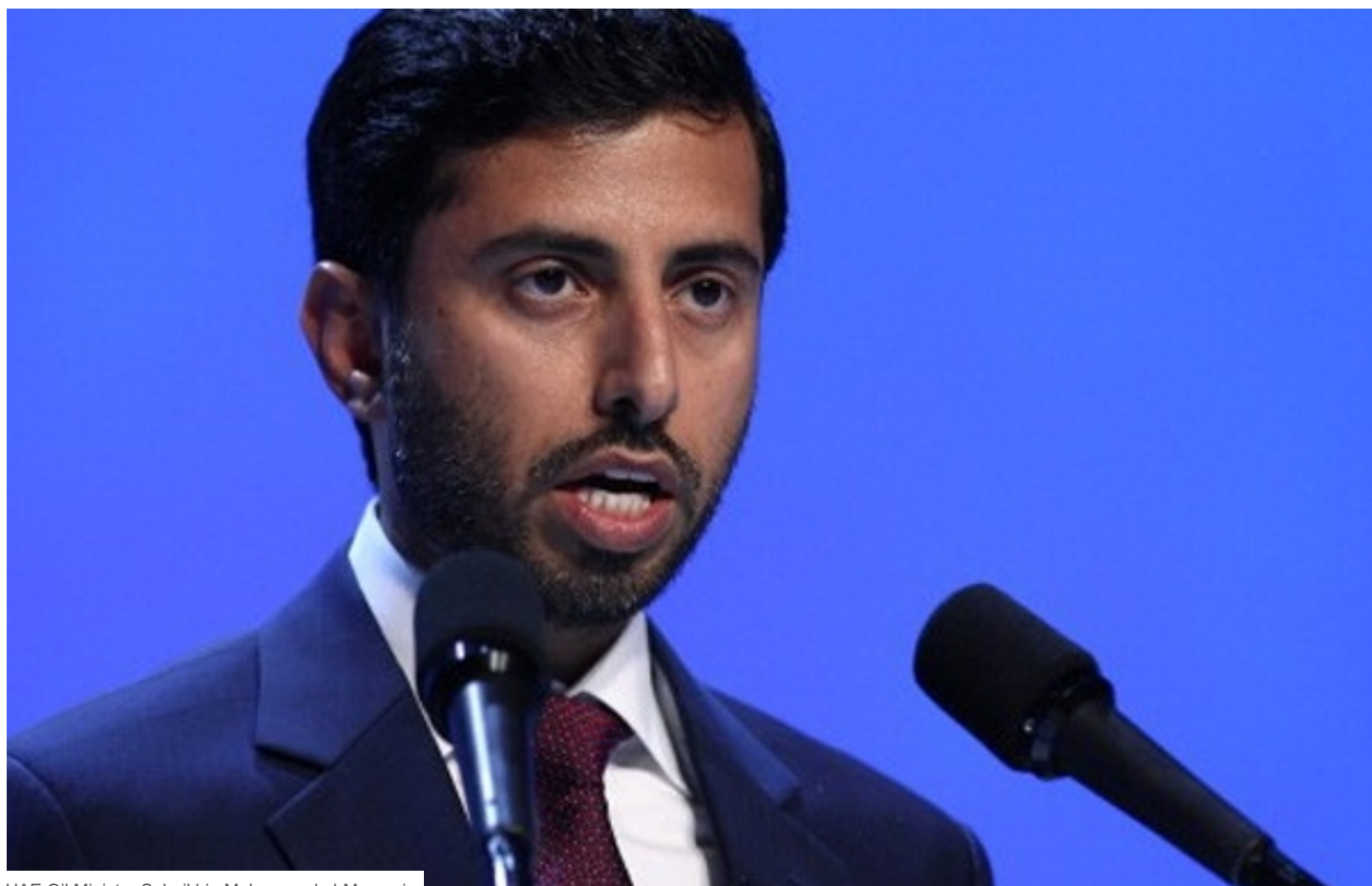


Abu Tabul Tight Gas Project during Construction

meet the future challenges, where the sultanate is considered one of the first countries in the region to extract non-conventional gas from deep reservoirs. The project was completed in a record time [of three years] and so it's considered a record at this stage."

The project director for the production and export venture, Mr. Suleiman al-Zakwani said, "The real value of this achievement is the success of establishing local expertise that can compete in this industry and the establishment of lots of procedures, standards and policies that provide foundations for the execution of future projects."

UAE Oil Minister Tells Non-OPECs to “Act Rationally”



UAE Oil Minister Suhail bin Mohammed al-Mazrouie

In a prompt reply to non-OPEC members' appeal to decrease Middle East oil supplies, UAE Oil Minister Suhail bin Mohammed al-Mazrouie commented that it is the non-OPEC producers who should “act rationally”.

His suggestions echoed recent comments by Gulf member nations who have repeatedly blamed the unplanned output increases by non-OPEC members for the current oil price fall.

According to the Oil Minister, the oversupply creating the price drop may stay there for months, even years. Yet, crude prices could be recovered if only non-OPEC countries discontinue their production increases.

“We are experiencing an obvious oversupply in the market that needs time to be absorbed.

“Depending on the actual production growth from non-OPEC countries, this problem could take months or years. If they act rationally, we can see positive corrections during 2015”, he said.

Mr. al-Mazrouie stayed resolute by his country's commitments to increase their output capacity to 3.5 million barrels per day by 2017, and also said that the country will not be scared by crude price falls. He believes that the crude market will stabilize on its own.

FEED Awarded for Oman Crude Oil Park

The Oman Tank Terminal Company (OTTCO) has awarded a contract to carry out the front-end engineering design (FEED) to Amec Foster Wheeler of UK for its Ras Markaz Crude Oil Park Project near Duqm on Oman's Wusta coast,

OTTCO is a joint investment of Oman Oil Company (90 per cent) and its downstream investment subsidiary, Takamol Investment Company (10 per cent). It is established to build, own and operate a global scale crude oil terminal.

The project scope involves construction of one of the world's largest crude oil storage terminals. At full build-out, the giant facility will be designed to hold around 200 million barrels of crude oil. The facility will also serve as an alternative to crude export terminal at Mina al Fahal in Muscat.

The project phase I will have a capacity of around 25 million barrels, which is slated to come on stream by the end of 2018.

The contract award marks a key step in the Omani government's efforts to establish one of the world's largest crude oil storage terminals on its shores. Amec Foster Wheeler Group President for Asia, Middle East, Africa & Southern Europe, Roberto Penno, said “We have an excellent and long-

Saudi Arab Plans Unique Large-Scale Solar De-Sal Plant

Saudi Arabia's Advanced Water Technology (AWT) is joining hands with Spain's Abengoa to create a 60,000 cubic metres per day capacity desalination plant in the kingdom, run completely on solar power.

The project is unique for its sheer size and the facility will be the very first of its kind to be set up in the whole world. Company statements read that the plant will supply water to Al-Khafji city in North-Eastern Saudi Arabia throughout the year.

Commercial arm of the King Abdulaziz City Science and Technology (KACST), the Taqnia owned AWT is a newly formed company resolute to find inexpensive water solution through technology and sustainability.

The \$130 million project is going to incorporate a photovoltaic plant to power the desalination process, and in turn, reducing operational costs by a huge margin. The project is also going to include power

consumption optimization systems and a specific pre-treatment phase to remove added saline, oil and fats from local waters, said the project's Spanish partner Abengoa.

Abengoa also committed towards added "sustainable and reliable" water supplies to the Saudi socio-economy, which is being highly benefited by the AWT project.

The latest contract with AWT will place Abengoa as the world's leading water sector company with 1,500,000 cubic metres per day desalination capacity around the world. It is also going to strengthen its ties in the Middle East, said one company statement.

For AWT, this is the company's first upstream venture and its big entry ticket into the water desalination business. Downstream projects like water recycle and water management are also in the cards.



Source: futureviro.com

2014 Was Indian Oil Industry's New Beginning: Experts

The long-awaited pricing formula finally being applied for domestic gas production, a complete de-regularization of the national diesel market and a steep plunge in global crude prices – all the cogs fitted well into the Indian oil and gas machinery in 2014.

Experts believe that times couldn't have been better for a gigantic leap for the Indian economy, riding on its main energy driver – oil.

A fresh government keen on reforming the old infrastructure of the ailing industry also helped in the cause. In just few months, the Narendra Modi government has systematically laid a wide line of new projects for the upcoming years as well as clearing backlogs for old ones that have been rotting in the pipeline for decades.

Though the outlook for 2015 looks promising, but industry watchers have gone the way of cautious observation rather than exhilarating optimism.

An industry analyst was quoted, "The rating outlook for Indian oil and gas entities remains stable in 2015. The benefits from oil price reforms and lower global oil prices for refining and marketing companies will be offset by their large capex needs in the

medium term that will lead to negative free cash flows."

The previous government had faced heavy slack for increasing oil prices by Rs. 0.50 per litre due to their January, 2013 decision of cutting subsidies to ease fiscal deficit pressures. Their first attempts in de-regularizing the diesel market finally bore fruit in October, 2014 when the companies were able to make profit of over Rs. 3 per litre diesel. The situation was stable enough that the government could take a portion of the profits to bail out under-performing states. The petrol market had been de-regularized long back in June, 2010.

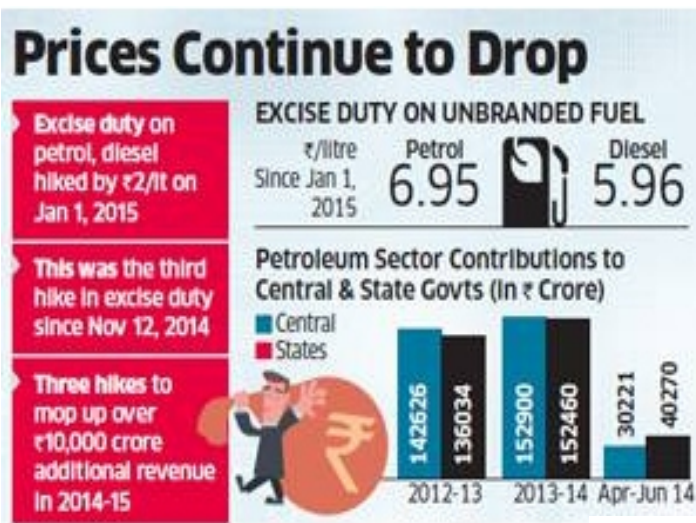
Oil and Natural Gas Commission's overseas arm (OVL) also made headway in 2014. India's energy security venture, courtesy of the current Prime Minister's vehement efforts in foreign countries, was able to secure blocks in New Zealand, Myanmar, Bangladesh and Brazil through OVL. South Africa, Vietnam, Mozambique and Turkey also signed pacts for joint oil and gas ventures in the future.

Overall, the signs of optimism rang throughout the petroleum and power ministries in India and for at least the ongoing year, India will bear the fruits of 2014 till the global impact of falling oil prices subsidize.



PM Narendra Modi recently celebrated his 64th birthday

Crude Oil Tumbles to \$45 per Barrel



The crude oil price tumble that started in June, 2014 is still continuing in the New Year. Currently, the price index has slipped below \$45 per barrel, supported by an oversupplied crude market.

The concerning price drop, on the contrary, can bring smiles to the current Bharatiya Janata Party (BJP) cabinet members as they go for their most important Delhi Assembly Election this February 7th. The fuel price cut is being welcomed by the government, but the state-run oil companies are feeling reluctant to reduce oil pump prices due to inventory losses from crude oil imported at global rates.

In the same line, the largest state-owned refiner IOC has lost about Rs. 12,000 crore, said industry and government officials. Indian refiners process the purchased crude only after 30-40 days of storage. Due to the current downward spiral, the price can fall about 20% within

the same waiting period, which is resulting in heavy losses for the Indian oil and gas industry.

After much deliberation, the government decided to fulfill retailers' inventory losses by increasing the excise duty on petrol and diesel by Rs. 2 a litre from January 1st. Since November last year, this was the third time that the government had to balance the eroding margins.

The populist sentiment also counted. "Companies would not be able to raise prices of petrol and diesel when crude oil prices move up unless they pass on the benefits of falling crude prices to consumers," said a government source.

The minor appreciation of the rupee against dollar from 63.45 per dollar to 62.16 per dollar in January also demands some depreciation in oil prices. "Rupee has gradually appreciated for crude importers from 63.45 per dollar on January 7 to 62.16, which reduces pressure on domestic retail prices," said an anonymous source inside Petroleum Planning and Analysis Cell. The Exchange Rate also counts as India pays for about 80% of its oil needs via imports i.e. dollars.

The Brent Crude Index dipped from \$115 in June to \$46 in January, and the worse is yet to come.

Analysts in Goldman Sachs have informed that the prices are to fall further since major crude producers in the Middle East are not reducing their output margins due to fear of losing market shares.

Industry experts signified the period before the assembly elections as most important to make the petrol and diesel price cut for state-run oil companies.



Government Selling IOC Stake This Fiscal

By end of the current fiscal year ending in March, 2015, the Indian Government is planning to sell 10% of its stake in the country's state-owned refiner – Indian Oil Corporation (IOC). The transaction is to fetch the cash-strapped government an amount of Rs. 8,000 crore.

The Finance Ministry's Department of

Disinvestment has already notified the Cabinet Committee on Economic Affairs about the 10% stake sale which is equivalent to 24.27 crore shares, which will be executed through the route of 'offer for sale'.

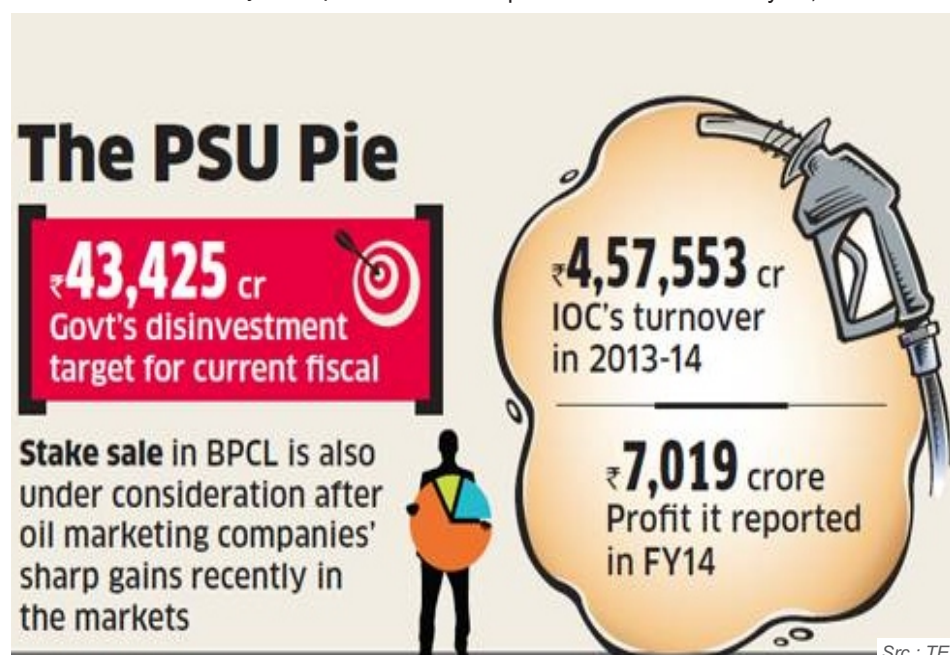
If other big-ticket issues like ONGC and Coal India back out, then only the sale will take place in the current fiscal year, said a senior

government official. "We have the approvals. The timeline will be decided depending on the market situation," he said.

About a year back, a similar situation was raised, when state-run oil firms OIL and ONGC each acquired 5% stake in IOC through off-market settlements, and the effort fetched Rs. 5,340 crore for the government. This time the task is being floated through a cabinet note, stating the sale of 10% stake in IOC.

The upcoming sale, worth Rs. 8,000 crore, is a strong step in fulfilling the government's ambitious 43,425 crore disinvestment target this year.

Though industry sources have revealed that the recent share market slide where share prices of public sectors giants like CIL and ONGC plummeted, has forced the government to be cautious in selling their stakes in such companies at the right time. ONGC and CIL are still rummaging over their losses after dropping 28% and 14% respectively, for diversely separate reasons.



Imported Gas-Based Power Projects to Receive Tax Relief

The Indian power and petroleum ministries have come together to prepare a joint cabinet note to provide taxation reliefs to several stranded gas-based power projects, a total worth of Rs. 65,000 crore. Taxes based on imported gas and pipeline tariffs featured top in the ease lending priority list.

In a lacking domestic gas production environment, high taxes on imported fuel is becoming a burden for power producers across the country. Pooling domestic gas with imported gas and selling to power plants at reasonable rates seem to be a probable solution. That is where the tax breaks will be used to lower the rates of pooled gas, which will contain a high percentage of the imported variety.

“Since the ratio of costly imported gas in the pooled gas will be high with limited domestic gas, the cost of generation will be high compared with the APM (administered pricing mechanism). For competitive

scheduling of gas-based power, it is (however) important that the delivered cost of power is around Rs 5.0 to 5.50 per unit,” said the power ministry recently in a presentation on gas pooling.

Waiver on customs duty, VAT, central sales tax and state entry tax are the options for imported gas that will be mentioned in the cabinet note. Scrapping the service tax for imported LNG regasification in cases where it is pooled with domestic gas is also under consideration. GAIL India, one of the largest state-owned gas subsidiaries will also be proposed to reduce pipeline tariffs and regasification charges by 50%, as per the note.

RBI is to be instructed to launch a special dispensation for classifying loans given for gas-based power projects from under “standard restructured asset” to “standard asset”. The provisioning requirement of standard assets is ½% of the loan amount compared to the 5% charged for

restructured assets. Government officials commented that they don’t want to pressurize the burdened gas-fired plants by anything beyond Rs. 5-5.50 per unit of electricity generated, especially when Rs. 64,000 crore worth of electricity projects are still in pipeline phase.

The power ministry has also emphasized the need for lowering VAT on imported gas to the finance ministry. “There are a number of interventions required to make this work and to save investments worth around Rs 64,000 crore, which could otherwise turn into bad loans for banks. However, the key to it all is a tax waiver”, said government sources.

The average cost for obtaining gas-powered electricity in India currently turns out to be Rs. 3.5-5.00 per unit while the same electricity will cost about Rs. 7.00-10.00 per unit if taken through a pooled resource without implementing any countermeasures to reduce gas prices.

IOC Tamil Nadu LNG Plant Still to Begin Work

The Rs. 5,150 crore liquefied natural gas (LNG) import terminal built by Indian Oil Corporation (IOC) near Ennore, Tamil Nadu is still to commence work, said IOC officials during one of their stock exchange filings.

“The cost of the project is estimated at Rs 5150 crore. The project would be implemented through a joint venture company and not directly by Indian Oil,” they had said in last October as the Board of Directors of IOC approved the set-up of a 5 million ton LNG project.

Tamil Nadu Government enterprise would hold 5% of stakes in the project, while IOC would hold majority with 45% stake. The rest 50% was supposed to be shared amongst different financial institutions. “The joint venture company will be initially incorporated with a seed capital of Rs 1 lakh... of which

IOC’s investment would only be Rs 45,000 at present,” said the state-owned company’s statement.

As the project would advance, the plan was to induct the strategic partners as equity partners. In its latest reports, IOC has concluded that the advancement has not gone according to plan. “The project related activities are yet to commence,” said IOC officials.

Apart from IOC’s Ennore facility, two others facilities are coming up in the east coast - one in Kakinada and the other in Gangavaram (both in Andhra Pradesh) by GAIL India Ltd. and Petronet LNG Ltd. respectively.

For IOC’s LNG terminal, a 1,175 km pipeline from Ennore to transport gas to customers is also on the drawing board. The pipeline, from Ennore to Nagapattinam, Tamil Nadu

(branching also to Madurai, Tuticorin, Bengaluru), is currently pending Petroleum & Natural Gas Regulatory Board (PNGRB) approvals. IOC is declining any comment on project completion dates for now.



Src : economicstimes

India Waiting for PM New Year Resolve

TEC China's bulging two-digit economic growth for the last decade has come to a stall, and the nation has settled into a more comfortable and moderate number of 7%. As the country delves into sustainability mode, it will be further impossible for the mainland to suddenly pull their vast economy into a humungous growth momentum.

So, with the major competitor out of the league, contest for the wealthiest growing market is open to all. Even Sri Lanka is predicted to grow at a faster rate than China's current growth. Vietnam, Philippines and Bangladesh might be a long shot away from the mark, but prosperous India is ideally placed for the challenge.

India's current market may be one fourth the size of its extravagant Chinese counterpart, but it is also not to be forgotten that China's growth impetus came from the early eighties, while India adhered to its current growth trajectory only in the late nineties. The late starter India is picking up fast, and the promise of a new government is also not going to vain.

By estimates, the year 2015 will ride on earlier fuel price drops in global markets, and China and India are both going to reap its advantages. But to match China's marks, India will need to concentrate on raising its savings and shift more towards manufacturing. The plus with India is that the country has already been performing well in both banking and energies sectors, and is also predicted to continue its expansion in the sectors this year.

Reserve Bank of India's (RBI) 'Governor of the Year' award winner Mr. Raghuram Rajan recently cut the repo rates by 25 basis points (1 basis point equals 0.01%) to 7.75%, which translates to the fact that the central bank is finally allocating additional focus to industry, apart from structuring inflation oriented economic policies.

In the energy sector, a new fuel pricing formula and complete de-regulation of the Indian diesel market has set the balls rolling for adding extra infrastructure to oil and gas as well as the power industry. PM Narendra Modi's 'Rainbow Vision' is already changing the global market's outlook towards India's renewables appetite.



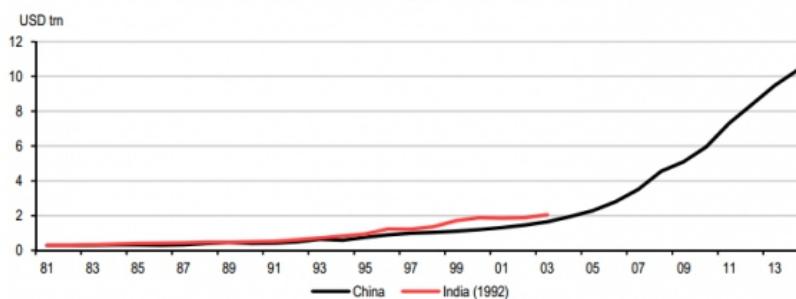
Indian Foreign Minister Sushma Swaraj meeting her Japanese counterpart Fumio Kishida

The PM's new 'Make in India' campaign is also getting a head start. The Japanese Prime Minister, Shinzō Abe was latest to respond to his Indian counterpart's call. Through the Japan International Co-operation Agency (JICA), the country will contribute heartily towards India's manufacturing and infrastructure sectors.

Recently, Indian Foreign Minister Sushma Swaraj met her Japanese counterpart Fumio Kishida to welcome their government's move to allow 15% more Japanese companies to invest in different Indian projects. The deal had been in pipeline for many years. A bilateral civil nuclear co-operations pact was also discussed in their 4-hour long meeting.

PM Narendra Modi's claim for India becoming the "the most promising destination" for investments is only to count as the year progresses.

China's GDP is four times larger than India's GDP, but the trajectory so far is not all that different



Source: IMF, HSBC

Oil and Gas Exploration Will Thrive in 2015

Despite its maligned performance in late 2014 period, low oil prices will not withhold oil and gas exploration activities for much longer. Upstream sectors of oil and gas industries around the world are expected to retain its high drilling stats with overall 115,000 wells being projected to be drilled by 2018.

In spite of being restrained by sharp declines in oil prices throughout late 2014, the continuing global economic growth and regularly updated technology will support the investment stats in oil and gas exploration projects. Natural gas markets, though in their adolescence, look the most potent in this regard.

Analyst Mr. Jason Carnovale said, "The average number of active drilling rigs worldwide will rise modestly through 2018, trailing growth in the number of wells drilled annually as improving technology results in increasing rig efficiency." Though, the rise of horizontal drilling and allied technologies to dig longer well laterals will disrupt these stats to some extent.

Currently, in the world of alternative energy market, North America seems to be the sole competitor in shale, coal-bed methane and tight gas. But potential resources exist abundantly outside the American boundaries. Large scale alternatives reserves have been found in Argentina, Australia and China, which can contribute significant amounts in the world energy pot in the foreseeable future.

Upstream activities, till 2018, will mainly concentrate on US and Canada, which still

jointly hold the largest amounts of upstream industries in the world. Asia and Middle East will follow suit. With favourable resources and investment capitals, they will also contribute significantly in the sector.

In a recently released survey for the upstream industry, it was said that "drilling activity in Europe will moderate, as Russia's upstream industry is hampered by economic sanctions targeting the country's oil and gas industry, and the mature and declining

nature of the North Sea limits both the availability and profitability of new field development opportunities there. Similarly, a combination of above- and below-ground factors will hold back overall growth in Central and South America, despite some opportunities in Argentina and Colombia. Upstream activity in Brazil, for example, will be restrained by the level of indebtedness of the country's national oil company and the expense of developing deepwater offshore, pre-salt fields."



BP Central North Sea Field Operational

British Petroleum's (BP) seventh and final upstream project in 2014, along with Kinnoull Field co-venturers, is finally to begin production, said a BP company statement.

The Kinnoull Reservoir, part of Andrew Field area, has been developed in line with the

rejuvenation project of the entire area. The reservoir is tied back to the Aberdeen's BP Andrew Platform, which is located 230 kilometers off the main city limits in the east. Kinnoull Reservoir extends the production duration of the Field by a decade.

A processing module weighing close to 700

tonnes has been placed on the platform to get access to the reservoir through a bundle of subsea pipelines. The 28-kilometer pipeline system is the one of a kind and the longest in the world. Forties Pipeline System is used to transport oil while CATS Pipeline System is used for transporting natural gas.

In the company statement, Regional President for BP's North Sea businesses, Mr. Trevor Garlick said, "50 years after BP was awarded its first licences in the North Sea, the successful start-up of Kinnoull demonstrates our continued commitment to maximising recovery from the basin. The combination of brownfield and greenfield development work – carrying out material

upgrades, improving the reliability of existing facilities and retrofitting new facilities onto an existing platform – added significantly to the complexity of this project. In successfully delivering it, we have completed one of the most challenging offshore projects BP has undertaken in the North Sea. As we now look to continue our

investments and meet the challenges of a toughening market environment, we also need to continue to improve the efficiency and competitiveness of our North Sea business."

Kinnoull and Andrew's joint production target is estimated to be 50,000 barrels of oil equivalent per day.

World Polymer Catalyst Market Rides on Low-Sulphur-Fuel Demands

Criticized for their high air pollution levels, energy markets of countries like India, China and Russia are looking to reduce micro-particles in the air through isolating sulphur levels in their fuel emissions. This new approach is going to profit the hydro-treating plants around the world in coming years.

The catalysts market will be fuelled by the current industrialization growth in the polymer industries in and around developing and many developed nations. Chemical synthesizers, petroleum refiners, polymerization catalysts and other catalysts are predicted to grow annually by 4.8%, and

to reach \$20.6 billion by 2018.

In their recently furnished report on global catalyst demands, the Freedonia Group has said, "Growth will be led primarily by a rebound in the chemical and polymer industries, most notably in developed economies hit hard by the recession. The fastest advances, however, will be in the developing world, where rising income levels and vehicle ownership rates and rapid industrialization will encourage capacity expansion in all catalyst-consuming markets."

In the same report, demand effects from shifts in feedstock supplying regions were

also highlighted. As chemical and polymer industries start to prosper in the developing countries, demands for higher value chemical synthesizers are bound to increase. Like in China, the coal-to-olefin conversion technology for their thriving coal resources will attract more investments in synthesis gas.

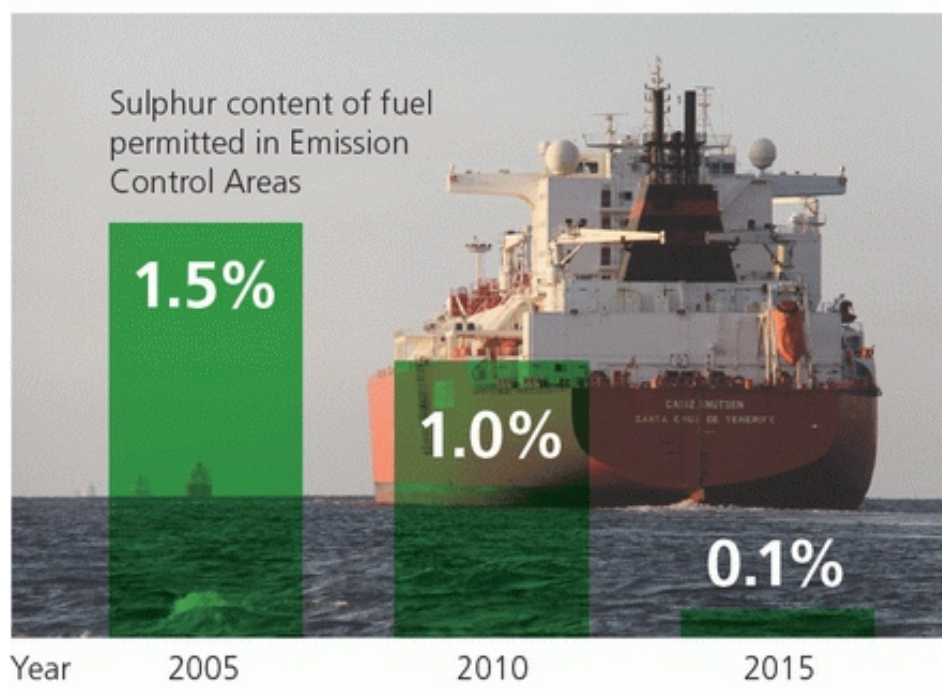
Mr. Ryan Sullivan, analyst, commented on the effects: "The shale gas boom and low natural gas prices in North America will fuel a similar shift in that region." The demand will also be pushed by the rise in global polymer productions. However, the change in raw material and other costs with varying regions will transform the polymer catalyst mix.

In the refining catalyst market though, fuel efficiency, surpassed by stricter environmental regulations is becoming a harder bargain. Combating global warming is limiting the options for petrol catalysts as diesel vehicles are more preferred by environment groups for their fuel efficiency.

Air Pollution is being treated in developing China and India with the lowering of sulphur contents in their fuels. Hydro-treating catalysts are becoming more and more favourite for this cause. But according to experts, this growth in demand for hydro-treaters will also not last. Emerging tight oils in the market like shale gas are already low in sulphur contents.

In the end, the catalyst market will continue to thrive for their choice of flexibility in varying product mixes.

IMO agreement to reduce atmospheric pollution from ships



In the Wrong Bed

TEC From the death of a Paris cartoonist for drawing Mohammed, from ISIS taking over a large portion of Syria, to the belligerent downward streak of the Brent Crude – nothing seemed to fall in place in 2014 for the once kings of oil – Middle East.

The prices of crude fell so much as to half its price the previous year (from over-\$100 to \$50 per barrel in one fiscal). Severe consequences rang throughout the globe. Apart from major Middle East oil producers like Saudi Arabia and Iran – countries like Russia, whose economy depend highly on crude exports, have been hit badly by the unfurling of events.

Now you ask a Saudi prince, he will say that they are “in the same bed with Russia”. But, with virtually unlimited supplies of crude, the Saudis can manage to withstand a longer low price period and still retain their market share. Russia can’t.

Mattress of comparable quality maybe, but surely not the same bed!

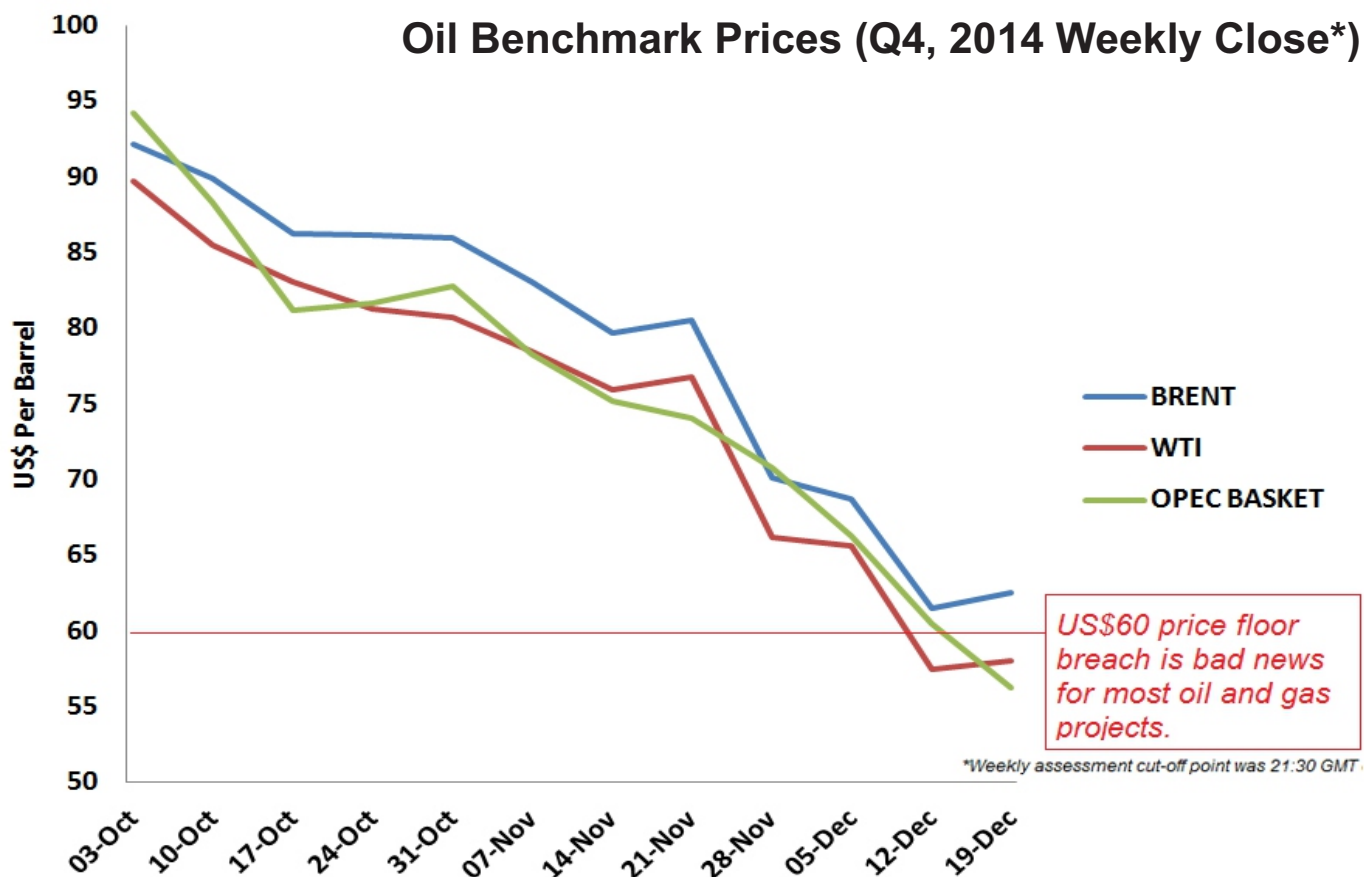
With import markets like America already washing their hands off from their long-term import list, little chance does Russia and other European countries have to gather enough profit from emerging markets of China and India.

For some time now, there is a rumour that the price fall was not destined, but designed. Saudi Arabia and U.S. came behind closed doors to re-create the same horror for Russian folk that they instilled on Ukraine. A more sophisticated eye for an eye, one might presume!

Far from justification, the truth seems to be right the opposite. If the price fall isn’t stalled in recent months, the “miraculous” American dream of a shale exporting nation will be hurt the most. The newly competitive shale gas and tight oil has seen no breaking point till now and America still is gaining high on the price gap between conventional crude and shale’s low production costs.

In the mean time, no country is ready to lessen their crude productions lest they lose their market share. So, no lessening in supplies! On the other side of the table, new alternatives in the market and environmental awareness are bringing demands of conventional crude down. So, with dearth of demands and increasing productions, an early stoppage on the Brent’s falling train is least expected.

And while the European Central Bank (ECB) president Mario Draghi is pushing for extra stimulus packages, the excess inflow of cash will keep this equation same for the upcoming year.



Top 7 Contracts Update

India: Rays Power Selected for Solar Power Plants

Oil & Natural Gas Corporation (ONGC) has awarded Rs.894 crore complete turnkey contract to L&T Hydrocarbon Engineering (LTHE) for additional development of the Vasai East project.

The contract scope involves engineering, procurement, construction and installation of two wellhead platforms, sub-sea pipelines and modification of existing facilities in

Heera-Panna-Bassein block of Mumbai offshore.

The project is part of ONGC's strategy to improve recovery factor of Vasai East field, where production started in 2008, and is scheduled to be completed by April 2016.

The Rs. 2, 500 crore project will realize incremental oil production of 1.83 million tonnes and incremental gas production of 1.971 billion cubic metres by 2030.

Kuwait: Petrofac Wins EPC Contract from KOC

Kuwait Oil Company (KOC) has awarded the engineering, procurement and construction (EPC) contract worth \$4.2bn to Petrofac of UK for its Lower Fars heavy oil development project.

The contract scope covers a steam injection facility, production facilities, a support complex, tank farms and a

270,000 barrel-per-day (bpd) pipeline to transport the heavy crude to the planned new refinery in the south of Kuwait.

The project is a part of the KOC's plan to increase heavy oil production to 60,000 barrels per day (bpd) by 2017 and upto 270,000 bpd by 2030.

Kuwait: Bids Invited for Doha Desalination Plant

The Ministry of Electricity & Water (MEW) of Kuwait has invited bids for the engineering, procurement and construction (EPC) contract to build a new reverse osmosis (RO) desalination plant in the Doha area of Kuwait.

Last date to submit bids is 10 March. The pre-qualified groups selected for the contract are:

Abeinsa Infraestructuras Medio Ambiente of Spain / Gharnata International General Trading & Contracting of Kuwait, Acciona Agua of Spain / Hitachi Zosen Corporation of Japan / Al-Maseelah Trading Company of Kuwait, Cadagua of Spain / Mohammed Abdulmohsen al-Kharafi & Sons of Kuwait, Degremont of France / Hyundai E&C of South Korea, Doosan Heavy Industries & Construction of

South Korea / Al-Omar Trading & Contracting of Kuwait, GS Inima Environment of Spain / KCC Engineering & Contracting of Kuwait / Saudi Abdulaziz al-Rashed & Bros of Kuwait, Hyflux of Singapore / Thuwainy Trading Company of Kuwait, Mitsubishi Heavy Industries of Japan / Toyo Engineering Corporation of Japan / Kharafi National of Kuwait, OTV France / Alghanim International General Trading & Contracting of Kuwait.

The contract scope involves building a desalination facility with 50 million imperial gallon per day (MIGD) capacity.

The project is part of Kuwait's efforts to expand its desalination capacity to cope with increasing demand from rapid population growth.

Oman: OETC Awards Power Transmission Contracts

Oman Electricity Transmission Company (OETC) has awarded the following contracts worth a total of RO87.9mn (\$228mn) for a number of transmission projects across the country:

1. Contract worth RO21.6mn has been awarded to Larsen & Toubro of India to upgrade the 400kV Misfah grid station.
2. Contract worth RO18.8mn has been awarded to the joint venture of the Gulf Jyoti International of UAE and

Jyoti Construction of India to build a 400kV overhead transmission line between the Misfah and Izki grid stations.

3. Contract worth RO18.5mn has been awarded to Galfar Engineering & Construction of Oman to build a new 132/33kV substation at the Sohar Free Zone.

4. Contract worth RO17.5mn has been awarded to Bahwan Engineering Company of Oman to reinforce the current transmission network in Muscat by installing a 132kV linking

system between Al-Falaj, Muttrah and Wadi Kabir grid stations.

5. Contract worth RO10.3mn has been awarded to a deal to a joint venture of Inabensa of Spain and the Sarooj Group of Oman to build a new 132kV grid station and 132kV overhead transmission line at Al-Dreez.

6. Contract worth RO1.1mn has been awarded to EnergoProjekt of Serbia to provide consultancy services for the design and supervision of a 400kV grid station at the Sohar 3 independent power project (IPP) and a 400kV line connection between the Sohar Free Zone to Mahadha.

Qatar: Contract Award Soon for Mega Reservoirs

Qatar General Electricity and Water Authority (Kahramaa) is set to award the construction contracts on its [Water Security Mega Reservoirs project](#), early this year.

The scope of work on the five packages involves construction, testing and commissioning of the reservoirs.

The five sites where the reservoirs will be located are:

Umm Birka, Umm Slal, Al-Thumama, Rawdhat, Rashid, and Abu Nakhla.

Kahramaa intends to create about 2,100 million gallons of storage by 2026. The programme is being undertaken to allow Qatar to store enough water to supply the country for about seven days as opposed to the current storage capacity, which would only last around a day and a half.

Saudi Arabia: GE Wins eVSD Contact for Yanbu 3

A contract to provide the electrical variable speed drive (eVSD) system technology for [Saudi Water Conversion Corporation's \(SWCC\) Yanbu 3 power and desalination plant](#), has been awarded to GE's Power Conversion business.

GE will supply its MV7000 eVSD drive and electric motor equipment. The equipment will be used to power the boiler feed pumps at SWCC's new Yanbu 3 facility.

The scope of supply includes 15 induction motors (17.1 MW each), 15 input transformers (23MVA) and 15 medium Voltage (MV) Variable Frequency Drives (VFD) 18MW each.

The project being built on the Red Sea coast, about 200 kilometers north of Jeddah, will provide 2,700 megawatts (MW) of reliable electricity and 550,000 m³/day of clean water for 8 million residents and businesses in the region.

UAE: Contract Awarded for Masdar Bioenergy Project

The Masdar Institute of Science and Technology (MIST) has awarded a contract to International Mechanical and Electrical Company LLC of Abu Dhabi to build a [bioenergy pilot project at Masdars City](#) on the suburbs of the capital.

The project aims to produce aviation biofuels and food using desert land and saline seawater, unlike traditional bioenergy schemes that use arable land and freshwater.

The project will span two hectares. The system will first pump seawater into aquaculture ponds that grow shrimp and other fish. Fish waste released into the water, which is rich in nutrients, will then be used to fertilize halophytes (plants adapted to growing in salt water). Biomass and oils will then be harvested from these fields.

Initially, the project output will be about two tonnes of oil seed and 18 tonnes of biomass per hectare, which is expected to double in about two to three years.

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Iran Projects

Bahrain | India | Iran | Iraq | Kuwait | Oman | Qatar | Saudi Arabia | UAE

Project	Facility	Status	Budget
SAGE's Middle-East to India Deepwater Pipeline (MEIDP) Project	Water Pipeline	Feasibility Study	Unknown
NIOC's Iran-Pakistan-India (IPI) - Cross Gas Pipeline Project	Gas Pipelines	Ongoing	7,500,000,000
NIGC's Bid Boland II Gas Refinery Project	Gas Processing	Finance Secured	1,500,000,000
IPDC's Damavand Power Plant	Power	Planning	Unknown
IOOC's Kish Gas Field Development Project	Gas Field Development	Ongoing	Unknown
South Pars Gas Field Development Projects - Overview	Oil and Gas Field	Ongoing	9,000,000,000
South Pars Gas Field Development Project - Phase 17 and 18	Oil and Gas Field	Ongoing	Unknown
ICOFC's 13 Oil Field Development Project	Oil Field Development	Planning	2,000,000,000
NPC's Hormyz Petrochemicals Plant	Petrochemical	Planning	800,000,000
GWWC's Anzali Wastewater Treatment Plant	Wastewater Treatment Plant	On Hold	170,000,000
NIORDC's Bandar Abbas Refinery Project - Overview	Refinery	Ongoing	Unknown
IPM's Jask Crude Export Terminal	Offshore Terminals	Planning	Unknown
NIOEC's Abadan New Oil Refinery Development Project	Oil Refinery	Planning	Unknown
PEDC's Southern Azadegan Oilfield Development Project	Oil Field Development	Ongoing	Unknown
PEDEC's Azar Oil Field Development Project	Oil and Gas Field	Ongoing	1,900,000,000
IWPC's Bakhtiari Dam Hydroelectric Power Project	Power	Ongoing	200,000,000
NOECC's Neka-Jask Pipeline Project	Pipeline	Contract Awarded	3,300,000,000
MOE,MOP's Iran - Pakistan Gas Pipeline Project	Gas Pipeline	Finance Secured	1,500,000,000
Iran Oil Minister's Chabahar Mega Petrochemicals and Fertiliser Project	Petrochemical	Ongoing	20,000,000,000
PIDMC's West Ethylene Pipeline Project	Pipeline	Contract Awarded	5,501,000,000
NIGC's Iran-Oman Natural Gas Pipeline Project	Gas	MOU - Memorandum of Understanding	60,000,000,000
Hormozgan RWC's Sarney Dam and Water Supply System Project	Water Pipeline	Contract Awarded	Unknown
South Pars Gas Field Development Project - Phase 11	Oil and Gas Field	Ongoing	Unknown
POGC's Iran - Iraq - Syria (Cross Connection) Friendship Gas Pipeline Project	Gas Pipeline	Planning	Unknown
NIOC's 13 Independent Oilfields Development Project	Oil and Gas Field	Planning	2,000,000,000
DEWA ,TAVANIR's Dubai - Iran (Cross Connection) Power Project	Power	Planning	Unknown
South Pars Gas Field Development Project - Phase 15 and 16	Oil and Gas Field	Ongoing	Unknown
South Pars Gas Field Development Project - Phase 12	Oil and Gas Field	Ongoing	Unknown
IWPCO's Polrud I Run-off-River Power Plant - Phase I	Power & Water	Under Study	87,000,000
IWPCO's Karkheh II Dam and Hydropower Plant - Phase I	Power & Water	Under Study	468,000,000

More...

Saudi Arabia Projects

Bahrain | India | Iran | Iraq | Kuwait | Oman | Qatar | Saudi Arabia | UAE

Project	Facility	Status	Budget
SWCC's Shoaiba 2 Desalination Plant Expansion	Desalination Plant	EPC ITB	Unknown
Saudi Aramco's Shaybah Natural Gas Liquids (NGL) Project	Gas Processing	EPC Contract Award	5,000,000,000
SEC's Jeddah South Power Plant	Power Station	EPC Contract Award	3,500,000,000
SWCC's Riyadh Water Transmission Pipelines Project	Water Pipeline	Main Contract Awarded	400,000,000
SEC's Riyadh Power Plant (PP12) Project	Power Station	Construction	1,250,000,000
Saudi Aramco's Yanbu Export Refinery	Refinery	Commissioning	10,000,000,000
Petrokemya's Jubail Butadiene Extraction Plant	Petrochemical	FEED Awarded	Unknown
SEC's Qurayyah Independent Power Plant (IPP)	Power Station	Commissioning	2,850,000,000
Saudi Aramco's Ras Tanura Clean Fuels and Aromatics Project	Aromatics	ITB for EPC Contract	5,000,000,000
Saudi Aramco's Fadhili Gas Plant Project	Gas Plant	FEED Awarded	3,000,000,000
Maaden's Waad al-Shamal ISCC Project	Power Station	EPC Technical Bid Submission	Unknown
SWCC's Haql 3, Duba 4 and Al-Wajh 4 Desalination Plants	Water Distribution Network	EPC ITB	Unknown
Saudi Aramco's Khurais Oilfield Facilities Expansion – Overview	Oil Field Development	EPC Contract Award	3,000,000,000
Sabic's Jubail Acrylonitrile Plant Project	Petrochemical	EPC Bid Submission	500,000,000
SEC's Dhuba 1 ISCC Plant	Power Station	EPC Technical Bid Submission	600,000,000
SEC's Rabigh 2 Independent Power Project	Power Station	EPC Contract Award	1,600,000,000
Saudi Aramco, SEC's Fadhili IPP	Power	EPC Prequalification	Unknown
Maaden's Waad al-Shamal Phosphates Mining Project	Mining of Phosphates	EPC Contract Award	7,500,000,000
Sadara Chemical Company's Jubail Petrochemicals Complex - Overview	Petrochemical	EPC Contract Award	20,000,000,000
Saudi Aramco's Tigh Gas Project	Gas	FEED Awarded	Unknown
Farabi's Jizan Petrochemicals Project	Petrochemical	Feasibility Study	1,000,000,000
Sabic's Yanbu Oil-to-Chemicals (OTC) Project	Petrochemical	Feasibility Study	30,000,000,000
Saudi Aramco's Jizan IGCC Project	Power	EPC Contract Award	8,500,000,000
Sabic, MRC's Jubail Petrochemicals Plants – Overview	Petrochemical	EPC Bid Submission	500,000,000
Saudi Aramco's Shale Gas Project – Overview	Gas Processing	On Hold	Unknown
Saudi Aramco's Jizan Refinery Project – Phase I	Refinery	EPC Contract Award	7,000,000,000
SEC's Shuqaiq Power Plant	Power Generation	EPC Contract Award	3,300,000,000
Saudi Aramco's Shoiba Bulk Oil Storage Terminal	Storage Tanks	EPC Tender Issued	600,000,000
Saudi Aramco & Bapco's Oil Pipeline Project	Oil Pipeline	EPC Tender Awaited	350,000,000
Aramco's Shedgum-Yanbu NGL Pipeline Expansion Project	Pipeline	EPC Contract Award	400,000,000
Sabic, Shell's Jubail Polyurethane Plant Project	Styrene Monomer	FEED Awarded	3,000,000,000

More...

COVER STORY

L.U.V. Is in the Air

Oil, gas and our planet: an automobiler's account

When Suzuki rolled out its first batch of 'Ertiga's in 2012, the attached tagline in their overt marketing campaigns read: 'Life Utility Vehicle', or simply, "LUV". Yet, with no mentionable fuel saving features, the high mileage promise behind the car's 1.4 litre petrol engine (1.3, for the diesel variety) was a dud marketing pitch. Neither did the Suzuki management think twice on their choices.

Not the exact love story you would want to hear on Valentine's Day, but hey, it's a sports-luxury, hatchback-saloon hybrid with three-row seating, after all. What more could an average family want!

The behemoth car brand overtook Toyota Innova's sales figures in the Indian Subcontinent right away and paved way for tackling heavy competitions from Mahindra Xylo, Tata Sumo Grande and other big names under the same category. For some time it seemed that it's the only kind of 'LUV' anyone could ever want, even if not afford.

But three years down the line, are we facing the same situation as 2012?

Yes, three years seem very brief an interval between siestas. And the ramping raging automobile industry would have simply continued its merry upper cyclic joyride for a couple more years. Car-owners were also all happy happy with spoiling choices. Then, last year only, a catastrophic crude price drop spilled it over.

At present, both oil and gas prices are falling at an exorbitant rate that can make any out of the orbit meteor feel shy. Free fuel is virtually ruling the road. From June last year, crude prices have declined sharply from its gradual ever rising peak of \$110 per barrel to a meager \$46 per barrel this January, indicating an over-50% drop all over the world. Supplies are much more than demand, so to say. Alternative fuel sources are also making their presence felt in a conventional-oil-dominated market.

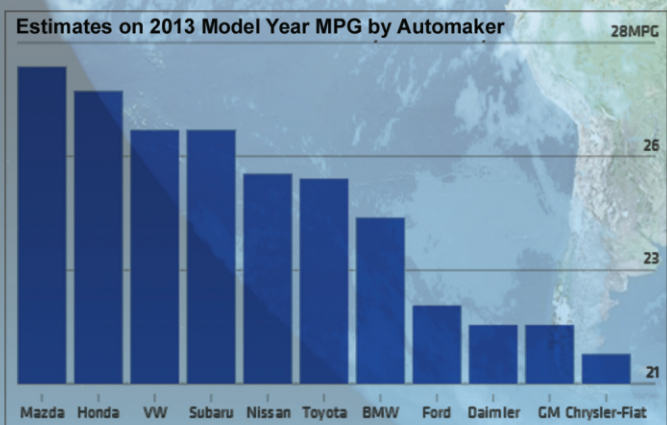
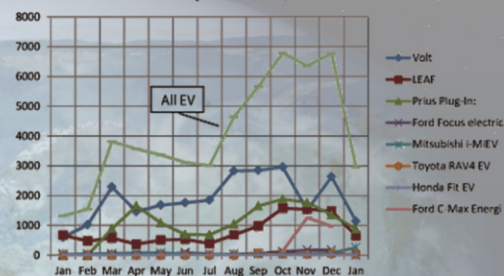
The everyday consumer might breathe a sigh of relief. In the last five decades, rarely has come such a time where one can witness a falling crude price index against the continuously decaying fuel reserve graph. Looks like this time the supply-demand tables have turned. Or has it?

COVER STORY

In all that hustle of travelling the extra mile on your vacation radar, one frightening fact you, the common-man, have probably ignored. It's a simple two-word problem: Global Warming. And oil is one of the major contributors in the problem, being alone 40% responsible for all energy emissions around the world.

Ones, betting big on the green revolution riding on electric cars and light utility battery cars, don't hold your breath! European Union's plans to replace fossil fuel cars with electric substitutes failed much back in early 2013. The sales collapse of electric cars, based on lower performance and inadequate technology, ended the dream of a "Green Utopia" based on electricity vehicles. The grand master-plan now lies only on the drawing board.

UK EV Sales Collapse - Jan, 2013



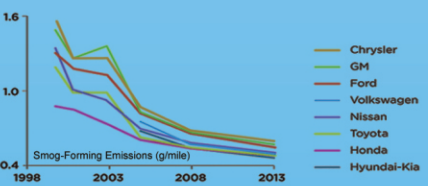
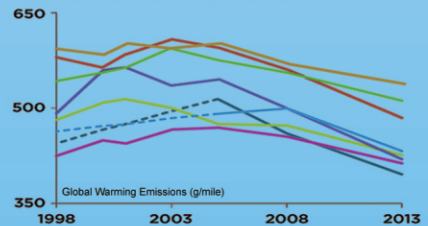
On the million particles per gram (mpg) emissions chart for the same year, Mazda, or our most beloved LUV, ranked the highest.

The current drop in crude prices may stimulate commercial car sales for the coming year, making up for previous losses due to strict compliance norms. But what can't be overlooked is that the current situation in global oil markets provokes a graver risk of running down a full decade's worth of climate control efforts. It's not an individual corporation or industry, but the entire planet which is at stake.

From 1998 till 2013, right till before the crude market collapse, world leaders were all united against global warming and tackled environmental issues with extreme prejudice. The automobile industry was also sustaining under heavy mpg restrictions, and a gradual transformation of the market was being observed. On a total company-by-company account, global warming emissions and smog-forming emissions from light utility commercial vehicles were reduced by 15% and 61% respectively, within the period of 1998 and 2013. As of early 2014, gasoline demands were also decreasing and there was no sign of its rise in the foreseeable future.

Automobile industries also saw a stagnating rise in employments and unit production first quarter of 2014, as is evident from the US graphs during the time.

Average Emissions from Light-Duty Vehicles Sold by Top Eight Automakers, 1998-2013



Source: UCS 2010, 2007, 2004, 2002, 2000

COVER STORY

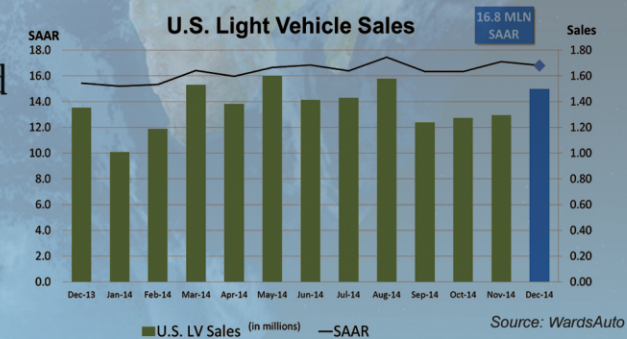
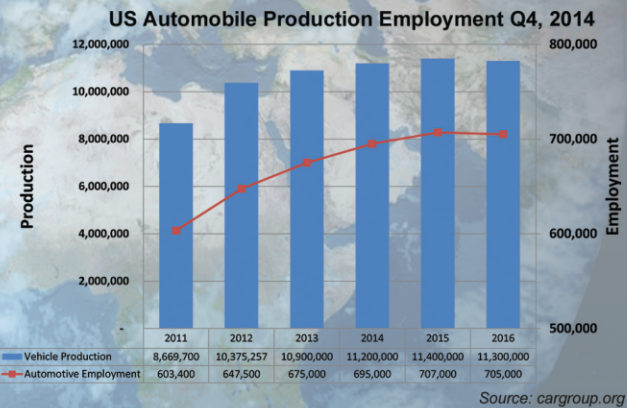
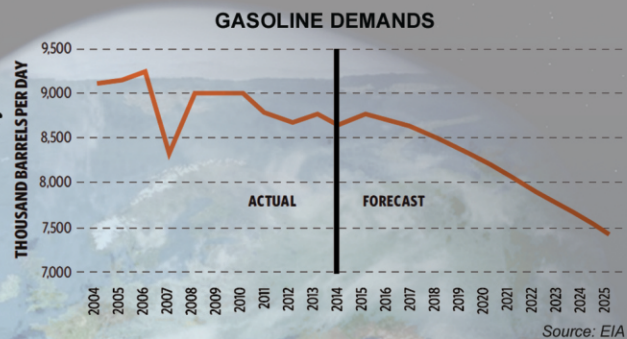
The rogue change in the pricing graph now has thrown in its own share of uncertainty. But one thing is for certain. The price fall is here to stay, if not for long, then a couple of years at least. The Middle East countries are determined not to decrease crude productions in fear of losing market share. To put it in simple words, they simply do not trust the West, especially when it comes to their oil.

Saudi Arabia, one of the largest exporters of oil crude and a major member of the OPEC conglomerate, has been at the fore of these proceedings. Recently, post the passing away of the nation's 'reformer' King Abdullah bin Abdulaziz al-Saud on 23rd January this year, a shift in the monarchy is due. As Moqran, the late king's half brother takes over the crown it will be interesting to see that whether under the current circumstances he would stick to their adamant past stance and let the Saudi economy bleed through unchanged production margins.

On the Western coast, US is capitalizing on the current downslide and reaping the benefits from both hands: on one hand they have increased their share of alternative supplies which is placing them in better light during global environmental summits. On the other hand, they have raised themselves from being the highest oil importers to an effective exporter which is churning in added revenues. Though the market fall will be tough for the new US exporting companies, but their automobile industry is surely to credit big with their light vehicle sales, as has been evident in the last quarter of 2014.

It's true that as numbers of cars increase on the road, the climate will be hampered. But optimism can be imposed on the fact that consumer attitude towards global warming has shifted from ignorance to careful acceptance and caution in the last few years following recurrent calamities and abrupt climate changes around the world.

The recent price shock may threaten this change of attitude through over-buys in the oil consumption bracket but it is too early to suggest that the love for our blue planet has been overcome by the 'LUV' of fast cars and sexy wheels.



NEXCELLE PASSPORT INTEGRATED PROPULSION SYSTEM

Nexcelle, the joint venture between GE Aviation's Middle River Aircraft Systems and Aircelle, has finally passed the ground testing certification hurdles for its newest Integrated Propulsion System (IPS) – the Passport turbofan engine. The latest technology in 16,000-lbs thrust category from GE Power Conversions is already creating ripples all over the world. Kawasaki Heavy Industries Ltd. has reportedly ordered these new propulsion systems for its two LNG carriers. GE's signature low-in-maintenance power-pulse with modulation (PMW) technology and simple operative induction-based propulsion motor technology will be featured in the highly reliable and unique electric propulsors. The nacelle components of the engine are being furnished by Nexcelle's US and France facilities.

NOC AUV IMAGING TECHNOLOGY

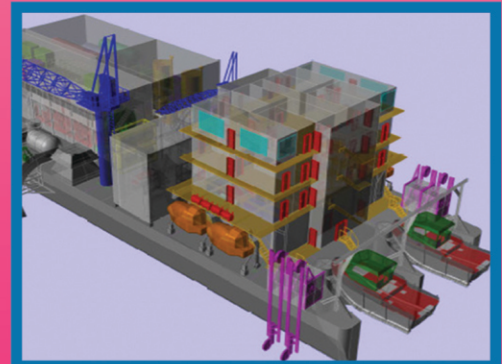
Scientists at the National Oceanographic Center (NOC) in UK recently applied advance photographic equipments in an Autonomous Unmanned Vehicle (AUV) for a better look at marine ecosystems across the world. Tested at various temperature and pressure conditions, the Seabed Imaging Technology installed in the unmanned Autosub6000 AUV has provided accurate high resolution photographs to determine marine ecology at the extreme depths of sea-beds.

The technology, though mostly in its prototype stage, has been earmarked also as an efficient tool for deep-sea oil and gas explorations in future. The concerned Imaging Technology is far superior to the current indirect media for locating and observing sea-bed crude fields and can be also applied across various pipeline monitoring strata.

SUPERIOR ENERGY ARCTIC CONTAINMENT SYSTEM

Superior Energy's Texas Board of Professional Engineers certified Marine Technical Services (MTS) division has a unique solution to the under-sea oil and gas leakage problem – the Arctic Containment System. Consisting of manual and ROV controlled operations, the system is simple, quick and efficient to analyse and repair leakages even in the harshest sub-zero conditions (thus its name).

The process of harbouring leakages is achieved by positioning a containment dome over the leak through an installation of several winch cables. The salvage engineering keeps on handling additional damage while the sub-sea ROV repairs the leak.



JDR Group Appoints David Currie



David Currie

Effective from January, 2015, Mr. David Currie has been the first major appointment for JDR group for the ensuing New Year. He will be joining the sub-sea energy technology provider as Chief Executive Officer and a member of the Board of Directors in the company.

Immediately before joining JDR, Mr. Currie was working as Aker Solutions' UK Regional President. Prior to that, he spent a major portion of his career at FMC Technologies, where he held numerous key positions including that of the Director of Global Subsea Operations. His total experience in the global offshore energy industry extends to more than three decades.

JDR's Executive Chairman, Mr. Pat Herbert, said, "I am delighted to welcome David to JDR. He brings a vast wealth of experience in the global subsea industry. His commercial knowledge of JDR's key markets will be a valuable asset to the company as we develop our products and

services for offshore oil, gas and renewables markets."

After he resumes his post, Mr. Currie's main focus will be the creation of opportunities for JDR's products and services line. He will be primarily posted in UK and would have to visit gas and oil markets around the world to promote JDR's standard sub-sea production umbilicals, IWOCS and power cables to installation service providers.

Mr. David Currie commented, "It's an exciting time to be joining JDR. With our continuing focus on technology and customer success, we are well positioned to support our partners in the challenges our markets face both today and in the long term."

IMCA Appoints Regional Directors



Lo Van Wachem

Independent energy consultant ADIL has started a fresh drive of appointments in senior roles to carry forward the company's aggressive growth stats from the previous year. The former COO of Offshore Installation Group (OIG) and regional ex-vice president of Neptune Marine Services, Mr. Lo Van Wachem has been promoted to ADIL's general manager, projects and development.

An employee with ADIL since July, 2012 and being a senior consultant with Dana Petroleum, Mr. Wachem's vivid 25 years' experience in projects, operations, business development and commercial management brings in fresh perspective to the company board in Aberdeen.

There has been another senior appointment in ADIL's London office. Mr. Raffaele Chiandet is the new Deputy General Manager over there. His professional career in the industry expands to about 20 years with big names like Agip, ENI and recently he has also served as project manager to Zakum Development Company in Abu Dhabi.



Raffaele Chiandet

The final appointment in ADIL's Aberdeen office is of Mr. Mike Fuery, who has been promoted to the general manager post for opportunity management. In oil and gas industry, he has worked for over 30 years and has been involved in operations and consultation roles with ADIL from 2011.

ADIL Managing Director, Mr. James Paton said, "Most of our staff have between 20 and 30 years' operator and international experience in the oil and gas industry and the proven track record that each of these three colleagues have makes them valuable additions to our organization in these new positions.

"They have a critical role to play as we look to expand our business both in Aberdeen and London and their in-depth knowledge of the market strengthens our senior management team and positions us for expanding the services we provide to our growing UK and international client base."



Mike Fuery

Sparrows' Plan for European Conquest

Offshore lifting and mechanical handling services provider, the Sparrows Group has appointed Mark Beveridge and Martin Thomson in a larger plan to expand its business in Europe by the end of 2015.

Mr. Beveridge and Mr. Thomson will be leading the company as European Operations Director and head of Business Acquisition and Strategic Development for Europe and Africa respectively.

Mr. Beveridge has been an asset for the



Martin Thomson (left) and Mark Beveridge

Group since 2008, when he started in the Engineering Division. After that he moved to the post of business manager for

drilling. He has accumulated a total of about 25 years in the engineering field.

Mr. Martin Thomson, on the other hands, joins the company from KCA Deutag, where he had been serving in the role of Commercial Senior Vice-President. Under his role, he was responsible for overseeing all commercial activities of the company globally. In his over 20 years' experience in the oil and gas industry, he has also worked with Total Oil Marine, Subsea 7 and GE Oil & Gas.

Sierra Hamilton's New CEO

Oil and gas engineering firm merged between Sierra Engineering and Hamilton Group, the outsourced engineering services provider - Sierra Hamilton LLC has appointed a new CEO and board of director member - Mr. John L. Morgan.

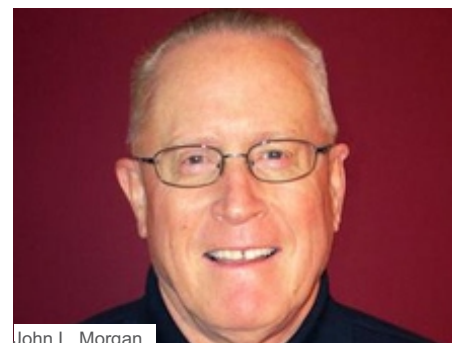
Mr. Morgan has an elaborate background of four decades in domestic and international exploration activities, production and asset management. Since 2011, he had been serving as Director of

Well Operations Advisor to BP. His portfolio contains names like ARCO, Burlington Resources, Vastar Resources, KACompass Corporation.

His educational qualification is of a bachelor in petroleum engineering from University of Wyoming.

Founder and Sierra Hamilton's former CEO, Mr. Patrick Drennon will be promoted to President of the firm. He will continue to be counted in the board of

directors, and will lead its operations in Midland, Texas.



John L. Morgan

InfraStrata Appoints Director

Independent exploration and gas storage company InfraStrata plc has appointed Alan Booth as its new non-executive director, announced the company Board of Directors. The 56-year old entrepreneur will resume his post after the company AGM on the 21st January, 2015.

Mr. Booth holds about 32 years' experience in the oil and gas exploration sector, in which he led companies like Amerada Hess, Oryx Energy and Encana. He also co-founded the EnCore Oil plc and headed it for sometime as CEO before it was sold to Premier Oil plc

in 2012. He also co-founded EnCounter Oil plc and is currently leading it as its in-charge director.

Alan passed his graduation from the University of Nottingham in Geology and completed his masters in Petroleum Geology from Royal School Mines, Imperial College. Apart from his business achievements, he also held the president post in the Petroleum Exploration Society in Great Britain and UK Offshore Operators Association (UKOOA) separately. He is currently one of the directors of the Oil and Gas Independents

Association (OGIA).

Chairman of InfraStrata plc, Mr. Ken Ratcliff said, "We are delighted that Alan will be joining the Board of InfraStrata. Alan has had an outstanding career in oil and gas exploration with a proven track record of managing very successful teams of geoscientists and engineers. He will further strengthen our Board at a time when InfraStrata is reaching a key point in its development as the Company moves into a high impact drilling programme in 2015."

Bahrain

» **Tender Name** : Maintenance, Replacement and Installation of Transformers

Description : Tenders have been issued by Bahrain Electricity and Water Authority, for transformer (maintenance, replacement and installation of light transformers)

Bid Bond : -NA-

Details : Tender documents can be obtained on payment of BHD 15.00 from:
Bahrain Electricity and Water Authority
Tel: 00973) 1 7566617

Country : Bahrain

Closing Date : 05/02/2015

» **Tender Name** : Upgrading of South Alba STP

Description : Tenders have been issued by Ministry of Works & Housing - Bahrain, for upgrading of south alba STP - construction stage project.

Bid Bond : -NA-

Details : Tender documents can be obtained on payment of BHD 50.0 from:
Ministry of Works & Housing – Bahrain
Tel: (00973) 1 7545555

Country : Bahrain

Closing Date : 11/02/2015

India

» **Tender Name** : Construction - Crude Oil Storage Facilities

Description : Tenders have been issued by Oil and Natural Gas Corporation Limited for construction of new crude oil storage facilities cauvery asset (CSF-CA) on LSTK basis with following deliverables:

- 1) Construction of 4 Nos. 2500 M3 Tanks at Narimanan GGS
- 2) Construction of 3 Nos. of 500 M3 Tanks at Nannilam EPS
- 3) Construction of 2 Nos. of 500 M3 Tanks at Kovilkalpal.

Bid Bond : -NA-

Details : Tender details can be obtained from:
Oil and Natural Gas Corporation Limited
Head PMC
Corporate MM ONGC
9th Floor, Core-4, Scope Minar Building
Laxmi Nagar
Delhi 110092

Contact Person: Mr. Arun Anand

Tel: 0941039157

Email: ongcsrhelp@ongc.co.in

Country : India

Closing Date : 26/02/2015

» **Tender Name** : Gas Lift Equipments

Description : Tenders have been issued by Oil India Limited, for Side Pocket Mandrel Gas Lift Equipments (Qty 28 Nos)

Bid Bond : INR 71,90,042/-

Details : Bid details can be obtained on payment of INR 4500 from:

Oil India Limited

Duliajan, Assam

Tel: 03742800548

Fax: 03742803549

E-mail: contracts@oilindia.in

Country : India

Closing Date : 25/02/2015

Kuwait

» **Tender Name** : Fire Fighting Systems

Description : Tenders have been issued by Ministry of Interior, for the repair, operation and maintenance of fire fighting systems and fire alarm systems, feeding and water drainage in the Ministry of Interior in its construction and maintenance department.

Bid Bond : Applicable

Details : Complete bid documents can be obtained on payment of KD150.00 from:

Ministry of Interior

Information Systems General Department

Tel: 00965) 2 2430500

Fax : (00965) 2 2496570

Country : Kuwait

Closing Date : 15/02/2015

Oman

» **Tender Name** : Replacement & Modification Services for Meters

Description : Tenders have been issued by Majan Electricity Company (SAOC) for replacement & modification services for meters & control cable for current transformer CT at Sohar Industrial Area.

Bid Bond : Applicable

For more Tender alerts, subscribe to www.theenergyinfo.com

» **Details** : Bid details can be obtained on payment of OMR 150.00 from:
Majan Electricity Company (SAOC)
Muscat, Mina Al Fahel
Tel: (00968) 2 4573300/24588600
Fax: (00968) 2 6759144 (00968) 2 4573320/24588690
E-mail: medc@medcoman.com

Country : Oman
Closing Date : 04/02/2015

Qatar

» **Tender Name** : Equipment Calibration on Call-Off Basis
Description : Tenders have been issued by Qatar Petroleum to carry out calibration of test equipment on call-off basis for five (5) years at the following six (6) QP operational areas:
1. Gas Operations, Mesaieed (GO)
2. Field Support Department, Dukhan (FSD)
3. Production Department, Dukhan (PDD)
4. Northfield Alpha, Offshore Platform Complex (NFA)
5. Refinery, Mesaieed (REF)
6. Industrial Cities Directorate, Mesaieed and Ras Laffan (DC)

Bid Bond : -NA-
Details : Tender documents have to be obtained on payment of QAR 500 from:
Qatar Petroleum
Contracts Dept. - Engineering Division,
Fareej Bin Dirham, Al-Handasa Complex,
Mezzanine Fl, Room A-M03,
B-Ring Rd, Doha
Tel: (00974) 4 4402000

Country : Qatar
Closing Date : 15/02/2015

Saudi Arabia

» **Tender Name** : Rehabilitation of Relays Electrical Protection System
Description : Tenders have been issued by Saline Water Conversion Corporation for rehabilitation of relays electrical protection system 380 K.V of circuit breakers (8DQ/8DN5) in Jeddah stations.

Bid Bond : Applicable
Details : Bid details can be obtained on payment of SAR 500 from:
Saline Water Conversion Corporation Building
Prince Mohammed Bin Abdulaziz Road
5968
Saudi Arabia
Tel: +966 11-463-1111 /-(00966) 11 4630503
Fax: +966 11-464-1111
E-mail: info@swcc.gov.sa

Country : Saudi Arabia
Closing Date : 03/02/2015

» **Tender Name** : Implementation of Pipes and Drainage Stations
Description : Tenders have been issued by General Directorate of Water in Al Madinah Al Mona for implementation of pipes and drainage stations in Yanbu.

Bid Bond : Applicable
Details : Bid details can be obtained on payment of SAR 500 from:
General Directorate of Water in Al Madinah Al Mona
Tel: (00966) 4 8444077

Country : Saudi Arabia
Closing Date : 16/02/2015

U.A.E.

» **Tender Name** : Fiber Optic Cable Circuits and Associated Works
Description : Tenders have been issued by Dubai Electricity & Water Authority for the supply, installation, testing & commissioning of OPGW, ADSS and underground fiber optic cable circuits and associated works.
5 percent of tender price
Tender details can be obtained on payment of

Bid Bond : AED 5000 from:
Details : Dubai Electricity & Water Authority
Office of the Contracts Manager
Zabeel East, PO Box 564
Dubai
Tel: +9714 3244444
Fax: +9714 3248111
E-mail: contracts@dewa.gov.ae

Country : U.A.E.
Closing Date : 12/02/2015

For more Tender alerts, subscribe to www.theenergyinfo.com

Upcoming Events

National

The Global Refining And Petrochemical Conference

Organizers: iTEN Media Private Limited
Date: Feb 06, 2014
Venue: India Expo Centre
Location: Noida, India

First Renewable Energy Global Investors Meet & Expo (RE-INVEST)

Organizers: IREDA
Date: Feb 15, 2015 – Feb 17, 2015
Venue: The Ashok
Location: New Delhi, India

TEI as "Media Partners" in...

O&M and Lifecycle Management Strategies for CCGT Power Plants

Organizers: T. A. COOK Conferences
Date: Feb 03, 2015 – Feb 04 2015
Venue: Al Murooj Rotana Hotel
Location: Dubai

World Petrocoal Conference 2015

Organizers: Energy And Environment Foundation
Date: Feb 15, 2015 – Feb 17 2015
Venue: NDCC Convention Center
Location: New Delhi, India.

Africa Energy Indaba

Organizers: Siyenza Events
Date: Feb 17, 2015 – Feb 18 2015
Venue: Sandton Convention Centre
Location: Johannesburg, South Africa

Indian Bulk Liquid Storage Conference

Organizers: Cerebral Business Research Private Limited
Date: Feb 18, 2015
Venue: The Lalit
Location: Mumbai

Project Scheduling, Risk Analysis and Cost Control

Organizers: InFocus International
Date: Feb 23, 2015 – Feb 27, 2015
Location: Johannesburg, South Africa

The Modernization of Indian Refineries

Organizers: Cerebral Business Research Private Limited
Date: Feb 27, 2014
Venue: The Park Hotel
Location: New Delhi, India.

International

World LNG Fuels 2015

Organizers: Hart Energy Conferences
Date: Feb 02, 2015 – Feb 04, 2015
Venue: George R. Brown Convention Center
Location: Houston, Texas

8th Middle East Artificial Lift Forum

Organizers: MCI Group Holding SA
Date: Feb 03, 2015 – Feb 05, 2015
Venue: The Ritz-Carlton, Doha hotel
Location: Qatar, Doha

Energy Storage 2015

Organizers: Active Communications International (ACI)
Date: Feb 04, 2014 – Feb 05, 2014
Location: Hamburg, Germany

2nd LNG Supply, Transport & Storage Philippines 2015 Forum

Organizers: All Events Group
Date: Feb 04, 2015 -Feb 06, 2015
Venue: Pan Pacific Manila
Location: Philippines

The 4th Annual European Gas Price Structuring and Market Liquidity Forum

Organizers: Marcus Evans
Date: Feb 05, 2014 – Feb 06, 2014
Venue: Marriot Courtyard
Location: Berlin, Germany

Pipeline Pigging & Integrity Management Conference

Organizers: Clarion Technical Conference
Date: Feb 09, 2015 – Feb 12, 2015
Venue: Marriott Westchase Hotel
Location: Houston, Texas

The 4th Annual LNG Asia Pacific 2015

Organizers: IBC Energy
Date: Feb 09, 2014 – Feb 12, 2014
Venue: Singapore Convention & Exhibition Centre
Location: Singapore

ME-TECH 2015

Organizers: Euro Petroleum Consultants Ltd (EPC)
Date: Feb 17, 2014 – Feb 18, 2014
Venue: Madinat Jumeirah Conference Center
Location: Dubai, UAE





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For Our Readers

Another year gone, another milestone! As 2014 comes to an end, we, the small yet dedicated team of Total Energy Info (TEI), celebrate our continuous efforts of sharing critical energy industry information with you for the ninth year running. We wish you, our readers, the heartiest 2015. May the New Year bring joy and prosperity to you all.

But has our alliance run its course? Absolutely not!

We, the TEI group, pioneer in gathering industry focused information basically from the core of energy den – the GCC, and also from emerging quadrants of the globe like India, among other countries. From 2005, we have continuously provided the latest project and tenders updates, product and technology information, and company profiles of oil and gas, petrochemicals, power, pipelines, hydro and refineries sectors with country, region and industry specific details through our website: www.theenergyinfo.com. In 2015, we will grow from strength to strength.

To serve our valuable subscribers even better, TEI launched its monthly e-magazine in August 2014, the TEI Energy Outlook (TEI-EO), in readily available printed and downloadable formats.

TEI-EO merges our vast knowledge database with internal and external expert reviews on global trends and on important updates in the sector. Combine that with the latest projects and tenders list from the Middle East countries and India, you are always a step ahead in your competition with TEI-EO. Each upcoming issue will concentrate on specific sectors within the energy industry to come out with each of their detailed outlooks.

TEI has grown in 2014. Recently, our family has extended hands to global business developers and technology commercialization service providers - Synergics Corporation. And it was only during this year that our beloved TEI was selected as Media Partner to the Exhibitions India Group's exhibition and conference – Smart Cities India 2015, which will be hosted at the New Delhi Pragati Maidan in May.

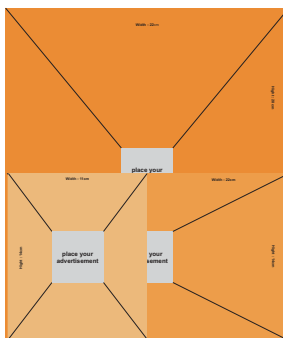
In the New Year, our resolution stands by the TEI motto: "Your Business, Our Information". And with our clients excelling in their respective businesses, we also intend to go that extra mile to serve you. Our resolve to excel comes through a new look, simpler access and most importantly, our commendable information reserve to keep you shining in a prosperous 'energetic' future.

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TEI Energy Outlook Media Kit

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ENERGY Outlook

EXPLORE * EMPOWER * EVOLVE

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ENERGY TRACK

Rental power industry set to

World Smart

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