

MONTHLY

ENERGY UPDATE

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As demand increasing,
power crisis to persist
in Pakistan

Alternative energy
progress in Pakistan

Pakistan moves
forward in
nuclear energy

How solar energy
transformed
a village in Sindh

Exclusive Interviews



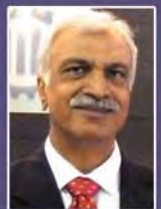
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MD & CEO, PPL



Fawad Barry
MD, Haseen Habib



Agha Zafar Abbas
CEO, Kansai Paints



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November 22, 2017 - Marriott Hotel, Karachi

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- (a) Highlight the initiatives made by Sindh Government for the promotion of wind energy in the province.
- (b) Prospects & potentials of wind industry in Pakistan.
- (c) Plans to increase power generation using renewable resources to overcome energy crisis in the country.
- (d) Identify challenges in fast track development of wind power projects.

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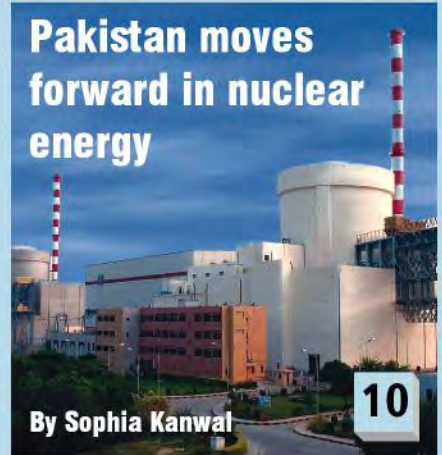
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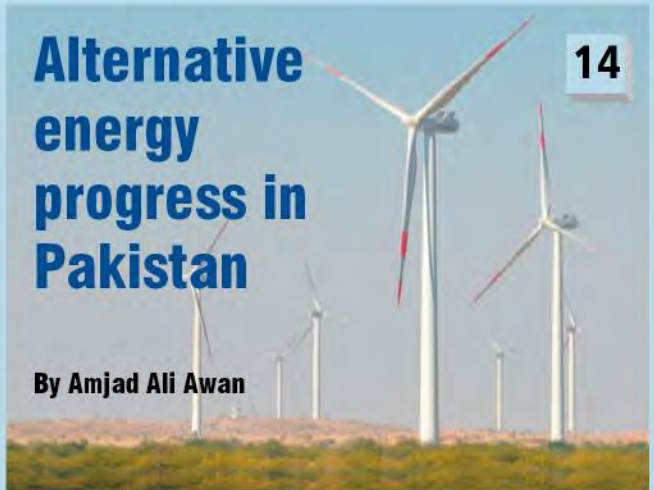
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Alternative energy progress in Pakistan

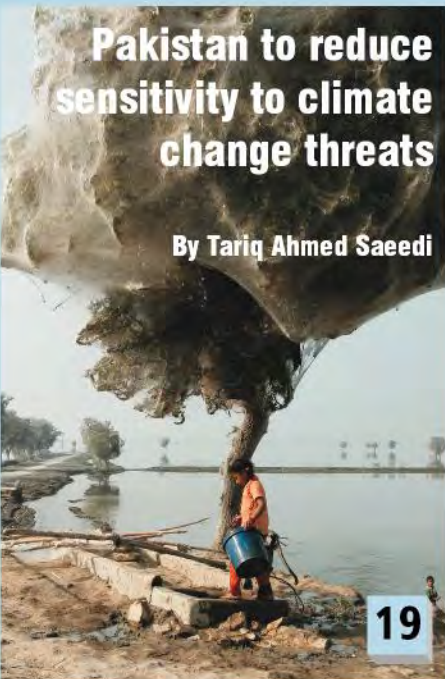
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From the editor's desk...

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K-Electric sale: Where are consumers' rights?

The federal government, in a surprising move has cleared the way of Chinese company Shanghai Electric, to take control of very sensitive organization of power supply to the Karachiites, K-Electric, responsible for supplying of over 25 million people of mega-polis bustling with huge population.

The Ministries of Defense and Interior have given a security clearance certificate for the sale of Abraaj Group's 66.4% stake in K-Electric to Shanghai Electric Power. However, the issue of settlement of over \$1 billion dues still remains unresolved. Both Ministries of Defence and Interior have given the no-objection certificates for the sale of majority shares to the Chinese company, sources in the Ministry of Energy said. However, the Ministry of Defence gave the certificate on the condition that the new buyer of the country's largest integrated power utility company would ensure power supplies to vital defence installations at all times, they added. Since the Amended Implementation Agreement has also expired, the Privatization Commission has asked the Power Division to sign a new legal agreement to make sure that the buyer is legally bound to supply electricity to defence installations. The Privatization Commission has also asked Abraaj Group to share the draft Sale Purchase Agreement but it has refused to meet this condition, said the sources. The Power Division had asked Shanghai Power to seek security clearance from the Ministries of Defence and Interior for the deal to be ratified. Shanghai Power is already running a nuclear power plant in Pakistan.

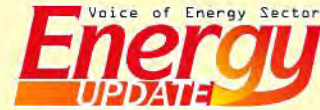
The Defence Ministry's endorsement would remove one of the main irritants that have delayed the finalisation of the deal. In August last year, the Abraaj Group sold KES Power - the offshore entity that controls 66.4% of total K-Electric shares - to China-based Shanghai Power. The deal is estimated at \$1.77 billion and is contingent upon settlement of issues between the government and the seller.

The Abraaj Group will get only half of \$1.77 billion as the first Saudi Arabia-based buyer - the Al-Jammiah Group - has kept its investment through an offshore entity. As per the shareholders' agreement, the Abraaj Group has a 50% stake in KES Power - the holding company of K-Electric - and will get half of the total price, sources said. This means that when and if the deal materialises, Abraaj Group will claim over \$785 million as its share. The government of Pakistan sold its majority stakes in K-Electric - then KESC - in 2005 to Al-Jammiah Group.

Since Abraaj and Shanghai Power failed to conclude the deal by March this year, they had to seek fresh regulatory approvals. After the expiry of the original deadline, Shanghai Electric made a public announcement on June 29 of its intention to acquire K-Electric. In accordance with takeover regulatory framework, the acquirer may make public announcement of the offer till December 26 of this year, the Abraaj Group has been making hectic efforts to conclude the deal at the earliest. Its officials also met with Prime Minister last month to get his support, according to sources. Outstanding dues have to be settled by the seller before the deal is finalized as an inter-ministerial committee is handling the deal and once all the pre-requisites are completed, the matter will be placed before it for approval.

The Sui Southern Gas Company (SSGC) and National Transmission and Despatch Company (NTDC) have made claims worth around \$1.24 billion on account of cost of electricity, gas and late payment surcharges (LPS). Abraaj Group does not want to pay the interest and is seeking settlement of payment of principal amount.

The rights of consumers are not being safeguarded in the entire deal and only focus is being ensured to secure the profits and recoveries in favour of the sellers according to experts. The higher courts should take suo moto action against the irregularities and ensure consumers' rights in the first place.



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Power crisis to persist in Pakistan

By Ismat Sabir

International Energy Agency (IEA) has forecasted that total electricity demand in Pakistan will rise to more than 49,000 megawatts (MW) by 2025. As Population is increasing, besides income increase and urbanization, the power demand is also escalating with every passing day because new houses are being constructed and use of electrical appliances is increasing. The government has ambitious goal under Vision 2025 to increase access to electricity from 67 percent to over 90 percent of the population and to reduce average cost per unit by over 25 percent by improving the generation mix.

The CPEC would also bring investment in energy and infrastructure sectors, besides, reducing poverty and bring prosperity in under-developed areas by affecting economic benefits to three billion people of the region. It would invest \$50 billion plus portfolio within two years and would bring together the growth engines of South Asia, China and Central Asia.

The representatives of Russia, Singapore and Moldova, as well as leading figures from international financial institutions and the private sector reviewed the viability of the project. The CPEC will improve this situation as it includes many energy projects. The load shedding, which was 12 to 14 hours in cities while 16 to 18 hours in villages will be reduced substantially.

In the budget for 184 KM Burhan Havelian expressway is allocated at Rs 3 billion; while Rs 26 billion have been allocated for Thakot to Havelian; Rs 2.7 billion are allocated for restoration of Dera Ismail Khan Mughal Kot and Zhob road Rs 2.5 billion have been allocated in Balochistan for Khuzdar and Panjgoor, Hoshab, Bisma, Sohrab Section and Gaward Turbat Hoashab

sections. A comprehensive plan is being implemented for the road link networks, expansion and modernization of the airports and development of the area. Total 31 project which is for development of Gwadar were provided in 2017-18 budget. For this purpose projects such as implementation of Gwadar master plan, New Gwadar international airport, a 200-bed hospital, 200 MW power generation, and desalination plant. CPEC projects would enter into their third year are under implementation during 2017-18.

Funds of Rs 180 billion have been proposed for CPEC and its supporting projects during the next financial year. Special for fast track development in special areas, Rs 62 billion have been allocated. On the direction of the Prime Minister, the development funds for Azad Jammu and Kashmir and Gilgit Baltistan have been increased from Rs 25.75 billion in FY 2016-17 to Rs 43.64 billion for the FY 2017-18, which is a historic increase of 69 percent, and Rs 26.9 billion were allocated for Federally Administered Tribal Areas (FATA).

The government will continue provision of subsidized tariff on agriculture tube wells at the rate of Rs 5.35 per unit in FY 2017-18. This is estimated to cost around Rs 27 billion.

According to Economic Survey energy crisis started in 2007 and was at peak during 2011-12. Prior to the present government, debt, weak financial position of energy companies, liquidity crunch, falling gas production, low exploitation of indigenous coal and Hydel resources, high dependence on oil and gas as power generation source and unutilized power generation capacity were some of the significant constraints which caused severe energy shortages.



The present government, from the very beginning, had given high priority to energy sector, thus making significant efforts on all fields ranging from immediate step to long term plan. As immediate step, the government retired the circular debt in start of its administration.

The government has also substantially brought down power subsidies and has significantly contained the accumulation of new payable arrears in the power sector by (i) improving Discos' performance, (ii) rationalizing tariffs, and (iii) reducing delays in tariff determination. The subsidy for power sector which were Rs 464 billion (2.3 percent of GDP) in FY 2012 has been consistently reduced to Rs. 217 billion (0.7 percent of GDP) in FY 2016. All this was done while protecting the vulnerable consumer segments of the country. Further, Circular Debt Capping Plan is effectively managing the power sector financial flows, stocks and subsidy budget, indicated economic survey.

The National Power Policy 2013 was approved by the CCI to address the key challenges of the power sector and to achieve the long-term vision of the power sector. The policy focused on short-term, mid-term and long-term objectives to make the power sector sustainable. In short run, two critical issues were addressed on fast track. One issue was inefficient recovery system while the other was effective control of transmission and distribution losses. Ministry of Water and Power has shown significant improvement in both issues. Recoveries from end consumers reached 94.40 percent during July-March FY-2017-18, being highest in the past ten years while transmission and distribution losses declined to 16.3 percent during the period.

One other salient feature of the policy was creation of an energy market by moving from the single buyer model towards buyer plus and ultimately an energy exchange market. As a first step of the transition an agent for the power sector entries and a clearing house was established by operationalization of Central Power Purchase Agency (CPPAG). Thus under the executive direction from the ECC (April 30, 2015), NEPRA mandated the CPPAG to propose the characteristics of a competitive trading bilateral contracts market (the CTBCM). As part of this assignment, the CPPAG has reviewed several market models established in other countries, trying to extract from them the most important lessons and using this information to develop a customized model for the energy sector in the country. CPPAG has working on development of self sustainable power market with least



intervention and subsidy support from the government of Pakistan. To increase transparency in the system, more dissemination of information is being done through public disclosure of major daily financial transactions in the power sector.

Energy security

With the increased economic growth, the demand for energy in Pakistan is likely to rise considerably. In addition to the 15,000 MW in the pipeline to come in generation mode in period beyond 2018, FM said we should plan to add another 10,000 MW of electricity, and another 2 to 3 billion cubic gas per day. In order to achieve these targets, we must aim to implement regional connectivity projects,

Water security

Water security is necessary for the agriculture and consumption. A considerable amount of water passes through the rivers each year. Absence of dams' means that a lot of water is wasted which should be preserved. Over the next five years Pakistan should concentrate on substantially completing Diamer Bhasha dams, and simultaneously improving water conservancy. Various initiatives have also been started to ensure the sustainability of the reforms envisaged under the Power Policy of 2013.

During July-March FY 2017, although installed capacity has increased to 25.1 million MW from 22.9 million MW during corresponding period last year. However, there was decline in generation as it remained 85,206 GW/h. electricity during July-March FY 2017 with corresponding period last year. Karachi Nuclear Power Plant (KANUPP) at Karachi, Chashma

Nuclear Power Unit-2 and Unit-3 (C-1, C-3 (Mianwali) are operating with gross capacity of 1,090 MW. KANUPP has now completed forty five years of safe and successful operation. Amongst the best performing power stations country. C-3 was formally inaugurated by the Prime Minister on December 28, 2016.

Consumption of power has been increased, which is indicating that economy growth has switched general public to use advance technological products. The government has given priority to industrial sector thus there was uninterrupted power supply to industrial sector. However a little decline in share of industry in electric consumption is due to the use of own captive power plants on LNG by large industrial units The increase in share of agriculture in electricity consumption is positive sign that farmers are getting electricity for farm mechanization which will in turn over effect on the economy as a whole. ■



CHASHNUPP-IV (C-4): Pakistan moves forward in nuclear energy

By Sophia Kanwal

Pakistan despite all odds takes one step forward in nuclear energy sector as it has recently added 340 mega-watts electricity to the national grid from newly inaugurated 5th nuclear power plant, CHASHNUPP-IV (C-4), at Chashma having capacity to generate 340 megawatts of electricity inaugurated by Prime Minister Shahid Khaqan Abbasi.

Addressing the inauguration ceremony PM Abbasi expressed his gratitude to China for technical and financial assistance to Pakistan and establishing the C-4 power plant, and two countries will collaborate in the energy sector among others as well. "These power projects have not been possible without the cooperation of China and its people," he said, requesting China to invest further in Pakistan's energy sector.

"We are committed to end electricity load-shedding, and by the end of this term will add 10,000 MW to the national grid". He said the C-4 is a step forward from the Pakistan Atomic Energy Commission (PAEC) in achieving its target of adding 8,800 MW to the national grid by the year 2030. 990 MW electricity is provided by existing three units of Chashma.

Unit C-1, C-2 and C-3 have successfully contributing to the national grid since 2000, 2011, 2016 respectively. C-4 added another 340 MW and has been connected to national grid.

Speaking on the occasion, Chairman Pakistan Atomic Energy Commission Muhammad Naem said, "In addition to the four units at Chashma, the work has been started on two 1,100MW plants at Karachi (KANUPP-II and III), where groundbreaking ceremony was held in November 2013". He mentioned that it was a matter of gratification that K-2 and K-3 power plants in Karachi were being completed at a faster pace, and would provide cost effective and clean energy. Pakistan began its nuclear power generation program in 1972. PAEC has about 45 reactor-years of successful operating experience to its credit.

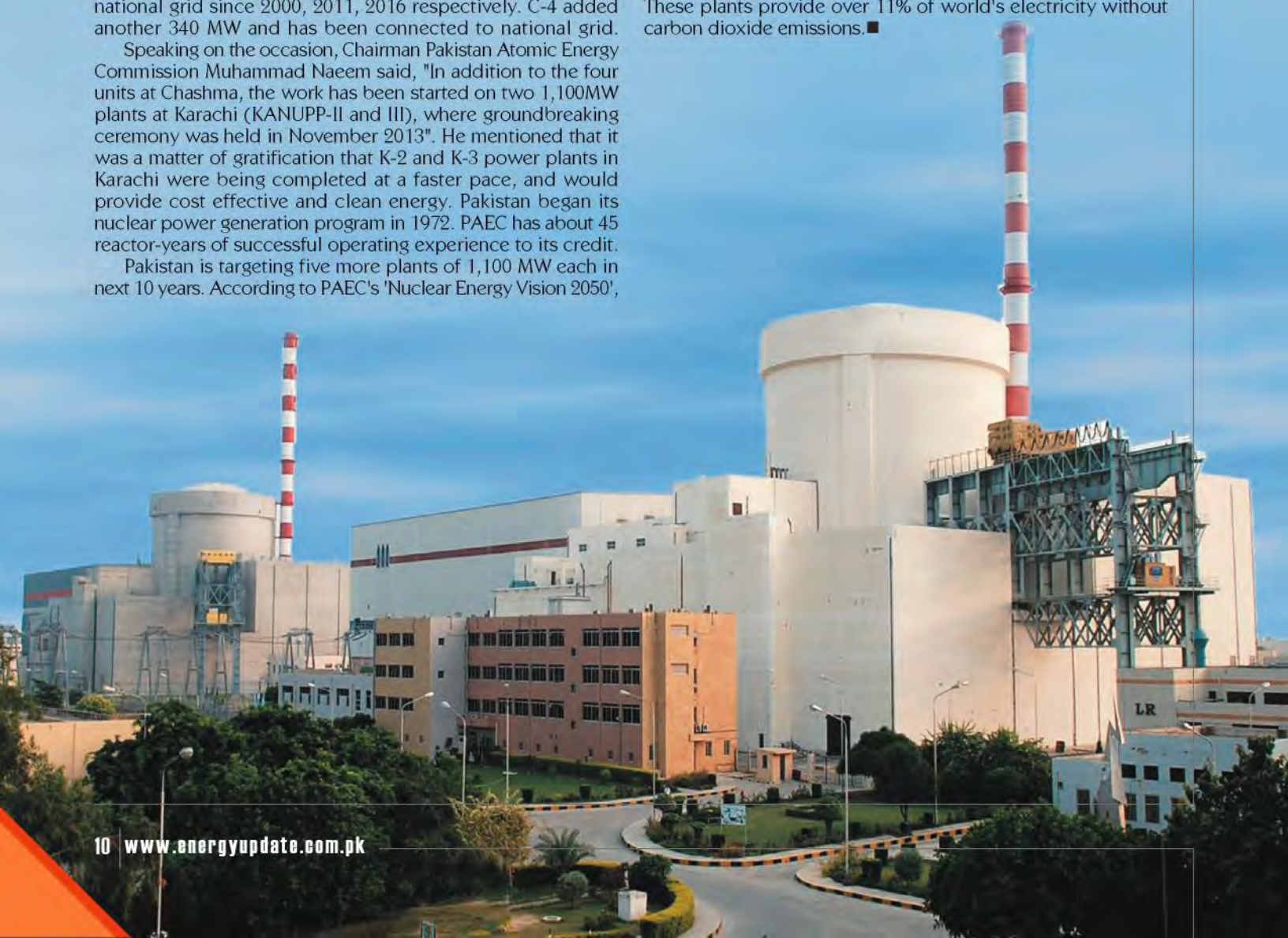
Pakistan is targeting five more plants of 1,100 MW each in next 10 years. According to PAEC's 'Nuclear Energy Vision 2050',

units of 300 MW would no longer be installed after this Chashma-IV. Pakistan and China also agreed to build another unit of ACP-1000 as CHASNUPP-5. Pakistan's current total nuclear power generation is 1,405 MW which will be raised to 3,535 MW by 2021 on completion of under construction K-2 and K-3 projects. Pakistan's all nuclear power plants except KANUPP-I, are based on the Pressurized Water Reactor (PWR) concept.

A total of 279 PWRs are already operating around the globe, which have several safety features for enhanced safety targets of GenIII of reactors. China is leading in construction of nuclear power plants with 25 plants are underway in China, followed by 9 in Russia, 6 in India, 5 in US and 2 in Pakistan.

The event was attended by Interior Minister Ahsan Iqbal, Minister of State for Water and Power Abid Sher Ali, PAEC Chairman Mohammad Naem, Chinese Ambassador Sun We Dong, PAEC Member Power Yousaf Raza and representatives of the Chinese companies and senior officials.

There are 31 countries in the world operating more than 440 commercial nuclear power reactors, with over 390,000 MW of total capacity. About 60 new reactors are under construction. These plants provide over 11% of world's electricity without carbon dioxide emissions. ■





“**Pakistan earnestly require major exploration of gas reserves**”
– Syed Wamiq Bokhari

Gas reserves in Pakistan are fast depleting, says MD & CEO, Pakistan Petroleum Limited

By M. Naeem Qureshi



Energy Update (EU) was privileged to recently interview Managing Director and Chief Executive Officer, Pakistan Petroleum Limited and Chairman, Annual Technical Conference (ATC) 2017 and Society of Petroleum Engineers (SPE), Pakistan Syed Wamiq Bokhari. As Chairman of the 24th ATC and Oil Show 2017, to be held between November 22 and 23 in Islamabad, the interview focuses primarily on the upcoming event.

“Whenever an event such as the ATC takes place, it naturally sends a message across the world that Pakistan’s energy sector is active and growing”, Wamiq said. He continues to say.....

Energy Update (EU): What is the significance of ATC?

global organizations, Society of Petroleum Engineers (SPE) and American Association of Petroleum Geologists that serve as a platform to oil and gas professionals for networking and knowledge sharing. Both these organizations are represented in Pakistan through their local chapters, SPE Pakistan and Pakistan Association of Petroleum Geoscientists, and jointly host the ATC for the last several years. This year, the ATC will take place in Islamabad’s Pakistan-China Friendship Centre, which is a much larger venue. We are expecting over 1500 people, including over 1000 local and international professionals, as well as dignitaries and exhibitors.

As such, we are hoping to attract some of the most senior professionals across the globe for our panel discussions. We will also request Prime Minister Shahid Khaqan Abbasi to be the chief guest on the occasion.

For local and international exhibitors, ATC will present a unique opportunity to showcase their products and good practices as any company that is interested in the Pakistani

market can come and take part in the exhibition.

EU: Do you get support from the government for organizing the conference?

SWB: ATC is managed primarily by professionals. But we will involve the Ministry of Energy in the event by inviting their officials to attend the proceedings. The ministry also contributes by suggesting panelists for the conference.

EU: What impact is ATC likely to have on the country’s oil and gas industry?

SWB: Whenever an event such as the ATC takes place, it naturally sends a message across the world that Pakistan’s energy sector is active and growing. That is the point we are trying to convey this time as well.

The theme of this year’s conference of adding reserves through new discoveries is also imminently topical. As you are aware, major reserves of hydrocarbons in Pakistan are depleting. We have made small-scale discoveries in the last few years but they are clearly inadequate. And we urgently need to add new resources through big discoveries in frontier regions to replace the ones already consumed. Moreover, ATC will also focus on the industry’s response to fluctuating oil prices. You will concede that the oil and gas industry has largely remained resilient in the face of oil price fluctuation. In the current scenario, where shale gas is introduced into the system and other discoveries are also being made, we need to move forward and adjust for price volatility, including low oil prices. We have planned a panel discussion around this issue where some of the best minds in



industry will discuss the way forward on how international industry needs to adjust to this 'new normal'.

EU: What is the main cause that hampering large discoveries of gas reserves in Pakistan?

SWB: Pakistan was fortunate enough to have had a big discovery in Sui soon after the country came into being. And it was not just the biggest discovery but a special one because as it was located at the juncture of three provinces: Balochistan, Sindh and Punjab. Other large fields were discovered up until the pre-1980 era. But exploration activity was curtailed thereafter due to lack of understanding about the industry. The assumption was that we had sufficient gas at our disposal and there was no need for further exploration. Except we didn't realize at the time how quickly reserves were going to be exhausted.

Moreover, the terms of gas exploration and production were such that new discoveries didn't make much economic sense. Resultantly, we were drilling two to three wells in a year until 1983. Then an oil discovery was made in Badin in 1983 and activities paced up, reaching up to 23 wells a year. Even so, only 950 exploration wells have been drilled so far in Pakistan, which means roughly one well for about 1000-plus square kilometres.

Compare this to the US, which has an average of one well for every eight kilometres, and you realise that we are way behind and urgently need to accelerate exploration activities, particularly due to attractive government policies and steady improvement in the law and order situation. I am convinced that discoveries are bound to take place as you continue doing more and more exploration.

This is the template we have followed

at PPL for the last two to three years. We were previously drilling three wells annually which has now gone up to 25.

But our latest discoveries are small scale since large discoveries were all made in the early era in the known basins. Now if we continue to explore in the same area, we can only find small pockets of hydrocarbons. Therefore, we must step up to explore in high-risk areas, both technically and security-wise, for higher rewards. This means exploring in Balochistan and Khyber Pakhtunkhwa as well as in off-shore.

EU: What is your outlook on current government policies pertaining to the oil and gas sector?

SWB: Oil and gas policies in Pakistan fare very well compared to those in other countries. But our environment remains challenging because we lack the required infrastructure that has cost implication. In the US, for instance, infrastructure is so well-developed that a well could be drilled in merely USD 3 million while the same well in Pakistan would cost around USD 15 to 20 million.

That said, infrastructure is bound to develop with increase in activity as the service sector will also expand as more exploration takes place.

Fortunately, Prime Minister Abbasi belongs to the oil and gas sector and is very supportive and committed to the industry. Whenever we have interacted with him, it is quite evident that he is sincere and keen to see and enable progress.

EU: Please give us an overview of PPL's Corporate Social Responsibility Programme

SWB: Given the wide gap between service delivery by the government and on-ground local requirements, CSR is con-

sidered the responsibility of any good company. Being a responsible corporate entity, we at PPL take CSR very seriously. Against mandatory spend of 1.5 percent of pre-tax profit as advised by our Board of Directors, actual CSR spending by us last year stood at about 2.7 percent of pre-tax profit, amounting to over a billion rupees. Small wonder then that PPL has been recognized, by none other than the Pakistan Centre of Philanthropy as the largest corporate giver in terms of volume of donations consecutively for the last 11 years. During the last 60 years, we have focused on long-term, need-based participative initiatives in healthcare, education, capacity building for livelihood generation and sports to improve well-being of communities living around our operational areas as well as other parts of the country.

EU: What are the main features of your CSR programme in Balochistan, the heartland of PPL's operations?

SWB: PPL has played a major role in bridging development gaps and enhancing well-being of local communities in Balochistan, particularly District Dera Bugti. The province has a major share in our CSR projects since we are present there for the last several decades. In fact, PPL started off its CSR programme at Sui as early as 1957 with the establishment of Sui Model School in District Dera Bugti, which has been upgraded to include a girl's college now, benefitting over 3000 local students annually. The graduates of Sui Model School and Girls College are now part of our management.

Besides, we extend financial and in-kind support to many schools in the area and award scholarships for primary to higher professional education to local students to study at prestigious institutions, including Lahore University of Management Sciences and Institute of Business Administration.

Similarly, we have done a lot of investment in healthcare, while working closely with the provincial government. We established and provide operational expenses of the 50-bed PPL Public Welfare Hospital in Sui. We also operate Sui Field Hospital, which is equipped with state-of-the-art facilities available only at a handful of hospitals in Pakistan besides running mobile medical dispensaries serving far-flung areas.

In terms of civic amenities, we are providing free gas and potable water to Sui town daily and initiated the PPL Balochistan Football Cup, involving all six provincial districts to nurture local talent and engage youth in healthy recreation. ■

How solar energy transformed a village in Sindh

By Afia Salam

Off-grid solar power has transformed a poor village in Pakistan's Sindh province, bringing prosperity and providing opportunities to men and women that has changed their lives for the better. As you pass Gharo on the national highway, giant whirling windmills can be seen on the hazy horizon, attempting to add more megawatts to an electricity-starved grid. But the villagers of Ishaq Jokhio, a small settlement just off the highway in Sindh, are not waiting for the electricity to arrive.

The village is not far from the national grid transmission line, but Pakistan is suffering from a crushing energy gap. In the province of Sindh, some experts estimate that there is a 1000 megawatt shortfall in energy supply, with spikes in the summer. This means hours upon hours of load shedding - rolling power blackouts - which paralyzes all activity.

The majority of men in Ishaq Jokhio are day labourers in the nearby industrial towns of Gharo, Dhabeji, Makli and Thatta. Some have even ventured as far as Karachi - an economic hub with greater livelihood opportunities than any other city in Pakistan. But life in Karachi is tough and migrant workers end up living in informal settlements, where piped water is a rarity, electricity constantly cuts out, and the living quarters are cramped and poorly ventilated. The essentials for life, especially food, are more expensive than in the villages.

Working in the coastal and deltaic region of Sindh, the Indus Earth Trust (IET) has been involved in programmes to improve livelihoods by promoting green energy. Having experimented with hybrid wind and solar systems closer to the coast, in Gharo, Dhabeji, Makli and Thatta further inland, the trust piloted mini-grids. Solar power has been a popular solution due to the low cost and simplicity of installation and maintenance. Unlike the more developed but poorer areas in urban centres where solar is seen as a backup to grid energy, solar power is the sole electrification source in off-grid areas, and it is helping light homes and streets across Pakistan.

The model is simple. Villages were selected according to a needs assessment survey, while the villagers provided the land where the 19 kilowatt mini-grids were installed, as well as their labour for the civil works. There are connections for two lights in each house, and in the village centre and streets. The project is being piloted by the Pakistan Poverty Alleviation Fund through IET. Separate meters can also be installed for those who want extra connections to run a business, and they are billed according to the units consumed. To avoid a collection system run by "outsiders", a village committee, responsible for bill collection, was formed. One technically-savvy person was taught how to maintain the grids, to wipe off moisture and keep animals away, while any complex breakdowns are dealt with by the IET engineers.

When talk started about entrepreneurship through the mini-grid in her village, Nasreen Mohammad, who grew up in Karachi, urged her husband to apply for a connection, saying she knew how to operate a washing machine and iron clothes. Now she and her husband, Saleh, run a laundry service from home. After paying for the electricity, typically around USD 8-10 per month, they still have enough, so that Saleh does not have to sell his



labour in nearby towns. Earlier, they used to spend about USD 35 on kerosene and candles.

Life has also improved for Mohammad Ramzan, who would catch a few crabs from the creek near the village and sell them on the main highway for around USD 3 a day. Now, the mini grid has allowed him to run a motor to oxygenate his catch in a tank, improving the health of the crabs so they fetch a higher price. He now has a small business, with four employees whom he pays USD 100 per month. They wash the catch, grade it and sell it - making a profit of about USD 250 per month.

In Bacho Kohli, people are now able to stay up after sunset. Children can study after dark and women can make embroidery and patchwork quilts to sell. Another plus is that street lighting makes it safer for women to go out after dark, in a region where open defecation is the norm.

The Just Light is Not Enough project was conceived with all these benefits in mind. "Human beings need electric power to be able to see in the dark, but they also need more energy to improve their lives by enabling their own work to flourish," Shahid Sayeed Khan, the CEO of Indus Earth. "We have encouraged enterprises to be formed. Businesses such as a tailoring shop, a cold drinks and milk stall, a restaurant with a TV, a bicycle repair shop, and a crab processing plant were all established in the villages. Women have opened their own tailoring shops to sell clothes to the community. It is working. People are improving their lives by their own efforts."

Slowly but surely, life in these villages is changing for the better. The biggest indication is that new houses are being built by the very people who would earlier have left in search of a better life in Karachi. When asked what made them move back, their first answer is the uninterrupted supply of electricity - a sure sign of "reverse migration" that may take the pressure off urban centres bursting at the seams. ■

Afia Salam is a freelance journalist, mostly writing on environment, climate change, gender issues and media ethics, based out of Karachi. She tweets at @afiasalam.

Alternative energy progress in Pakistan

By AMJAD ALI AWAN

Government of Pakistan is taking serious measures to harness the available Renewable Energy (RE) potential of the country to diversify its energy mix and ensure energy security and sustainable development in the country. In this regard, Alternative Energy Development Board (AEDB) is the focal agency mandated with the promotion and development of Alternative & Renewable Energy Technologies in the country. AEDB has been pursuing the development of Alternative and Renewable Energy (ARE) based power projects through private investors under RE Policy 2006. The board is also pursuing the development of bagasse based co-generation projects through the sugar mills under the Framework for Power Co-generation (Bagasse/Biomass) 2013.

On-grid project status: At present, a total of 15 wind power projects of 788.5MW cumulative capacity are operational and providing electricity to the grid. Whereas, another 9 wind power projects of 445MW have achieved Financial Close and are under construction. Similarly, 4 solar projects (100MW each) of 400MW cumulative capacity are operational and 2 solar projects of 30 MW cumulative capacity are under construction.

In addition, 5 sugar mill-based bagasse co-generation projects of 160.1MW capacity are operational and 30 bagasse co-generation projects of 1193.3MW cumulative capacity are under development. With this, the total installed capacity of RE-based power generation projects would reach up to 2626MW by December, 2018. Further, new wind power projects of approx. 1200MW capacity and solar power projects of at least 1400MW capacity each are being planned to be developed through competitive bidding by 2019-2020. Presently more than 3.0 billion dollar investment is engaged with wind energy sector of Pakistan.

Resource mapping: AEDB in cooperation with the World Bank in implementing a renewable energy resource mapping activity covering the entire Pakistan. The project is funded by World Bank's Energy Sector Management Assistance Programme (ESMAP) and focuses on the assessment of wind, solar and biomass resources, including ground-based data collection, GIS analysis, and geospatial planning. Presently Nine (9) solar data stations and twelve (12) wind masts are installed at different locations across all the provinces of Pakistan, which are supplying data continuously on daily basis.

Based upon the ground-based data received through solar data stations, the latest version of solar maps are developed first time in Pakistan. These solar maps give an overall idea of power generation potential in the country based upon solar energy resources. Regarding wind energy resources in the country, the wind data is being collected through installed wind masts and the wind maps are expected to be released by next year.

Regarding biomass resources available in Pakistan, the mapping process is completed and the Final Report Biomass Atlas of Pakistan is already released and is available at AEDB web site. Detail of the Installed Wind Measuring Masts is mentioned below:



Wind Masts Installations

S.No	Location	District
1	Q A Solar Park,	Bahawalpur
2	Gath Bairi, Sadiqabad,	Rahim Yar Khan
3	Saroba, Chakri,	Rawalpindi
4	Quaidabad,	Khushab
5	PulChakShikari,	Rajanpur
6	Kandiari,	Sanghar
7	Sataar Goth,	Umarkot
8	TanduGhulam Ali,	Badin
9	Gwadar Institute of Technology	Gwadar
10	UET Jalozei Campus,	Nowshera
11	Do Nali,	Haripur
12	BUIITEMS, Quetta	Quetta

The detail about installed solar data stations is mentioned below:

Solar Data Station Installations

Sr.No	Site	City
1	Quaid-e-Azam Solar Park,	Bahawalpur
2	National University of Sciences and Technology	Islamabad
3	Muhammad Nawaz Sharif University of Engineering & Technology	Multan
4	University of Engineering and Technology	Kala Shah Kaku
5	NED University of Engineering and Technology,	Karachi
6	Mehran University of Engineering and Technology	Jamshoro
7	University of Engineering and Technology,	Peshawar
8	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta
9	Balochistan University of Engineering & Technology	Khuzdar

Local manufacturing:

As a result of AEDB's effort for initiating indigenous manufacturing of RE equipment, M/s China Three Gorges has established a tower manufacturing facility which will be upgraded to wind turbine assembling facility in future. M/s DESCON is also manufacturing wind turbine towers. Six private companies have also established plants for assembly of solar PV panels in different parts of the country.

Solar quality and safety standards:

AEDB also took the initiative for approval of Global Quality and safety Standards and development of Operational Mechanism for restricting import of substandard Solar PV Equipment in Pakistan which is acceptable to all stakeholders at large. These solar standards are not only approved by the Government of Pakistan rather adopted as well. In this regard, AEDB with the support of GIZ-Renewable Energy and Energy Efficiency (RE-EE) Project

successfully prepared recommendations for adoption of internationally accepted IEC standards for solar PV system components. AEDB, with the support of GIZ, also prepared instructions manual for Customs officials and organized training of Customs officials on implementation of quality standards for solar equipment.

Net-metering:

Apart from large scale solar PV projects, AEDB is also encouraging utilization of solar energy technology at consumer ends across domestic, commercial, industrial sectors. As of September, 2017, more than 150 solar installations with a cumulative capacity of 4.1 MW (including the 1000 kW solar system at Parliament House) have been installed by IESCO, LESCO, MEPCO, GEPCO and FESCO through net-metering. In this regard AEDB is targeting 1000 MWp of net metering based solar installations by 2020-21 and 4500 MWp by 2025.

Activities with donors:

AEDB has been continuously interacting with international / donor agencies for activities related to promotion and deployment of alternative and renewable energy technologies and capacity building of different stakeholders. In this regard, AEDB engaged IFC, Middle East Solar Investment Agency (MESIA) and Evershed (UK based Consulting Firm) to promote solar power generation in Pakistan by attracting investment. Based upon AEDB's collaboration, International Finance Corporation (IFC) has also published a "A Solar Developer's Guide to Pakistan" in September, 2015 (Available at AEDB website).

With the support of AEDB, IRENA (International Renewable Energy Agency) is conducting a Renewable Readiness Assessment (RRA) of Pakistan. The RRA is going to be launched by December 2017.

In addition to this, AEDB together with IFC, Micro-financing Institutes, international manufacturers and local distribution companies is working on IFC Lighting Pakistan programme which aims at helping address the lighting needs of consumers and give access to low-cost, high-quality, safe, reliable, and cleaner lighting products. Presently more than 100,000 products are disseminated and more than 600,000 people are outreached through this program. In this regard the target is to enable 1.5 million people have access to modern energy services for lighting and associated services.

Investors choice destination:

The RE sector of Pakistan becomes investment destination for private investors and has attracted a foreign investment of more than US \$ 4.6 billion.

Improvement in Pakistan's international ranking in renewable energy: With the continued efforts of AEDB in last couple of year, Pakistan for the first time, was included in the top 40 globally most attractive countries for renewable energy investment as per the E&Y Renewable Energy Attractiveness Index (RECAI) issue, produced by Ernst & Young, May 2016. Based upon the latest RECA Index issued by E&Y,

Pakistan's ranking has been tremendously improved from previous 38 to present 25 number. This is strong indicator showing consistent progress of Pakistan in terms of its attractiveness for the investors in the alternative energy sector. ■

2nd Int'l Wind Energy Summit 2017

Moot to discuss wind energy potential of Sindh in November

Energy Update will organize the 2nd International Wind Energy Summit on 22 November, 2017 at a hotel in Karachi to have threadbare discussion on the vast and largely untapped potential of Sindh to produce thousands of megawatts of renewable energy using wind power.

The occasion will be also be used to discuss in details the problems, being faced by those attempting to unleash power of this clean energy resource of the province.

Likewise, the first wind energy moot, its second edition is being supported and endorsed by World Wind Energy Association, Sindh government's Energy Department, Alternative Energy Development Board, Govt of Pakistan, and similar concerned organizations of the power sector.

The summit will be addressed by renowned experts of renewable and conventional energy from within the country and abroad, representatives of companies doing projects of alternative energy, officials of different agencies and the regulator of the national power sector, and energy officials of both the federal and provincial governments.

A ceremony was held in Karachi to do launching of the 2nd International Wind Energy Summit, which was jointly organized by World Wind Energy Association and Directorate of Alternative Energy of Sindh government.

Naeem Qureshi, Chairman of the summit, informed the audience that representatives of all the concerned stakeholders whether they be the planners and executors of wind energy project, the relevant authorities of federal and provincial governments, the regulators, transmission and dispatch companies, and powers consumers would be invited to attend the summit.

The representatives of all these stakeholders would be given ample opportunity to speak at the summit and discuss issues and problems being faced by them to explore and tap vast resource of renewable energy available in the province.

Those who are likely to attend the summit include senior officials and executives of Sindh government's Energy Department, Water and Power divisions of the new Energy Ministry of federal government, National Transmission and Dispatch Company, Sindh Transmission and Dispatch Company, Central Power Pur-

chasing Agency, Water and Power Development Authority, Alternative Energy Development Board, and most importantly of National Electric Power Regulatory Authority.

Mr. Qureshi said on the occasion that being organizer and host of the event it was his effort to finalize agenda of the summit in such a manner that it would cover and encompass all issues and challenges concerning renewable energy sector of the province in an effective and conducive manner.

province to reserve land to lease out plots to private investors willing to install projects of wind power there.

Moreover, Sindh has wind resource for approximate 30,000 MWs power generation but due to wind technology's variable load factor, the NTDC's old grid is not equipped to take the variability load as the technology and equipment installed on it are not capable enough. Thus wind energy projects cannot produce more and are being heavily curtailed. For new projects the federal government is not



He said the speakers and participants of the moot would be encouraged that besides discussing problems and issues they would also share with audience of the summit feasible and long-term solutions to challenges being faced by wind energy sector of the province.

He said the solutions, which would be suggested by speakers of the conference would be recommended to all the concerned stakeholders and decision-makers both at the levels of federal and provincial governments and also be sent to the power sector regulator.

It should be recalled here that Sindh has the potential to produce 5500 Megawatts electricity through renewable sources of energy. Sindh through solar power could produce 10 MWs electricity, 130 MWs of electricity could be produced through hydropower, while 1500 MWs of electricity could be produced through burning of garbage and other such renewable resources of energy. Sindh is the first

willing to provide grid availability in advance to allow CPPA (Central Power Purchasing Agency) to provide power acquisition certificates to new wind projects. That is why the province has no new wind power coming in 2019 and or even in 2020 yet.

Some 15 wind power projects have already been installed at Gharo-Jhimpir wind corridor of the province having installed power generation capacity of 785 MWs while work is in progress on nine more such projects of wind power, which would produce 450 MWs on basis of alternative energy.

The ceremony was attended among others by Special Secretary of Sindh Energy Department Rashid Kazi, Director Alternative Energy, Sindh Government Mehfooz Qazi, Zeeshan Ashar being representative of World Wind Energy Association, Engineer Nadeem Ashraf, Ruqaiya Naeem, and a representative of the United States Consulate General. ■

Industries should have their own fire-suppression system - Fawad Barry

Karachi is most vulnerable in fire emergencies, says MD, Haseen Habib Trading

By Engr. Nadeem Ashraf



"We have to raise awareness among the industries that fire brigade is like the last line of defense for them in case they have to deal with a fire emergency. Fire brigade service in Karachi has been in serious shambles. The Rescue 1122 service reaches the troubled spot within seven minutes in Punjab and Khyber Pakhtunkhwa. While here the fire-brigade reaches in 45 minutes as till then everything would have turned into ashes. In such a situation industry owners should seriously think over the option to have their own fire suppression system..this was stated by Managing-Director of Haseen Habib Trading, Fawad Barry as the Energy Update recently interviewed him in detail. In the interview he was asked questions regarding frequent fire incidents in industrial units, commercial, high-rise buildings in Karachi and other big cities and safety measures required to prevent such instances and to minimize human and property loss caused by them.

Following are important excerpts of his interview:

Energy Update (EU): Please do comment on the situation that lately there have been several instances where high-rise commercial buildings in Karachi caught fire?

Fawad Barry (FB): The PNSC building in Karachi caught fire on a Sunday some ten years back. The Sunday is usually treated as the weekly holiday but fire has no holiday. The fire in the building should have been readily extinguished, had there been present fire fighting equipment and fire alarm system. As the incident belonged to a government agency so God knows better as whether the fire was caused accidentally or someone caused it deliberately. Then comes the recent fire incident in Awami Markaz building in Islamabad as we don't know what measures were in place to do fire fighting in a building where official records pertaining to different govt departments were kept. Now the Building Fire Codes Act has been passed as it contains seven to eight measures, which should be observed

by every building. These include presence of fire-extinguishers, fire-alarm system, fire-fighting hose reel, emergency exits, emergency response plan, presence of fire team/volunteers, or fire wardens. Then if the building is modern then it should have the system of sprinklers. Someone lately commented on my facebook account that recently two fire incidents occurred in Dubai but there was no human casualty in both the incidents. I said to him that they were a developed where human life has value whereas we have no value for human life. That is why I emphasize that buildings should have their own proper safety arrangements and there should be drills conducted on a regular basis to check physical and mental readiness of management of any building to deal with any fire emergency.

EU: Lately, there have been several instances in which industries in Karachi caught fire. In your opinion what is the basic cause behind these incidents?

FB: The basic cause behind these accidents is poor house-keeping by the industries. People used to ask us as for what reason fire is being caused, we used to respond them that there is no reason owing to which fire should have not been caused till now. The Berger Paints factory fire incident in Karachi some nine years back did shook the entire industry. Their entire industry was devastated as they moved from here to Lahore. So much unemployment was caused due to their decision to move from here to Lahore. Then comes the incident of Baldia Town factory fire on 11 September, 2012. Keeping in view all these incidents, the industry owners should seriously think over to have their own fire suppression system. We made a presentation on this concept and gave it to people associated with the SITE association and KATI. We emphasized in our presentation that industry people should go for the option of having their own fire fighting arrangement instead of looking towards the fire

Exclusive Interview

brigade for the purpose. All the risk factors related to possible causes of fire are related to poor housekeeping practices by the industries. These risk factors include unsafe storage of oil and other liquids, loose electricity wiring, lack of cleanliness measures and lack of proper dustbins at the factory premises. Then everything and every process related to the industrial activity should be eventually properly disposed of. These are several reasons owing to which fire is caused. You have to do your arrangement on your own as you have to take care well of yourself. If you do these arrangements on your own, you will get several benefits. First of all you would be able to douse fire at your premises on your own. If you are manufacturing products or goods for someone else under a contract then you would also be able to meet the prescribed client standards. You will be able to boost confidence and trust among people who work for you. Then you would be able to provide help if in case fire incident is caused in your neighbour. Then you would also get advantage related to your insurance coverage owing to such fire safety arrangements.

EU: How much premises and buildings of hotels are secured keeping in view the recent Regent Plaza fire incident?

FB: The buildings of five-star hotels are secured to a large extent owing to the reason that mostly these hotels belong to any international franchise as internationally fire fighting system is included among standards maintained by the five-star hotels. They have their own fire safety arrangements like fire alarm system, fire hose reel, and sprinklers but Hotel Regent Plaza didn't have any of these arrangements. The fire pumps of Regent Plaza were not working, its fire alarm system was not functional as it was working on a single floor only. The Regent Plaza Hotel administration had colossal responsibility as at the time of fire incident some 600 guests were sleeping there. Just over a dozen people lost their lives as thank God Rangers and Fire brigade personnel collectively did the fire fighting operation on an emergency basis. The number of human casualties should have been much higher in case Rangers and Fire Brigade didn't conduct the joint rescue operation. Regent Plaza should have its own fire fighting system. A trained fire fighting team and fire wardens should have been present at the premises where 600 to 700 guests were staying. Fire fighting equipment should have been present while the system

of fire fight drills should have been practiced there as after all such measures, a hotel should have been allowed to operate.

After the Regent Plaza incident, the government should have conducted surveys of other three and four-star hotels as notices should have been served to their managements giving them warnings to beef up their fire safety arrangements. Such steps should have been taken in a civilized society as a proper debate should be held to find out the best practices to safeguard human lives and physical property.

EU: Tell us about fire safety standards being maintained by big shopping malls and shopping centres in the city?

FB: The big shopping malls have been maintaining a very good level of consultancy regarding observance of fire safety standards. You could say that they have their own fire fighting arrangements.

Then comes the issues of old buildings and old shopping malls as we know that up to 80 per cent buildings in Karachi don't have their own fire fighting arrangements. But the buildings related to five-star hotels and new shopping malls have been observing these safety arrangements. But you have to see whether or not they have been observing the system of drills and exercises to get themselves prepared to operate these fire safety arrangements in case of any fire emergency.

EU: What about fire emergency arrangements for other high-rise buildings in Karachi?

FB: God forbids any fire incident takes place at a high-rise building in Karachi. You recently saw the incident of a high-rise commercial building on I.I. Chundrigar

Road whose 26th floor caught fire. The snorkel present with the fire brigade could maximum go to the height of 10th floor of the building. The fire brigade personnel who took part in the operation in this incident did very well as they did the daring act of climbing up the building from its 10th floor along with the fire hose to reach the place of fire. They not just extinguished the fire but also rescued the lives of four people trapped inside the building. The administration of that building didn't have any of its own fire safety arrangements. These high-rise buildings should be declared an industry so that they should do the fire safety arrangements on a compulsory basis.

EU: What are the responsibilities of the government regarding this issue?

FB: The chief minister of our province does possess multiple degrees in the discipline of engineering. The people like you and me should make him to get up and take the required measures. If he is truly an educated person then he should have the awareness about responsibilities of Sindh govt regarding this issue. The Fire Act is going to be implemented here as Sindh govt could take action under the powers given in this act. But such an action by the govt should not lead to the undesirable situation where only rates of the mandatory bribe charged by the officials got increased. The issue is very much important as it deals with the safety and security of human lives and property. The Sindh govt should find a way out to impose the compulsory regulation that a building have more than three floors should have its own fire safety arrangements as all the eight measures prescribed in the Fire Act should be duly observed by them. ■



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From Energy Sufficiency to Energy Security

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Pakistan needs \$40 billion to reduce sensitivity to climate change threats - ADB

Pakistan will need approximately \$40 billion funds to achieve the desirable level of greenhouse gas emissions during the next one and half decade, the Asian Development Bank (ADB) said in a recent report, pinpointing a strong institutional setup in the country to improve its access to global climate finance.

ADB said Pakistan is one of the countries that are most vulnerable to climate change effects, including catastrophic floods, droughts and cyclones.

"As described in its Nationally Determined Contribution to the Paris Agreement under the United Nations Framework Convention on Climate Change, Pakistan intends to reduce up to 20 percent of its 2030 projected greenhouse gas emissions, subject to availability of international grants to meet the cumulative abatement costs amounting to approximately \$40 billion," Manila-based lender said in 'Climate change profile of Pakistan'.

The Bank said Pakistan is one of the countries in South Asia where warming is

expected to remain more than the global mean "and climate change will impact the glaciers' melting rate and precipitation patterns, particularly affecting the timing and strength of monsoon rainfall."

"Consequently, this will significantly impact the productivity and efficiency of water-dependent sectors such as agriculture and energy," it added. ADB said the thermal resources-dependent energy sector is the biggest contributor of greenhouse gas emissions (GHG), accounting for nearly half of the total national GHG emissions inventory.

Hydropower resources, which supply around 30 percent of electricity, are expected to be affected by the recession of Himalayan glaciers that is the largest source of freshwater supply in the country, it added. The Bank said hotter temperatures are likely to increase energy demand due to increased air conditioning requirements. Warmer air and water temperatures may decrease the efficiency of nuclear and thermal power plant generation. The Asian Development Bank, however, recommended construction of additional water storage, diversification of energy mix including investment in renewable and small hydro-power projects, improvement of weather forecasting and warning systems, retrofitting of critical energy infrastructure, and con-

By Tariq Ahmed Saeedi



struction of dikes or sea walls. The Bank said Pakistan lacks adaptation and mitigation strategies to combat climate change threats. The country launched ministry of climate change in 2013 despite it has signed 14 international environmental commitments between 1971 and 2001. It said weak institutional setup in the country keeps its share in global climate change finance to minimal. It has only \$15 million in disbursements of multilateral finance explicitly for climate change as of 2012.

Annual global climate finance flows amounted to approximately \$331 billion in 2013, of which \$34 billion flowed from developed to developing countries. The Bank said climatic changes are expected to reduce agricultural productivity, increase variability of water availability, raise coastal erosion and seawater incursion, and aggravate frequency of extreme climatic events.

It estimated that the rise in temperature between 0.5 to two centigrades would bring agriculture productivity down eight to 10 percent by 2040. "Addressing these risks requires the mainstreaming of climate change into national strategy and policy; and climate-smart investments in infrastructure, businesses and skills," Akmal Siddiq, a director of agriculture, water, and natural resources division at ADB said in the report.

ADB said warning-driven higher evaporation rates may lead to growing demand of irrigation water and this situation is expected to bite yields of wheat and basmati rice - the two key cash crops for the agriculture-dependent economy.

The Bank advised the policymakers to develop or use crop varieties with greater heat and drought tolerance, modernise irrigation infrastructure, employ water-saving technologies, integrate watershed management, and increase reforestation of catchment areas.

ADB said climate change will also affect urban infrastructure and transport sector in Pakistan, which is the sixth most populous country in the world. "In economic terms, there are two types of impacts of extreme weather events on the transportation system," it added.

"The first is the damage inflicted upon infrastructure, such as flood damage to road, rail, and bridges. The second is the economic cost of interruptions in the operation of the transportation systems, which prevent employees from going to work; shoppers from getting to stores; and goods from being delivered to factories, warehouses, and stores." ■





Launching of CSR Awards and Summit 2018

Experts call for urgent legislation making mandatory allocation of CSR fund

It is high time that legislation like the recent one adopted in India should also be passed in Pakistan making it mandatory upon the flourishing companies to reserve at least 02 per cent of annual net profits for fulfilling their obligations under Corporate Social Responsibility (CSR).

This was one of the main demands made by speakers at a dialogue on "CSR being a driver for skill development" organized jointly by CSR Club of Pakistan and National Forum for Environment & Health (NFEH).

The speakers were of the view that without such a mandatory legislative framework, the CSR-related work being done by the corporate sector of the country could not create desired long-lasting

effects on dire socio-economic needs of underprivileged masses.

They said the federal parliament should pass such a legislation to make framework available on a nationwide basis without further delay for doing CSR-related work on compulsory basis by the private sector.

They emphasized that concerned non-governmental organizations should do active lobbying to persuade the government and opposition alike to get passed the legislation required to formalize and regularize the CSR aspect of Pakistani industrial and business sectors in the best interests of masses doing without basic necessities of life.

Speaking as chief guest on the occasion, Vice-President of Federation of Pa-

kistan Chambers of Commerce & Industry Mirza Ishtiaq Baig fully agreed to the notion that government without further delay should adopt legislation to streamline CSR-related work being done by businessmen and industrialists across the country.

Mr. Baig said the Pakistan "Make-a-wish Foundation" being managed by him was one major success story where concerned philanthropists and businessmen had combined their resources to fulfil any of the cherished wishes of the children suffering from terminal illnesses.

He said the Pakistani chapter of "Make-a-wish Foundation" had so far fulfilled 1,000 wishes of children suffering from life threatening diseases earning it a distinguished place among chapters of the foundation in several other developed



countries.

He said that in other countries, the children suffering from terminal diseases mostly wished to spend a day at such popular amusement places like Disneyland. But here in Pakistan ailing children had expressed some of the very unique wishes like spending a day at Mausoleum of Quaid-e-Azam to thank founder of the nation for creating Pakistan, spend a day at a garrison after becoming an army personnel, or become a fighter or commercial pilot.

Imran Taj, president of Fire Protection Association of Pakistan, said that his association had launched the mission of briefing people associated with industrial establishments, business houses, and educational institutions about due fire safety measures to be adopted to prevent any emergency situation at their workplaces and homes. Such due safety measures could effectively prevent any alarming situation that could endanger human lives and physical property.

He said that volunteers associated with Fire Protection Association had also started doing visits of the schools to teach children about waste management practices for ensuring good civic and sanitation conditions that could effectively thwart any potential fire emergency at their homes and school premises.

Shaikh Mohammad Zahid, CEO of Paxi Pakistan that is first women-driven and woman passenger-only taxi service in Karachi, said that his organization in collaboration with public and private sector universities had started conducting short courses for women taxi drivers of his service to make them professionally qualified for the cab service job.

He said that woman taxi drivers of Paxi service were being enrolled in short courses to properly train them to deal with medical emergencies, fire and similar emergency situations inside the taxi, and to become fully conversant with cellular phone technology so to use it for advantage of their cab service.

He said that women-only taxi service had been launched after recent credible social surveys had indicated that up to 55 per cent women in Karachi had to ride a rickshaw for their daily commuting needs despite that they didn't perceive the rickshaw driver as a trustworthy person with whom a journey could be made without any risk.

He said that working women in overwhelming number had to avail the rickshaw service on a daily basis as there was no alternative and reliable transport service available to them in the city, which could cater to their peculiar transportation needs.

Naseer Memon, general manager CSR of Engro Power Gen, said that up to 77 per cent workforce of Thar coal mining and power generation project comprised of local Thari people as massive focus had been made on education and skill development of indigenous youth population.

He said that a recent achievement of Thar coal mining project was successful completion of training of first batch of Thari woman dump truck drivers who had been trained to actively take part in the mining operation in the desert area.

He said that Sindh chief minister recently himself inaugurated the programme as he boarded one such dump truck in the mining operations area, being driven by a freshly trained local woman driver. While a local Thari girl after completing becoming a qualified engineer had also joined the Thar coal project.

NFEH President Naeem Qureshi announced on the occasion that 10th International CSR Summit and Awards would be held in Islamabad in January, 2018 where leading names of corporate, service, and industrial sectors would be properly eulogized for their distinguished services in the field of CSR.

Afia Salam, Salman Siddiqui SSGC, Anis Younus President CSR Club of Pakistan, Engr Nadeem Ashraf Secretary General NFEH, Ruqiyah Naeem SG CSR Club of Pakistan, Yogi Wajahat and others were also present on the occasion. ■

Telenor and Plan International join hands to strengthen birth registration system

Telenor Pakistan and Plan International Pakistan signed a partnership on the project "Strengthening Civil Registration of Vital Statistics (CRVS) in Pakistan through appropriate use of Digital Technologies" to digitally enhance the system of registering and certifying vital events such as births and deaths to better leverage healthcare, education, social welfare, intervention, and other programs for larger demographics.

More than 70 per cent children under the age of five in Pakistan are unregistered. This makes them vulnerable and unprotected as the birth certificate not only provides legal identity to children but also ensures access to basic rights and services including education and healthcare, share in inheritance and protection from child-labor, child-marriage and trial as adult in criminal justice system. ■

Novo Nordisk on front line for Changing Diabetes

The key to control diabetes pandemic in Pakistan is awareness. If proper awareness drives are not conducted throughout Pakistan to educate people about diabetes, by 2040, Pakistan may have the eight highest population of diabetic patients. Such high prevalence calls for continued efforts to improve public awareness regarding the disease. Therefore, in line with its commitment to improve the quality of life for people with diabetes, Novo Nordisk Pakistan has signed Wasim Akram as Brand Ambassador for Changing Diabetes® in the country. The launch of the campaign was marked at the signing ceremony held at a Press Conference in Karachi.

"We are very much hopeful that this campaign will go a long way to control the increasing prevalence of diabetes in the country by creating awareness among masses", said Rashed Rafique Butt, General Manager Novo Nordisk Pakistan.

He reiterated the need of awareness on the importance of a healthier lifestyle to curb the high prevalence of diabetes in Pakistan and shared his optimism. The Danish Ambassador to Pakistan, H.E Rolf Holmboe and Dr Abbas Raza were also present at the occasion.

While signing the contract, Wasim Akram expressed his gratitude to Novo Nordisk Pakistan for the initiative by taking a lead to promote the importance of a healthier lifestyle which is critical for diabetes management. ■



It's time to find opportunities and contribute for economy



By Engr. Asghar Ali Syed

The emerging China Pakistan Economic Corridor commonly known as CPEC is high fortune for our young generation. It will create innumerable opportunities now and in future. Global economic forecasts regarding wealth shift to Asia, inferences from international financial analysts and revolution to bright economic future of Pakistan, have brought together the most reliable friends Pakistan and China. Chinese cooperation, as always, with extensive investment in Pakistani infrastructural expansion including the Pakistani deep-water port at Gwadar will record high economic points in the history of Pakistan. It is not specific to one Project, Location, Industry, Company or Discipline. It is a group of initiatives for multi-discipline industrial growth which will offer various projects spread all over the country. Professionals in each and every discipline may have to upgrade themselves to be worthy of it for the success of CPEC and sparkling Pakistan. It is the time to find opportunities and contribute for a better Pakistan.

CPEC related projects, returns and benefits are not only related to a specific era of our country but spread over years with promising development trends and dignified strengthened survival of people & assets. However, as we are moving into the CPEC opportunities, it sometimes feels as though we are barreling into a great valley, it is green and lush but shadowed with uncertainty. It is a valley of mixed hues, fragrances and textures and we do not always know whether we should celebrate the diversity of its parts or stop at the edge and admire the whole picture, seeing how the diverse parts work together. But to our best satisfaction, David M

Darst of Morgan Stanley Chief Investment Strategist, in his lecture "The World Economic Environment: Where's the Global Capital Going", held in Karachi, said that Pakistan is located in a region that will bring major changes in the world economy in coming days due to its demographics. Therefore, CPEC and associated challenges demand to redefine our values and culture to bring change in our attitude with improved aptitude to contribute practically.

Redefining is to change the meaning of something or to make people think about something in a new or different way. As most recent and widely experienced revolution the Social networking has redefined the meaning of "friend". Now we have friends spread all over electronic networks. Science of logical analysis of the situation desires to proceed to peaks and avail opportunities bestowed upon us by the God Almighty. This directs us to go for a cultural change by redefining our way of working and dedication to fulfill responsibilities considering every venture as a project

Available funding for CPEC huge in number associated with projects, programs and portfolios is forcing us to think and act like a successful project manager in all domains of life. Organized approach must be emphasized in a culture open for growth, transparency, and respect project management as an independent domain that is critical for success. While above measures, defined very briefly, will ensure project management organizational culture for the success of any OPM (Organizational Project Management) System, these also draw our attention to implement Project Management culture across the country

treating every initiative as a project. This will create revolutions of promptness, transparency and result oriented integration of efforts. Cultural change is modification in society carried out through innovation, invention, discovery, or contact with other societies with the aim to influence cultural capital on individual and community behavior. Outcome of this change, even with high promising, is never achieved over night or over a defined period. However, its pace and momentum is in accordance with degree of commitment to achieve the focused plans.

Now motivational environment for contribution by each and every individual is the most desired attitude for creating confidence across the nation and warm desire to practically give output for timely completion of even the smallest milestone related directly or indirectly to mega initiative the CPEC. The areas, projects and disciplines have mostly been defined, might be added with time and derived as support to program are open invitation for us to find a role and play. We need project management as a skill in every industry. In view of CPEC plans, execution and success our aim is to proactively build a better-prepared workforce through academics and professional development. Following is a proposed road map to proceed. Create an impact through outreach, seminars, talks, research, teacher's education and strategic relationships of stakeholders in support of bringing project management to youth. Engage with those already in project-centered education; involve educational decision makers, institutions, industry experts and local chapters (Karachi, Lahore & Islamabad) of global bodies on project management, foster volunteering culture in professionals and teachers combined with recognition and reward to widely embark on the scheme in minimum time span, media can be motivated to act as catalyst in this cultural transformation by creating interest, recognition and public updates. One of the federal body may be assigned the role to set strategic directions for defining and coordinating implementation of project management culture across the country. This may include agreed values and vision for the future, the prioritization of programs and assign leadership in strategic manners to ensure maximum benefits from limited resources. ■



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Automobile industry is steadily progressing in Pakistan, CEO of Kansai Paints

Kansai Paints is massively participating in CPEC projects - Agha Zafar Abbas

By M. Naeem Qureshi



Energy Update (EU): Kindly give a brief history, background, basic aims and objectives of Kansai Paint?

Agha Zafar Abbas (AZB): Established in 1918 by Katsujiro Iwai, Kansai Paint Co., Ltd. has grown into Japan's largest and most progressive manufacturer of decorative, automotive, industrial, protective and marine coatings. Our coatings business serves our customers across a wide range of industries and applications, including automotive manufacturing, automotive refinish, buildings, industries, structures, ships and others. We are working to deliver shareholder value, built upon a track record of operational excellence and contribute widely to society.

Kansai is providing its clients around the world with unparalleled customer service by expanding its manufacturing, distribution, and sales activities worldwide.

Our vision and aim is to become the most sought after coatings solution provider and contribute to the society by establishing a world class institute for innovation and excellence in Pakistan.

Our company strives to contribute to the society by providing eco-friendly and value-added coating materials and services. Kansai aims to further build its credibility and take on the consultative approach by providing products

An engineer by profession, Agha Zafar has over 36 years of diversified experience working at senior operations and management positions inside Pakistan and abroad. He has received advanced training in operations, business and HR management from the Cranfield University and the Tepper Business School, Carnegie Mellon University. Before joining ICI Pakistan in 1988, Agha had worked for the National Fertilizers Corporation and The Coca Cola Export Corporation. He left ICI Pakistan in 2008 as the head of Corporate Technical & Planning to join the newly established Kansai Paint (Pvt) Ltd as its first CEO and at present he is the Chairman & CEO, Kansai Paint Pakistan and also the Chief Operating Officer, Kansai Paint Middle East. Agha is the current president of the Society of Mechanical Engineers Pakistan and Pakistan Engineering Council's nominee in the evaluation committee for "Promotion and Development of science and Technology in KPK. Agha is the board member of Public Law Association of Pakistan and a national board member of All Pakistan Business Forum.

and services that keep raising the standards of living and asset protection in Pakistan.

EU: In what manner your organization will be helpful in the efforts of the government to make Pakistan self-sufficient in the relevant industry and for sustainable development of the country?

AZB: The automotive industry has been steadily growing in Pakistan and it is a corner stone when it comes to the industrial development of our nation. Before Kansai Paint established its manufacturing facility in Pakistan, all automotive coatings and its components were imported. Such imports were a huge burden on the country's exchequer, which has been reduced significantly as Kansai took the lead to manufacture the entire range of automotive coatings in Pakistan. Moreover, this transition also involved unprecedented technology transfer to Pakistan with valuable trainings and knowledge being imparted to our employees and partners.

EU: Tell us about special features and aspects of your products in terms of annual turnover, industrial growth?

AZB: Kansai Paints are manufactured and engineered under technology intensive and sophisticated processes,

conforming to widest range of international standards. We are the technology leaders and the only manufacturers of CED automotive coatings. We offer an enhanced coatings portfolio by providing solutions for metal protection, concrete protection, waterproofing, road safety markings, fire retardant coatings and materials among other unique technologies to cater for various needs and requirements of our customers. Kansai uses the expertise of internationally trained professional chemists, engineers, and technologists equipped with state of the art application techniques and equipment.

EU: Tell us about present and upcoming activities of your organization?

AZB: We have been working on various projects not only to serve the immediate needs of the customers but also to raise the standards in Pakistan. In order to create public awareness about the safety features of fire retardant coatings and their benefits in safeguarding precious assets and human lives, our company organized two seminars during the month of April in Lahore and Karachi respectively. The seminars were held as part of company's corporate campaign to raise awareness on the role of protective coatings; in particular, the fire-retardant coatings' functionality in protecting buildings and saving precious lives in the events of fire outbreak.

We aim to organize more seminars related to metal and concrete protection systems along with road safety markings in our bid to protect valuable assets and save precious lives using appropriate coating solutions. In order to stress on creating and maintaining the quality of Human Resources that impacts the business performance, Kansai Paint actively participated took part in a summit in focused to manage human resource in VUCA (Volatile, Uncertain, Complex, and Ambiguous) times, a forum held in Lahore on 4th May 2017.

EU: What are the methods and systems being used by the Kansai Paints for socio-economic uplift and development of the areas and in its surroundings where it does its core production activities in the country?

AZB: We highly focus on the social and economic development of the society and are always willing to take part in community development activities. All the Sundar Industrial Estate street signs have been renovated by Kansai to facilitate and ensure acute signage communication. We



complement this by investing in plantation apart from playing a vital role for maintaining community's parks. Against a small portion of paint supply, Kansai Pakistan has produced an ever lasting impact that is beyond measure, by being an integral part of creating a mosque for the Sundar Estate. Furthermore Kansai adds colors to the life of community by recolonizing various water tanks across community.

EU: What is the role of your company in environment and CSR activities?

AZB: Building on a foundation of sustained growth through sound business activities, Kansai Pakistan is working to realize its corporate social responsibilities with a strong sense of awareness of compliance and risk management, and through product creation and activities that emphasize environmental preservation.

Kansai Pakistan continues to contribute to the society by conducting regular Corporate Social Responsibility activities. Since 2010, our Company has been contributing to the running of the Fukouka

School, a school for mentally disabled children, besides providing free paints to a number of other educational institutions and public buildings from time to time. Kansai also sponsored a wall painting competition in Ameer Ud Din Medical College and supplied paint along with paint accessories to equip the participating students to produce expression through colors. We have also holistically extended our financial assistance by providing medical support to the under privilege segment of the society with the help of Transparent Hands.

EU: What is significance and role of Kansai Paint in fulfilling economy growth of Pakistan?

AZB: Our products in the Automotive OEM and refinish businesses meet the most exacting standards for rust prevention, longevity, durability and color. By encouraging our customers to expect more, backed by innovation and active collaboration our focus remains to reduce life cycle cost for our business partners.

Apart from facilitating the automotive sector, Kansai has played a huge part in enhancing safety for the road users by providing more effective and durable road markings. Kansai Paint is now accredited to be the first paint company in Pakistan to have marked the entire M2 Motorway (Lahore-Islamabad) in a record amount of time supplying a comprehensive range of road safety solutions including Cat eyes, Gantries, Signage, Road repairs, Crack sealers, Asphalt sealant and Rumble strips. We as a national all understand the significance of CPEC for the future of our nation. Kansai Paint is honored to play its part in the development of Pakistan by participating in almost all of major CPEC energy and infrastructure projects including construction and commissioning of Power Plants and building and upliftment of the roads and communications network. ■

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7th Fire Safety & Security Convention & Awards 2017

Fire Safety Provisions of recently adopted Building Code of Pakistan should be strictly and uniformly enforced across the country: Speakers



Information Minister for Human Resource, Transport and Information Syed Nasir Hussain Addressing at 7th Fire Safety and Security Convention. President NFEH M. Naem Qureshi, President FPAP Imran Taj and others also seen in the picture

There is a need to strictly enforce on nationwide basis without any relaxation the Fire Safety Provisions given in the recently adopted Building Codes of Pakistan as the only way out to avoid and effectively tackle and combat fire emergencies for occupants of high-

rise, commercial buildings and industrial establishments across the country.

This is one of the consensus opinion emerged during the day-long proceedings of 7th Fire Safety and Security Convention held at a hotel of Karachi on 17 October, 2017. The National Forum for

Environment & Health (NFEH) once again combined its resources with Fire Protection Association of Pakistan (FPAP), All Pakistan Private Security Agencies' Association of Pakistan, and many more likeminded organizations and institutions to yet again materialize the moot, which has now become an annual feature.

The NFEH and its partner organizations were once again able to assemble under one roof the best of minds in the arenas of industry, public and private sectors, fire fight and safety, and concerned civic and municipal agencies to discuss thoroughly the much-neglected topic of fire protection in the country having great socio-economic importance.

The speakers of the moot during its different sessions lauded the last year's adoption and enactment of Building Code of Pakistan by federal government in collaboration with Pakistan Engineering Council and other concerned organizations. They said that such uniform, up-to-date, and thorough procedures and instruments were required on nationwide basis to avert fire emergencies and tragedies causing



Group photo of 7th Fire Safety Award 2017 winners along with the chief guest and organizing committee members



Syed Nasir Hussain Shah, Sindh Minister for Labour, Human Resource, Transport, and Information; Mirza Ishtiaq Baig, VP FPCCI; Mufassar Malik, President - Karachi Chamber of Commerce; Dr Muhammad Masood Rafi, Professor NED University; Babar Khan, Chairman, F.B Area Trade Association; Gulzar Firoz, Chairman Environment Committee, FPCCI; Fawad Barry, MD, Haseen Habib Trading (Pvt.) Ltd; M. Imran Taj, President -FPAP; Tariq Moin, Gen. Secretary, FPAP; M. Naeem Qureshi, President, NFEH; Faiz Ahmed Bhutta, Fire Consultant; Khalid Nadeem, Adviser K-Electric Ltd.; Maj. Hassan Qureshi, Security Expert; Wasif Laeeq, Orient Energy; Engr. Nadeem Ashraf, Project Head and Saeed Ahmed Jadoon, Sr. Fire Officer, KPT.

human casualties and colossal loss to the national economy alike.

They emphasized that strict and thorough investigation using modern forensic methodologies should be done to do root-cause analysis of major fire incidents in the country causing widespread loss of human lives and material destruction.

Through such thorough investigation the relevant authorities and civic agencies would be in the best position to avoid such tragic mishaps in future.

The speakers said that labour safety laws should be strictly observed to ensure safety of labourers at their workplace given frequent incidents of fire emergencies in industries in major cities of the country. In this regard, the provincial Labour Department and concerned civic agencies have to play a pro-active role.

The speakers on the occasion emphasized that industrialists and businessmen had no option other than to do proper investment as per the industrial and labour safety laws to safeguard lives of their labourers at their workplace against any fire or similar industrial emergency. They said that industrialists constantly refraining from fulfilling their obligations in this regard should face strict action of the govt and state's authorities as per the law.

They emphasized that a city like Karachi having population of around 20 million and being the hub of industrial, economic, and industrial activities in the country should require a much stronger, alert, and reinforced fire fighting system and fire brigade department that has

severely been lacking at present. For the purpose, both federal and Sindh governments should provide support to the cash-strapped Karachi Metropolitan Corporation under whose control the city's fire brigade department is being run. The fire fighters should be given proper training, required gadgets, equipment, technology and other materials so that they could discharge their duties in best of the manner without unduly putting their lives in danger.

Sindh Minister for Labour, Human Resource, Transport, and Information was the chief guest at the concluding session of the moot.

Speaking on the occasion, Sindh Information and Labour minister conceded that Provincial government's Labour Department did show negligence in the past owing to which incidents occurred, which gravely endangered lives of labourers in industries of the province.

"But rest assured things are bound to change in near future as the government

has started visiting the industrial units on a regular basis, issuing warning letters to negligent industries whereas strict action would be taken against officials of the department who have not been performing their duties," said the Sindh minister.

The provincial minister said that slackness on the part of authorities concerned led to such undesirable circumstances under which industrial accidents take place in the past. But the Provincial Labour Department had now complete resolve to fully implement labour safety laws in industries through constant process of strict inspection.

He said that a recent step to ensure safety and security of workers and labourers at their workplace was taken when the last meeting of Sindh cabinet on 05 October, 2017 approved the proposed Sindh Occupational Safety and Health Bill-2017.

He said the proposed bill would be presented in the upcoming session of



Event Report

Sindh Assembly for passage.

He said that Sindh government for the first time in the country was going to convene a tripartite conference having representation of the industries' associations, industrialists, the government, and labourers to discuss issues related to safety and security of labourers at industrial units as per standards of the International Labour Organization (ILO).

He said that provincial government had been doing its best to provide complete financial assistance package to victim families of 2012 Baldia Factory Fire incident to the complete satisfaction of ILO and other concerned international labour agencies.

The Provincial Labour minister said that Sindh government had started the process of procuring new fire engines one each for every industrial estate in the province as the concerned association of every industrial zone had assured the govt to fully meet the expenses related to operations and maintenance of the fire engines.

He said it was the shared responsibility of everyone whether the government, Labour Department, municipal agencies, non-governmental organizations, associations of industries, or industrialists themselves to ensure complete safety and protection of labourers.

He said that Sindh government would provide utmost financial and technical assistance to KMC to strengthen and reinforce the city's Fire Brigade Department while for the very purpose the provincial authorities would soon procure a snorkel of the required length to tackle fire emergencies at high-rise buildings in the city.

Earlier in his remarks, President of Federal B Area Association of Trade & Industry M Babar Khan said that officials and inspectors belonging to Labour Department and Civil Defence Organizations had no interest in inspecting the industries for any bona fide cause other than minting money from the industrialists.

"I myself urged several times the inspectors of Labour Department and Civil Defence to conduct emergency drills for labourers of my factory but they never showed up

again to conduct any practical exercise," he said.

He said the Labour and Civil Defence Departments should be purged of corrupt practices, which had become rampant so that they could play their due part for safety and security of labourers at their workplace.

President of Karachi Chamber of Commerce & Industry Muffasar Atta Malik lamented that local government agencies lacked fire fighting resources to such an extent that the city's authorities could not handle two major fire incidents at a time.

He said that there should be a functional fire station for every group of 100,000 people in the city. Instead of having 150 fire stations the city has been doing with mere 15 fire stations, said the KCCI president.

He said that once 70 fire tenders had been available to city's fire brigade whose numbers had now been reduced to mere 14 while only two snorkels were available to do fire fighting operation at the ever increasing high-rise buildings in Karachi.

He said that KCCI was ready to provide a platform to the concerned government agencies and industrialists to sit together and mutually review fire and other emergency safety measures in industrial units of the city.

Vice-President of Federation of Pakistan Chambers of Commerce and Industry Mirza Ishtiaq Baig said that fire fighters who lost their lives in the line of duty should be formally declared heroes and martyrs of the nation while the government should announce gallantry awards for them.

President of SITE Super Highway Association of Industries Dr Kaiser Waheed lamented the situation that industrialists had to look towards the provincial government for doing fire fighting arrangements as the relevant municipal agencies had completely failed to discharge their responsibilities in this regard.

Prof Mohammad Masood Rafi, chairman of Earthquake Engineering Department at NED University of Engineering & Technology, said that due safety measures were not being adopted in compliance of the building codes while constructing commercial and residential buildings in Karachi.



7th Fire Safety Awards 2017 Winners

He said the authorities concerned had yet to take compulsory emergency prevention steps despite that every year on an average 15 people died and property and material losses to the tune of Rs 14 million incurred due to frequent fire incidents in the city.

He said that a fire incident in a populous area like Gulshan-e-Iqbal in the city could spread like a wildfire and could engulf a number of buildings as a chain reaction within the span of few hours if the fire was not contained in the earliest possible time through due emergency and fire fighting procedures.

Fawad Barry, managing-director of a fire safety consultancy firm, said the large number of buildings in a posh area in the city like DHA lacked any emergency exit as special metallic staircases could be used to create provision of emergency evacuation for occupants of such buildings.

He said that every industrial units should install its own fire suppression system with all safety measures including emergency drills on a regular basis for its workers while always considering that the fire brigade was the last line of defence in case of fire situation at any industry.

President Fire Protection Association of Pakistan (FPAP) Imran Taj said the fire protection association had been doing its best to improve situation of fire safety measures at industrial concerns across the country.

Khalid Nadeem, vice-president FPAP and Fire Safety Advisor of K-Electric, said that data compilation and thorough investigation had never been done in Pakistan to ascertain the exact root cause of any major fire incident as the oil tanker explosion in Ahmedpur Sharqia in South Punjab was the latest instance in this regard.

He said that fire safety provisions given in the recently adopted Building Code of Pakistan should be duly observed for constructing new buildings in the country.

Gulzar Firoz, chairman of FPCCI Standing Committee on Environment, said that industrialists should beef up the



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fire fighting and safety systems and provisions at their industrial units to fully safeguard human resource employed by them.

He said that there should be no negligence in doing investment by the industrialists for this very valid and important cause related to lives of labourers.

NFEH President Naeem Qureshi said that NGOs like the one being run by him would continue to provide platform to hold such useful dialogues on important and unresolved civic issues of the country.

Some 30 companies were given Fire Safety Awards on basis of best fire safety and protection measures at their offices, public outlets, and industrial establish-



Dr. Murtaza Mughal

ments. Sindh Information and Labour minister gave away the awards to the winning companies. ■

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IIL providing import substitution to the local industry - Mohsin Safdar

An exclusive interview with Executive Director International Industries Limited

By W. John Richard



EU: Please provide us your profile in detail including your education background and professional experience. Also highlight the company's achievements?

MS (Mohsin Safdar): My qualification includes a degree of Masters of Science in Manufacturing Engineering from the City University, London followed by a Post Graduate Diploma in Business Administration from Institute of Business Administration (IBA) and a Certified Director's Course from Pakistan Institute of Corporate Governance. I started my professional career as an Asst. Engineer working for Pakistan Cables in the year 1980 for around 18 years and thereafter I joined International Industries Limited (IIL) and now I am currently serving as the Executive Director of IIL. Since the company's inception, it has been achieving its strategic objectives by consistently focusing on the ethics, governance, quality, integrations and diversification and having sustainable business practices. The company has been part of several achievements some of which includes: Penetration into international markets, incorporation of International Steels Limited in cooperation with Sumitomo Corp. and IFC, incorporation of IIL Australia Pty Ltd and IIL Stainless Steel Pvt Ltd, inauguration of 15-acre facility in Sheikhpura, introduction of large diameter tube mill for Hollow Structural Sections and API line pipe up to 12", commissioned 1600 mm HDPE extruder allowing IIL to produce the largest HDPE pipe in Pakistan, inauguration of PPRC pipes and fittings factory in Sheikhpura, largest single order of API line pipes in Company's history.

EU: Being a leader in the pipes industry, please tell us about the challenges & issues your company is facing in the sector?

MS: IIL is the largest manufacturer of pipes & tubes in Pakistan with production capacity of 750,000 tons. IIL, the leader in pipes industry is challenged by its competitors with factors like non-compliance to international standards, non-governance and unethical practices with respect to their products and contribute to the government exchequer in form of taxes. It should be noted that the consumption of steel in Pakistan is around 45 Kg/capita as against the world average of 208 Kg/capita with countries like South Korea is consuming 1,130 Kg/capita which is why it is difficult to achieve economies of scale resulting

in higher costs and lower profit margins.

EU: Do you think the government policies are favorable for your business sector?

MS: In order to support the industry, the government has to be more proactive in developing and implementing the policies related to steel industry and exports.

EU: How do you feel of IIL is successfully contributing to the construction industry?

MS: IIL is the pioneer in pipe manufacturing industry having local production in the country catering to a larger set of customers who are actively involved in shaping the building & construction industry. IIL is continuously investing in technology adaptation which helps in the manufacturing of quality products complying to international standards. The company supports the local industries including automotive, furniture, oil and gas, water and power and building and construction etc, with import substitution by providing pipes and tubes to international standards. With the launch of our product IIL Hollow Structural Sections (HSS), the company is actively engaged in promoting the usage of steel structures in Pakistan which have a multitude of versatile applications for the building and construction industry.

EU: Please tell us about the environment & CSR activities and contributions by your company?

MS: IIL contributes approximately 2.5% towards the Corporate Social Welfare schemes and community investments which includes two primary schools with TCF, a clinic with SINA and a mosque close to our factory and also has focus towards rural development programs and national cause donations. Some of the causes include SIUT, Indus Hospital and Bait-ul-Sakoon Cancer Hospital. Towards rural development, we provide donations to LRBT and Al-Rehmat Hospital in Pasrur and water hand pump in Tharparkar. Furthermore, IIL has several certifications under its name including ISO14001 and OHSAS 18001 which pertains to Environment Management System and Occupational Health and Safety Management System respectively. It is an eco-friendly organization which manages energy conservation, recycles and implements use of less paper and processes steel which is an eco-friendly material and can be recycled. ■

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Small screen, big scream

50 years of television in Pakistan, 1967- 2017

By Javed Jabbar

With round-the-clock, rush-to-screen images and sounds which invigorate the public sphere but also often mesh information and entertainment into discordance, TV in Pakistan completes half a century in 2017 with some stellar accomplishments and abject failures. In an era when socio-economic fissures intensify and technologies make rapid advances, new media economics hint that the next half century will bring radical changes to how the TV medium will distribute its message.

Viewing on smart-phones has already leaped up. TV intrusively determines content -- because news TV has become the big gallery to which the aggrieved public, politicians, lawyers, judiciary, armed forces and the private sector play and posture. Social media frequently overtake TV. While the TV medium -- and the media -- virtually become the message, the media themselves accept no responsibility for framing messages. By inane, prolonged repetition of images and words, news TV devalues its inherent capacity to enrich public knowledge. It magnifies and promotes the trivial to a scale undeserved by the subject. Fortunately, the non-news channels, global, national and local, state and private, periodically offer material that richly educates and entertains. The evolution of TV in Pakistan over a 50-year period, 1967-2017, can be divided in two parts.

Part I: 1967-2002 when Pakistan Television Corporation was the principal state monopoly. Prior to Part I, there was a 5-year period when pre-PTV entities provided limited signals. Part II: 2002-2017, when privately-owned channels came into operation under PEMRA-issued licences. Currently, there are 88 channels, including about 40 news channels.

Within Part I, there was subdivision. The first ten years, 1967-1977 were so distinctive that even PTV could not match them in the next forty. With dynamic mobilization of a wide range of talent, imparting training and skills development to hundreds, introducing innovative programmes, presenting for the first time a vivid daily portrait of the country's varied and vibrant people, PTV's first decade is aptly deemed the golden decade. 1990 onward up to 2002, the original monopoly was partly diluted. Shalimar Recording Company, in which the

Government of Pakistan holds 56 per cent shares, was permitted to install terrestrial transmitters and re-telecast CNN to Pakistani audiences, Shalimar was also allowed to sell its non-news/current affairs time to a private party, NTM, ignoring conflict-of-interest dimensions as NTM was aligned with an advertising agency. The SRC system is now leased to ATN.

The 2002-2017 phase represents a dramatic shift from one extreme of pure state monopoly to another extreme of private excess. The past 15 years have seen a phenomenal growth of private investment in TV and FM radio channels; creation of thousands of new job opportunities; training of manpower (with some noticeable exceptions!); provision of multiple choices to audiences; increased range of language options; expansion of political and public discourse to become far more inclusive of diverse partisan viewpoints than it had generally been during PTV's news monopoly; exposes of bad governance; improved presentation; occasionally well-written, directed and acted teleplays

and serials; audacious caricature and satire. Yet breadth of choice is not accompanied by a proportionate depth in substance. There is proliferation without purpose, abundance without nuance, articulation without introspection. If the state channel has a pro-government bias, many private channels, subtly or crudely manipulate their content, project their own biases and imbalance.

An obsession with events and incidents prevents examination of themes and trajectories, legitimizes sheer laziness under the mask of chasing the "news". Perhaps worst of all is the willful neglect of aspects of culture such as literature, classical music, painting, sculpture, theater while fashion shows, pop music and cricket become more sponsorable content. Based on a flawed revenue model of total reliance on income from advertising, private channels are infested by the virus of commercialism and cut-throat competition for ratings. This has led to a dumbing-down of the standards of debate and decorum in talk-shows. The valuable content-form of the carefully-researched, thoughtfully reflective film or TV documentary has almost disappeared. To be replaced by snappy "sorts



by snappy "sorts", "sound-bites" or "capsules" which are mostly superficial or sensationalist. Audiences are being brain-washed and conditioned with a surplus of conjecture, invective, mid-breaks, breaking news and futile frenzy. Attention Deficit Disorder is now a new ailment, compounded by channels, and by cell/smart-phones.

Thus, over-all, evolution has proved to a mixture of trail-blazing pioneerism (by both PTV and private channels at different times) as also merely imitative me-tooism, of a purposeful state role both at the outset in 1967 and in creating a turning point in 2002 when the state voluntarily ended its monopoly. There is also an unseemly, unpleasant acrimony between some private channels. This conflict further falsifies the myth of self-regulation which is actually a mask for self-interest. For a sector that speaks loudest about transparency and accountability, there is little or nothing of either about the financial aspects of TV channels, about actual revenue, sources of advertising incomes and rates (except for the sole publicly-listed Eye TV / Hum TV). While as private limited companies, all are obliged to file annual data with SECP and/or PEMRA the public at large remains completely uninformed about possible conflicts-of-interest, questionable practices, et al.

Official regulation of private channels through the Pakistan Electronic Media Regulatory Authority (PEMRA) is marked by some creditable work in difficult conditions, indiscriminate issuance of licenses with financial elements of eligibility receiving far more weightage than the professional credentials of applicants, using license and renewal fees to unduly accumulate income; attempts at strict enforcement of codes and rules often paralyzed by High Courts too ready to grant stay orders that stay in place for years, instead of weeks; anarchy in the sub-sector of religious channels that commenced without licenses and have become untouchable for the wrong reasons; an inordinately large number of channels created by the blunder of permitting each of the 3500 or so cable distributors to operate 5 of their own content channels resulting in about 16,500 channels (?!) --- with rampant

piracy of Hollywood/Bollywood content, and fragmentation of audiences; and lack of true independence as a regulatory body from state and government.

But when the present is too much with us, we owe the past a visit. And in PTV's case, the past is still present. PTV's first fifty years are a panorama of progressive change and regressive stagnation, of some promises fulfilled and enormous potential still unrealized. As the electronic visual gazette of the Pakistani state, PTV is a significant part of the country's media history. From official documentarist to formal witness of public events to the promoter of an aspirational national singularity PTV is a day-to-day recordist as well as an unrivaled decade-to-decade archivist of the country's evolution over half a century. Several individuals made outstanding contributions to the evolution of TV in Pakistan. Headed by Aslam Azhar, whose exceptional gift for leadership this writer calls "createlevity", this list includes several others who rarely appeared on-screen and were in some cases, also well-known but highly deserve being named here. Exclusions are only due to space limitations or inadvertence. Dozens of already well-known, on-screen persons are deliberately excluded.

Programme concepts, production, direction: Agha Nasir, Zaman Ali Khan, Fazal Kamal, Akhtar Waqar Azim, Kunwar Aftab Ahmed, Ishrat Ansari, Mohsin Ali, M. Nisar Hussain, Zaheer Khan, Shirin Khan, Shahzad Khalil, Muneeza Hashmi, Sultana Siddiqui, Yawar Hayat, Shoaib Mansoor, Amir Imam, Khawaja Najmul Hasan, Farooq Qaiser. News, current affairs, Sports: Burhanuddin Hasan, Zubair Ali, Muslehuddin, Farhad Zaidi, Athar Waqar Azim, Zaheer Bhatti, Tashbihul Hasan, Iftikhar Ahmed. Engineering: Nazir Warraich. Set design: Jamil Afridi, Shahbaz Ahmed. Finance: Muteer-ur-Rahman Mirza. Marketing, sales: Shanul Haq Haqqee, Ziauddin Jeddy).

PTV continues to enjoy the unfair monopoly of being the sole recipient of TV license fees. Automatically added to electricity bills, the license fees subsidy contributes between 65 to 70 per cent of total revenue. The corporation also receives annual allocations under the Public Sector Development Programme (PSDP), not always fully utilized. But it likes to have its cake, and eat it too. Benefiting exclusively from the license fees, PTV also competes with private channels for commercial advertising revenue (unlike BBC within the UK which is the sole recipient of license fees but does not accept advertising).

This writer began his relationship with

TV as a sceptic who soon converted willingly into a free-lance contributor. In the different contexts of association for over 50 years, as viewer, independent content-provider, advertising practitioner, legislative monitor, public-interest litigator, cabinet minister-cum-media policy-maker in 3 governments and drafter of the EMRA (1997), RAMBO (2000, which became PEMRA in 2002) ordinances, media critic, Supreme Court-appointed mediator, and Member of the SC-appointed Media Commission, one has had the privilege of a close, continuous nexus with this mass medium from several perspectives.

Four conclusions emerge One: That in the swelling crowd of channels there is still not a single authentic public service broadcaster, independent of government and independent on advertising. Two: That substantial, long overdue reforms for PEMRA, PTV, private channels and advertising should be conducted by Parliament, Judiciary, Government, advertisers, civil society and media/TV channels themselves. Many such proposed reforms await action through the Media Commission's Recommendations pending with the SC since 2013. Three: That the basic policy changes one introduced as a cabinet minister in 1988-89, 1996-97, 2000 became as transient as personal tenures or governments because most could not be made structural and institutional, often due to reluctance at the highest level.

Except for the eventual enforcement of PEMRA in 2002 but, alas, with mis-steps. Such as permitting unchecked cross-media ownership, etc.

Four: the more one studies the ambivalent role of TV, the more one returns to the scepticism about this medium which one began with. In other words --- when the more things change, do they remain even more the same? ■



PPL AGM approves 60 percent cash dividend



Pakistan Petroleum Limited (PPL) has declared an after tax profit of Rs. 36 billion, more than double compared to last year. This was informed at the the 66th Annual General Meeting of Pakistan Petroleum Limited (PPL) held recently at a local Hotel, Karachi.

Chairman, Board of Directors Abid Saeed presided over the proceedings, where members approved financial statements for the fiscal year ended June 30, 2017 together with the auditor's report thereon as well as final cash dividend of 60 percent on ordinary shares.

Presenting the year's overview, MD and CEO Syed Wamiq Bokhari shared

PPL's outstanding performance, notably a profit after tax of Rs. 36 billion, more than double compared to last year.

Speaking on the ongoing dynamic exploration and development strategy, Bokhari pointed out that a record 43 wells were drilled in operated and partner-operated assets while deploying highest-ever 13 rigs operation with remarkable reduction in drilling time and cost.

Focussing on business operations, Bokhari highlighted PPL's efforts in production enhancement, which crossed the 1 Bcfde-mark in 2016-17, leading to 8 percent growth over the previous year, besides 108 percent reserves replacement.

He also spoke on the company's resolve for improving quality of life for deserving communities through a result-oriented and participative CSR programme and continued investment in building staff capacity for adopting emerging E&P technology as well as nurturing new talent for industry.

Looking ahead, Bokhari said that PPL will continue to fast-track production from new discoveries and enhance output from mature fields. To this end, he mentioned drilling additional wells in frontier areas to achieve 100 percent reserves replacement as well as deployment of tested technologies in tight gas. ■

Pakistan's green energy will reach 2,626MW in 2018

Pakistan's production of Renewable Energy (RE), also known as green energy is increasing with every passing day and its total installed capacity of Renewable Energy (RE) would reach up to 2626 MW by December, 2018.

"In addition, 2,600 MW would be added by 2019-20 with new wind power projects of 1200 MW capacity and solar power projects of around 1400 MW capacity each are being planned to be developed," Amjad Ali Awan, Chief Executive Officer, Alternative Energy Development Board (AEDB) told a group of journalists who were on visit at Jhimpir wind power projects based in Sindh's Thatta district.

AEDB is the focal agency of Federal Ministry of Water and Power mandated with the promotion and development of Alternative & Renewable Energy Technologies in the country. Awan said Pakistan was taking serious measures to harness the available Renewable Energy (RE) potential of the country to diversify its energy mix and ensure energy security and sustainable development in the country. "RE sector of Pakistan becomes investment destination for private investors



and has attracted a foreign investment of more than US 4.6 billion," he added.

He claimed that with the continued efforts of AEDB in last couple of year, Pakistan for the first time was included in the top 40 globally most attractive countries for renewable energy investment as per the E&Y Renewable Energy Attractiveness Index (RECAI) issue, produced by Ernst & Young, May 2016.

"Based upon the latest RECA Index issued by E&Y, Pakistan's ranking has been tremendously improved from previous 38 to present 25 number. This is strong indicator showing consistent progress of Pakistan in terms of its attractiveness for

the investors in the alternative energy sector," he added.

Awan informed that AEDB in cooperation with World Bank is implementing a Renewable Energy Resource Mapping activity covering all of Pakistan. The project is funded by World Bank's Energy Sector Management Assistance Program (ESMAP) and focuses on the assessment of wind, solar and biomass resources, including ground-based data collection, GIS analysis, and geospatial planning.

Based upon the ground based data, the latest version of sole maps are developed first times in Pakistan. These Solar maps give an overall idea of power generation potential in the country based upon solar energy resources. ■

Logical Statements

Chhoti si Fish ne Apni Maa se Poocha : Hum Paani mein kyon rehte hai, zameen pe kyon nahi rehte? Mummy Fish sweetly replied: Hum Fish hai isliye Paani mein rehte hain, Zameen par to sab "selfish" rehte hain!!!



Where is Pakistan in Net-Zero Energy? ask experts

By Shazia Hasan

About 90% engineers in Pakistan don't even know about net-zero energy buildings," said engineer Pervez Sadiq of Shehri during a seminar on 'Net-zero energy buildings - a necessity' organised by Shehri-Citizens for a Better Environment in Karachi recently.

"Net-zero energy buildings are those which use the energy they themselves produce. Other countries have been working on such kind of environment-friendly structures and have set targets. The question is: where is Pakistan when it comes to net-zero energy buildings?" he asked, setting the mood for the speakers to follow. Discussing the idea, Prof Rizwan Farooqui of the NED University said buildings in old city areas were energy-efficient, but modern buildings did not have that quality. He said that we should also think about 'smart' buildings where the buildings were intelligent enough to know where lighting, air-conditioning or



heating was required. He said that the buildings should be able to generate their own energy using renewable sources. "Energy-efficient buildings might increase the cost initially, but the returns will be very high," he said.

Architect Ejaz Ahed, meanwhile, said that the issues of energy efficiency and conservation were more ethical than technical. "The buzzword when thinking zero-energy buildings should be 'passive'," he said. "We should come up with passive solutions such as wind-controlled energy, brick walls, green cover, recycled water, etc.," he added. Rashid Hussain Qazi,

Special Secretary Energy Department, said the provincial government planned to make all government buildings including hospitals, schools and the Sindh Assembly building net-zero buildings. Faisal Ahmed, General Manager, Energy Conservation, K-Electric, said that his department's work involved creating awareness of energy conservation and taking practical steps to get to the solutions.

Sauqib Ejaz of Environmental Management Consultants, Pakistan, said that the success of a net-zero energy building depended on its size and the area it had been built on. "Ground plus two is doable, but ground-plus-15 storeys or higher is not so simple," he said. "Also, in Karachi, we are taking over our green cover to build buildings there. So what about the carbon dioxide emissions?" he asked. Karachi would become uninhabitable if its citizens did not clean up their act and self regulate, Amber Alibhai, general secretary of Shehri-CBE, said. ■

courtesy: Daily Dawn

Nasir Shah announces Rs2.5m financial assistance for EFP

Successfully concluded Stakeholders' Dialogue on Multinational Enterprises & Social Policy (MNE) Declaration and EFP's National Business Agenda 2018-2023 called upon business particularly the multinational, large and SMEs companies to capitalize on opportunity to adopt socially responsible employment practices in line with the principles of the MNE Declaration to attain sustainable growth and economic development in Pakistan. With the technical assistance of International Labour Organization (ILO) Country Office Pakistan, Employers' Federation of Pakistan (EFP) successfully completed Stakeholders' Dialogue on EFP's National Business Agenda and Multinational Enterprises & Social Policy Declaration (MNED). Two hundred plus (200+) participants and the representatives of the Multinationals/brands, national companies, industrial associations, trade bodies, institutional members of EFP, some prominent sports goods manufacturers from Sialkot, eight town associations, workers, government, representatives of media, academia and civil society attended the event.

Syed Nasir Hussain Shah, Minister for Labour, Information and Transport, Government of Sindh in his speech appreciated EFP in extending full



cooperation in addressing the issues and challenges faced by business. He also hailed the positive efforts of EFP in brining business together on issues of labour and social compliance and projects being undertaken by EFP speak volumes about their commitments to the common cause for which the Government of Sindh is working. He announced the contribution of Rs. 2.5 million for helping EFP to develop the Sindhi translation of OSH module with the help of ILO-ITC/DECP. Majyd Aziz President EFP in his speech and overview and the initiative has taken to promote social dialogue bilateral interaction with the Government of Sindh regarding the issues of labour laws, raising voice on enrollment issues launching skill Pakistan agenda, launching of national business agenda, dissemination to political parties, structural changes to raise it to

the next level to combat it with the emerging challenges at local and international market. He called upon the political parties to forge unity one point agenda of economic development leaving aside their political differences and assured the support and cooperation of EFP. Ingrid Christensen Country Director ILO in her address congratulated EFP on holding very fruitful dialogue of stakeholders on MNE Declaration and express the hope that the outcome of this deliberation will provide a way forward for the project to move beyond sports goods industry and Sialkot. She also appreciated the initiatives of the EFP on promoting Decent work agenda and collaborating with ILO and sharing a new vision to the business community for taking them to the next high level of sustainable growth. ■

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Tariff Application
Power Purchase Agreement (PPA)
Energy Purchase Agreement (EPA)
Feasibility Study
Preparation of RFP Documents
Financial Modeling
Bid Evaluation
EPC Technical & Commercial Negotiations
Power Purchase (PPA),
Fuel Supply Agreements Negotiations

ENGINEERING DESIGN

Conceptual Drawings
Basic Design
Detail Design
Construction Drawing
"As Built" Drawings

PROJECT & CONSTRUCTION MANAGEMENT

Site Management
Scheduling and Budgeting
Preparation and Implementation of QA/QC Plans
Preparing HSE Manuals applicable to the construction site
Preparing Project Documentation
Punching List
Warranty Management & project progress reporting

POWER PLANTS OPERATION & MAINTENANCE

Management & Training Staff
Preparing Health and Safety Procedures
Preparing and Implementing Operating Procedures
Developing Procurement Procedures and inventory Control
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No action against lawbreakers, SEPA comes under fire

The Supreme Court-appointed judicial commission directed on Saturday the chairperson of the provincial taskforce mandated by the apex court to look into the affairs of the Sindh Environmental Protection Agency (Sepa), identify the cause of its failure and suggest remedial measures to make it a 'result-oriented' organisation.



Justice Muhammad Iqbal Kalhoro of the Sindh High Court, who is heading the judicial commission investigating the authorities' failure to provide clean drinking water and improve sanitation conditions in Sindh, gave these directives during implementation proceedings.

Earlier, the agency's assistant director-general, Syed Muhammad Yahya, filed a report. He informed the court that notices were served on 245 industrial units for violating environmental laws, while the cases of 26 units were referred to the environmental tribunal for prosecution in six months. When confronted that thousands of industries were working in violation of the Sindh Environmental Protection Act, 2014 and Sepa had been able to identify only 26 units for prosecution, the officer had no reply.

The commission was of the view that Sepa was essential in addressing the problems being discussed in these proceedings but it had not been able to perform. The report claimed that fines to the tune of Rs11 million had been imposed

on industrial units for violating environmental laws, adding that a portion of the fines had been recovered.

The petitioner, Shahab Osto, said there were 27,000 big and small industries across the province, but the agency had served notices to only 245 units. He argued that imposing a fine of a mere Rs50,000 was a mockery of the law. Industries Secretary Abdul Raheem Soomro said the federal government had promised to contribute 33% of the export development fund to the provincial government for the installation of the combined effluent treatment plant meant to treat toxic industrial waste before it is dumped into the sea. He said the matter of release of the funds was recently taken up in a meeting with the federal finance ministry, which refused to provide the funds. He said the province had once again approached the ministry of industries for this purpose.

The commission issued a notice to the joint secretary of the finance ministry to appear on the next date of the hearing along with the minutes of the meeting. A report was filed on behalf of the provincial health secretary, stating that incinerators for three out of 17 major government hospitals had been purchased for disposal of toxic and hazardous medical waste. The same are being installed at the hospitals, it added. The commission directed the Pakistan Council of Research in Water Resources authorities to visit the public hospitals to check the availability of clean drinking water and submit a report.

The Rangers law officer filed a report, maintaining that effective patrolling was being regularly carried out to check illegal excavation of sand from the riverbed of the Malir River. The focal person for the

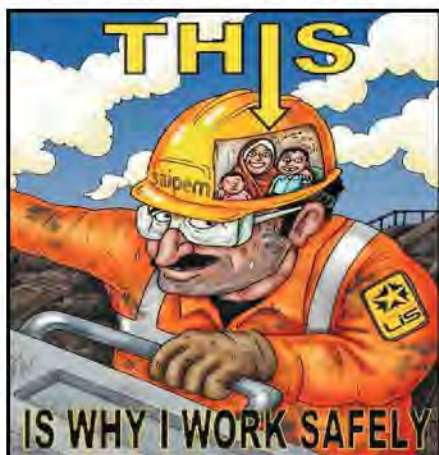
provincial chief secretary stated that the task force chairperson was abroad for training in Japan.

The commission expressed its 'extreme annoyance' at the provincial authorities for their continued failure to provide clean drinking water and sanitation in the province. It inquired from LG Secretary Muhammad Ramzan as to why the conditions were not being improved in compliance with the SC's orders. The secretary admitted that the funds shortage was not the main reason behind the poor state of affairs, adding that ineligibility on the part of the authorities was responsible. He said funds were available for the schemes meant to provide clean drinking water and improve sanitation conditions but those schemes were not being properly executed.

A senior researcher, Dr Murtaza Arain, who is assisting the commission, informed it that water treatment plants with a capacity of treating 600,000 gallons of water had been installed in Badin district, where the total requirement of water stood at 100,000 gallons. He disclosed that there were proper arrangements made to store the additional water. Justice Kalhoro came down hard on the secretaries of the LG and public health engineering departments over the poor planning in execution of the development schemes and improper utilisation of public money. He directed both the secretaries to sort out the matter and resolve it as soon as possible.

The Badin deputy commissioner assured that all the water filtration plants will be made functional within 10 days.

Justice Kalhoro remarked that none of the officers seemed ready to take the responsibility of supplying clean drinking water to the residents in the district, adding that the water supply system was inefficient and residents were not getting clean drinking water; therefore, what was the utility of the system? The commission directed the deputy commissioner to convene a meeting of the public health engineering department officers to discuss ways to supply drinking water to the residents through pipelines and reverse osmosis plants. ■



PPL signs Gas Sales Agreement for Kandhkot



Pakistan Petroleum Limited (PPL) executed a Gas Sales Agreement with Central Power Generation Company Limited (CPGCL) also known as GENCO II for sale of up to 200 MMscfd gas with 72.5 percent 'Take or Pay' commitment, from its solely-owned and operated Kandhkot Gas Field (KGF) to GENCO II's Guddu Thermal Power Station (GTPS), District Kashmore, Sindh. MD & CEO, PPL Syed Wamiq Bokhari and CEO, CPGCL Muhammad Ayub Ansari signed the agreement on October 23 in Islamabad. This agreement formalizes the increased gas supply from KGF which PPL committed to the Government of Pakistan (GoP) in September 2016. In addition to gas sales to GENCO II, PPL is also selling up to 50 MMscfd gas to Sui Northern Gas Pipelines Limited which is also supplied to GTPS. To fulfil its commitment to GoP, PPL embarked on an aggressive drilling and development programme to achieve the extraordinary feat of delivering the near-impossible target of scaling up gas sales

from around 140 MMscfd in financial year 2015-16 to 230 MMscfd by May 2017.

To this end, six development wells were drilled in record 9 months with multi-rig operation, successfully finding sweet spots in a mature field and enhancing field capacity by 90 MMscfd gas which is being delivered to GTPS.

Besides, two compressor units were added and production facilities were debottlenecked. Looking ahead, three development wells are planned to be drilled this year to maintain the production plateau. Earlier, Prime Minister, Shahid Khaqan Abbasi formally marked the exceptional production enhancement from KGF during a well-attended event hosted by PPL on October 7, 2017. PM Abbasi was highly appreciative of the remarkable endeavor by PPL for increasing gas production ahead of schedule to contribute towards meeting the demand for power generation, resulting in foreign exchange savings of \$250-300 million on gas import. ■

Ashar Haleem becomes Central Chairman of CNG body

Noted businessman of the energy sector Ashar Haleem Qureshi has been elected unopposed as Chairman of the All Pakistan CNG Association (APCNGA) for the year 2017-18.



Mr. Qureshi hails from Rawalpindi and he has been working in oil and gas sector since the last twenty years while his vision is taken seriously in the concerned circles.

Samir Najmul of Karachi has been Senior Vice Chairman of the CNG body while Syed Fiaz Gillani of Multan has been elected as Central Vice Chairman of the APCNGA.

Mr. Gillani worked hard with former central chairman Ghiyas Paracha, Muhammad Abid Hayat and Captain Shuja for reviving the CNG sector in the province of Punjab.

Speaking on the occasion newly elected central chairman Ashar Haleem Qureshi thanked all members of the body to reposing confidence in his leadership and electing all of the contestants unopposed. The CNG leader Ghiyas Paracha while addressing the AGM appreciated the retiring office bearers for their untiring efforts for keeping alive the CNG industry in very critical situations and restoration of CNG stations in Punjab. ■

Pakistan's PR Firm secure two IPRA Awards

Mediators Private Limited has won the prestigious IPRA Golden World Awards 2017 in the Healthcare - Agency - Category at a ceremony held in Sofia. The award was received by the Mediators Managing Director Dr. Samia Babar. This award is given by the International Public Relations Association - IPRA after inviting entries from all over the world. A jury of world renowned PR practitioners decides about the winners from the many entries received by them. It is the first time that there was an entry from Pakistan and we appreciate the work that is being done to eradicate a dreaded disease, commented a senior IPRA member. MPL was also honored with the IPRA Global Contribution Award. This is given annually for the campaign that best meets one of the UN's 17 sustainable development goals. The award directly addressed SDG 3 to ensure healthy lives and aligned with the goals of the United Nations, which is why it was judged a winner said a member of the jury. It may be mentioned here that IPRA is recognised by the United Nations as the PR practitioners' association. The awards were given for a courageous campaign the 'Students Movement Against Childhood Diseases - SMACD' strategised and implemented for unicef by Mediators to combat polio and childhood diseases in Pakistan. ■



@Jazeera007

Thar Foundation, STEVTA ink MoU to impart training to Thari Youth

The Thar Foundation and Sindh Technical Education and Vocational Training Authority (STEVTA) have partnered to train Thari Youth in demand driven technical trades that will have better employability in current and future mining projects in projects of Thar Coal. As per the agreement, STEVTA will train youth from the Tharparkar district, initially, in refrigeration and air conditioning trade, and the SECMC and EPTL will employ the trained human resource in the Thar Coal project at Block II.



The efforts of both the companies are being concentrated from the platform of the Thar Foundation, a non-profit established by the SECMC and Engro Powergen Thar Ltd (EPTL) for the welfare of the Tharparkar communities.

The scope of the demand-driven training will increase as per the demands put forth by the SECMC and EPTL for Thar Coal Block II projects, thus, increasing the number of trades in the training. SECMC and STEVTA have also agreed to conduct consultative sessions to finalize the curricula and modules of training, competitive faculty, and assessment of the trainees at the end of module or tenure, etc. In this connection, both the organizations on Monday formally signed a memorandum

of understanding to start the program. The MoU was signed by TF's chief executive officer Mr. Shamsuddin Ahmed Shaikh and STEVTA's Director (A&T), Mr. Liaquat Ali Jamro in presence of Syed Abul Fazl Rizvi (COO, Sindh Engro Coal Mining Company), Ahsan Zafar Syed (CEO, Engro Powergen Thar Limited), Kashif Ahmed Soomro (Director HR, Sindh Engro Coal Mining Company), Naseer Memon (General Manager CSR, PR, and Communications, EPL), Nazeer Ahmed Channa, Director Operations STEVTA), and Abdul Jabbar Junejo (Principal, Government Polytechnic Institute Mithi).

Speaking on the occasion, TF chief Shaikh said that they the training program will increase the chances of Thari youth's employability in the future coal mining

and power generation projects as well. TF will ensure its cooperation throughout the training, from invitation of applications to execution and assessment of trainees, culminating in employment of the successful candidates as per the need of the company, he added.

The first batch of the trainees will start their training in December 2017 at Government Polytechnic Institute Mithi. ■



GE unlocking the future of the power sector

Hosted by GE, the 'Transforming Power' conference brought together more than 200 global and regional energy sector experts in Dubai on Monday, October 16, 2017, to share experiences of industry-leading projects from around the world, identify the next generation of solutions to boost power sector efficiency and discuss new business models for the industry. The exclusive event was held in collaboration with MEED and highlighted trends and innovations in the energy ecosystem that can help unlock further productivity, diversification and operational efficiency in the industry across Pakistan, the Middle East and North Africa.



Khalid Mansoor, Chief Executive Officer of The Hub Power Company (HUBCO), shared his insights on Pakistan's power sector in particular at a panel discussion titled Challenges, Gaps and

Future Opportunities. "The combination of software, advanced data analytics and heavy industrial equipment is arguably the largest opportunity in front of the power generation sector today. Pakistan has been one of the first countries in the world to deploy GE's advanced digital industrial solutions for the power sector. We have adopted these solutions at two of HUBCO's power plants as well and already started to see benefits in terms of reduced unplanned downtime, lower maintenance

costs and fewer emissions," he stated.

Joseph Anis, President & CEO of GE's Power Services business in the Middle East & Africa presented big shifts and macro-trends shaping the energy sector in the region. "Despite the evolving economic environment, we see an intense appetite for innovation and the desire to learn and lead by example across MENA and Pakistan. Power sector operators today require partners who can look at the entire electricity value network - from power generation, to transmission and distribution, to consumption - as well as across a range of solutions, to help them unlock the greatest benefits. GE is honoured and excited to work with our customers and other stakeholders throughout this value chain to drive the digital industrial transformation of the power sector in the region," he said. GE has supported the development of Pakistan's power generation sector for more than fifty years, providing advanced solutions to utilize various energy sources, including natural gas, coal, wind, hydro and others. Today, GE-built technologies can generate up to 25 percent of the country's electricity. ■

PSO expands its retail footprint, opens retail facility in the heart of Lahore

Sheikh Imran-ul-Haque, Managing Director and Chief Executive Officer of the nation's largest oil marketing company, Pakistan State Oil Company Limited (PSX: PSO), inaugurated a state-of-the-art New Vision retail fuel station in Lahore. New Vision outlet, M/S Coral Gas, will serve the fuel and non-fuel needs of our customers in one of the



most important areas of Lahore. Important government installations, businesses, leading educational institutions, healthcare facilities, media houses, and some of the most famous recreational spots are located within the area.

Mr. Haque was joined by key business partners, senior officials from the company, the owner of the retail outlet and dignitaries from Lahore during the official inauguration ceremony.

Highlighting PSO's strong retail footprint, Sheikh Imran-ul-Haque, said: "With the largest footprint of 3489 retail

sites network, PSO fulfils energy needs of the nation not only in every urban city but also the distant areas of the country. Our scale makes us the most accessible network of retail outlets that caters to our customers round-the-clock, in all seasons and in every situation. Today's opening of a new PSO retail outlet in Lahore, as one of its busiest districts is part of our ambitious business growth strategy."

"The outlet will bring real convenience for our customers. They will be able to benefit from our quality petroleum products and other facilities as well." ■

Byco's Floating Terminal Imports 5 million tons of crude oil

Byco Petroleum's Single Point Mooring has imported 5 million tons of crude oil since its inception. It has been in continuous operation since 2012 including the severe monsoon season from June through September, which was previously considered impossible for the area. Byco's SPM is Pakistan's only floating



terminal and revolutionizes the handling crude oil and refined petroleum products in the country. The SPM has been set up in the deep sea and is connected to a storage tank via 15 km of both on-shore and sub-sea pipelines. Byco has a storage capacity of 140,000 metric tons.

Amir Abbasciy, CEO, BPPL, remarked on the achievement: "Byco's SPM is a national asset for Pakistan. Its continuous safe operations is a testament to our promise of keeping safety our top priority. I want to congratulate the entire Byco

team on this singular achievement and on having imported 5 million tons of crude oil since inception."

The SPM allows Byco to import and export crude oil and refined petroleum products directly, significantly reducing traffic at Pakistan's ports situated in Karachi and Port Qasim. It enables Byco to be the only vertically integrated petroleum firm in the nation. Byco expects to import 4.5 million tons of crude oil through the SPM in the current fiscal year ending 30 June 2018. ■

Siemens wins major power deal in Pakistan

During a recent signing ceremony attended by high-ranking government officials, Siemens has celebrated its largest ever power generation contract in Pakistan.

Under the contract, Siemens will supply a complete power island solution for a new power plant - Punjab Power Plant Jhang - that will be located 250km south-west of Lahore. The deal is valued at around 1 200 million for Siemens and marks the first time Siemens' highly-efficient H-Class gas turbines will be installed in Pakistan. Punjab Power Plant Jhang will increase power generation capacity in Pakistan by approximately 1.3 gigawatts and provide a much-needed boost to the national grid.

Attended by Chief Minister of Punjab, Shahbaz Sharif, the ceremony saw signings between China Machinery Engineering Corporation (CMEC) and government-owned Punjab Thermal Power (Pvt) Ltd (PTPL), an independent power producer. Siemens will supply the power island to CMEC, the project's EPC contractor.

We are very proud to have the chance to contribute with sustainable and reliable power generation for the future development of Punjab and for the Pakistani people.

Our highly-efficient technology will be instrumental to meeting their power needs within the timeframe targeted by the local government," said Jean-Claude Nasr, Senior Executive Vice President of Siemens Power Generation Division, Middle East and North Africa.

Running on liquefied natural gas (LNG), the Punjab Power Plant Jhang will be built as a combined cycle power plant (CCPP). Siemens will supply a solution comprising of two SGT5-8000H Gas Turbines, Siemens will also be responsible for engineering, project management and associated site services. The plant is scheduled to supply power to the grid in simple cycle operation by December 2018, and in combined cycle mode by November 2019. ■

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Launching ceremony of Zephyr 50 mw Wind power Project & SUMEC Branding Promotion Meeting



With an investment of \$110 million, the 50 megawatts Zephyr wind farm power project would commence commercial operation by October next year. The project is located at Gharo, District Thatta some 60 km from Karachi, said Waqar Ahmad, manager, Zephyr Power (Pvt) Limited talking to energy update at the ground-breaking ceremony of the project at a hotel, here the other night.

He said that construction work on the wind farm was initiated in May 2017 and it would be completed within 18 months. He hoped that the 50 mw project would begin commercial operation by the end

of October 2018. The project's financial close was done on May 10, 2016. SUMEC Group Corporation is the contractor of this power project, he said, adding that the financial arrangements for the project were made with the local and foreign institutions with equal ratio of 50 percent each.

He said that 25 state of the art turbines would be installed with each turbine has a capacity to generate 2mw of electricity. Waqar said this project has become an important benchmark in the wind sector and it would help resolve the energy crisis. ■

CLARIFICATION

This is in reference to the brief report published on Page-12 of September, 2017 issue of the Energy Update about newly commissioned Haveli Bahadur Shah R-LNG Power Plant in Punjab. It is duly clarified here that the said report was based on a number of news reports appeared in leading newspapers of the country. The Energy Update believes in disseminating accuracy and error-free report and never go for any willful attempt to do negative journalism. The Energy Update has due regard and admiration for all the national level power projects being built for overcoming energy shortfall in the country. The Energy Update always holds sponsors, facilitators, and contractors of such projects in highest esteem and has due recognition and admiration for their vital services. The Energy Update will continue with its efforts to accurately cover and report on national power projects in order to promote and highlight their achievements. The Energy Update reaffirms its resolve to do journalism in most objective, accurate, informative, and factual manner to enlighten its readers about current trends and issues of both the local and global energy sectors. ■

Pakistan State Oil reports 33.7% growth

Pakistan State Oil (PSO), the leading energy company of Pakistan, convened its Board of Management (BoM) at PSO Headquarters in Karachi to review performance of the company for the quarter ended September 30, 2017. The Company delivered excellent results in the quarter with top line increased to Rs 258.6 billion, clocking 33.7% growth vs same period last year (SPLY). Highest ever quarterly sales were recorded in MOGAS and Jet Fuel: up by 30.1% and 22.6% respectively over SPLY. Considerable sales growth was also witnessed in HSD, LPG, Lubricants and LNG businesses with growth of 31.4%, 71.0%, 36.0% and 49.9% respectively over SPLY. Furnace Oil (FO) sales however, were down by 9.4% in line with reduction in industry volumes partly due to low consumption by GENCOS and partly due to higher LNG utilization. PSO continue to maintain its strong market leadership position with an overall liquid fuels market share of 55.8% as on September 30, 2017. Higher sales and cost effective borrowing resulted in 14.9% growth in PSO's Profit



after tax which has increased from Rs 4.4 billion to Rs 5.0 billion vs SPLY and as a result the earnings per share grew to Rs 18.5 vs Rs 16.1 SPLY. The outstanding receivables as of September 30, 2017 stood at Rs 282.0 billion (June 30, 2017: Rs 277.1 billion) from the Power sector, PIA and SNGPL against supplies of FO, Aviation Fuels and LNG. PSO continues to engage with relevant stakeholders for early realization of outstanding dues. Despite pending receivables and increasing international oil prices, PSO is committed to deliver value to customers by managing its imports and refinery purchases effectively. Last month, PSO Team went beyond the call of duty to respond to the energy needs of the country by handling significantly higher volumes with its logistic partners to ensure there is no shortage of fuel in the country. It was when other oil marketing companies reduced importing fuels due to an increase in international oil prices that made the trade commercially unviable. PSO however remained firm in its resolve to exceed the expectations of its customers and fuel

Pakistan's journey of growth and prosperity despite incurring inventory losses. PSO has welcomed the initiative of Ministry of Energy to deregulate HSD as it will create a competitive environment for 15 OMCs and 6 additional ones pending with OGRA. Recently, PSO has been ranked at top position in the Institute of Chartered Accountants of Pakistan's (ICAP) List of top 100 corporations of the country. The ICAP Top 100 Companies of Pakistan list gives recognition to high performing companies where ranking is devised based on data received from the Pakistan Stock Exchange and financial reporting of the corporations. PSO's achievement was based on meeting ICAP's criteria set under the category of 'Revenue wise Top Performing Companies'. ■

Life is Beautiful

One day, One hour and One minute, will not come again in your entire life. Avoid fights, angeriness and speak lovely to every person.

MOL Group & Mari Petroleum sign MoU on strategic cooperation



MOL Group and Mari Petroleum Company Ltd (MPCL) announced a strategic cooperation initiative for evaluating future potential business opportunities in the local, international upstream exploration and production sector.

The MoU for strategic cooperation was signed by Dr. Berislav Gaso, Executive Vice President Upstream, MOL Group and Lt. Gen. Ishfaq Nadeem Ahmad (Retd.), MD/CEO MPCL, here at MOL Group HQ. Other dignitaries including Mr Graham Balchin - MD/CEO, MOL Pakistan, Mr Ali Murtaza Abbas - MOL Group Regional Advisor Middle East, Africa & Pakistan, Aqib Anwer - GM Business Development & Commercial, MPCL and Tufail A. Khoso, GM Exploration, MPCL witnessed the signing.

The strategic cooperation between the two petroleum exploration companies envisages exploring opportunities jointly in Pakistan, the Middle East, African continent and CIS Region, especially the Russian Federation and Kazakhstan.

MPCL is one of the leading petroleum exploration and production companies of Pakistan with more than 60 years of rich history. It manages and operates the country's largest gas reservoir (in terms of current reserves) at Mari Field.

MOL Group in Pakistan is the largest foreign producer of oil and gas. The two oil exploration and production companies with a robust financial background have desired through this MOU to exchange technical knowledge and industry experiences, allowing for further discussion of potential local, international upstream growth synergies and possible partnerships.

Speaking on the occasion, Dr. Berislav

Gaso said that "MOL Group comes with over 75 years of E&P experience, and has a successful record of creating value through its upstream activities in many countries. In Pakistan, the company has acquired institutional knowledge, that coupled with MOL Group's technological edge, can help create value beyond MOL Group's current operational portfolio in Pakistan. We look forward to this new partnership with MPCL for exploring new business potential on the global level."

Expressing his views, Lt. Gen. (R) Ishfaq Nadeem Ahmad stated "MPCL and MOL Group have a very successful partnership in the Karak joint venture in Pakistan. With the MoU signed today, we look forward to expanding our relationship to E&P opportunities internationally, while continuing to grow our relationship in Pakistan."

Mr Ali Murtaza Abbas commented "The strategic cooperation between MOL Group and MPCL will form a technically and financially sound foundation, on which we can build our future business. There are numerous opportunities and potential of hydrocarbon reserves that can be harnessed for the future energy needs of not just the region but in fact the world." ■

Clients do not come first. Employees come first.

If you take care of your employees, they will take care of the clients.

Richard Branson

Sindh environment minister assures support to SEPA

Sindh Minister for Environment, Climate Change & Coastal Development Muhammad Ali Malkani, announced his full cooperation to Sindh Environment Protection Agency (SEPA) regarding the notices it issued to the industries.

The viewpoint of the industrialists before the Environment Minister while he visited the SITE industry was that the treatment of industrial waste before dumping it in sea is the basic responsibility of concerned institutions and authorities and for this purpose, four combined treatment plants had been approved 20 years back but these projects are yet to be materialized.

The meeting also observed that it is a legal compulsion to establish Sindh Environment Protection Council under the Sindh Environment Act, 2014. They claimed they had been issued the SEPA's notices in violation of the Sindh Environmental Protection Act 2014, which demanded that before issuing such notices a Council having proper representation of the industries be setup.

The Council is the competent authority to form environmental protection standards in the province, they said. They also argued that since the Council had not been formed, SEPA could not unilaterally issue notices to industries. SITE Association of Industry also demanded separate SEQs for Karachi through an amendment or revision in the Sindh Environmental Protection Act 2014 to safeguard the industries of Karachi. The industrialists further said that most of the industries in Karachi were set up before 2014 when the Sindh Environmental Protection Act was enacted; therefore there was no question of setting up of these plants on individual basis due to shortage of space in their factories. ■

*As we get older,
we don't lose friends.
We just find out
who the real ones are.*

Google ditched autopilot driving feature after test user napped behind wheel

Alphabet Inc's self-driving car unit stopped developing features that required drivers to take control in dangerous situations, its chief executive said Monday, as autopilot reliance left users prone to distractions and ill-prepared to manoeuvre. The decision followed experiments of the technology in Silicon Valley that showed test users napping, putting on makeup and fiddling with their phones as the vehicles travelled up to 56 mph. John Krafcik, the head of Waymo, which was formed in 2009 as a project within Alphabet's Google unit, told reporters that about five years ago the company envisioned technology that could autonomously drive cars on highways as a quick way to get on the market. Other self-driving automakers include similar autopilot features for highway-driving in vehicles, but they require drivers to take over the steering wheel in tricky situations. Waymo planned to do the same.



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Whatsapp users to be able to delete messages sent by mistake

Whatsapp users will no more have to fret over messages sent on chat windows they were not intended for. The messenger service has introduced a feature which will allow users to delete such messages sent to either a group or an individual chat. As stated on Whatsapp.com, the messages that one successfully deletes will be replaced with "This message was deleted" in the recipients' chat. So if you see "This message was deleted" in a chat, it means the sender deleted the message for everyone. However, a user cannot avail the opportunity of correcting their error hours after sending the wrong message. One can only delete the messages for everyone for up to seven minutes after sending it. Once the time is over, the window closes. There is no way to erase messages for everyone after seven minutes pass.



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New iPhone brings face recognition (and fears) to the masses

Apple will let you unlock the iPhone X with your face – a move likely to bring facial recognition to the masses, along with concerns over how the technology may be used for nefarious purposes. Apple's newest device, set to go on sale November 3, is designed to be unlocked with a facial scan with a number of privacy safeguards – as the data will only be stored on the phone and not in any databases. Unlocking one's phone with a face scan may offer added convenience and security for iPhone users, according to Apple, which claims its "neural engine" for FaceID cannot be tricked by a photo or hacker. While other devices have offered facial recognition, Apple is the first to pack the technology allowing for a three-dimensional scan into a hand-held phone. But despite Apple's safeguards, privacy activists fear the widespread use of facial recognition would "normalize" the technology and open the door to broader use by law enforcement, marketers or others of a largely unregulated tool. "Apple has done a number of things well for privacy but it's not always going to be about the iPhone X," said Jay Stanley, a policy analyst with the American Civil Liberties Union.



AMAZING! news

Paul Newman's watch auctioned for record \$17.8 million

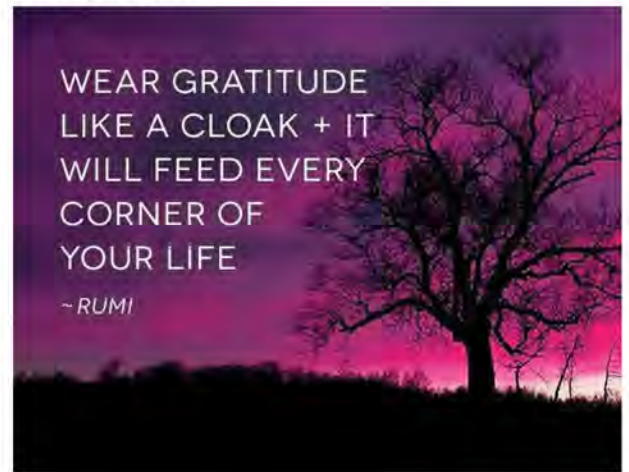
A constant beloved companion of Paul Newman for years, the late Hollywood star's Rolex has sold for \$17.8 million, setting a world auction record for a wristwatch, Phillips said.



Given to him by his wife Joanne Woodward and lovingly inscribed while the couple filmed and co-starred in the 1969 movie "Winning," Newman was photographed wearing the iconic stainless steel watch on countless occasions. Auction house Phillips said it was snapped up late Thursday in New York by an anonymous telephone buyer for \$17.8 million after 12 minutes of frenzied bidding in a sale that attracted collectors from more than 40 countries. But if it's the most expensive wristwatch sold at auction, a handcrafted Patek Philippe pocket watch made for New York banker Henry Graves remains the most expensive overall, fetching more than \$24 million at Sotheby's in 2015.

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CORNER OF
YOUR LIFE

~ RUMI



Pictorial Glimpses



Tariq Rizavi MD PARCO, Yaqoob Tabani Chairman Tabani Group, Naeem Qureshi Editor Energy Update, Ifran Khokar of LPG distributors Association, Asif Farooqui of Waste Busters are Seen in Picture



Balochistan Home Minister Mir Sarfaraz Ahmed Bugti and MD & CEO Pakistan Petroleum Limited (PPL) Syed Wamiq Bokhari (6th & 7th left) along with other officials and students at the distribution ceremony of 100 PPL scholarships for Balochistan Public School



UNIDO holds a workshop on Climate Change recently picture shows minister Industries Manzoor Wasan Presenting a Memento to Mr. Gulzar Firoz Chairman Standing Committee on Environment FPCCI



The wonderful guests at the red carpet of NikonD850 launch



Seen in the photo Sarim Sheikh (President & CEO, GE Pakistan Iran & Afghanistan) and Tahir Rehman (Managing Director, IEC) at the launch ceremony of the channel platform.



Gulzar Firoz Chairman Standing Committee on Environment FPCCI Presenting Memento to Secretary Climate Change Baqaulah Unner after Meeting at Federation House.



Moiz Kazmi, Hasan Daudpota and Arsalan Hyder Shah with Team GAME

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