

MONTHLY

ENERGY UPDATE

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Emerging Pakistan

**Ministry in,
Ministry out
Government's
child's play**

**CLIMATE
CHANGE
the ticking
bomb!**

**Mass Transit Plan!
The biggest failure
of successive govts.**

**Event Report
14th AEA 2017**



**EXCLUSIVE
INTERVIEWS**



S. Nadeem Ahmed
CEO, Searle Pakistan



Min Beyong Soo
CEO, Mira Power Ltd.

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From the editor's desk...

Ministry in, ministry out Government's child's play

The newly elected prime minister has merged two important ministries into a single Ministry of Energy, something that the PML-N had promised it would do in its election manifesto of 2013.

The water and power ministry has been bifurcated, and its power wing is now to be merged with the petroleum ministry. The idea is an old one, and builds on an earlier generation of reforms under which the mammoth WAPDA was bifurcated into separate water and power wings almost a decade ago.

Since at least 2010, if not earlier, while the PPP government struggled with the power crisis, the proposal would be raised anew, always to be shelved. Even the PML-N promised to implement the idea, but strangely waited till the last year of its rule to actually implement it.

Technically, the idea is sound and all those who have advocated it or examined it have concluded that it can help streamline the functioning of the power sector by bringing fuel supply and other operational issues under unified supervision. But the timing and the speed at which the proposal has now been implemented suggest that priorities other than the smooth functioning of the power sector may be at play.

A clue is provided in the prime minister's own words, where he said that the completion of ongoing projects was a crucial priority for him. With both ministries whose approvals are key to the speedy implementation of ongoing projects in the power sector now working directly under the new prime minister, as well as the latter's retention of the Planning Commission portfolio - meaning his personal oversight of all matters related to CPEC - it appears that the commencement of commercial operations in all power projects will now be the government's top priority. The linchpin here is finance.

Without the required cash flows, the power sector can chug along for a brief period before sputtering to a halt. Streamlining the operations is fine, but the dividends that this can yield are ultimately constrained by the availability of financial resources.

Besides, aiming for the completion of the projects as a political strategy carries substantial technical risks as well as the potential for locking the sector into a high-cost growth path. The repeated technical outages being experienced at the new power plants recently inaugurated or started for test runs in southern Punjab make this clear.

The case of the Nandipur power plant stands as a supreme testimony to the waste and inefficiency that haste of this sort can lead to in power-sector projects.

However, the present government is known for its bad governance and termed as responsible for down-sliding the economy. Losing at least Rs700 billion textile exports and wrapping up textile ministry at this juncture when it was most needed, the fate of the newly established ministry could be imagine if the present regime continues to its attitude.



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Environmental conditions in Pakistan are deteriorating day by day. In November 2016, Pakistan badly affected from the Smog. The areas of Punjab including Lahore and its adjoining areas and New Delhi hit by the thick blanket of fog. Pakistan is the sixth most populous country in the world, having around 176 to 200 million people that would double after 25 years. There are a number of serious environmental problems which include soil erosion, marine water pollution, deforestation, urban pollution, water logging and salinity, freshwater pollution and excessive pesticide usage. Pakistan suffers from the agriculture runoff, untreated sewage water, and industrial wastes. Freshwater resources are limited; a majority of people do not have access to the clean drinking water. According to an estimate, around 250m gallons of untreated water out of Karachi, disposed of directly into the Arabian Sea, which is affecting marine fisheries.

A change of climate that is directly or indirectly related to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability of Noise Pollution. The environmental factors caused mortality in children of Pakistan, ranks highest in South Asia. Environmental damages constitute up to 30pc of the diseases in the country. According to a report, more than 45pc infants dead due to diarrhea and almost 60pc diseases are water borne. The major cities of Pakistan like Lahore, Karachi, Peshawar, Rawalpindi, and Islamabad confront excessive noise pollution that leads to the auditory issues, sleeplessness, stress, and cardiovascular diseases. Noise pollution is due to the buses, rickshaws, cars, and water tankers. According to a study, an average noise level on the roads of Karachi is almost 90dB and is going to elevate up to 110 dBs. However, the standard ISO's noise level is 70dB.

Pakistan has previously affected due to climate change that caused the worst floods in 2010 and this year that badly affected 23 districts in Punjab, 5 in Gilgit-Baltistan and 10 in AJK causing damage to the infrastructure and crops worth billions of rupees. These floods now have become almost an annual feature in Pakistan.

Climate Change is a serious global threat as well as for Pakistan that ranked eighth on the list of countries most affected climate changes indicated by the German Watches Global Climate Risk Index. Three cities of Pakistan are considered at high risk from climate change that includes Lahore, Faisalabad and Karachi.

In a recent global greenhouse gas (GHG) emissions study from 2011-2015, Pakistan has been ranked 137th and has contributed only 0.47 percent of global GHG emissions, but owing to its climatic conditions it is consistently named in countries that have

CLIMATE CHANGE the ticking bomb!

By Ismat Sabir



drastic climate change effects. Pakistan is considered among countries that would suffer by extreme weather conditions. Pakistan was one of five nations that were badly affected by the climate change in 2014. It is forecasted that the winter season would shrink and summer season would be long and extreme. These climate changes will badly affect the agriculture, industry, health and other economic sectors in Pakistan. Economics Survey indicated that during 2010-12 in floods more than 3,000 people were killed and resulted in loss of \$16 billion. Thousands of people animals lost their lives due to Karachi heat wave, Chitral floods and drought in Thar in 2015. Moreover, with rise in temperature and mangrove depletion across coastal line, the National Institute of Oceanography has warned that there is danger that Karachi could drown in next 35 to 45 years due to climate change.

Some of the other adverse effects of climate change in Pakistan includes extreme temperatures, seasonal droughts, heavy rains, monsoonal storms, cyclones, devastating floods, unusual fogs, melting of glaciers, glacial lake outburst floods (GLOFs), landslides and avalanches in the mountain areas and threatening inflows into Indus River System (IRS). The rainfalls would decline during winters and heavy rainfalls would occur during summers.

Environmental scientists believe that, if the emissions do not be reduced the global temperature might register a rise from 1.1 to 6.5 centigrade by the end of the 21st century. The gradual elevation of temperature imposing secondary effects including the changes in patterns of precipitation, rising sea level, altered patterns of agriculture, increased extreme weather conditions and expansion in the range of tropical diseases etc. The major contributor countries in the global warming are US, China, Russia, UK, Germany, Australia, Canada, Japan, and Korea. According to the Pakistan Economic Survey, Pakistan has been one of the major victims of natural calamities in the world. More than 3,000 people.... were killed and \$16 billion loss incurred due to the floods of 2010, 2011, and 2012. Bridges were swept away by the water, infrastructure was damaged and people were displaced from their homes and villages. Communication channels were lost with many areas. In 2014, floods in Punjab and AJK destroyed thousands of developmental projects cost-

ing the government billions of rupees.

Climate Change is a serious global threat as well as for Pakistan that ranked eighth on the list of countries most affected climate changes said the German Watches Global Climate Risk Index. Three cities of Pakistan are considered at high risk from climate change that includes Lahore, Faisalabad and Karachi. Climate change will also adversely affects livestock production, which could decline 20 to 30 percent due to rising temperatures, leading to crises in meat, milk and poultry supplies, pushing prices beyond the reach of the average Pakistani.

Considerable increase in the frequency and intensity of extreme weather events, coupled with unpredictable monsoon rains causing frequent and intense floods and droughts. Recession of the Hindu Kush-Karakoram-Himalayan (HKH) glaciers



due to global warming and carbon soot deposits from trans boundary pollution sources, threatening water inflows into the Indus River System (IRS).

Increased siltation of major dams caused by more frequent and intense floods.

Rising temperatures resulting in enhanced heat and water stressed conditions, particularly in arid and semi-arid regions, leading to reduced agricultural productivity. Further decrease in the already scanty forest cover, from too rapid change in climatic conditions to allow natural migration of adversely affected plant species.

Increased intrusion of saline water in the Indus delta, adversely affecting coastal agriculture, mangroves and the breeding grounds of fish. Threat to coastal areas due to projected sea level rise and increased cyclonic activity due to higher sea surface temperatures. Increased stress between upper riparian and lower riparian regions in relation to sharing of water resources. Increased health risks and

climate change induced migration.

Water resources are linked with climate; this is why the projected climate change has such serious implications for Pakistan's water resources. Freshwater resources in Pakistan are based on snow and glacier melt and monsoon rains, both highly sensitive to climate change. Country specific climate change projections strongly suggest the following future trends in Pakistan.

Decrease in glacier volume and snow cover leading to alterations in the seasonal flow pattern of the Indus River System (IRS); increased annual flows for a few decades followed by decline in flows in subsequent years; increase in the formation and outburst of glacial lakes; higher frequency and intensity of extreme climate events coupled with irregular monsoon rains causing frequent floods and droughts, and greater demand on water due to higher evapotranspiration rates at elevated temperatures. These trends will have a significant impact on the spatial and temporal distribution of water resources on both annual and inter-annual basis in the country. This will further exacerbate the already difficult situation of a water-stressed country facing demand increases due to population growth and increasing economic activity. To address the impact of climate change on water resources and to enhance

water security, the Government of Pakistan, in collaboration with relevant entities shall take the following measures:

Agriculture is the main item to human survival and is probably the human enterprise most vulnerable to climate change. The agriculture sector, as the single largest sector of Pakistan's economy and is its lifeline. It accounts for 45pc of the labor force, 21pc of GDP and 70pc of total export earnings. Agriculture in Pakistan is greatly affected by short term climate variability and could be significantly impacted by long term climate change. As the duration of crop growth cycles is related to temperature, an increase in temperature will speed up crop growth and shorten the time between sowing and harvesting. This shortening could have an adverse effect on productivity of crops and fodder for livestock. The hydrological cycle is similarly likely to be influenced by global warming, necessitating the agriculture and livestock sectors, particularly in rain-fed areas, to adapt to climate change. ■

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Mass transit plan The biggest failure of successive govt.

Some very quick facts when we use the word "urban". Urban areas, as predicted by research, are going to overtake the rural areas by way of population. In Pakistan, it will be a while before the census results come out but the shift has been clear with an estimated 60 per cent of Pakistanis concentrated in the urban centre, and the peri-urban areas around them. While cities or urban centres are rightly called the "engines of growth", they can only prove to be so if the influx does not outstrip planning. No marks for guessing how things are in Pakistan. The lack of allocation for developing many urban centres has meant that population concentration has taken place in bigger cities like Karachi, Lahore, Faisalabad, Hyderabad etc. Karachi right now is one of the most rapidly urbanised cities in South Asia.

Madness on roads

How are the needs of this burgeoning population being met? Well, that is the question Pakistan has been struggling to answer. Unfortunately, from the array of available solutions, seems to have settled for the infrastructure solution rather than a holistically planned one that could be cost effective with long-term sustainability.

This is why while a bird's eye view may present a vista of a futuristic landscape with highways, overheads, flyovers, underpasses, and undulating steel and glass structures of Metro lines and stations, the situation on the ground is nothing but a traffic tangle.

So, do we build more bridges and highways? No! We need

Frequent traffic jam jaming the people's lives

By Afia Salam

More bridges and highways? No! We need bus lanes, elevated light rail and underground trains

those infrastructure projects to correspond to a sustainable urban transport system that has multiple solutions like buses on dedicated bus lanes, elevated light rail, and underground trains. Moreover, please let us not hear the reluctance forwarded that it cannot be done in congested cities like Karachi, Lahore, etc. because things do not really get more congested than they are in Kolkata, and they built an underground train system.

New Delhi too has its Metro that services a larger slice of its population than does the one built in Lahore and Rawalpindi or Islamabad. Most of the cities across Europe that have them are also old cities. In fact, let us look around and see the different solutions that can be implemented. Tiny Singapore has an immaculate public transportation system. So does Hong Kong. Buses, underground and overland trains, even ferry services and boats or river taxis to use the waterways. The per capita income is quite high. People of corresponding incomes in Pakistan can afford luxury cars, for more than one member of the

family. Nevertheless, not many people own their own vehicles there as they are expensive. The tax structure makes them so. Then the fuel prices are also kept high... not subsidised. This is also a huge discouragement. Parking spaces and fees are other discouragements. Still, the government does not just wield the stick. It offers the carrot of efficient transport system on the infrastructure that can justify the cost through its usage.

Now the environment too is a great consideration. Singapore has had the odd and even number plate system of cars allowed on the roads for a long while. Therefore, at any given time only half the cars can be on the road, which ensures emission reduction. When the Indian capital was beset with smog and

fog in 2016 due to exhaust emissions that made many days, zero visibility days, this was the solution they caught on to and it delivered the desired results. In Pakistan too, environmental organisations have been working with the government to draw similar plans through programmes such as Pakstran. They have been urging for mass transit systems in the context of emissions control. This is especially significant in the context of climate change and Pakistan's commitments to reduce emissions.

By far, the most successful models of dealing with urban transportation woes come from far off South America. It is impossible not to cite the example of the miracle worker Enrique Penalosa, the former mayor of Bogota in Colombia when talking about urban transportation. His is a success story that is mindboggling.

He tackled a very complex problem and sought a solution that seems simplistic in nature. Nonetheless must have taken some doing in a city wracked by crime and gang warfare, not unlike our very own Karachi. By designating pedestrian zones and bike lanes, he changed the entire complexion of his city and brought about a kind of social engineering that turned Bogota into a vibrant, healthy, secure, and inclusive city from a crime and congestion-ridden one.

The sad irony is that he was invited to Pakistan in 2005 to advise on these issues, yet nowhere can we see even a shadow of what he had advised.

Similarly, Curitiba in Brazil also presents a model of sustainable urban transportation which overlays the Bus Rapid Transit System with green spaces and urban housing for the poor instead of displacing and dispatching them to the least-favoured parts of the city, as we have seen in Pakistan with the widening of road networks and bridges.

Karachi's plea

Many international agencies have been calling for the overhaul of the system and been willing to offer assistance. A classic case in this connection is of the Karachi Circular Railway, which was discontinued due to economic unviability. The Japanese, through Japan International Cooperation Agency, has shown willingness to finance its revival on several occasions. Dragging of the feet by successive governments meant that there were cost escalations many times over.

Now, finally, since the project has been tagged with China-Pakistan Economic Corridor (CPEC), the approval has come through, so hopefully, it will serve as, at least, one more piece that will fit in the gigantic jigsaw of Karachi's traffic needs. The decision of the World Bank (WB) to step in with the intent of 'transforming Karachi into a world class, inclusive and sustainable city,' is also an attempt to make a holistic attempt at making it a sustainable urban centre. Transportation solutions will be a key in this planning. They are also needed for other urban hubs of the country, along with the provision of access to services and utilities to people on their peripheries, if they are to deliver on the promise of growth attached to them. The abdication of responsibility of the public sector gave space to the mushroom, the unmanaged and unscrupulous growth of the transport sector, in the country's commercial hub, and it assumed a political life of its own. There was another downside to the growth of the road transport sector, and that was the decline of the railways as haulier and carrier of goods, which also took to the roads. The decline in this significant source of revenue had a direct impact on the quality of its service as a passenger carrier, and it is only of late that it has come out of its existential crisis. The world is dotted with many examples that can be studied, modified and implemented to bring about the least disruptive, cost-effective and sustainable transportation system that does not rely just on some grand exercise in optics and actually helps propel the urban centres as engines of growth instead of quagmires of traffic jams because of confused policies. ■

Non-Professional Chinese Company damages Haveli Bahadur Power Plant

The newly installed heavy duty Gas Turbines from General Electric, U.S.A badly damaged due to the inexperienced and incapable Chinese Operator SEPCO-III. 1230 MW Haveli Bahadur Shah R-LNG power plant is newly built having very expensive machines Gas

EU Report



Turbine model GE 9-HA-01 having capacity of 400 MW each is damaged due to the bad operation by O&M Contractor SEPCO-III - Power China. This company was selected by the Federal Government's department National Power Parks Management Company Limited, Lahore. The Chinese firm has no experience or capability in operating and maintaining such a complex and sophisticated plant and was only an engineering and construction contractor of this project.

The damage is of high magnitude where the turbine is completely damaged due to not timely and properly putting in operation the lubricating oil system into the turbine. The Unit No.2 is also damaged due to leakage in the hydrogen supply system not properly operated by the Chinese firm. It has resulted the closing of power plant for more than one year.

The ex-Prime Minister Mian Nawaz Sharif very recently inaugurated this power plant along with his cabinet members, CM Punjab and other dignitaries. Mr. Nawaz Sharif highly praised the CM Punjab Shahbaz Shareef for completing this project in time on fast track basis.

It is learned that these Gas Turbines GE- 9 HA-01 were never installed or operated any where in the world prior to the purchase of these Gas Turbines for the three R-LNG projects ; 1230 MW Haveli Bahadur Shah, 1223 MW Balloki and 1180 MW Bhikki projects having total capacity of 3600 MW. Such decision by the Shareef Brothers were made hurriedly without verifying the machine's past satisfactory performance.

Earlier it was learned that the burners of the Gas Turbines installed at Haveli and Bhikki were completely burned during start-up of the turbines this shows low quality of material and poor workman ship by the manufacturer General Electric.

The shut down of the power plants and rectifying the damages will cause billions of dollars loss to the public exchequer and thus the so called claims by the Ex-Prime Minister and the present Prime Minister for eradicating the load shedding from the country remain false and baseless. ■



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Searle becomes first FDA-approved Pharma Company in Pakistan - Syed Nadeem Ahmed

Exclusive interview of CEO of the Searle Company, Pakistan

EU: What do you think about your success, Searle is on the Top according to MSCI, Bloomberg report last year and now this year it is short listed by FTSE & Forbes?

Syed Nadeem Ahmed: First of all I am thankful to Allah as without his blessing nobody can achieve any success, and secondly to our Group Chairman Mr. Rashid Abdulla, his guidance and support are always an integral part of Searle's progress. Success is not easy it demands your dedication, consistency and focus in right direction. I am also grateful to my team which is extremely committed and dedicated. I believe now as we are on the top we have to be more responsible, we have to deliver more and perform better than before, perform better than competitors, and adopt change as quickly as possible. The most important aspect of all of it is that the Searle played an instrumental role in uplift of Pharmaceutical industry in Pakistan. I am glad to see Searle as being the only company in pharmaceutical industry which was selected by MSCI, FTSE and now recently been chosen as one of the Forbes 200 fastest growing companies in Asia-Pacific.

SEARLE

"We always believe in hard work, success is not easy, it demands dedication, consistency and focus in right direction, and top of it we learn not only from our mistakes but other's mistakes too"
Syed Nadeem Ahmed

EU: What do you think about Pakistan Pharma industry and the role of DRAP?

NA: I am very optimistic about pharmaceutical industry of Pakistan. I can sense that general awareness of healthcare among citizens is increasing every passing day. Currently the total pharmaceutical market is about US\$ 3 billion versus US\$ 1 trillion of global market. You can well imagine despite having 200 million population we still have only 3% market share of the global market. Generally, I do not comment on Government institutions but I would say a few words on the DRAP and on Ministry of Health as previously before the 18th Constitutional amendment the ministry was the so-called regulator of the Pharma sector. May be just one example would be sufficient to illustrate their performance: since inception of Pakistan not a single



pharmaceutical company could get USFDA (US Food & Drug Administration) approval, whereas in our neighboring country India or even Bangladesh has number of USFDA approved facilities.

EU: Are you comfortable with Searle performance? Please also let us know about your Group?

NA: I don't think that in corporate world you feel comfortable at any point of time as in today's dynamic and changing environment you have to be always alert. But yes so far I am delighted to note that Searle is progressing well towards promising directions particularly in terms of Growth, Profitability, Sustainability, New Ventures, Therapeutic Segments, HR Development, GMP Compliance and Globalization. I am also glad to see the participation of Searle in the recent World Pharmacy Show at Birmingham UK, Gulf Pharmaceutical Exhibition in Saudi Arabia last year and recently in CPHI China which is reflection of our commitment towards global market. We have also signed JV agreement in Belgium where soon we will start production. I am sure all these activities will create positive Image of Pakistan that somehow we have lost in last two decades.

Ever since the Searle Company was acquired by International Brands Limited (IBL) group, the growth of Searle has become phenomenal. The IBL Group is one of the Pakistan's largest business conglomerates with more than 100 glorious years in business. It has been operating companies in diversified sectors of Pakistan such as IBL Operations Pvt. Ltd. having largest distribution infrastructure, IBL Healthcare which is into Nutrition Business and represents Mead Johnson and Nestle, Habitt a largest home store chain of Pakistan, Unisys into software development and IT business, IFL is responsible for Dunkin Donut, UDL in Agri-fertilizers business, Mycart.pk is in Ecommerce and IKL which is into textile and Tarzz, premium Pre't fabrics Brands. In recent past we have initiated a new concept under brand name Future Technology, FT.

EU: Being a major business Group in Pakistan, what are your contribution to CSR activities?

NA: Alongside, IBL group is highly conscientious corporate entity with a commitment to return to the society particularly to its underprivileged strata. It founded and developed Indus Valley School of Arts and Architecture, leading architecture school of the country, The Citizen Foundation, the largest school network that provides highest quality education, The Hunar Foundation which is working to impart vocational trainings and skills in the rural areas. Recently we have also adopted a 100-bed Hospital with OPD of 400 patients every day, providing free medicines and treatment and lot more.

EU: Where exactly Searle stands today in terms of ranking and what are your plans for 2020?

NA: Today Searle is the fastest growing company among the top ten pharmaceutical companies of Pakistan. It is also the No.1 by Market Capitalization and fourth largest by Volume.

The Searle Company is once again in the midst of significant transformation as it evolves toward a developing business model. In an international community where the environment changes rapidly, companies should change continuously to achieve sustainable growth. Accordingly, we are dramatically carrying out forward-looking transformation and growth strategies and bold restructuring initiatives.

With the three key initiatives launching high quality Bio-Similar, Nutritional healthcare and Globalization, our goal is to become a strong Company a unique enterprise that creates



Syed Nadeem Ahmed, Chief Executive Officer of Searle Company Limited, serving the organization successfully for the last 10 years. He has 26 years of rich experience in Pharmaceutical & Healthcare Industry. Besides Searle Company he is also a Director in IBL Health Care limited, UDL Pakistan Limited, United Brands Limited, International Franchise Limited, Dunkin Donuts, Habitt Home Store, IBL Operations Private Limited, Unisys Private Limited, Employers Federation of Pakistan, and Nextar Private limited. Mr. Nadeem is an active member of Pakistan Pharmaceutical Manufacturers Association (PPMA). He received graduate degrees in Mechanical Engineering and Management while post graduate degree in Management

Engineering, Doctorate Degree in Business Administration, attended The IET, London, UK, Adamson University, Manila Philippines, Ateneo De Manila University, Manila Philippines, Harvard University, Boston USA, University of Oxford, Oxford England, European University, Geneva, Switzerland. He has received Fellowship from Chartered Management Institute, (CMI, Royal Charter) England. He served as Certified Director programme from Institute of Chartered Accountants of Pakistan, (ICAP), member status from The Institution of Engineering and Technology, UK, and Highest award of honor from Cyprus International University, Nicosia, Cyprus. He recently received Leadership Award from EU Business School, Geneva handed over by former President of Switzerland Mr. Adolf Ogi. He was appointed Brand Ambassador of Wallonia Region, Belgium. He delivered lectures/talks in all leading Business Universities and Institutions of Pakistan.

new value and business incapable of being emulated. This will be done by integrating the competitive edge and key capabilities in each of these domains. Through creating and providing value in the form of solutions needed by society and markets, we will contribute to enhancing the quality of life for people everywhere, as it states in our corporate philosophy."Research in the service of mankind".

EU: In how many countries Searle is operating?

NA: Currently Searle is operating in 14 countries, and soon will be starting operations in, UAE, Malaysia, Switzerland, UK, Spain, Belgium and selected African countries.

continued on page # 31



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Electricity demand in Pakistan to rise above 49,000mw in 2025

By Ismat Sabir

As Population is increasing, besides income increase and urbanization, the power demand is increasing with every passing day. As per forecast by Energy Agency (IEA), the total electricity demand in Pakistan will rise to more than 49,000 megawatts (MW) by 2025. The government has laid out ambitious goals 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.

Ghassan Barghout, President and CEO of GE's Gas Power Systems, Sales for the Middle East, North Africa and Pakistan said, GE Technology Days in Pakistan underline the commitment to support the country in strengthening its power infrastructure, operational costs, and diversifying energy sources. The events reducing serve as a significant platform for stakeholders to meet and discuss how the power sector can become more efficient and productive by drawing on the latest technologies and digital capabilities.

He said I am particularly proud to note the ongoing successful execution of the HA-powered projects in Pakistan. The Prime Minister inaugurated the Haveli Bahadur Shah (HBS) project to mark commencement of simple cycle operations at the site and we now have four HA gas turbines feeding power into the national grid at the Bhikki and HBS plants. The projects represent the fastest speed at which power plants of comparable size have ever been set up in Pakistan's 70 year history. 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 situation as it includes many energy projects. Presently load shedding in cities was for 12 to 14 hours while in villages was 16 to 18 hours. In the budget for sway 184 KM Burhan Havelian expressway is allocated Rs3 billion; while Rs 26 billion have been allocate for Thakot to Havelian Rs2.7 billion are allocated for restoration of Dera Ismail Khan Mughal Kot and Zhob road Rs2.5 billion have been allocation in Balochistan for Khuzdar and Panjgoor, Hoshab, Bisma, Sohrab Section and Gaward Turbat Hoashab section.

A comprehensive plan is being implemented for the

road link networks, expansion and modernization of the airport, and development of the area. 31 projects for development of Gwadar are provided in 2017-18 for this purpose include projects such as implementation of Gwadar master plan, Gwadar airport, a M W salina-tion plant. CPEC projects would enter into their third year of under implementation during 2017-18. Funds of Rs180 billion have been proposed for CPEC and its supporting projects during the next financial year. Special for fast track development in Special Rs62 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 Rs25.75 billion in FY 2016-17 to Rs43.64 billion for the FY 2017-18, which is a historic increase of 69pc, and Rs26.9 billion were allocated for Federally Administered Tribal Areas (FATA). In FY 2017-18,

New international 200-bed hospital, 200

power generation, and de-

cheap electricity for agri tube wells: The government will continue provision of subsidized tariff on agri tube wells at the rate of Rs5.35 per unit in FY 2017-18. This is estimated to cost around Rs27 billion.

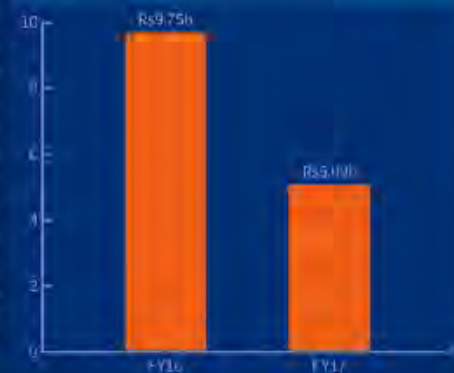
According to Economic Survey energy crisis started in 2007 and peaked during 2011-2012. Prior to the present government, Debt, weak financial position of energy companies, liquidity crunch, falling gas production, low exploitation of indigenous coal and hydel resources, high dependence on oil and gas 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. 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.

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, midterm 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. It is worth mentioning that 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 past ten years while transmission



K-Electric's profit jumps 16% to Rs32.75 billion in 2017

K-Electric's profit increased 16% to Rs32.75 billion in the year ended June 30, 2017 on the back of higher self-generation at a reduced fuel cost and lower finance cost, according to a bourse. The integrated power company had posted a profit of Rs28.32 billion in the previous year. Accordingly, its earnings per share (EPS) rose to Rs1.19 in FY17 from Rs1.03 in the previous year. K-Electric is a listed firm at the Pakistan Stock Exchange. Its share price increased 2% or Rs0.14 to Rs7.05 with a volume of 14.75 million shares.



K-Electric announces fresh \$1-billion investment

The company reported to the PSX that it purchased electricity worth Rs54.30 billion from the national grid station and independent power producers in FY17. This was 24% lower than the Rs71.48 billion paid to the power sellers last year.

Similarly, it consumed fuels worth Rs57.26 billion compared to Rs59.95 billion in the previous year.

The drop in the value of purchased power and fuel consumption at a time of low oil prices in international and domestic markets suggested higher self-generation by the company.

Finance cost fell by half to Rs5.09 billion from Rs9.75 billion in FY16. This indicated that the firm was having higher working capital amid low input costs.

On the flip side, sales of electricity in value terms remained flat at Rs189.62 billion compared to Rs190.35 billion last year.

K-Electric sold energy worth Rs166.74 billion, which was 12% higher than Rs148.51 billion in FY16. However, tariff adjustment for end-consumers on account of fuel cost resulted in flat sales.

Moreover, its consumer services and administrative expenses shot up 41% to Rs30.71 billion from Rs21.73 billion.

Abraaj Group unable to conclude deal on K-Electric:

Topline Securities said K-Electric's earnings in the last (April-June) quarter dropped 1% to Rs10 billion (EPS Rs0.4).

Sales grew 11% on a year-on-year basis to Rs56.5 billion in the quarter on the back of higher supply of units owing to warm weather.

Gross profit improved 12.7 percentage points to 35%. "The improvement can be attributed to higher self-generation of electricity, leading to lower electricity purchase from more expensive external sources and higher thermal efficiency," it said in a note to its clients. ■

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 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 (CPPA-G). Thus under the executive direction from the ECC (April

30, 2015), NEPRA mandated the CPPA-G to propose the characteristics of a competitive trading bilateral contracts market (the CTBCM).

With 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, he said we must aim to implement regional connectivity projects. Water security is necessary for the agriculture 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 preserve. Over the next five years attention should be concentrated on substantially completing Diamer Bhasha dams, and simultaneously improving water conservancy. Various initiatives have also been taken to ensure the sustainability of the reforms envisaged under the Power Policy of 2013.

During July-March FY 2017-18, although installed capacity 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-2 (Mianwali) are operating with gross capac-

ity of 1,090 MW. KANUPP has now completed forty five years of safe and successful operation. Amongst the best performing power stations of the country. C-3 was formally inaugurated by the Prime Minister on December 28, 2016.

Consumption 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 farmer are getting electricity for farm mechanization which will in turn over effect on the economy as whole.

Pakistan Atomic Energy Commission (PAEC) has been actively engaged in harnessing nuclear power technology. At present, four nuclear plant. Chashma Nu-

clear Power Plant unit Chashma site is underway. It is 4 will be connected to the national grid in May 2017. Sixth and Seventh Nuclear Power Plants (K-2 and K-3) construction near Karachi. The first concrete pours of K-2 and K-3 were performed on Aug 20, 2015 and May 31, 2016, respectively. Pakistan Atomic Energy Commission (PAEC) is planning to intensify its activities to amplify its role towards meeting the electricity. ■

Over 50% oil tankers lack safety measures

Federal Minister for Petroleum & Natural Resources said that 50% of oil tankers lacks minimum safety measures and quality standards which are posing serious hazards and threats to the precious lives of Civillian. He was addressing the Professional Development Conference held at Islamabad Serena hotel arranged by the Pakistan Chapter of the American Society of Safety Engineers. At the back drops of ongoing oil tankers strike; he further emphasized the need for educating the general masses about the safety measures at the work place and the development projects so that the precious lives of skilled labours may be saved from fatal accident. He further stated that among our masses, safety tools are taken into granted as fashion or a piece of decoration. It is high time we must understand that safety is not option but very important aspect in professional capacity and in order to achieve production it is very difficult to avoid physical hazards until we practice safety measures. He further said that in the Ahmed- Pur-Shirqia accident the whole system failed to protect lives and we need to learn that the accident do not cause death, rather the post-accident events brings the calamity.

The Minister further stated that in 2009 OGRA issued notification for the standard safety measures for the oil/fuel tankers and according to those standards every oil/fuel tanker in Pakistan is going against that safety measures. He said that media, educational institutions and educational workshop need to disseminate information regards safety measurement. ■

Pakistani truck art being presented in a museum in US

The huge flamboyantly colored trucks and auto rickshaws have become one of the most prominent cultural symbols of Pakistan. The design on each truck is unique and different in its own way.

Given how well-received Pakistani truck art is becoming all over the world, a Pakistani-American artist named Asheer Akram has taken it upon himself to display these work of art trucks in America.

The artist is very passionate about his work. His truck art designs will be displayed in the Wichita Art Museum in Kansas.

He came up with the idea of this project when he came to Pakistan for a residency program. Throughout his stay, he observed the beautiful art that could be seen on the trucks. These trucks gave birth to the idea of how to promote a positive image of Pakistan, inside him.

After returning to the US he started the Pakistan Cargo Truck initiative.

While writing about his passion for his work he wrote in a post on Facebook, "I am certain about one thing- this project and its off shoots are as important today as they were when it first rolled out."

He further added:

Not only as a tool for spreading cultural awareness but as a method of opening up a dialog about current events with younger generations. We are thrilled to have her still rolling strong. Fighting #racism and #bigotry since 2013.

The truck used in his project is a Chevrolet grain truck which he has decorated with the typical Pakistani truck art with a splash of modern art.

On his website, he says that the trucks covered in the new motifs and designs seek to "captivate everyone and inspire them to investigate cultures outside of their everyday surroundings."

His aim is to promote a positive image of Pakistan and explain the social and cultural identity of his native country. ■



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KOEN is in process of implementing Vision 2025 – Min Beyong Soo

An exclusive interview with CEO of Mira Power Ltd Korea on Pakistan's power sector issues

By profession Mr. Min Byeong Soo is a Civil Engineer from Inha University with further certification in Renewable Energy from Hanyang University and has over 14 years direct experience of management, development, operations and maintenance of Thermal and Renewable Energy Projects. Prior to taking the responsibility as Chairman Board of Directors and CEO of Mira Power Limited, he was managing KOEN's (Korea Energy) Renewable Energy Team. Mr. Min, Byeong Soo is leading the overall Project implementation effort as head of the Company within the framework for governance, policies and code of conduct. Mr. Min primary role is to define policies, strategies and take timely decisions for successful implementation of the Project within time and budget as per the requirements of Parent Company and other shareholders. He is also managing high level relationships with the Government and rest of the Stakeholders. In addition to responsibilities as Chairman Board and CEO of Mira Power Limited, Mr. Min also presides over the Management Committee which is the highest responsible forum of the Company to discuss Company progress and ideas to formalize the short-term and long-term strategies in accordance with project needs.

Energy Update: Tell us about Mira Power Limited?

Min Byeong Soo: Mira Power Limited is subsidiary of KOEN who owns 76% shareholding in Mira Power Limited while remaining shares are held by minority shareholders i.e. Daelim and Lotte. Mira Power Limited is a special purpose company which is implementing 102 MW Gulpur Hydropower Project. The project is located in Azad Jammu & Kashmir.

EU: Tell us about some further details about KOEN?



By M. Naeem Qureshi

MBS: KOEN is premier generation company of Korea, who owns and generation about 10,000 MW in Korea. The KOEN is AA rated state owned company with an asset base of \$8 billion.

EU: How KOEN decided to Invest in Pakistan Hydropower renewable market?

MBS: KOEN is in the process of implementing its vision 2025. According to the vision 2025 KOEN set a target to implement 3500 MW for renewable energy until 2025. To achieve such target KOEN has decided to implement 2000 MW through expansion of its portfolio worldwide. In view of such target KOEN Overseas department visited and evaluated power policies of various countries and considered Pakistan a priority market because the Power Policy of Pakistan is very well structured and attractive for international investors. The KOEN has started its investment in Gulpur Hydropower Project which is already 40% complete and schedule to commercial operation in 2019. Owing to success of GHPP the KOEN has decided to invest in 1000 MWs in Pakistan renewable sectors.

EU: Have you already identified the 1000 MW projects in which KOEN is planning to invest?

MBS: Not all 1000 MW has been identified however, we have recently signed an MOU with Government of KPK to implement 215 MW Asrit Kedam Hydropower Project and 197 MW Kalam Asrit Hydropower Project on fast track basis and we are expecting that NTPs for these projects shall be issued very soon. We are also exploring other opportunities in Wind and Solar sectors as well as more hydropower projects in KPK and

Exclusive Interview

Gilgit Baltistan. In addition, we are also exploring opportunities for "Renovation and Modernization" of slack and under-capacity power plants to enhance their life with efficiency improvement.

EU: What is your experience about Pakistan while implementing the Gulpur Hydropower Project?

MBS: As mentioned earlier Pakistan has a very good and robust power policy which covers major risks like exchange risk, the change in law and force majeure, US dominated IRRs and the coverage of political risks. Secondly the institutional arrangements in Pakistan are in good shape like they have PPIB which is a one window facilitator providing excellent support and help all the way. Similarly, the regulatory environment is very well established and there is a transparent and structured procedure of tariff in NEPRA. In view of the power shortages in the country the approach of the Government is very positive and they are willing to help the international investors and are trying their best to provide good investment climate in Pakistan.

EU: Have you faced any challenges while working in Pakistan?

MBS: We believe that the project development itself is a very challenging task where-ever you work in worldwide and Pakistan is not an exception. One of the major issues which we faced is the strict regulations with regard to the entry of expatriates of Korea in AJ&K and KPK areas and they require vigorous follow-ups and lengthy documentation which sometime hampers the project progress. Another challenge we foresee that there is an issue of circular debt whereby price gap between the consumer tariff and generation tariff may create financial issues for CPPAG. This sometimes results in delay in payments which affects the overall viability of the project. Though Government is trying hard to resolve this issue but this requires long term approach whereby they need to focus on broader sectoral issues like reduction of technical line losses, theft of electricity, the removal of subsidies and lesser reliance on expensive generation like oil, LNG and coal. During the process we also faced significant environmental challenges while implementing the GHPP because it was located in a Mahasher National Park though this was a huge challenge to attract investment from IFC and ADB however, KOEN and Mira Power Limited managed to overcome this issue through detailed planning and commitment from the sponsors. During the process we were



required to significantly change the design of the project and were required to implement a comprehensive bio-diversity action plan however the end result is that with our efforts we were not only succeeded in achieving the Financial Closing of the Project but honoured that KOEN is contributing significantly to improve the bio diversity of the area and we have started seeing the positive results already.

EU: How is your relationship with the community where you are working?

MBS: KOEN as a matter of philosophy believes that your local community is your partner in progress. We believe that you cannot be a successful company until and unless you take and consider the local community as a serious stakeholder in the development. In this respect KOEN devised and implemented a comprehensive Corporate Social Responsibility program under which we have already implemented many projects and have plans to implement number of CSR activities in the health, education and infrastructure. Additionally, we are also giving priority to the local community in the jobs on the site and you will be happy to know that currently out of 720 staff on the site 700 people are local Pakistanis out of which 45% are belongs to the nearby areas and from the affected community. Thirdly, we have followed a very transparent and market based compensation mechanism while during the land acquisition which we were able to complete the land acquisition process without any major reaction from the community. With all these measures we believe that our relationship with the community is in good shape and we will do all our best efforts to further improve as we are here to run the plant for 30 years

and we will implement all these philosophies in our next ventures in Pakistan.

EU: Can you highlight the major CSR activities KOEN has done so far?

MBS: Recently we have constructed and handed-over "Tahalalat bridge" costing PKR 80 Million. Moreover, we have renovated the local school buildings, provided Solar System, computer lab. Our next immediate target is to construct another bridge for local community. In-addition KOEN following its legacy is helping Pakistani community through CSR activities for example recently we have donated Ski Kits worth PKR 1 Million to Pakistan Sports Board (PSB) for participants in upcoming Winter Olympics. KOEN is also in the process of providing LED lights/ solar system to Pakistan Sports Board for which coordination is underway.

EU: How was your personal experience while living in Pakistan?

MBS: This is an interesting question, before shifting to Pakistan I was of the view that Pakistan will be kind of difficult place to live as you would appreciate that the perception of Pakistan in international media is not that positive. However, my view has been completely changed when I actually started living in Pakistan. With my family I am really enjoying staying in Pakistan I often have outdoor activities and overall city of Islamabad is very healthy and safe. Secondly at my work we got an excellent local team who are very professional and helping us a lot in achieving our goals through we have different cultures but I have observed that people of Pakistan are very flexible and they fit in all cultures easily that is why I am having very good time in Pakistan.

EU: Do you want to give any message to people of Pakistan and power sector people?

MBS: Pakistan is a blessed country with all the ingredients like the abundant natural resources, very intelligent people, diverse culture and weather, very good strategic location which are required to make Pakistan a developed country. I believe that there should be more strong ties with the Government of South Korea so that both countries can learn from each other's experiences to make both the nation more prosperous and successful. KOEN is a state owned company of South Korea, therefore after investment by KOEN in Pakistan, the private investors of South Korea shall also invest in Pakistan which will create more competitive and robust business environment in Pakistan. ■



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Environmental Laws to be enforced strictly: Baqaullah Unar

SEPA for the first time started imposing penalty on industries for violating environmental laws

Director General, Sindh Environmental Protection Agency (SEPA) spells his action plan to EU in an Interview



By M. Naeem Qureshi

The Sindh Environmental Protection Agency (Sepa) for the first time in its history has started imposing penalty on industries in the province found to have been committing violations of environmental laws and regulations.

Sepa Director-General Baqaullah Unar stated this as Energy Update recently interviewed him in detail regarding past, present, and future role and progress of the provincial environmental watchdog in duly implementing the relevant laws and safeguarding the environment. Mr. Unar is Sindh government secretary for Environment, Climate Change, and Coastal Development Department while he is additionally holding the charge of DG of Sepa.

Here are some important excerpts of his interview:

Energy Update: What initiatives you have been taking to activate Sepa for the cause of environmental protection?

Baqaullah Unar: We all know that Sepa was not much active before as such. Then came the Sindh Environmental Protection Act-2014 which had to be duly implemented. All issues concerning the environment had earlier kept on emerging. Then we decided to make functional again the laboratories of Sepa, which had not been in use for last seven years. The lab in Karachi has been rectified while the work on the lab in Hyderabad will soon be completed. These labs will be used to do testing of all water samples to check their quality. Then we decided to launch more offices of Sepa at district level in the province other than the regional offices so to provide maximum relief to people.

We have requested the chief justice of Sindh High Court to appoint environmental magistrates so that action could be taken against instances involving violations of environmental law of minor nature at the district level. Every person having complaint regarding violation of environmental law is not capable of visiting the office of Sepa DG so we have decided to provide them

relief at the district level. We have decided to open Sepa offices at district level as this will be done in three phases as in the first year such offices will be opened in ten districts. Sepa offices in all 29 districts of the province will be opened in three years.

EU: Tell us about new initiative you have taken as chief of the provincial environmental watchdog?

Mr. Unar: Earlier the monitoring system of Sepa over the industries had been very weak. We had never seen inspectors or other such responsible field officers visiting these industries or ever saw any action taken against the factories for violation of environmental laws including the instances of untreated industrial effluents being discharged into sea, other hazardous emissions, lack of solid waste disposal system, and other such matters.

So for the first time in the history of Sepa I started imposing penalty in the capacity of the DG from this week. We have started imposing penalty on some 30 to 40 factories, which deemed to have committed violation (of environmental laws).

This act would send out the message to people that from now onwards action would be taken against whomsoever who committed violation as no concession of any kind would be offered in this regard. The industries violating the law would not be offered concession of any kind.

These are some of the fundamental issues on which we have focused so to do improvement and to resolve problems concerning environment and climate change.

EU: Tell us about other steps you have taken for protection and improvement of environment in our surroundings?

Mr. Unar: We have started the tree plantation campaign. We have been approaching government organizations to take the corrective measures. Like we have asked the MD of Karachi Water & Sewerage Board to get the issue of water supply resolved so that water unfit for human consumption should not be supplied to people of Karachi for improving their health. We have been creating awareness among masses so that the people

could get to know about the concepts of environment, global warming, climate change, floods, and droughts, as in what manner these issues have been affecting their lives. We need to bring forward concerned people so that they could actively take part in the tree plantation campaign so to improve the environmental conditions. We need to create awareness with the focus on improvement in environment.

I have also convened a meeting on the issue of beach cleaning so to keep our beaches clean, do levelling of land, and to plant coconut trees there so to provide people with the best place to sit around for sake of recreation. Our main focus is that the untreated sewerage water should no more be released into sea without any treatment. We have to get stopped the organizations responsible for doing so whether they are DHA, cantonment boards, or KPT.

EU: So far how many trees you have planted and what is the plan of your campaign?

Mr. Unar: We have been able to get distributed some 5,000 to 6,000 trees among different organizations, individuals, and civil society bodies. But our main priority is that these plants should be distributed among such people who are able to take care of them in best of the manner. In this regard, we have been signing MoU with the interested organizations as more plants would be given to such entities and individuals who would show best performance in growth of trees in the first round of the plantation campaign.

There are certain organizations, which have promised us to give 50,000 plants.

Now these 50,000 plants would be distributed among interested organizations, civil society bodies, and other individuals in 29 districts of the province who could use them in best of the manner.

EU: What is the permanent solution of the issue of untreated sewage and industrial effluents being dumped into sea?

Mr. Unar: The permanent solution to this issue is to hold fully accountable the organizations responsible for committing such a serious violation of environmental laws.

If in case the DHA is responsible for releasing the untreated sewerage water then the DHA should install a sewerage treatment plant. The cantonment boards are also equally responsible for taking such measures. The industries are bound to install an effluent treatment plant at their premises as it is one of the conditions of the permission granted by us to them on basis of their EIA (Environmental impact assessment) or IEE (Initial Environmental Examination) studies. The constant discharge of untreated sewerage water for so many years has adversely affected marine life in our sea. Owing to such reasons other countries have been thinking to impose ban on fish exports from Pakistan. The people associated with the industries are supposed to play their due part in this regard as they are bound to duly follow the environmental laws of the land. They have to follow the Sindh Environmental Protection Act that was passed in 2014.

The industries are not supposed to wait for funding from Islamabad for instal-

lation of combined effluent treatment plants. Before the installation of combined treatment plants, every industry is bound to install pre-treatment plant at their respective premises. It is not justified to shift your own responsibilities to others. The law of the province should be fully honoured. These small pre-treatment plants could be purchased from the market at much low cost while their installation could be done in a single room without requiring any bigger place at the factories for the purpose. The industries should not entirely depend upon the government for treatment of effluents being discharged by them. We are ready to support them and do hold talks with the government for the installation of combined treatment plants for industries but before it they have to first install pre-treatment plants at their premises. Someone has to accept the responsibility for the damage being done to humans and marine life.

EU: Tell us to what extent the Sindh Environmental Protection Act-2014 has been implemented so far?

Mr. Unar: The subject of environment was earlier with the federal government and later it was devolved to the provinces through 18th Constitutional Amendment. The provinces took some time to do the legislation as new Act in Sindh in this regard was adopted in 2014. But unfortunately this Act has not been implemented much. For the purpose the provincial government and bureaucracy has to perform its role while general public is required to fully honour this law as its compliance should also be done. The harmful emissions from the motor vehicles and industries have to be checked and stopped. The people have to understand that a law concerning environment is present and is very much valid as its violation would duly attract action, punishment, and penalty for the violators. Awareness should be spread among people regarding this law while citizens and industrialists are both required to extend cooperation for its implementation.

We have now started implementation on the Act as our inspectors, deputy inspectors, and other responsible officials are going in the field to check violation of the law. Performance of such field officers will be checked every month as officials not showing performance regarding implementation of the law would be transferred from their respective areas. ■

19 polluting companies fined by more than half crore rupees

The Director General of Sindh Environmental Protection Agency Mr Baqaullah Unnar on violation of Section 11 and 17 of Sindh Environmental Protection Act 2014 imposed penalty on M/s. Rashid Silk Mill Rs. 300,000/=, Proline 200,000/=, Gul Ahmed Textile Rs 100,000/=, Rajby Textile Rs100,000/=, Artistic Millner Unit_5, Rs100,000/=, Orient Textile Rs200,000/=, Soorty Enterprises Rs200,000/=, Younus Textile Rs300,000/=, Pakistan Petrochemical Rs200,000/=, Pakistan Beverages (Aquifina Plant) Rs100,000/=, Popular Textile Rs200,000/ Raza Housing Project Rs300,000/=, Sumit Plaza Rs300,000/=, King Garden Project Rs500,000/=, Gardens Home Rs400,000/= Kulsom View Project Rs500,000/=, Al Ghafoor Duplex Rs700,000/= United Tower Rs500,000/= and Maqbool Heights Rs300,000/=

Also for legal action Sindh Environmental Protection will be approached to obtain Search Warrant for M/s Alhaj Form Motors and Agha Steel.

While police assistance will be acquired to execute the compliance of Environmental Protection Order against Shabeer Tiles and SSJD EPZ Karachi. ■

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KE shares customer engagement model with PITC and other DISCOs



A delegation comprising representatives of PITC, IESCO, LESCO and HESCO visited K-Electric's state-of-the-art contact center to study KE's customer engagement model. Power Information Technology Company (PITC) is an autonomous body providing ICT related solutions to ex-WAPDA distribution companies.

On this occasion, Aziz Ahmed, CEO, PITC said, "We are glad to observe that KE has deployed effective customer relations practices and systems which are among the best in the market. We appreciate KE's knowledge sharing approach, which will help us implement similar solutions in our facilities."

According to KE Spokesperson, "KE serves its customers through one of the largest call centers in the country. In line with our approach towards continuous process improvement, we have constantly been upgrading our infrastructure as well as investing in training and development of our customer care team as per global best practices of the industry. We are glad to share our learnings regarding customer support with representatives of PITC and other DISCOs."

K-Electric offers a wide range of customer care touch points from its award-winning call center equipped with world's leading customer engagement platform Genesys, centralized handling of complaints via web to dedicated customer care offices in 29 IBCs. In addition, it offers live chat service via SMS and complaint resolution 24/7 via email and social media forums besides mobilizing mobile vans across the city to facilitate customers at their doorstep.

KE is also one of the first utility companies to implement SAP IS-U - a state of the art customer relation and billing management system. Earlier this year, K-Electric become the first Pakistani company to win the 'Best Use of Technology' Award in the 'Best Customer Innovation' category at the Genesys G-Summit Middle East 2017 held in Dubai. The delegation included Aziz Ahmed, CEO, PITC; Imtiaz Ahmad, DG AD, PITC; Attique Ahmad, Addl. Director IT, PITC; Khalid Masood, DG IT, IESCO; Imtiaz Rasool, Addl. DG IT, LESCO and Jamil Ahmad, Addl. DG IT, HESCO. ■



Considering the huge investment potential, The Institution of Electrical and Electronics Engineers Pakistan Karachi Center organized an international event IEEE Fair Industrial, Electrical & Electronics sector. The 8th edition of IEEE Fair held in August 2017 at Karachi Expo Centre, Pakistan, which is a platform for showcasing the next level of technology, products and services in the field of Electrical and Electronics Industries in Pakistan.

The event aimed at: highlighting business opportunities in Electrical, Electronics, Renewable & Alternate Energy sector of Pakistan for global & domestic markets and

to bring together international manufacturers and vendors to explore cooperation through joint ventures, outsourcing and collaborations under one roof. Bridge the gap between industry & academia. IEEE Fair 2017 was inaugurated by the President, Karachi Chamber of Commerce, Sahmim Ahmed Firpo. At this occasion, Dr. Baqer Raza, Director General, PCRET-Pakistan Council of Renewable Energy Technology, Engr. Asif Siddiqui Chairman IEEEEP were also present. ■



This is Tarja Halonen, President of Finland from 2000 to 2012, in whose term Finland cherished to be the best and top country of the world in health, education and infrastructure. It's companies were the top companies like Nokia, and some of them are still are, like Wartsila, etc., besides the huge ship building, paper and wood industries. (Though the population of Finland is just 5.5 Million. This besides the harsh winter that they have).



This pic is not of a beggar, or of a refugee.

The pic is an advertisement, through which the ex President wore old used clothes, from the used clothes shop, and sat down for long hours in the dirt without any protection or cover, to feel and let people feel the agony of the poor and refugees.

She said, she could have been a beggar or a refugee, but luck favored her and made her head of the country; and this makes her to care for those whom luck did not knock on their doors.

HOW SWEET IT IS WHEN A PERSON CARRIES GENEROSITY, IN HIS HEART FOR OTHERS, AND THE CARE AND FEELINGS FOR OTHERS.

Truly, God establishes fair and just states even if they are from the non believers. An exceptional experiment of its kind, which you rarely witness it in today's world in our lands of Muslims. ■

A love letter to Trump

Dear Trump,

After hearing your speech on US foreign policy today, I felt the urge to pen down my ramblings with reference to Pakistan. Even otherwise when silence burdens ones conscience, it's time to break it.

You said: "We have been paying Pakistan billions and billions of dollars" Please note that Pakistan has spent \$123.13 billion, in direct and indirect cost due to its war on terrorism in the last 16 years, whereas US aid to Pakistan during the same period has not been more than US \$ 30 billion. Moreover, there has been a 73 percent decline in US security assistance to Pakistan since 2011, and 53 percent decrease in economic assistance, as released by the Congressional Research Service (CRS).

2016, America's kind military aid to U.S. \$38 doled out to Pakistan but the next 10

Dear day in day wake up to terror at our innocent

Some shop-bazars, some parks, some pathways, some terrorists and even some

are so tired of crying that even our tears have dried up. Alas, almost 62000 Pakistani men, women, and children have lost their lives in our war against terrorism during the last fifteen years. They were as dear to their loved ones as the 2996 people who were killed in the 9/11 attacks.

Yet, Pakistan you say is "a safe haven to agents of chaos, violence and terror." No that's not true. Our Army, police and other members of the law enforcement agencies are very successfully and persistently fighting the miscreants. As a result a total of 33711 insurgents/terrorists have been killed in Pakistan since 2003.

In the view of the U.S. Human Rights Network, "Discrimination in the United States permeates all aspects of life and extends to all communities of color". Surveys by organizations such as ABC News have found that, even recently, large sections of Americans self-admit to holding discriminatory viewpoints; for example, a 2007 article by the organization stated that about one in ten admitted to holding prejudices against Hispanic and Latino Americans and about one in four did so regarding Arab-Americans. But would it be justified if America is pronounced as a safe haven for racists?? No, because America has been a country that welcomes and embraces diversity. Similarly, Pakistan is no safe haven for the terrorists. It's primarily a land of simple and struggling people whose sufferings remain untold.

Dear Trump, please don't add to our sufferings. Please don't widen the rift between India and Pakistan. You claim to be a problem solver so please don't create problems for us. Terrorists are losers indeed, but to make them really lose we need to unite, not divide. Trust me Pakistan has nothing much to lose, but you should not lose your temper. Well you also said: "It is time for Pakistan to demonstrate its commitment to civilization, order and to peace." Yet it is also a time for you to demonstrate some grace, humility and good language.

Thank you.

A Pakistani by default



World's Largest Bookstore opens in Iran



Newsweek magazine has reported on the opening of the world's largest bookstore, 'Tehran's Book Garden':

Officials unveiled the Book Garden, a giant academic complex on Wednesday. At roughly 65,000 square meters (about 700,000 square feet), the center has several movie theaters, science halls, classrooms, a restaurant, a prayer room and whole a lot of literature. On its roof is a green park area for reading.

All in all, the center aims to encourage Iranian children to be "active and creative through modern methods and equipment," as the Mehr News Agency reported. Parliament Speaker Ali Larijani said earlier this week. "The opening of the Book Garden is a big cultural event in the country, so that our children can make better use of this cultural and academic opportunity," Tehran Mayor Mohammad Baqer Qalibaf added.

It was a long time coming. The idea for the Book Garden was first pitched in 2004 as a way to cater to fans of the city's annual International Book Fair year-round. Construction on the center wrapped up last spring, and organizers spent the past few months stocking it with books. More than 400,000 titles are available for kids alone. One part of the center even has shorter shelves so youth can reach books better.

According to the Guinness World Records team, the biggest individual bookstore since 1999 has been the Barnes & Noble along Fifth Avenue in New York City. It's about 154,000 square feet and includes more than 12 miles of shelves. ■

Punch Of D Day



A Chinese couple got married and has twins who they named them: Jo Hua, So Hua.

Next year when they got a black baby, and they called it: Ye Kia Hua... ■

Messages on the occasion of 70th Independence Day of Pakistan

Senator Mir Hasil Khan Bizenjo
Federal Minister for Ports and Shipping

Ministry of Ports and Shipping is the central administrative authority of the Government of Pakistan primarily assigned to facilitate the ports and shipping industry of Pakistan by providing policy guideline to encourage port development and growth in shipping while maintaining safety standards. Our vision is for Sustainable development of maritime capabilities and competitive shipping to improve the socio-economic condition of the country and to ensure maritime safety and protection of marine environment of Pakistan.

It's so fortunate that we are celebrating 70th Independence Day of our country. I am glad to know that the team of monthly "Energy Update" on their special Independence Day edition and appreciate their efforts of publishing such a nice magazine covering oil & gas, power generation, alternate energy and environmental sector since 2006.

I take this opportunity to congratulate the entire nation Pakistan and Monthly Energy Update a happy independent day and pray for unity, peace and prosperity in years to come.

"Pakistan Paindabad" ■



Raziuddin (Razi)

Chief Executive Officer KPOGCL

On behalf of KPOGCL Team, I welcome all esteemed members of Energy Update and congratulate them for taking this initiative forward for spreading the latest energy sector related news across Pakistan.

Pakistan is considered a developing nation and we all need to join hands together for sharing of latest technological advancements in between us. We believe to create a win-win situation across all stakeholders involved in exploration of hydrocarbons; KPOGCL is striving hard for introducing latest cost-effective technology in oil & gas exploration and production sector.

Furthermore as local investors are still oblivious to this business, therefore we have taken the initiative of creating awareness of the business, positive impacts on the economy along with luring foreign international companies and groups for exploring the rich potential of KP Province.

We are on a mission for Energy Security of Pakistan and urge all leading groups/ companies/ financial houses to make investments in this sector.

Thank You! ■



PM inaugurates the Engro Elengy Terminal

Prime Minister Shahid Khaqan Abbasi has formally inaugurated the first and currently the only LNG terminal of Pakistan at Port Qasim. The terminal, which was built by Engro Elengy Terminal Limited (EETL) in a world record time of 330 days was commissioned on March 28, 2015.

The Engro Elengy Terminal since inception has received approximately 106 LNG cargos and is also one of the only terminals to achieve the fastest 100th ship-to-ship transfer (STS) operation. The inauguration ceremony was held at the Engro Elengy Terminal at Port Qasim amongst members of the Federal and the Provincial cabinet, foreign delegates and corporate partners. Prime Minister while praising the Engro's management for its commitment and 100% private investment initiative for country's first LNG terminal said: "The first LNG terminal has brought Pakistan into the limelight and foreign investors are now far more confident about provision of gas and power to industries in Pakistan". He further said that gas constitutes approximately 40% of the energy mix of the country while almost 30% is used in power generation; hence the LNG terminal is the need of the hour to fulfil not just the demand for gas but also save foreign exchange through import substitution. Currently, the Engro Elengy Terminal receives 6 cargos per month and is the only terminal in the world that operates at such high utilization rates. ■



The famous actor Arnold Schwarzenegger posted a picture of him sleeping in the street under his famous bronze statue, and wrote sadly (How times changed).

The reason he wrote the sentence was not only because he was old, but because when the governor of California opened the

hotel with the statue in front of him. The hotel officials told Arnold: "At any time you can come and have a room reserved in your name". When Arnold left judgment and went to the hotel, the administration refused to give him a room arguing that the hotel was fully booked. He brought a cover and slept under the statue and asked people to imagine it. He wants to convey a message that when he was in a position they were praising him, and when he lost this position they forgot and did not fulfill their promise to him. Yes, times have changed. Do not trust your position or your owner or your power or your intelligence. All of this will not last forever.



GE & Sapphire collaborate for emergency medical facility

GE Renewable Energy and Sapphire Wind Power Co Limited (SWPCL) recently joined forces for a first-of-its-kind initiative, installing an emergency medical center within the premises of 52.8 MW Sapphire Wind Farm, Jhimpir, a village in Thatta district. Jhimpir falls in the Ghara-Keti Bandar Wind Corridor, which has a potential to generate up to 50,000MW of electricity, per the Alternative Energy Development Board (AEDB). The Jhimpir corridor is in the south-eastern part of Pakistan between Hyderabad and Karachi, and approximately 95 km inland from the coast in a semi-desert area, which makes access to necessary medical care for inhabitants of the region a laborious effort. This collaboration aims to bring fundamental medical emergency services to the community in a timely manner. In addition, this commitment of \$100,000 will create awareness around EHS, and serve the wider community, in terms of emergency and temporary care. To achieve this significant milestone, GE worked closely with SWPCL to plan the process, identify risks beforehand, ensure the highest standards in quality control and maintain adequate resources for a smooth and speedy execution. Speaking at the occasion, Tolga Ulus, East Europe & Turkey Service Director at GE Wind Energy said, "In GE, we live up to our legacy of giving back to the society and investing on our people. We want to make a positive impact around the world as well. The societal concerns of this remote location were made an important part of our investment focus, as we believe, our biggest asset is our people. ■"



continued from page # 15

EU: Nice to hear about FT, Future Technology, what it is all about and how you foresee FT role in Health care?

NA: Originally Future technology was started to keep in mind Bio-Engineering and Medical Engineering. Searle is actively working to take lead in Diagnostics that requires high tech equipment to provide better facility to patients. I am sure soon Future technology will play vital role for patient compliance.

EU: Recently, you received Leadership Award from Former President of Switzerland, and nominated as Brand Ambassador of Wallonia, Belgium, will it help you in developing business in Europe?

NA: Yes recently, received I Leadership Award from EU Business School, Geneva during graduation ceremony of University. It was handed over by Mr. Adolf Ogi former President of Switzerland as it was a great honor for me. I am also appointed Brand Ambassador of Wallonia, Belgium. In fact we have signed Joint Venture in Wallonia region to start manufacturing facility of Searle there. I am sure we will be successful in developing soft image of Pakistan especially in Europe and rest of the world.

EU: What is next, any message for our readers?

NA: The Searle Company is now aiming at No. 1 Position in Pakistan Pharmaceutical Market and to become an admirable regional player. The journey to the top has always been difficult but with our ever evolving business model that seeks excellence and innovation in whatever we do coupled with a team of highly motivated people, I'm pretty much sure that we will achieve all of our milestones, be it USFDA approval for biological plant, Launch of Bio-similar products & Infant/Adult Nutrition business or Setting up a plant in Europe. For your readers please pray for us, so we can take Pakistan to the global market, let the world know we can do wonders. ■



The Pakistan State Oil Co. Ltd. hosted flag at half-mast outside its Corporate Headquarters to pay tribute to Dr. Ruth Pfau, who dedicated a lifetime to fighting leprosy in the country. She was laid to rest in Karachi with full state honours on 19 August 2017. ■

The day that Albert Einstein feared has arrived



Coffee with friends

A Day in Beach

Cheering your team



Out on a date

Enjoying the sights

having dinner

"I fear the day that technology will surpass our human interaction. The world will have a generation of idiots"

-Albert Einstein



Gulpur Hydropower Project was inaugurated by Honorable Prime Minister of Pakistan, Mian Muhammad Nawaz Sharif on October 15, 2015.

The Project has achieved overall 40% construction progress by completing construction camps, two diversion tunnels and 35 meters high concrete Cofferdam. MPL is committed to complete the project ahead of schedule.

Owing to this success, our parent company Korea South-East Power Co (KOEN) who is a leading energy generation company of South Korea and its sister organizations are seriously considering to bring further investment of USD 4.5 Billion in Pakistan Power Sector which will increase economic ties between the great nations of South Korea and Pakistan and support in elimination of load shedding from Pakistan on long term basis.

Corporate Social Responsibility Activities



Solar Panel for Kotli School



School upgradation & Renovation Activity



Ski Kits for 2018 Winter Olympics



Construction of Thalalay Bridge

102MW Gulpur Hydropower Project



DIVERSION TUNNEL



INTAKE & POWER TUNNEL



COFFERDAM



DAM

Milestone Achievements



Milestone 1
Inauguration by PM of Pakistan
October 15, 2015



Milestone 2
Financial Close
October 30, 2015



Milestone 3
Completion of River Diversion
November 18, 2016



Milestone 4
DAM Foundation Start
January 19, 2017



Milestone 5
Completion
August, 2019

14th Annual Environment Excellence Awards 2017

Conference on Disasters of Water Stress: Case of Karachi

Experts call for serious measures for water woes of Karachi



The National Forum for Environment & Health (NFEH) and Environment Management Consultants (EMC) once again joined hands to arrange a forum to discuss in detail never-ending water woes of the city of Karachi. The moot titled "Disasters of water stress: A case of Karachi" was organized with the prime objective in the mind of its organizers to gather under one roof representatives of all the concerned stakeholders who are directly or indirectly relevant to worsening water issue of Karachi.

The representatives of city's water utility, provincial government, lawmakers, Karachi Metropolitan Corporation, academic, concerned citizens, real estate developers, businessmen, and industrialists all were gathered at one place to discuss water problem of Karachi.

All aspects of the subject chosen for the moot, whether it is the issue of shortage of water supply, new resources of water supply being searched, lack of water filtration and sewerage treatment facilities available to city's water utility; all were discussed in detail by participants of the conference.

The NFEH and EMC used the befitting occasion of 14th Annual Environment Excellence Awards-2017 to organize the conference on a subject, which has a direct relation with urban environment whose state is getting deteriorated every passing day. The conference was organized with the aim that resolution of longstanding water woes of Karachi would go a long way in improving environmental conditions of the city for maximum advantage of human life, marine life, other forms of biodiversity, flora and fauna in Karachi and in its surroundings areas.



The most startling disclosure of the conference to the utter dismay of its audience was: It would take up to two years for Karachi Water & Sewerage Board (KWSB) to build the new facilities or do overhaul of the existing ones for filtration of all quantity of water being supplied to residents of the city.

Till the time construction of new filtration plants and revival of the existing ones got completed, vast quantity of water being supplied to residents of Karachi-up



to 90 per cent according to some recent scientific surveys-would remain unfiltered.

This startling disclosure came in response to queries by a number of keen participants of the moot who were eager to know about exact time period required by the KWSB to build sufficient filtration facilities to ensure supply of clean potable water to all residents of the city.

Syed Hasan Ejaz Kazmi, a project director at KWSB, informed participants of the conference that up to two years were



required to do requisite civil and mechanical works to build sufficient new water filtration facilities or rebuild the existing ones for people of Karachi.

He said that filtration of potable water didn't mean mere installation of chlorinators as the filtration process was done through a lot of mechanical work, which required import of machinery from the abroad.

He said the KWSB didn't have sufficient finances to build such filtration schemes



on its own as it had to depend upon the provincial government to approve and release funds for such projects.

Environmentalist Saquib Ejaz Hussain informed the audience that just one out of seven water filtration plants of KWSB in the city was functional as for such reasons a recent survey had found contamination in up to 91 per cent potable water samples collected from different areas of Karachi.

He said that KWSB lacked any modern



scientific mechanism involving use of well-equipped laboratories to check quality of drinking water being supplied to people of Karachi.

He said that up to 450 million gallons of waste water was being discharged into sea without any treatment on a daily basis as the city didn't have any such facility to treat effluents constantly being discharged by industries.

He said that losses in water supply and



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- Archroma Pakistan Limited
- Aga Khan University Hospital
- Arif Habib Commodities (Pvt) Limited
- Artistic Fabric & Garment Industries
- Asian Food Industries (Pvt) Limited
- Atlas Honda Limited
- Attock Refinery Limited
- ACT Wind Pvt Limited
- Bahria Town
- Bestway Cement Ltd (Chakwal)
- Bestway Cement Ltd (Farooqia)
- Bestway Cement Ltd (Hattar)
- Bestway Cement Ltd (Kallar Kahar)
- Crown Group Company
- Dalda Foods (Pvt) Limited
- Dawlance (Pvt) Limited
- DS MOTORS INT'L (PVT) Limited
- Ecobags Pakistan
- Dr. Essa Laboratory & Diagnostic Centre
- EFU General Insurance Limited
- Engro Polymer & Chemicals Limited
- Engro Powergen Qadirpur Ltd (Ghotki)
- Fauji Fertilizer Bin Qasim Limited
- Fauji Fertilizer Company (Goth Machi)
- Fauji Oil Terminal & Distribution Co. Ltd.
- Feroze 1888 Mills Limited
- FFC Energy Limited
- Ghani Engineering System
- GlaxoSmithKline (Jamshoro Factory)
- Hub Power Company Limited
- Indus Motor Company
- Indus Wind Energy Limited
- Javedan Corporation
- K-Electric
- Kot Addu Power Company Limited
- KSB Pumps Company Limited
- Lotte Chemical Pakistan Limited
- Lucky Cement Limited
- MAL Pakistan Limited
- MERCK Pharmaceutical Pvt Limited
- Mondelez International
- Mughal Iron & Steel Industries Limited
- Mustaqim Dyeing & Printing Industries (Pvt) Ltd.
- National Refinery Limited

14th Annual Environment Excellence Awards 2017 Winners

- Oil and Gas Development Company Limited
- Packages Limited
- Pak-Arab Refinery Limited
- Pakistan Tobacco Company Limited
- Pfizer Pakistan Limited
- PharmEvo (Pvt) Limited
- Pirani Group of Compiness (Super Power)
- Qarshi Industries (Pvt) Limited
- Rafhan Maize Products Co. Limited
- Roots Garden Schools
- Roots International Schools Pakistan
- Roots Millennium Schools Pakistan
- Searle Pakistan
- Shan Foods (Pvt) Limited
- Shezan International Limited
- Siddiqsons Textile
- Sindh Engro Coal Mining Company
- Syngenta Pakistan
- Tara Group Pakistan
- Thal Engineering
- Thatta Cement Company Limited
- Tenaga Generasi Limited
- Total Parco Pakistan Limited
- Uch Power (Private) Limited
- Yunus Textile Mills Limited

Tree Plantation Awards

- Pakistan Tobacco Company Limited
- Fauji Fertilizer Bin Qasim Limited
- Lotte Chemical Pakistan Limited
- District Municipal Corporation Central Karachi
- Sindh Forest Department

Media Awards

- Sana Saif, Daily Express
- Sheharyar Ali, Express Tribune

distribution systems of KWSB stood at 35 per cent owing to which only 422 MGD

water remained accounted for out of 650 MGD being supplied to the city.

He said that as per the international standards such system losses for any water utility like the KWSB should not exceed beyond three per cent.

Mr. Hussain said that six legally established water hydrants were accounted for 12 MGD daily water being supplied to the city as annual income from these hydrants stood around Rs 4.38 billion.

He said that Karachi was facing a shortfall of 732.5 MGD against water demand of 1,155 MGD given that the per capita water requirement stood at 35 gallons per day.

Vice-Chancellor of NED University of Engineering & Technology Prof. Dr. Sarosh Hashmat Lodi said that a number of sites were available in suburbs of Karachi especially around Kirthar National Park where small dams could be established to resolve issue of water shortage in the city. He said the project of Hub Dam had been conceived in 1963 while its construction was later completed in 1981 as this dam was primarily built to develop a green belt in surroundings of the city. Later the dam was used to overcome water shortage in the city.

He said that menacing situation in water sector like exploitation by water tanker service could be tackled through a strong political will on the part of the governmental authorities concerned.

Prominent industrialist Zubair Motiwala said that construction of combined effluent treatment plant could provide the best feasible solution to issue of constant discharge of industrial effluents into storm water drains of the city as the industrial waste water ultimately fell into Arabian Sea.

He said that there should not be uni-



form implementation of NEQS (National Environmental Quality Standards) for waste disposal system adopted for industries of Karachi and that for an industrial city like Faisalabad. This is because industrial waste water from Karachi-based industries could never be used for human consumption owing to its ultimate discharge into sea.

Chairman of Association of Builders and Developers of Pakistan Mohsin Sheikhan said that mere construction of high-rise buildings could not be blamed for ever worsening situation of water shortfall in the city.

He said that builders associated with real estate sector had been doing a great service by constructing multi-storied residential buildings as otherwise ever increasing influx of population coming to the city would have no choice but to live in shanty settlements.

He said the government had no reliable data regarding the slum dwellers as increase in number of shanty settlements could only aggravate civic problems of a city like Karachi.

In his concluding remarks, Deputy Mayor Karachi Dr. Arshad Abdullah Vohra said it was so unfortunate that Karachi Metropolitan Corporation had zero responsibility regarding affairs of water supply, sewerage disposal, and environmental management of the city.

He said that present provincial government instead of doing devolution or decentralization of municipal and civic affairs of the city had done centralization of important civic subjects in violation of the 18th Constitutional Amendment, which had devolved a number of subjects of governance from the centre to the provinces.

He said that provincial government's measures like establishing Sindh Building Control Authority, Sindh Solid Waste Management Board, and wresting back the

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control of KWSB instead of giving autonomy and powers to civic agencies of the city had led to further deepening of municipal crises of the city as water shortage was only one such issue.

He expressed serious concerns over quality of water being supplied to people of Karachi and termed it unfit for human consumption.

He said that K-IV Greater Karachi Water Supply Scheme had been conceived years back when last city-district government was functioning in the city. As now water demand of the city has increased manifold so much so that completion of K-IV project alone would not fulfil it.

The deputy mayor lamented the situation that a project of four combined effluent treatment plants for industrial estates of the city had been approved during regime of General (ret'd) Pevez Musharraf with release of funds but later governments never implemented the project owing to which problem of environmental degradation got aggravated.

He said that out of water quota allocated by ISRA (Indus System River Author-

ity) for Sindh only three per cent was being provided to Karachi, which was quite unjust to 25 million population of Karachi.

NFEH President Naeem Qureshi said that modern methods like water desalination and reverse osmosis water filtration plants should be used to overcome acute water shortage for household and industrial consumption in Karachi.

Vice-President of FPCCI Mirza Ishtiaq Baig also spoke on the occasion and called for adopting various water conservation measures for resolving issue of water shortage. EMC CEO Syed Nadeem Arif in his welcome remarks apprised participants of the conference about aims and objectives regarding quality and quantity of bulk water being supplied to the city.

Other speakers of the moot were of the view that personal consumption of water should be monetized by the city's water utility by adopting the system of water metering for household consumption on the lines billing systems of other public utility services.

Some of the concerned audience members of the moot stressed on the need

of doing search and research at a fast pace to evolve new resources of bulk water supply for Karachi as present two main sources Indus River and Hub have been unable to fulfil water consumption needs of people of Karachi.

ENVIRONMENT AWARDS: Later, some 67 companies, public, and private sector entities were given 14th Annual Environment Excellence Awards-2017 on basis of their outstanding performance for the cause of environmental protection and conservation. Some five organizations were given awards for their active participation in different tree plantation drives while three media persons were also conferred awards for their journalistic contributions towards the cause of environment. VC of NED University, Chairman of District Municipal Corporation Central Rehan Hashmi, and Mirza Ishtiaq Baig gave away the awards. Some 97 companies and organizations had submitted their nominations for the awards this year. Shamsul Haq Memon, head of the award jury, explained to the audience criteria for selecting the winners. ■

14th Annual Environment Excellence Awards 2017 Winners



Archroma Pakistan Limited



Bahria Town



Dalda Foods (Pvt) Limited



GlaxoSmithKline



National Refinery Limited



OGDCL



Packages Limited



Pak-Arab Refinery Limited



Syngenta Pakistan

14th Annual Environment Excellence Awards 2017 Winners



Agh Khan University Hospital



Arif Habib Commodities



Artistic Fabric & Garment Industries



Asian Food Industries (Pvt) Limited



Atlas Honda Limited



Bestway Cement Ltd



Crown Group Company



Dawlance (Pvt) Limited



DMC Central



Dr. Essa Laboratory & Diagnostic Centre



Ecobags Pakistan



EFU General Insurance Limited



Engro Polymer & Chemicals



Express News



Express Tribune

14th Annual Environment Excellence Awards 2017 Winners



Fauji Fertilizer Bin Qasim



Feroze 1888



Fauji Fertilizer Company



FFC Energy Limited



Fauji Fertilizer Company



Fauji Oil Terminal & Distribution Co



Ghani Engineering System



Indus Motor Company



Indus Wind Energy Limited



Javedan Corporation



Kot Addu Power Company Limited



K-Electric



KSB Pumps Company Limited



Lotte Chemical Pakistan Limited



Lucky Cement Limited

14th Annual Environment Excellence Awards 2017 Winners



MAL Pakistan Limited



MERCK Pharmaceutical



Mondelez International



Mustaqim Dyeing & Printing



PharmEvo (Pvt) Limited



Pakistan Tobacco Company



Qarshi Industries (Pvt) Limited



Rafhan Maize Products Co. Ltd



Roots Millennium Schools



Searle Pakistan



Shan Foods (Pvt) Limited



Siddiqsons Textile



Sindh Forest Department



Tara Group Pakistan



Tenaga Generasi Limited

14th Annual Environment Excellence Awards 2017 Winners



Thal Engineering



Total Parco Pakistan Limited



Thatta Cement Company Limited



Uch Power (Private) Limited

An Awareness Raising Seminar
Corporate Sector Role in Ecosystems



The International Union for Conservation of Nature (IUCN) organized an Awareness Raising Seminar under the title "Restoration and Rehabilitation of Mangroves Ecosystem along the Coasts of Pakistan" project funded by the Sui Southern Gas Company (SSGC) recently.

The seminar was attended by representatives of the private sector, NGOs, government agencies, the media, and academia. Speakers at the event included several scholars renowned for their work in conserving coastal ecosystems.

Underscoring the need for creating further awareness, Ms. Noshirwani urged the media to play a proactive role in raising environmental awareness in society, given the onset of challenges posed by climate change.

Mr. Shahbaz Islam, Head of Corporate Communications, SSGC presented a documentary on SSGC's various CSR initiatives across Pakistan, and commended the joint initiative undertaken on mangroves restoration with IUCN. He urged the corporate sector to engage in volunteer CSR, which on a large scale helps the communities in many different ways.

The event's opening remarks were delivered by IUCN Pakistan Country Representative Mr. Mahmood Akhtar Cheema, who highlighted the project's focus on building coastal sustainability, "which is easier to achieve when there is greater awareness amongst coastal communities. The training sessions conducted under this project have catered to this aspect by building their capacities in best practices in nature conservation - so that their livelihoods are sustainable and an efficient use of resources is achieved," Mr. Cheema added. Mr. Cheema also thanked the management of SSGC for their generosity in implementing the project.

Mr. Tahir Qureshi, a coastal resource expert at IUCN, presented an overview of the SSGC-IUCN project and highlighted its achievements. These include planting 10,000 mangrove saplings in the project area, and workshops for the local communities in the vicinity on the importance of preserving them.

Dr. Shahid Amjad, Head, Environment and Energy Management, Institute of Business Management, gave an interesting presentation on the economic valuation of the coastal ecosystem. The study concluded that while "coastal areas are generally productive, coastal areas with mangroves are phenomenally productive."

Mr. Riaz Wagan, Chief Conservator Forests also presented the work of the Sindh Forest and Wildlife Department at the event, highlighting key achievements of the last few years especially in addressing the issue of sea intrusion along the Sindh coast. ■



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2ND WIND ENERGY SUMMIT 2017

to discuss in detail potential, challenges, solutions for promising alternative energy sector of Pakistan

The key stakeholders doing efforts to harness vast potential of Sindh province to generate electricity using wind power will again be given an ample opportunity to discuss at length problems being faced by them. The occasion will be 2nd International Wind Energy Summit, which is being organized in Karachi on 07 November, 2017. The Energy Update is organizing the summit for second consecutive year.

This wind energy summit God willing will again be a resounding success like the first summit as we will be able to gather under one roof all the stakeholders who have been associated with the renewable energy sector of the country by any mean, said Editor of Energy Update magazine Naeem Qureshi.

Mr. Qureshi stated this while delivering his welcome remarks at an informal gathering of senior executives and managers of the companies doing wind energy projects in the province. The meeting held on 25 August, 2017 at a hotel was organized to inform companies doing renewable energy projects about aims and objectives of the upcoming summit and to finalize agenda of the summit in consultation with them.



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.

He said the speakers and participants 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 government and also be sent to the power sector regulator.

Those who attended the preparatory meeting for the summit were of the view that the upcoming moot in its concluding session should unanimously pass a resolution containing all present day aspirations and demands of the stakeholders



Mr. Qureshi said on the occasion that representatives of all the concerned stakeholders whether they be the planners and executioners 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 ministries of federal government, National Transmission and Dispatch Company, Sindh Transmission and Dispatch Company, Central Power Purchasing Agency, Water and Power Development Authority, Alternative Energy Development Board, and most importantly of National





associated with wind energy sector of the province. That resolution would serve as an effective instrument on behalf the wind power companies to pursue the cause of renewable energy sector whenever the relevant issues have to be taken up with the relevant government and state authorities, they said.

Participants of the meeting discussed at length the issues concerning mainly federal government's authorities owing to which potential of wind energy-to the extent it was hitherto explored and tapped in Sindh-could not be utilized and consumed in an effective manner so far.

They said that issues concerning despatch of electricity being generated using wind power in the province so to make it part of national power grid should be discussed and analyzed at length at the upcoming summit.

They expressed serious concerns that although Sindh had the installed capacity of over 700 Megawatts of the wind power projects operational at Gharo-Jhimpir wind corridor but in practical terms a phenomenally less quantum of renewable electricity got despatched to the national grid owing to serious constraints of the power transmission lines being available to the wind corridor of the province.

They said that relevant authorities of federal and provincial governments should sit together at the earliest to mutually resolve issues concerning transmission and despatch of electricity being generated using wind power in Sindh as power generation on basis of alternative energy was being preferred all over the world owing to their vast benefits for national economies, environment, and health conditions for masses.

They said that wind power companies doing projects in the province should be facilitated by the government through a

one-window like operation instead of the present system where they have to deal with a number of regulators and state-owned entities to get resolved their issues especially those related to tariff of electricity being produced using alternative sources of power.

They were of the viewpoint that provincial government under the autonomy and authority it had lately gained in the energy sector under the 18th Constitutional Amendment should play a proactive role to resolve key issues of renewable energy sector of Sindh. One such method would be to widen the scope and operations of newly established Sindh Transmission & Dispatch Company, which is currently being used to despatch electricity of from Nooriabad power plant of Sindh government to K-Electric.

The participants of the meeting said that while the present government had been doing its best to generate electricity using different conventional and unconventional resources including coal, furnace oil, natural gas, hydropower, solar power, LNG, and bio-diesel, it should not ignore the problems of wind energy sector. This has to be done as Sindh besides indigenously available coal reserve in Thar has vast potential to produce electricity using renewable resources. They were of the viewpoint that the dream of a Pakistan free of the menace of power load-shedding could not be achieved until there was no serious effort to harness renewable energy resources of Pakistan as wind power is one such leading alternative power resource of the country.

They emphasized that the option of electricity generation using wind power had to be explored on an active basis as doing so would be highly beneficial both for Pakistani economy and environment as compared to power generation using

expensive sources of furnace oil and LNG on whose import the precious foreign exchange of the country had to be spent. For such a cause, additional transmission lines should be laid on a preferential basis for despatching electricity being produced in the wind energy corridor of Sindh without any delay.

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 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, NTDC old grid is not equipped to take the variability load as the technology and equipment installed on it is not sufficient. Thus wind energy projects cannot produce more and are being heavily curtailed. For new projects the federal government is not 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. ■

ENERGY UPDATE

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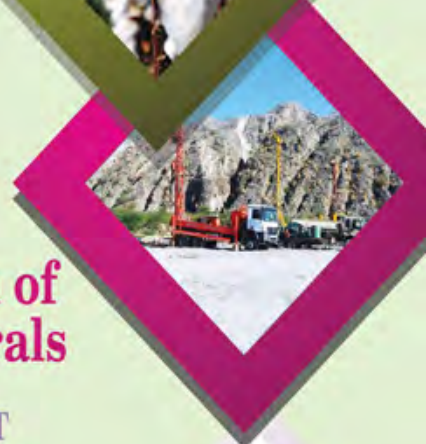


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