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China reveals its cards for investing \$20 billion in Pakistan Denmark offers assistance to Pakistan in green energy **Energy woos: PM seeks Saudi Arabia help** Coal power: Pakistan lags way behind India, China China helping Pakistan meet its energy needs Government solar energy initiative in limbo yet Punjab's initiative to overcome energy crisis Steps urged to overcome energy shortage Privatisation of energy transmission opposed Pattern of oil imports: Dar urges OMCs to advise govt 50 licences awarded for exploration of gas, oil Pakistan, China to set up energy planning group Jura start drilling Guddu block well in Pakistan India plans new dam on Chenab violating Indus water treaty Energy crisis: 'New coal power initiative to generate 6,000MW' Moving closer: Qatar agrees to slash price for LNG export Pakistan's Oil & Gas to Boost Supply as Deficit Hurts Growth Nandipur power plant: TI Pakistan highlights discrepancies in project Energy demand: Pakistan for expediting LNG import from Yemen Pakistan producing nuclear energy for economic development Australia can provide professional expertise to Pakistan in energy sector

MAPS

Energy Directory

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MAXIMUM DEMAND (MW) OF SUBSTATIONS - QUETTA

QUETTA ENERGY PROFILE Quetta Gas Infrastructure No. of Transformers Installed in Quetta Electricity Consumers in Quetta **Electricity Per Unit cost** Gas Per Unit cost No.of CNG Station Quetta Grid Station CNG Station Petrol Pump Coal Reserves Energy Company No.of Petrol Pump in Quetta Aviation Fillin Station SSGCL Gas Pipeline District Boundary 11 GRID STATION



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NEWS HEADLINES

Government solar energy initiative in limbo yet

Business Recorder January 31, 2014

Pattern of oil imports : Dar urges OMCs to advise govt

Daily Times January 30, 2014

Jura start drilling Guddu block well in Pakistan

Energy Business Review January 28, 2014

DETAILS

The solar energy initiative of the government is yet in limbo due to the absence of a number of factors including relevant legislation, financial support, technical workforce and import of quality products. The Punjab government has announced setting up of 1,000MW Quaid-e-Azam Solar Park project in the South Punjab out of which the government would complete 100MW project with a cost of \$200 million. The private sector, in particular the Punjab-based textile industry, is also serious in switching over its lighting requirements on solar power but the studies are not very encouraging in terms of production cost and infrastructural set ups. Nepra has also announced solar tariff recently, fixing it at 20 cent for first 10 years. However, Pakistan is yet facing hardships in a situation when India has installed 22,000MW solar power capacity and the Indian Gujrat is generally known as Solar Park of Asia

Waseem Malik, a UK-based Pakistani solar energy expert and member of a recent British Solar Trade Mission to Riyadh, said a snail-pace acceptance of solar energy is due to the fact that the general mindset in Pakistan is against it. "Dr Samar Mubarikmand called it inappropriate for poor nation like Pakistan, Dr Salman Shah termed it a gimmick and Ahsan Iqbal dubbed it as a fantasy," he said, adding: "I ask them how the Hindu banya has agreed to install 22,000MW solar power project if it is all about a gimmick and fantasy." He lamented that majority of economists and experts are trying to understand the solar technology and issuing premature statements. In addition, he said, the banks are not ready to finance the solar projects. He said it is quite amazing that countries like Nepal, Bhutan, Ghana, Sri Lanka, Saudi Arabia and China are going for solar energy, number of anti-solar voices are on the rise in Pakistan. According to him, the government has not yet set up training centre to prepare solar energy technicians and all reliance has been put on Chinese installers. He said Saudi Arabia is all set to install 54,000MW solar power project and it would be requiring 500,000 solar energy technicians in next five years, which would be provided by the countries like Pakistan and India. Therefore, he said, there is an urgent need of setting up a training facility to grab the upcoming opportunity. Waseem said advancement in solar energy projects may ensure poverty reduction, skill development and job creation in Pakistan. However, it is a dilemma that no one knows that who should be contacted for to meet such objectives in Pakistan, he added. According to him, Pakistan is one of the best countries with ideal solar radiation, as the temperature remains stick to 42 to 43 degree centigrade. It is an excellent radiation level against the countries where it crosses 50 degree centigrade, he added.

When asked about the Punjab government's initiative of replacing street lights with solar panels at the G T Road, he said only the bad workmanship would be a challenge, which needs capacity building to the international standards. He said these solar panels would be exposed to dust that would affect performance, as dusty panel will have low efficiency within two years. We need specially-designed polls instead of fixing the panels at such a height that it becomes difficult to keep them clean, he added. Similarly, he said about 8,000 controlled poultry sheds in Pakistan can also be converted to solar energy besides putting solar tube wells in the agriculture sector.

ISLAMABAD: Finance Minister Ishaq Dar urged the representatives of oil marketing companies and refineries to advise the government on the present pattern of oil imports and its marketing and suggest measures to further improve them. Dar stated this during a meeting with representatives of oil marketing companies and oil refineries held at the Finance Ministry on Wednesday. In his opening remarks, the finance minister said that oil constitutes a major portion of our imports and plays a critical role in the economy of the country. The present government, the finance minister said was engaging with oil companies as part of its policy to ensure that essential items like oil are available to the industry as well as for common use without any interruption.

The minister was briefed that Pakistan imports crude oil and oil products to the tune of \$15 billion and informed that the present stock of oil in the country was enough for 30 days. The finance minister said that it is important that we have a comprehensive data about the products and source of their imports for proper planning so that informed decision can be made about them. The meeting was attended by OCAC/CEO TPPL Chairman Marc Soissong, OCAC Secretary Aamir Butt, Byco Asia CEO M Wasi Khan, Byco Petroleum CFO Asad Khan, SPL Resident Manager Col Shuja Khan, BTCPL MD M Shakil Baig, PRL CFO Imran Mirza, PARCO GM (M&C) Syed Zawar Haider, PARCO Manager Finance Moazzam Mubarak, HPL Chairman Mumtaz Hassan Khan, APL GM (F&A) Rehmatullah Bardaei, APL Sr Manager (F&A) Mufaddal Shabbir, NRL Sr Manger Commercial S Qasim Ali Rizvi, PSO MD Amjad Parvez Janjua, PSO DMD Sohail Butt, PRL MD/CEO Aftab Husasin, PSO DGM Supply Akhtar Zamir, PSO DGM Zeeshan Haider, Byco Refinery GM Kamran Lari, Adviser Petroleum Zahid Muzaffar and Secretary Petroleum Abid Saeed.

Jura Energy announced that it has started drilling at Maru East-1 site in the Guddu block, situated in Central Indus basin, Pakistan. The exploratory well, which will target the hydrocarbon potential of the Pirkoh Limestone formation of Eocene age, is expected to have a depth of around 770m. Jura said that the Maru East-1 is located around 2km from the existing pipeline infrastructure of the Reti, Maru and Maru South development and production leases (Reti-Maru fields) in the Guddu block. The company has started commercial production at the Reti-Maru fields on 26 December, 2013. The Guddu Block has an area of about 2093.4 km², while Jura holds a 10.66% working interest in the block,



Coal power: Pakistan lags way behind India, China

The Express Tribune
January 26, 2014

Punjab's initiative to overcome energy crisis

Pakistan Today January 25, 2014 which is operated by Oil and Gas Development. Jura, which is based in Calgary, Alberta of Canada, is engaged in the exploration, development and production of petroleum and natural gas properties in Pakistan.

LAHORE - Coal is the only available indigenous and inexpensive alternate energy resource, which has the potential to not only ensure self-sufficiency in energy sector but also turn Pakistan into a power exporting country. Globally, the coal component contributes 41 per cent in electricity generation.

This was the upshot of the presentation given at a seminar on 'Coal-the future fuel of Pakistan industry'. The speakers said that it was very unfortunate that at a time when the coal is extensively being used for power generation all over the world, in Pakistan it is under utilized despite the fact that the worth of Thar coal reserves is more than oil reserves in Saudi Arabia and Iran having a collective quantity of approximately 375 billion barrels. They also appreciated the Punjab government for giving incentives for the establishment of coal-fired plants and expressed the optimism that the government would ensure one-window operations for the successful completion of Punjab government initiative. They said that the policy incentives like coal logistics through Pakistan Railways, power evacuation by National Transmission and Dispatch Company and land acquisition by Punjab government would help attract private sector investment.

LCCI President Sohail Lashari, addressing the seminar organized by the Lahore Chamber of Commerce and Industry in collaboration Petrocoal Synergies, said that the Lahore Chamber of Commerce and Industry was paring no efforts for the promotion of alternate energy resources while it had already arranged two seminars of Kalabagh Dam as it understands that country's future lies in cheaper energy. He said that the LCCI study for the establishment of a self-financed power project was well on way that definitely would pave way for other such projects in private sector. He said that the Lahore Chamber of Commerce and Industry would continue to supplement all government efforts aimed at improving energy situation in the country.

Coal expert Asad Wasi said that Pakistan was producing a very little portion of the total electricity being consumed when only two per cent of the Thar Coal can generate 20,000 MW of electricity for next 40 years without a single second of load-shedding, and one can well measure that how much energy Pakistan would have on utilization of the entire coal reserve. He said that more than 32 countries including America, China, Australia and Russia are presently producing power through coal while the UK generates 16 per cent share of electricity through coal, China 67 per cent, Canada 24 per cent and India 64.6 per cent. Coal gasification is a proven technology for small scale production and there is no technical reason as to why it cannot succeed on a medium to large scale. We should support those companies which are spending money and time to find a cost-effective way to generate electricity. He said that a number of industries including cement, steel, paper, textile, glass, ceramic and brick had already started utilizing coal for power generation but still there was a room for creating awareness about this great resource.

In its bid to fulfill another electoral promise for serving the masses by reducing load-shedding of electricity, Punjab Chief Minister Muhammad Shahbaz Sharif has reserved six appropriate sites for establishing coal power generation plants in the province. Thus Government of Punjab has once again taken the lead in devising the strategy to overcome the acute energy crisis in the country by adopting practical measures and encouraging production of electricity in the province along with efforts to lower its cost of production. It is very unfortunate that during the past few decades, no concrete steps had been taken. Even any sound planning had also not been made to meet the future energy requirements of 180 million population of the country. Lack of vision at the part of our planners and deficiency of commitment among the executors has been the major reason of this situation that we are facing today.

The prevailing energy crisis in Pakistan has not only decelerated our development but has also generated a number of socio-economic problems like closure of industries, unemployment, disruption in supply of basic amenities of life and other such issues. The situation is so critical that shortfall of electricity rises up to 5000 Mega Watts in the summer season, thus aggravating the already miserable situation.

More than 65 per cent of our total electricity is being produced through thermal generation. As a result of use of expansive furnace oil, the prices of electricity are always on the rise. This phenomenon, along with subsidies, inefficiencies and leakages in the power sector has resulted in inter-corporate circular debt. Punjab is the major load center of country and consumes about 68% of entire national grid fed electricity. Protracted load-shedding has crippled civic life, agricultural production, industrial output and commercial activities in Punjab. In addition to law and order problem, it has also led to shut-down of cottage industry and shifting of enterprises leading to further unemployment. It is sad to note that power deficit has hampered economic growth leading to poverty and obscuring economic opportunities. High cost of power generation results in consumer-end tariff which is not affordable for the majority of consumers. This has also adverse implications for competitiveness, as Pakistani producers cannot compete in the international market due to higher input costs. Government of Punjab has decided to earmark the sites for the establishment of coal based power generation plants. These sites would be offered to







private sector through open, competitive and transparent process. The intention is to help private sector quickly install power plants thereby minimizing the power deficit. Private Sector would also be eligible to suggest other feasible sites, which would also be earmarked for the purpose, if found to be according to criteria.

Given the prohibitive cost of oil, meeting energy needs, has become a challenge for both developed and developing countries. Every country is obliged to keep this subject on the top of its agenda. Pakistan is endowed with enormous reserves of coal in Thar, Lakhra and other places, but no serious effort had been made in the past to exploit these coal reserves and establish the coal-based power plants. At the current growth rate, Pakistan will require 26,000MW by 2020 out of which around 10,000MW could be produced from coal. Primary objective of coal development projects is to provide affordable, reliable and sustainable electricity to consumers using indigenous resources. Reliance on indigenous fuel and even imported coal-fired power plants will help save billions of dollars in foreign exchange, which are currently being spent on import of expensive RFO (Refined Furnace Oil). Pakistan is endowed with natural resources and minerals; if explored and utilized properly, it can become a self-reliant country and get rid of dependency syndrome. Weak economy, technical resource constraints coupled with flawed decisions of the inept governments in the past have brought the country to the present scenario.

Pakistan's power sector is at a development stage and needs massive investment; opportunities exist for foreign direct investment in energy sector. In the past, many a time it was suggested by experts to prepare a plan for gainful exploitation of the huge coal reserves but some 'vested interests' were reported to have obstructed the plan.

Government of Pakistan promulgated National Power Policy, 2013 to foster fast track development of electricity generation. The policy also provides guidelines for generating electricity from affordable energy resources. Power generation through coal has also been emphasized in the policy as this would re-balance the energy mix. All the federating units are expected to fast track energy projects in line with this Policy. Punjab has coal reserves which can potentially be used for power generation. Due to high sulphur and ash contents in Punjab's coal, the choice of technology is limited; however, efforts are being made to harness the potential of these reserves. The coal available in Balochistan is quite suitable for power generation but its regularity and reliability of supply is not assured. The development of Thar coal is also likely to take some time. It is thus obvious that Punjab has to rely on imported coal to meet its growing power requirement.

The energy economics of imported coal has to be viewed in comparison to RFO/LNG. Inland transportation of coal is an additional cost, which more or less is offset by cost of transmission of electricity, if power generation facility is installed at coast. In world's electricity generation, more than 40% percent comes from coal, whereas in Pakistan, less than 1% existing power is produced from coal. Coal is and will remain, a necessity, a key component in world electricity generating portfolio for the foreseeable future. Its price has remained generally stable as compared to those of oil and gas. Imported coal based power generation initiative provides a framework for establishment of sizeable power plants in Punjab. This initiative is essential for rapid and sustainable economic & social development in Punjab. Growing supply-demand gap where the demand for electricity outstrips the current generation capacity leading to a shortage of more than 4000 MW and 12-20 hours load-shedding in Punjab Province.

Most critical component of imported coal fired power plant is the reliable and regular supply of the specified coal in an uninterrupted manner. This requires long term contracts with the international coal suppliers, infrastructure at the port for handling coal and rail based transportation to the stockyard of the power plant. Pakistan Railways has made commitment for transportation of coal from coast to the project site. The project developing company must ensure sustainable supply of coal through Coal Supply Agreement(s) "CSA" with coal supplier and Coal Transportation Agreement (CTA), with Pakistan Railways or other transportation companies of their choice. The companies shall be pre-qualified and transparent manner. It is hoped that other provinces would also emulate Punjab Chief Minister Shahbaz Sharif and initiate power projects to solve the energy crisis.

ISLAMABAD: After a rather long gap, the government on Thursday issued 50 provisional licences for exploration of oil and gas to eight local and two foreign firms having minimum investment commitment of \$371 million.

Speaking at a press conference, Minister for Petroleum and Natural Resources Shahid Khaqan Abbasi said the government could not award licences for about four years because of teething problems vis-à-vis model concession agreement and petroleum rules formulated under the 18th Amendment which allowed greater say of provinces in matters involving their resources. He said that 21 of the new exploration blocks were in Balochistan, 15 in Punjab, eight in Khyber Pakhtunkhwa and six in Sindh. The agreements were awarded after resolution of all issues between the provincial governments. The minister said that 29 exploration blocks were awarded to the Oil and Gas Development Company Limited (OGDCL), 10 to the Pakistan Petroleum Limited (PPL), three to the Pakistan Oilfields Limited (POL), two to the Al-Haj Group, and the remaining ones to Mari gas, OMV of Austria, Ocean Petroleum, Oil and Gas Investment and Tallahassee of Canada. Mr Abbasi said the exploration and production companies were well-prepared to go into Balochistan

50 licences awarded for exploration of gas, oil

Pak Tribune
January 24, 2014







Energy crisis: 'New coal power initiative to generate 6.000MW'

The Express Tribune
January 23, 2014

Moving closer: Qatar agrees to slash price for LNG export

The Express Tribune
January 21, 2014

as they had undertaken the required research work and risk analyses before committing to the works. The minister said the OGDCL secured the highest number of new blocks in Balochistan (14), followed by PPL (four). Three other companies, including two foreign firms, were awarded the other blocks in the province. He expressed the hope that entry of these firms into Balochistan's relatively safe areas would encourage other companies to go into the province's difficult areas like Kohlu. Mr Abbasi said the government was scrutinising the cases of the companies which had earlier secured exploration blocks but failed to complete their works. He said the licences awarded to a few such companies might be cancelled and offered to new bidders. This exercise would allow re-tendering for at least seven blocks. Answering a guery, the minister said the government had sought opinion from independent legal experts about two divergent decisions of two high courts over the same question for the same region. He said one high court had given the verdict that natural gas should be provided to CNG stations but the other had handed down an entirely different judgment. He said the experts were also asked to explain whether the Potohar region fell under the jurisdiction of the Lahore High Court or that of Islamabad High Court (IHC). Mr Abbasi said he would appear before the IHC on Friday (today) because he had received a contempt of court notice.

LAHORE: Chief Minister Shahbaz Sharif said on Wednesday 6,000 megawatts of electricity will be generated through a new coal power initiative in the Punjab. Addressing a press conference at 180-H Model Town, he said the volume of investment for the project was around \$10 billion. He said coal-based power plants would be established at Qadirabad in Sahiwal district, at Bhiki in Sheikhupura district, at Haveli Bahadur Shah in Jhang district, at Balloki in Kasur district, at Tarinda Sawe Wala in Rahim Yar Khan district and at village Karamdad Qureshi in Muzaffargarh district. Shahbaz Sharif said these places had been chosen on account of their geographical location. "They are close to big cities or energy consumption hubs... electricity generated there can be easily connected to the national grid... there is also abundance of subsoil water in these areas." He said the provincial government would initiate and set up its two plants at Qadirabad with a capacity of 1,320 MW. He said the government would start the bidding process in mid February and contracts would be awarded by March, 2014. He hoped that these plants would become functional within two and half years. Shahbaz Sharif said investors from across the globe, including India, would be invited to bid for the other plants. "All bidding processes, advertisements and contracts will be finalised by March 2014...all plants will be operational in three to five years." The chief minister said \$7 billion would be spent on generating electricity. "The remaining three billion will be used for other expenditures... the investment will create thousands of jobs."

Why Punjab

He said the provincial government had earlier decided to set up coal-based power plants in coastal areas. Shahbaz Sharif said the plan was dropped because electricity losses during transmission from coastal areas to the national grid equalled the cost of transferring imported coal from coastal areas to the Punjab. He said during his visit to the Indian Punjab, he had discovered that coal-based power plants at Jhaghar and Achar Khand were using coal imported from thousands of miles away.

Why coal

The chief minister said, "India's share of energy from coal amounts to 70,000 MW... Europe generates 60 per cent of its energy using coal, and 65 per cent electricity generated in the world is generated from coal." He said 65 per cent energy generated in Pakistan was thermal-based and 35 percent was hydropower. He said coal-based energy in Pakistan amounted to less than 1 per cent. Shahbaz Sharif said the country imported fuel worth \$10 billion including coal worth US \$5 billion. He said the National Electric Power Regulatory Authority (NEPRA) had decided the electricity tariff — Rs19 for oil-based electricity and Rs9 for coal-based. "Super critical boiler power points will be used at the plants to lessen toxic emissions... the provincial government will follow all laws of federal and provincial environmental agencies."

Imported coal

The chief minister said there were 500 million tonnes of coal in the Punjab but its mechanical machining was not feasible. He said coal-based power plants needed thousands of tonnes of coal every day. "It is not feasible for manual mining... in the short-term coal will be imported," he said.

ISLAMABAD: Qatar has offered to revise the price down for export of liquefied natural gas (LNG) to Pakistan in a proposed government-to-government arrangement that will help ease acute energy shortages. "Qatari government has agreed to slash the LNG price further compared to its earlier offer during talks in Islamabad early this month," a source told The Express Tribune. The price will be negotiated and finalised in talks between ministers of the two countries in Doha on February 8. The volume of LNG imports would also come up for discussion. Petroleum Minister Shahid Khaqan Abbasi will lead the Pakistani delegation during the deliberations.

Earlier, during meetings with officials of the previous PPP-led government, Qatar had offered to export LNG at a price equivalent to 14.7% of Brent crude oil rate when it was







hovering around \$110 per barrel in the international market. Later, Doha pushed the price down to \$17.437 per million British thermal units (mmbtu), a 0.5% discount over the previous rate of \$18.002 per mmbtu for the 20-year lifetime of the project. The price did not cover capital cost of LNG terminal and its charges, import expenses, re-gasification, wastage and shipping costs. The additional costs would add about \$2.084 per mmbtu to the quoted price. Though the cabinet gave the go-ahead to Sui Southern Gas Company (SSGC) to purchase LNG from Qatar, but it did not approve the offered price. Sources said Pakistan and Qatar would also discuss, during talks early next month, the possibilities of forming joint ventures between state-owned companies of the two countries like Oil and Gas Development Company (OGDC) and Pakistan Petroleum Limited (PPL). According to a senior government official, the Qatari government is willing to make first delivery of LNG by November this year but it has stopped short of giving firm assurances. However, Qatari officials were flexible in finalising supply arrangements, he said.

Preliminary talks

On January 2, a delegation of Qatar Gas Company comprising Abdullah Ahmad Al Hussaini and Hamad Abdul Aziz Al Mahanadi held preliminary talks with senior officials of the Ministry of Petroleum and Natural Resources, Inter-State Gas Systems, Sui Southern Gas Company and Pakistan State Oil. Pakistan said it was eager to buy 200 million cubic feet of LNG per day (mmcfd), which would be re-gasified at the terminal being set up by Engro Vopak Terminal Limited (EVTL) at the Port Qasim and later injected into the system. By 2015, the volume will be increased up to 400 mmfcd. Pakistan is interested in importing two billion cubic feet per day in the next two-and-a-half years. According to the official, the Qatari delegation assured the Pakistani side that they had enough gas, but they did not commit any volume. They were just flexible and assessed Pakistan's requirement and progress on setting up the LNG import handling facility. Voicing satisfaction over the financial health of Pakistan State Oil – the oil marketing giant with extensive experience in importing and meeting oil needs of the country – the Qatari delegation believed that the company would encounter no difficulty in opening letters of credit for LNG import. Pakistani side said it would purchase some quantity of LNG from Qatar on a government-to-government basis and more would be imported through spot purchases from global markets.

ISLAMABAD: In an alarming development, India plans to build another dam on the Chenab River with the name of 1,380 MW Kirthai hydropower project in Held Kashmir, breaching the 1960 Indus Waters Treaty (IWT). The new project will not only damage water interests of Pakistan but will also inflict a huge blow to the environment of the lower riparian country. In a small stretch of the Chenab river basin, India is building numerous mega hydropower projects and dams to meet its energy demands. However, in doing so, it is aggravating environmental issues in Pakistan and threatening water security. The most disturbing fact is that Pakistan's authorities cleared the said project during the caretaker regime which hit the water interests of the country which has already been declared water stressed by international initiations. Indiacompleted the Kirthai Project Design Document on September 4, 2013, and applied the carbon credits from UN for clean energy to be produced from the said project. The upper riparian country can apply for carbon credit from UN only when the lower riparian country clears the design of the project and gets satisfied that the said project will not harm its environment.

According to Arshad H Abbasi, eminent water expert associated with the SDPI, the Kirthai Dam, is a blatant violation of the Indus Water Treaty and would submerge the beautiful Paddar Valley and its agricultural land of 900 hectares and thick conifer forest land of 160 hectares. Massive deforestation would have a serious local and trans-boundary environmental impact, while the construction activities would further accelerate the melting process of the glaciers in the Chenab Basin. The application of India in UN seeking carbon credit on Kirthai project shows that some unscrupulous officials during the caretaker regime cleared the project. But the sources said that the environment ministry had cleared the controversial project enabling India to claim the carbon credit. A source in the ministry of environment insisted that India is close to get the first installment of carbon credits from UN.India has claimed Carbon Credits against 1,335,828 ton of carbon at initial level. Later, another claim for 3,390,948 ton of carbon will be claimed to make the project more economically viable.

When contacted, Commissioner of Pakistan Commission of Indus Water (PCIW), Mirza Asif Beg said he is rendering services as PCIW commissioner for the last one and half years, this project has never been in discussion with his counterpart in India.

Under the Treaty, India is bound to share its design with us 6 months before the construction of the project on Pakistan's rivers. However, he admitted that India can apply for carbon credits from UN agencies after the completion of the Kirthai Project Design Document. Mr Beg said that Ministry of Environment is the ministry concerned which clears such projects after assessing the said project is not detrimental for Pakistan's environment. When contacted, Environment DG Asif Shuja said that his ministry has not cleared the Kirthai project. However, India can apply for carbon credits from UN, but the validators in UN are bound to seek the clearance from Pakistan as lower riparian country as to whether the said project is harmful for the trans-boundary environment or not. "So far, the validators did not approach the CDM (clean development mechanism) cell in the

India plans new dam on Chenab violating Indus water treaty

The News

January 21, 2014







ministry." The 1380MW Kirthai Dam (Kirthai I of 390MW and Kirthai II of 990MW) stands as a stark reminder of how Pakistan failed to defend its water and energy rights. Documents available with The News show that the government of Jammu and Kashmir tried to conduct the Environmental Assessment Report in 2009, but without consulting people of the Paddar Valley. Although the project has serious trans-boundary environmental issues that have yet to be addressed by the Indian Authorities, the project even got cleared by the authorities of the lower riparian country — Pakistan.

According to the design document of the controversial project, the dam and powerhouse site are located in the village Gulabgarh in Paddar Tehsil of Kishtwar District of Jammu and Kashmir, about 315km away from Jammu. It is approachable through a highway up till Batote, and beyond Batote up to Kishtwar. The 80km road from Kishtwar to Gulabgarh is mostly blacktopped. The elevation of the site is around 6,000 feet. The drainage area of the Chenab River up to dam site of Kirthai - I H E Project is 8530sq km, out of which 4608 Sq km are snow-fed and the rest 3922sq km are rain-fed. The basin receives precipitation round the year. During December till May, precipitation is mostly in the form of snow except in May when snowfall is confined to higher altitudes. During July to October, the precipitation is due to monsoon activity. June and November are the months of least precipitation. The mean annual precipitation over the Basin up to Kirthai dam is 750mm. The Kirthai Dam was perceived in 1986 and detailed geological and other site investigations started in 1989 and completed in March 2005. A detailed project design and drawings were completed in December 2008. "The government of Jammu and Kashmir tried to conduct the Environmental Assessment Report in 2009, but without consulting people of the Paddar Valley. And on top of it project has serious trans-boundary environmental issues," the sources said. As per glacier inventory, almost 359 glaciers spread over 1,414 square kilometres (km2) in 1962 in the Chenab basin, but they reduced to 1.110km in 2004, with a 21 percent reduction in the area.

According to a rough estimate, glacier areas have been reduced by 29 percent in 2010. Melting of Glaciers in the Chenab River and a decrease in snow cover area, coupled with massive deforestation would severely impact river yield. As a consequence, Pakistan would suffer.

ISLAMABAD: China is demanding that all mega power projects, including the Bhasha Dam, Gaddani and Lakhra coal plants, the Tarbela Extension project and many transmission lines, be handed over to China without any international bidding process, and Beijing will directly invest \$22 billion in Pakistan.

The Nawaz Sharif government is eager to accept this huge Chinese offe, and a loophole in the PPRA rules is being used to hand over all these mega projects to China. "Beijing will extend the preferential and medium term soft loans of \$22 billion to Pakistan against the guarantees of the government of Pakistan", a senior official who was part of the recent meeting of the Pak-China Joint Working Group (JWG) held on January 7-8 in Beijing told The News.

"We have carved out a plan to capitalise on the opportunity that Beijing has extended to Pakistan. Under the plan, Chinese companies will be offered the coal and hydropower and huge transmission line projects under a direct contracting regime which is not against the PPRA rules," the official said. The Ministry of Water and Power has already sent a summary to the Law Division for vetting. The vetted summary allowing the mechanism ofadoptingthe direct contracting regime will then be sent to the Ministry of Finance for a final nod. In case of no objection, the projects will be given to the Chinese companies. The Chinese companies have, the official said, refused to take part in international competitive bidding (ICB) to get the contracts in Pakistan's power sector arguing if Pakistan wants funding from Beijing for various projects, then it will also have to hand over the projects.

Top officials in the power ministry have found a way out of introducing a direct contracting regime, which is permissible in the PPRA rules, to accommodate the desire of Chinese companies. In the Joint Working Group meeting held in Beijing an 18-member Pakistan delegation took part. The meeting was co-chaired by Wu Xinxiong, of the Energy Administration (NEA) of China and Khawaja Muhammad Asif, Federal Minister for Water and Power. Beijing offered the huge credit line based on insurance to promote and sustain the development of Chinese energy projects in Pakistan.

During the recent visit to China, the Three Gorges Corporation extended an offer for 100 percent funding for Pakistan's most strategic project, the Diamer-Bhasha Dam, worth \$11.8 billion that will have a capacity to store 8 million acre feet of water and generate 4,500 MW of electricity. The Chinese company said it will provide the whole funding but the project should be handed over to it without holding any International Competitive Bidding (ICB). The said company showed its willingness to immediately release \$5 billion to Pakistan for the Diamer-Bhasha Dam so that it could start constructing the dam.China has also offered to install the coal power project of 660 MW in Gaddani and 2x600 MW coal based projects in Thar and 2x600 MW coal based project in Lakhra. Pakistan needs almost \$16 billion investment to develop the Power Park of 600 MW in Gaddani with jetting and a transmission line. China has also offered to provide \$4 billion for evacuation of 6,600 MW through the transmission line, but it demanded the handing over of the project of transmission lines. China also offered \$700 million for the Tarbela extension V project which if completed will provide 1,400 MW electricity at cheaper rates. The Tarbela

China reveals its cards for investing \$20 billion in Pakistan

The News

January 20, 2014







Privatisation of energy transmission opposed

The News January 19, 2014

Energy, mining sectors
Australia can provide
professional expertise to
Pakistan: HC

Business Recorder January 19, 2014

Denmark offers assistance to Pakistan in green energy

Pakistan Observer January 18, 2014 Extension IV project of 1,400 MW is already under way and will be completed by 2017.

KARACHI: Dr Asim Hussain, former petroleum minister and chairman of the Petroleum Institute of Pakistan (PIP), has opposed the privatisation of the energy transmission in the country. "The transmission and distribution system should not be privatised, as it is not in the best interest of the country," he said on the sidelines of the launching of the Pakistan Energy Outlook document. With an extensive power transmission and distribution grid connected to 23 million consumers, Pakistan has a sound basis for building up its power delivery sector with significant upgradation and strengthening of the grid required to minimise losses. Hussain disclosed the future role of PIP to establish as a think tank and advisory body in the energy sector, adding that efforts are underway to develop a high-level roadmap with the energy solutions to develop the domestic energy sector of Pakistan. "We will be holding consultative meetings and seminars to develop the roadmap with consensus. It will be segmented into short-term (five-year), medium-term (10-year) and long-term (15-year) time horizons, which will be the part of PIP's recommendations to the government with an objective that these recommendations should be implemented for a brighter energy future of Pakistan," Asim said. Asim said that PIP has widened its coordinating role, as the country charter member for the global bodies such as International Gas Union (IGU) and World Petroleum Council (WPC). "PIP will be unique in these activities since no other energy sector entity in Pakistan performs these tasks." Academy and Finance, which is a Swiss national committee of WPC, is organising an international conference on Gwadar in April 2014, he said, adding that the focus of the conference is the Gwadar Port and the Gwadar-Kashgar energy corridor, which will open vast investment opportunities in energy transportation, refining and power generation. "We have been requested to become partners for that conference and PIP will contribute in this conference through the inputs of our members," he added. Dr Hussain said that the proposed energy blueprints in the Pakistan Energy Outlook, if implemented, could allow the Pakistan's energy sector to nurture and turn out to be the engine for the social and economic development of the country.

Australia can provide professional expertise to Pakistan in energy and mining sectors to beef up the bilateral ties between the two countries, said Australian High Commissioner to Pakistan Peter Hayward, here on Saturday. He was speaking at a programme titled 'Pakistan-Island of Excellence', organised by the Marketing Association of Pakistan (MAP) at a local hotel.

The event was well-attended by people from different walks of life including businessmen, students and civil society members. The High Commissioner said that Australia and Pakistan enjoyed cordial relations, adding that both countries also shared many commonalties in different economic sectors. He said that economy size of the Australia is very big but its population is very thin in size as compared to Pakistan. "Geographically, we are massive country but our population size is very thin as most of the population live around coastal belt," Hayward informed the participants. He said that trade volume between the two countries is around 800 million dollars. "There is imbalance in trade between Australia and Pakistan, out of \$800 million, Australia's exports to Pakistan is \$600 million," he added. He said that some 10,000 Pakistani students are studying in Australian universities and other institutes that has created strong bond between these countries. He said that Australian top universities are also collaborating with Pakistani institutes. He said that Australia is the biggest producer of dairy products, adding that now Pakistani farmers have also started breeding Australian cows. He said Australia could help Pakistan in energy and mining sectors. "Australia exercises best practices in energy and mining fields, its engineers and other technical experts have been recognised all over the world," he said. He said that Balochistan is the mineral rich province of Pakistan and Australia could help Pakistan in exploring minerals from the province. He said that Pakistan needs to correct its image on international level, adding that awareness of opportunities in different sectors could be made in both countries. Earlier, Talib Karim of Marketing Association of Pakistan (MAP) welcomed the chief gust and other participants. Ali Hassan of MAP also spoke on the occasion.

ISLAMABAD - Denmark has offered assistance to Pakistan in adopting the technology of green energy. The Danish Ambassador made the offer to Pakistan Jesper Sorensen at a meeting with Minister of State for Water and Power Abid Sher Ali here on Friday. According to the Ambassador, a new world record was set in Denmark last month.

In December 2013, 57 per cent of all electricity produced in Denmark was generated by wind power. On one single day, December 21, windmills produced more electricity than the total Danish consumption.

Denmark has a goal of becoming the world's first completely fossil fuel free country by 2050. Ambassador Sorensen informed Minister of State for Water and Power, Mr. Abid Sher Ali that he would be going to Denmark next week to meet Danish businesses, including green energy companies to discuss the potential of the Pakistani market. As some Danish companies have concerns about the security situation in Pakistan, the Embassy is offering to help identify relevant Pakistani partners. As the Minister of State for Water and Power expressed gratitude to the Embassy of Denmark for increasing its focus on expanding investment and trade ties with Pakistan, Ambassador Sorensen responded: "Investments in Pakistan will surely create more jobs and economic growth - to the benefit







Steps urged to overcome energy shortage

Dawn

January 18, 2014

Pakistan's Oil & Gas to Boost Supply as Deficit Hurts Growth

Bloomberg

January 16, 2014

of the people of Pakistan and of Denmark.

KARACHI: Pakistan's energy deficit is likely to reach 110.8 million Tonnes of Oil Equivalent (TOEs) in the next 15 years if average gross domestic product remains around 4.5 per cent, according to a document issued by the Petroleum Institute of Pakistan (PIP) on Friday. The document, Pakistan Energy Outlook (PEO) 2013-2028, predicts that country's energy demand would grow to 147.78m TOEs by 2027-28 against the domestic resources of 36.90m TOEs in the same year.

Addressing a media briefing at the launch of PEO, PIP's chairman and former adviser to the prime minister on petroleum and natural resources Asim Hussain said that Pakistan Energy Outlook is a flagship document of the institute, and has been prepared with the help of independent consultants taking into account energy demand-supply models based on the economic realities of the country. "Recommendations identified in this document provide long-term energy solutions for Pakistan to secure higher GDP growth and economic development on sustainable basis," Mr Hussain said. He maintained that mobilising and generating affordable and environment-friendly energy resources are one of the key challenges. He urged the government to work together with the petroleum industry in framing the policies. To a question why there is so much stress on import of LNG these days when Pakistan itself has vast gas reserves and other indigenous options, Mr Asim Hussain said, "Expensive fire is better than no fire at all." He said that even gas producing countries, like Qatar, are now diversifying their energy mix by considering other possibilities. He said that besides utilising indigenous resources, Pakistan should also look for import options, too.

Presenting the outline of the PEO, Mr Akhtar Raza of Enar Petrotech said that the energy deficit will have to be met through the import if coal, oil and gas as domestic production is likely to be insufficient.

Recommendations

The document recommends the government and other stakeholders to efficiently utilise natural gas; strengthen regulatory institutions to facilitate partnership between public and private sectors; make policy for aggressive exploration and production (E&P) to incentivise exploration of on-shore and on-shore oil, gas, tight gas and shale gas; fast-track indigenous coal projects, import of LNG and cross-border gas pipeline projects to improve the country's energy mix, exploit renewable energy resources; cut transmission and distribution losses in the power sector; and develop a competitive market to root out pricing distortions in the energy sector. The PIP is a non-government body established in 1963 by the oil and gas industry with a vision to establish itself as an energy advisory body.

Oil & Gas Development Co., Pakistan's biggest energy explorer, will boost gas output from existing fields by a third in the next 12 to 18 months as energy shortages hamper growth and shut factories. "We are working on six projects and expect to increase gas supplies by about 350 million cubic feet a day," Chief Executive Officer Muhammad Riaz Khan said in an interview yesterday. "The major portion of gas would come in this financial year" which ends June 30, he said. New supply is needed to ease gas shortages that widened to about 2 billion cubic feet a day during peak hours this winter causing social unrest and shutting factories in the nation of over 196 million people. Pakistan's production of natural gas has plateaued since 2008, the country's central bank said in a report yesterday.

Gas from existing reservoirs of Kunnar Pasakhi Deep, or KPD-Tay project, Uch, Sinjhoro, and Jhal Magsi fields in southern Sindh and southwestern Baluchistan province, and from two fields in northwestern Khyber-Pakhtunkhwa province will add to the company's existing production of about 1,100 mmcfd, Khan said at the company's headquarters in Islamabad. Gas shortages have forced power plants run by companies such as Hub Power Co. and billionaire Mian Mohammad Mansha's Lalpir Power Ltd. to expedite plans to switch to coal. Pakistan's power sector is heavily dependent on gas and supply constraints have led to a cut in electricity production.

'Depleting Discoveries'

"Previous major discoveries like Sui in Baluchistan from where we get major supplies are old and depleting and there haven't been any new discoveries," said Nauman Khan, an analyst with Karachi-based Shajar Capital Pakistan Pvt., who has a buy rating on OGDC. "The security situation in Baluchistan is definitely hurting the exploration program," Baluchistan, which shares a border with Iran and Afghanistan, has been facing an insurgency by separatists. OGDC has gained 55 percent in the past year, compared with a 65 percent increase in the benchmark KSE100 index. The shares, with the highest weightage in the benchmark index, fell 0.5 percent to 286.46 rupees as of 12:45 p.m. in Karachi. The company plans record spending of 90 billion rupees (\$853 million) on drilling 34 wells this financial year, including 15 development wells and 19 exploratory and appraisal wells, Khan said in August. OGDC, which delivers a quarter of Pakistan's gas output, would also add about 7,000 barrels of oil a day to its existing production of 45,000 barrels a day, in the next 12 to 18 months, Khan said. The increase in production will help the company post better results and "net profit this year would be far better than the last year," Khan said, without giving specific numbers. OGDC's net income declined for the first time in five years to 90.8 billion rupees in the year ended June 30, according to data







China helping Pakistan meet its energy needs

Daily Times
January 16, 2014

Nandipur power plant: TI Pakistan highlights discrepancies in project

The Express Tribune
January 11, 2014

compiled by Bloomberg. The explorer is also in the process of hiring consultants to carry out studies on shale gas, shale oil and tight gas in five different basins in the South Asian nation. Khan said.

China continues to bolster its relationship with Pakistan by playing host to a three-day Energy Working Group in Beijing. Concluded on January 9, it was hailed as a success by representatives from both countries. In a statement, Water and Power Minister Khwaja Asif said the meeting had been productive and beneficial to both the countries, and hoped that it would continue to strengthen Pak-China relationship. "It would also help start new projects in the energy sector," he said. China has agreed to grant a loan of \$6.5 billion to Pakistan to construct twin nuclear power stations in Karachi. It is envisioned, this will add 15 percent to the energy capacity of the country. Pakistan desperately needs investment in its energy sector, as prolonged outages of both gas and electricity are wreaking havoc on the country's economy. Construction of the power plants, Kanupp II and Kanupp III (K-2 and K-3), began last year. China has also pledged to provide two nuclear reactors to Pakistan. Prime Minister Nawaz Sharif has conveyed his appreciation, saying, "It will be a big source of energy supply to Pakistan." This is the largest Chinese financing deal for a single project to date. Pakistani officials recently revealed that loans for the energy projects would be repaid over the next 20 years. The loan was granted despite an international nuclear embargo on Pakistan, which Pakistan's Foreign Ministry believes India and the US is largely responsible for. In a press briefing in December, Foreign Ministry's spokesperson said, "Some countries are engaged in an international campaign against cooperation between Pakistan and China in the field of nuclear energy. The aim of this campaign is to deny nuclear power, material and technology to Pakistan." This effort, the spokesperson implied, is being led by the US and India.

A Chinese scholar, the executive director of the Pakistan Study Center at Sichuan University, Chen Jidong, also defends this nuclear partnership. He writes in China's The Global Times, "Pak-China nuclear cooperation would help mitigate Pakistan's energy shortage besides deepening bilateral strategic partnership between the two countries." The chairman of Pakistan Atomic Energy Commission (PAEC) Ansar Parvez also supported the collaboration.

Addressing the media at another nuclear power plant, Chasma, he said, "A number of joint declarations signed by the two countries have shown their plans for civilian nuclear cooperation. This will also allow Chinese nuclear companies to secure more business deals with Pakistan to help meet the demands for civilian use of nuclear power." He also said, "Two new reactors in Karachi should convince everyone that international embargoes and restrictions and Indian lobbying won't stop us." He added that after Karachi, the government has now initiated the process for building nuclear plants at two other sites. However, at a seminar last week on the impact of K-2 and K-3 along the coastal areas, Pakistani experts, Dr Hoodbhoy and Dr AH Nayyar, opposed the construction of these power plants citing issues of safety, design and cost.

LAHORE: Transparency International (TI) Pakistan, while highlighting inconsistencies in the Nandipur power project, has asked the government to fix responsibility on the people behind unsolicited award of contracts and the delay, which has caused a loss of over Rs13.87 billion to the public purse.

The suggestion came in the wake of a letter sent by the Ministry of Water and Power on September 9, 2013, which requested TI Pakistan to "review critically the contents of revised PC-1, contract agreement and Amendments 1 & 2 to highlight discrepancies and make suggestions, if any, to save taxpayers' money."

In its letter addressed to the prime minister and the minister of water and power, TI Pakistan said the Ministry of Water and Power awarded the engineering, procurement and construction (EPC) contract to Dongfang Electric Corporation, without inviting tenders, in violation of Public Procurement Regulatory Authority (PPRA) rules. This was also against the decision of the Economic Coordination Committee (ECC), which said provisions of Public Procurement Rules 2004 should be kept in view in the bidding process, it said. In its report, TI Pakistan has critically reviewed the contents of revised PC-1, contract agreement and Amendments 1 & 2 to the provisions. It has not carried out any cost audit. TI Pakistan, however, reviewed the process adopted by the Ministry of Water and Power in determining cost variation in the revised PC-1 amounting to Rs58.416 billion, which was proposed in January 2013. The process was in line with the terms of the contract agreement reached with the contractors and also complied with government rules. An increase of Rs21.208 billion in the cost in the revised PC-I had to be paid even if the project would have been completed on time.

According to the revised PC-I, additional payments of Rs12.325 billion are being made to the contractors, of which compensation for the delay is Rs6.538 billion and the cost of additional work items is Rs5.787 billion. The exchequer has suffered a loss of Rs13.837 billion because of the delay caused by the Ministry of Law and Justice. Project cost estimated at Rs58.416 billion is based on the rupee-dollar parity of Rs96 and the final cost after completion of works is likely to cross Rs60 billion on the back of currency fluctuation, said TI Pakistan.

According to Amendments 1 & 2, the capacity of the project - a combined cycle power



Energy demand: Pakistan for expediting LNG import from Yemen

The Express Tribune
January 8, 2014

Pakistan, China to set up energy planning group

Gulf Times

January 8, 2014

Energy woos: PM seeks

plant – is 425MW, and not 525MW. Enhancement of gross capacity by 25% from 425MW to 525MW with gas fuel is very ambitious. Expert opinion taken by TI Pakistan indicates the capacity increase may not be over 10% due to the use of gas fuel. As the revised PC-I was prepared in December 2012, the gas station was added under the previous government policy. But as the policy has shifted under the present government to "new power plants based on hydel, coal, wind and solar only", the gas station may be deleted to save public money. Lessons should have been learnt from the case of two gas-based Rental Power Plants' (RPP) contracts awarded in 2006, TI Pakistan suggested. Both the plants did not operate for a single day and the government ended up paying billions of rupees in rent for five years (about \$8 million per month), as gas wwwas never made available. It also asked the government to exercise strict controls in finalising the cost of tentative provisions amounting to Rs13.336 billion in the revised PC-I of 2013. Amendment 2 does not include handling of fuel and ash, waste water treatment and equipment of Rs1.372 billion, neither any civil work structure enhancement at a cost of Rs1.647 billion. Owing to non-inclusion of oregoing costs, the interest during construction will be substantially reduced. All insurance guarantees and policies should be placed with National Insurance Company of Pakistan to safeguard public money. In order to save taxpayers money sunk in the project, work on it should be completed expeditiously in spite of the faulty award process.

ISLAMABAD: President Mamnoon Hussain on Tuesday invited investment from Yemen in the energy, oil and gas sectors, urging the two sides to move for early finalisation of arrangements for import of liquid natural gas (LNG) from Yemen. In a meeting with the visiting Yemeni Minister for Industry and Trade Dr Saadaldeen Ali Salim Talib, Hussain said the expeditious finalisation of import of LNG from Yemen would help Pakistan cope with energy issues and bolster trade and commercial ties between the two countries. Both sides discussed bilateral relations and matters of mutual interest.

Welcoming the Yemeni minister and the accompanying delegation on their visit to Pakistan in connection with the meeting of the Joint Ministerial Commission, the president hoped that the visit would prove instrumental in further enhancing existing bilateral relations between the two countries, particularly trade and commercial ties. The president said that Pakistan valued its cordial relations with Yemen and desired to further strengthen bilateral cooperation in diverse fields for the mutual benefit of the people of both countries. He emphasised the need for concerted steps from both sides to boost bilateral trade volume through increased cooperation in various sectors. Highlighting the growing energy requirements of Pakistan, Hussain said that the government was offering incentive packages for investment in power and energy sectors to meet growing challenges of energy in the country. Dr Talib said that Yemen attached importance to its relations with Pakistan and was keen to explore ways and means to further enhance bilateral trade and commercial ties.

ISLAMABAD - In a major development, Islamabad and Beijing have agreed to set up an energy planning working group to help Pakistan wriggle out of its energy crisis. This was announced during a meeting of the third Sino-Pak energy working group and first energy working group of China-Pakistan Economic Corridor meeting held in Beijing, an official statement said here yesterday. The meeting was co-chaired by Administer of Energy Administration (NEA) of China Wu Xinxiong and Federal Minister of Water and Power Khawaja Asif of Pakistan. Islamabad will also take advantage of export credit insurance from Beijing to promote and sustain the development of a Chinese energy project in Pakistan. The working group, however, expressed concern on the \$448mn financing process for Neelum-Jhelum Hydropower project, which is to be jointly developed by EXIM Bank of China (EIBC) and the Ministry of Economic Affairs Division of Pakistan.

According to the minutes of the meeting, EIBC would now pay close attention to the Chinese government's approval on the project's insurance-free status and accelerate the relevant procedure so as to release the first batch of loan in the shortest time. Further, according to the minutes of the meeting released to the media, the International Cooperation Department of China's National Energy Administration and Ministry of Water and Power, Pakistan would take the lead on the respective sides to take charge of the specific work of the energy planning working group and establish a working plan and timetable before the end of February 2014. China will play pivotal role in completing the feasibility study of the 6600MW Gadani Power Park and development of its power transmission and transformation circuit and power distribution and distribution grids.

In the meeting, the two parties agreed to make nuclear cooperation as one of the priorities for energy cooperation between the two countries. Both parties agreed that China-Pakistan nuclear co-operation would continue to move forward in a sound and steady manner and the all-weather strategic partnership between Pakistan and China would be consolidated and developed. The two sides also noticed that fruitful achievement has been established in the cooperative construction of nuclear power between China and Pakistan. Two inservice 300,000KW generator units of Chashma nuclear power plant have operated in good condition and the construction of the other two 300,000KW generator units has been smooth. In the meeting both sides were satisfied with previous projects and were willing to continue cooperation on new projects such as Chashma 5 and Muzaffargarh 1-2 units.

Prime Minister Muhammad Nawaz Sharif, Tuesday, said that Pakistan and Saudi Arabia had always stood by each other in testing times and the people of Pakistan deeply value







Saudi Arabia help

The Nation

January 7, 2014

Pakistan producing nuclear energy for economic development: Ahsan Igbal

Business Recorder

January 2, 2014

relations with the Kingdom.

While speaking at a meeting Saudi Foreign Minister Prince Saud Al-Faisal bin Abdul Aziz Al-Saud, here at PM House, Prime Minister said that "there was a need to start a new era of Strategic Relationship between our two fraternal countries in order to further broaden and deepen the existing cordial bilateral relations". Pakistan and Saudi Arabia need to enhance bilateral trade to reflect the strong fraternal bonds that exist between our two countries by regular meetings between the Commerce Ministers to explore ways of enhancing bilateral trade, said the Prime Minister. Both the leaders discussed Issues of bilateral and regional importance.

While discussing the energy situation of Pakistan, the Prime Minister said Pakistan would welcome investment by the Kingdom in Energy Sector especially, and other sectors like Infrastructure, Agriculture and Livestock. Prime Minister stressed that his government wishes to enhance economic and business ties with the Kingdom. Pakistan is ready to grant privileges to businessmen, he added. Discussing the Afghan situation, Prime Minister re-affirmed that Pakistan remains committed to facilitating Afghan-led and Afghan-owned peace and reconciliation process adding that a peaceful and stable Afghanistan is in Pakistan's interest. Pakistan supports all efforts aimed at strengthening unity among the Islamic countries, said the Prime Minister.

Prime Minister thanked the Saudi Government for extending help to Pakistani workers who were affected by the recent labour laws enacted in the Kingdom. Prime Minister said that the large Pakistani community in Saudi Arabia is a human bridge between our two brotherly countries who would continue to play a vital role in the development of KSA and added that the skilled manpower can meet the future human resource needs of Saudi Arabia. Prime Minister also conveyed, on his own behalf as well as on behalf of the people of good wishes Pakistan pravers for the good health and and During the meeting, Saudi side was represented by Khalid bin Ibrahim Al-Jindah, Secretary Ministry of Economics and culture, Yousaf bin Tarrad Al-Sadoon DG office of Prince, Osama Ahmad Naqil, Director Information department and H.E Dr. Abdul Aziz Al-Ghadeer Ambassador of KSA to Pakistan. The Pakistani side was represented by Ishaq Dar Minister for Finance, Ch. Nisar Ali Khan Minister for Interior, Sartai Aziz Advisor to PM on National Security and Mr. Tariq Fatmi Special Advisor to PM on Foreign Affairs.

CHASHMA: Federal Minister for Planning and Development, Prof. Ahsan Iqbal said Thursday that Pakistan was a legitimate nuclear power and it has right to produce nuclear electricity for economic development of the country. He said this while addressing on the occasion of dome placement of Chashma-IV nuclear power plant here. The power plant is being constructed with the joint venture of Chinese Company China National Nuclear Cooperation (CNNC) and Pakistan Atomic Energy Commission (PAEC). The C-3 power plant is already under construction and by 2016, both C-3 and C 4 will be adding about 640 MW electricity to national grid. Prof. Iqbal said Pakistan is a responsible country which could produce nuclear power for peaceful purpose. In near future when all the four power plants would be operating and producing nuclear energy simultaneously, the area of Chashma will become hub of nuclear power generation, he added. The Federal Minister informed the gathering that the government is looking for installing more nuclear power plants and in this regard PC-1 of the three sites have been approved by the Central Development Working Party (CDWP) and will be sent to Executive Committee of National Economic Council (ECNEC) soon for final approval.

The PC 1 for site of nuclear power plant at Muzaffargarh has also been approved by the CDWP, he informed. "We live in the age of economic competition where the failure or success of a country is determined by its economic strength", the minister said adding the country needs to learn from China in this regard. He said the year 2013 marked a milestone in the history of relationship between the two countries when the Prime Minister Nawaz Sharif during his visit to China signed agreements to develop economic corridor in the region. Recently, he said the Chinese Prime Minister has reassured Prime Minister Nawaz Sharif that he was supervising the progress of the agreements and with the completion of this, Pakistan will become center of trade and economic activities in the region. Highlighting the current energy crisis in the country, the minister said that currently "we are heavily depending upon oil based power generation which can not be run on sustainable basis". "The government is working on different power projects including Gadani Power Project will produce 6000 MW electricity", he said adding Dasu and Diamer Bhasha hydro power projects, once completed, will produce over 9000 MW electricity. The minster said the government is focusing on three priority areas including security issues, energy and taxation system to enhance GDP to 7-8 percent which would strengthen the national economy. In his welcome address, Chairman PAEC, Dr. Ansar Parvez said that after the dome placement of the C-4, the project will enter into the installation process, adding the project will start producing electricity by 2016. Enough safety measures are in place for all of our nuclear plants and there is a track record to support the claim, he added. Li JI Ze, head of Chinese delegation and chief accountant CNNC said on the occasion that Pakistan and China are working for the peaceful utilization of nuclear energy. He said construction of these power plants is reflection of warm and friendly relationship between the two countries.





HUMANITARIAN INTERVENTIONS

Rising Electricity Tariffs
- from NEPRA's
Determination to
Consumers' Electricity
Bill

www.ips.org.pk

January 30, 2014

Experts at a seminar on energy at Institute of Policy Studies, Islamabad were unanimous in the view that the main reasons for the high tariff rates in resource-rich Pakistan were governance related due to the short-sightedness of policy-makers, corruption, mismanagement, and unavailability of the right people at the right places.

The seminar titled, "Rising Electricity Tariffs - from NEPRA's Determination to Consumers' Electricity Bill", held on January 29, 2013, was addressed by Salahuddin Rifai, senior energy expert, Syed Salman Rehman, tariff expert and assistant director at NEPRA, Waheed Akram, IESCO's manager customer services, Ameena Sohail, IPS associate and coordinator of its Tawanai program. Mirza Hamid Hasan, member IPS-National Academic Council and former secretary water & power chaired the program. It was highlighted that the existing power tariff in the country was Rs14 and with the addition of 17 per cent GST and 3.5 per cent excise duty it becomes Rs16.95, which was the highest in the region. Criticizing the short-sightedness of the Pakistan's energy managers the expert speakers and participants of the seminar viewed the overwhelming share of fossil fuel based power generation as the main cause of the exorbitant per KWH tariff in Pakistan. It was revealed that in India and Bangladesh the tariff for the same unit was Rs7.36 and Rs5.47 respectively. Even in the US it was equal to Rs8.59.

Presenting an overview of the country's energy planning since the beginning, Salahuddin Rifai informed the participants that WAPDA started at 118 MW installed capacity, 700 GWH generation, PKR70 million revenue and 270,000 consumers. The power sector of the country was self-financed at the beginning. Till mid-1980s the power generation of WAPDA increased to about 5700MW through projects build out of its own profits and government loans on 17-18 per cent compound interest. The government stopped providing loans to WAPDA in 1985. He further informed that the load growth during 1960 to 1985 was tremendous: up to 18 per cent annually. The World Bank undertook to finance 60 per cent of development on condition of 40 per cent self-financing by WAPDA out of its own profits. In 1985, the concept of private power generation was introduced and the federal government floated the first tender. He lamented that in 1988 the first MOU was signed for the furnace-oil based 1292MW Hubco plant out of tens of offers and Pakistan became the first country in the Third World to have private power generation, that too on furnace oil and exorbitant costs. He also criticized the financial terms of the Hubco agreement agreed by the government of Pakistan.

Presenting data on achievements of targets against planned targets in installed capacity of power generation from 1955 to 2010, Rifai told that the progress from the first five-year plan (1955-60) to the eighth five-year plan (1993-98) was quite satisfactory. Unfortunately, however, no addition was planned in the ninth five-year plan (1998-2003) and only a deplorable six per cent target was achieved against the planned 7880MW in the Medium Term Development Framework (2005-2010). He said due to this failure, today, the electricity shortfall has reached 3916MW. He blamed the pro-furnace oil government policies for power generation for the current energy crisis and warned that the fuel cost in 1994 policy of Rs0.60/KWH, which increased to Rs15 in 2013 may go to Rs100 in 2025 if the international oil prices continue to increase with the same pace. NEPRA's Syed Salman Rehman apprised the participants of the tariff determination mechanism of the Authority and claimed that despite of regular public hearings for tariff determination there was very little contribution on the part of consumer organizations and representatives in the process.

IESCO's representative Waheed Akram informed that the distribution company was collecting 'more' than 100 per cent bills from private, commercial and industrial customers and around 25 per cent of an average bill also consists of various taxes that the government was collecting through the DISCOs. However, he informed, the recoveries from the government sector were only 53 per cent. Interestingly, the AJK government pays only Rs2.2 per unit to IESCO against the NEPRA determined tariff of Rs12 for government departments, he disclosed. Ameena Sohail urged NEPRA and other power sector organizations to make meaningful efforts to create awareness among the consumers about tariff determination and billing. DG-IPS Khalid Rahman, in his concluding speech, suggested that building formal linkages with universities and think tanks can help NEPRA in generating creative solutions to the problem, specially by using new innovative technologies. Miza Hamid Hasan, who chaired the session, regarded the seminar as a very fruitful one as it not only gave the opportunity to NEPRA and IESCO to present their side of story but also connected them directly with the consumers to understand the issues and problems at their end.

Non-availability of national data complying international standards on usages of water resources was the most serious lacking on part of Pakistan while pursuing arbitration on the issues involved. Pakistan could have secured better share of water in the final award in case of Kishanganga hydro-electric project (KHEP) if its plea was duly supported by required data of international standards, particularly vis-à-vis environment, hydro-electric usages and agriculture. In that event, more than the awarded 9 cumecs (cubic meter per second) of flow could have been won by the country in its case in the Permanent Court of Arbitration (PCA). This was a general consensus at a seminar at Institute of Policy Studies, Islamabad, titled "Analyzing Kishanganga Award", which was organized to critically review the recent verdict announced by Permanent Court of Arbitration (PCA) on the Kishanganga Hydroelectric Project and its potential repercussions for Pakistan's water security and interests.

IPS Seminar reviews Kishanganga Award

www.ips.org.pk

January 17, 2014







The seminar was chaired by Mirza Hamid Hassan, member IPS-National Academic Council and former Secretary Water & Power. The speakers and panelists included Dr. Gregory L Morris, Pakistan's technical expert in Kishanganga case, Ashfaq Mehmood, Former Federal Secretary, Water and Power, DG-IPS Khalid Rahman, Shamila Mahmood, Senior Consultant, Pakistan Trans-Boundary Water Organization, and Cdr. (R) Azhar Ahmad, Senior IPS Associate. It was attended by a number of experts, researchers, diplomats, journalists and concerned officials. The experts were unanimous that as there was no further legal course available for next seven years – the period set by PCA when it can reconsider the Award on request of either Pakistan or India through Permanent Indus Commission and the mechanisms provided by the Indus Water Treaty (IWT) – the only way forward for the country was to build and plan water storage facilities on war footings and strengthen institutional capabilities, particularly in the field of world-class technical data collection on environment hydro-electric and agriculture usages, to establish its rightful share under the IWT.

Providing an historic overview of Kishenganga Hydro-Electric Project (KHEP) case earlier, Shamila Mahmood, informed the participants that Pakistan acquired evidence of India's plans to divert the Kishenganga/Neelum River for purpose of power generation in late 80s. Pakistan Commissioner for Indus Water (PCIW) requested that India provide information on the project on December 14 1988. Correspondence between the two Commissioners began and on May 12, 1989, the Indian Commissioner requested the Pakistani Commissioner to provide information on Pakistan's agricultural and hydro-electric uses as Annexure E of the Treaty requires such storage works to be designed so as not to adversely affect the then existing agricultural or hydroelectric use. The Indian Commissioner also provided details of KHEP under Paragraph 12 of Annexure E to the Treaty on June 2, 1994. She further told that the correspondence continued between the Commissioners and tours of inspection of the Neelum Valley were conducted in 1991 and 1996 the basis upon which the Indian Commissioner contended that Neelum-Jehlum Hydro-Electric Project was not an existing use as it was a proposed project only and there was little if any agricultural use in the valley. The matter was discussed at meetings of the Commission in 2004 and 2005 without settlement. On February 7, 2006, the PCIW informed the Indian Commissioner that in his view a dispute had arisen and provided a draft report to ICIW on March 26 2006 to be submitted to the respective governments. On April 20, 2006, the Indian Commissioner informed PCIW that KHEP had been re-configured as run-of-river plant falling under Article III(2)(d) and Annexure D and that proposal for reference of dispute would no longer be relevant. The PCIW informed ICIW of his objections to the reconfigured project which were rejected by the Indian Commissioner. Pakistan's objections discussed in four meetings of the Commission from 2007 to June 2009 without agreement. Hence, on July 10, 2009, Pakistan invited India to resolve dispute by agreement. The arbitration proceedings commenced by Pakistan on May 17 2010.

The two main legal questions in the arbitration, according to speakers, were whether India's proposed diversion of the river Kishenganga (Neelum) into another tributary, i.e. the Bonar-Madhmati Nallah, being one central element of the Kishenganga Plant, breaches India's legal obligations owed to Pakistan under the Treaty, as interpreted and applied in accordance with international law, including India's obligations under Article III(2) (let flow all the waters of the Western Rivers and not permit any interference with those waters) and Article IV(6) (maintenance of natural channels); and whether under the Treaty, India may deplete or bring the reservoir level of a run-of-river plant below dead storage level in any circumstances except in the case of an unforeseen emergency. The court's analysis covered the territorial scope of the Treaty, the first dispute of the permissibility of delivering the waters of Kishanganga or Neelum River into another tributary through KHEP, and the second dispute of the permissibility of reservoir depletion under the Treaty.

Regarding the territorial issue, the seminar participants were informed that India had introduced the question of sovereignty over Jammu and Kashmir contending that Pakistan had no right to invoke the Treaty for adverse impacts to power generation at the NJHEP as the project was not situated in Pakistan. The Court determined that the Treaty extended to uses of waters flowing through either Pakistan-administered or Indian-administered territory and Pakistan was entitled to invoke the Treaty to object to the KHEP. The immediate benefit of this part of the judgment was that that earlier the international donor agencies were denying funding for projects in the disputed territory. This matter was taken up with the World Bank in the light of the Partial Award and the agency was now willing to extend funding for Diamer-Basha dam, which was previously refused.

On the first question, i.e. India's planned diversion, the Court determined that "where a Plant is located on a tributary of the Jhelum on which Pakistan has any agricultural use or hydroelectric use, the water released below the Plant may be delivered, if necessary, into another Tributary but only to the extent that the then existing agricultural use or hydro-electric use by Pakistan on the former tributary would not be adversely affected". Having taken into consideration a number of factors such as tenders, financing secured, government approvals, construction underway, etc, the Court found that India's right to construct and operate the KHEP became vested during the period 2004-2006. Unfortunately, at that time Pakistan had no hydroelectric uses on the Neelum River. The Court also noted that India changed the design from a storage work under Annexure E to a run-of-river project under Annexure D on Pakistan's objections.

On the second dispute, the judgment established that except in the case of an unforeseen emergency, the Treaty does not permit reduction below dead storage level of the water level in







the reservoirs of run-of- river plants on the Western Rivers. The accumulation of sediment in the reservoir of a run-of-river plant on the Western Rivers does not constitute an unforeseen emergency that would permit the depletion of the reservoir below Dead Storage Level for drawdown flushing purposes. Accordingly, India may not employ drawdown flushing at the reservoir of the Kishanganga Hydro Electric Plant (KHEP) to an extent that would entail depletion of the reservoir below dead storage level.

Highlighting the significance of the determination of the second dispute, the experts said that it sets aside the Neutral Experts (NE) decision in the Baglihar case which had, in effect, rewritten the Treaty without opening it up for renegotiation between the Parties. It may be mentioned that the NE's decision allowed India control of flows by eliminating the live storage limitation set by the Treaty. The judgment restores a tenet that was fundamental to Pakistan; without which Pakistan would not have agreed to the Treaty, i.e. India does not have control or the ability to manipulate flows that were to be received by Pakistan. Stringent design and operational restrictions were delineated in the Treaty to ensure against the decrease of flow or change in timing of the flow, critical for agriculture uses. The experts appreciated the international arbitration and hoped that both India and Pakistan will continue to solve their bilateral approach through dialogues and mediation in relevant international fora.

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ENERGY & POWER REGULATORY FRAMEWORKS NEWS

K-Electric Limited

KE & InfoTech Pakistan sign agreement to deploy a Smart Grid Technology Platform from Oracle; This along with smart meters will help in monitoring network & reducing energy losses - KE

KE

January 24, 2014

Accord for 35MW hydropower project

www.mowp.gov.pk

January 28, 2014

Specialising in hydropower technology

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January 28, 2014

KARACHI: Karachi 24th January, 2014: K-Electric Limited (KE), formerly Karachi Electric Supply Company, has signed an agreement with InfoTech Pakistan Limited (IPL) to implement a Smart Grid Technology Platform. The platform's key components are Oracle Utilities Meter Data Management and Oracle Utilities Network Management System which will be integrated with KE's recently implemented SAP Industry Solution for Utilities (SAP IS-U).

According to a KE press release, this platform will allow the company to maximize its Advance Metering Infrastructure (AMI) capability with proper network management. It is pertinent to mentions that this will help in improved monitoring of the overall electrical network which will reduce energy losses further, manage recoveries, proactively address network performance issues, enhance distribution planning capability and improve outage management. This will also have a positive impact as far as customer service is concerned. The initial phase of the project will be to implement Smart Meters for approximately 10,000 customers across a few specific areas of Karachi within a year, and then continuously roll out across a major portion of the city. The agreement was signed by Syed Muhammad Taha, Chief Distribution Officer for KE and Asim Haq, VP Sales InfoTech. Also present at the occasion were Naseer Akhtar CEO InfoTech, Syed Ahmed Bilal VP Software, InfoTech, Rafi Khan Head of PMO and Professional Services InfoTech, Jamil Akbar Director Business Strategy KE, Sardar Naufil Mahmud Chief Information Officer KE, Moin Iqbal Smart Grid Project Manager KE and Shoaib Mulla Manager Smart Grid PMO KE.

Nayyer Hussain, CEO of KE on this occasion said, "This project will be key in enabling the power utility to continue its turnaround and establish itself as a commercially feasible & the best in class utility. This will also serve as a role model and benchmark in not only Pakistan but across other developing markets too. This platform will give us greater visibility over our network, enhance our operations, deliver better customer service and provide the foundation for us to adapt to leading technologies in electrical distribution. IPL provides strong local capability to implement and integrate this platform composed of the top rated Smart Grid products of Oracle along with our existing SAP IS-U system."

Naseer Akhtar, President and CEO of InfoTech Pakistan added, "We are excited to be partnering in this ambitious and ground breaking project which will make both KE and InfoTech pioneers in Pakistan in bringing in a comprehensive Smart Grid product like Oracle Utilities Meter Data Management and Oracle Utilities Network Management System Gateway. KE's decision to work with InfoTech reaffirms our position as one of the leading technology companies in Pakistan."

Pakistan and German governments signed an agreement here on Monday, under which the German Ministry for Economic Cooperation and Development will provide 20 million euros for construction of 35MW Harpo hydropower project in north-west of Skardu.

Germany has already financed feasibility study of the Harpo hydropower project which will be the largest power generation project in Gilgit-Baltistan. The assistance will come through KfW Development Bank. The French development agency, AFD will provide 50m euros for the project.

On behalf of Economic Affairs Division, the agreement was signed by Ali Raza Bhutta, Joint Secretary, while Najib Tariq, GM Finance of Wapda and KfW Director Dr Anna-Christine Janke inked the agreement on behalf of their respective sides.

The Harpo hydropower project, to be constructed on Harpo nullah, a left tributary of the River Indus in Rondu area of Skardu, will include first-ever 132kv transmission line of about 70km, and three grid stations. A bridge will be constructed across River Indus which will ensure better access to Skardu-Gilgit road.

Wapda has taken an initiative to establish a Hydropower Training Institute at Mangla, at a cost of Rs568 million, with technical and financial assistance from the European Union. The institute will function as an apex body for human resource development for the hydropower sector. The project has been approved by the Central Development Working Party (CDWP), while France has committed a grant of 2.5 million euros. A soft loan of 1.5 million euros was dishursed earlier.

Consultants have been engaged for preparing a 10-year business plan to operate the multi-disciplinary institute (when completed) on a self-financing basis. The proposed institute will be a dedicated institution for advanced training of mechanical, electrical and electronics engineers at the middle- and senior-level management — working in various fields of hydropower — to incorporating state-of-the-art technologies in future projects. The varied courses offered, short-term as well as long-term, will cover overarching concepts related to planning, construction and operation of hydropower projects. They will deal with current international trends, focusing on economic, financial, climate change and environmental and social issues. The institute will thus create a pool of trained and skilled engineers, operators, technicians and other professionals capable of contributing to sustainable and efficient development of hydropower resources. Hydro-rich countries like Switzerland, Norway, India





and Nepal are successfully operating similar institutes that offer bachelor and master's degrees in hydropower engineering.

Initiation of the project dates back to April 2011, when the assessment mission of the French Development Agency (AFD) visited Pakistan to analyse existing training facilities in hydropower, in the context of projecting future needs. The mission recommended upgrading Wapda's existing Hydel Training Centre at Mangla in the first phase to the level of an institute for imparting advanced training and offering postgraduate course in hydropower technology, primarily for Wapda's engineers who are already working in various hydropower plants.

High-tech infrastructure facilities for conducting different courses will be provided at the institute. The main building will consist of an auditorium, lecture halls, laboratory, latest audio/video system, a library, demonstration models and a hydro-training simulator. The hydraulic parts, generator, transformer and auxiliary electrical systems of a plant are taken care of in the simulation. The Mangla hydropower plant, of over 1,000MW installed capacity, will serve as the 'teaching hydropower station'.

Training will encompass all the facets of a hydropower project, including hydraulic structures, hydraulic turbines and governors, generators, auxiliary plant, cables and earthing system, transformers, switchgears, control and protection systems, and software and hardware systems.

Services of European experts will be acquired as instructors and teachers. The institute will later be converted into a centre of excellence in hydropower, and transformed into an independent institute in the next phase, likely to be run in collaboration with an international teaching institute in Europe that specialises in hydropower technology.

A master's degree in hydropower technology will be awarded to graduate engineers having experience in hydropower, on successful completion of one-year theory and practice courses.

Wapda, one of the largest employers of human resource, has developed a skilled workforce over a period of decades, which is indeed a reservoir of knowledge, competence and expertise, successfully developing and operating large, medium and small hydropower stations countrywide. It has focused on ensuring the availability of trained manpower to meet present and future needs, and also runs an Engineering Academy (Water and Power) at Faisalabad for the purpose, which imparts comprehensive training on the geotechnical and rock mechanic aspects of hydropower projects to senior civil engineers.







QUETTA DISTRICT ENERGY PROFILE

District Quetta is located in the north-west of Balochistan and is the most populous district of Balochistan. It has been famous for its fruits orchards and agriculture produce including dry fruits. Quetta City is the District Headquarter as well as the Provincial Capital of Balochistan. Quetta is the largest city of the Province and acts as a trade and communication center between Pakistan and Afghanistan.

Quetta District area is approximately 2,653 sq kilometers while its population density is 281 persons per square kilometers as per the 1998 Census figures.

The major sources of energy to cater the energy requirements of the District include electricity, natural gas, LPG/LNG, kerosene oil, fire wood, and animal dung. Majority of the energy demand for transport is sector is met by petrol and diesel, while CNG also takes a small share to cater the fuel for transportation sector.

Quetta Electric Supply Company (QESCO) is responsible for providing and distributing electricity to the whole of Balochistan including Quetta District (except District Lasbella). QESCO was incorporated in 1998 and it replaced Quetta Area Electricity Board which was owned by Pakistan Water and Power development Authority (WAPDA).

There are a total of 152,364 electricity consumers in the district. Category wise distribution of these connections among different categories is as follows; 93,347 domestic which constitute 61.27% of the total, 54,499 commercial constituting 35.77%, 3,424 agricultural as 2.25%, and the rest 1,094 are industrial which come to 0.72% of the total electricity consumers.

The peak electricity demand for the district stands at 288 MW during 2012-2013. This demand is met through seven (7) distribution grid stations. These grid stations include one 220 KV, five 132 KV, and one 66 KV. Category-wise peak demand per grid stations and Category-wise projected energy units requirements per grid station are shown in the tables (Info graphs).

District Quetta is among those districts which has electric power generation plants installed within its boundaries. There are two power generation plants operating in Quetta district namely Thermal Power Station Quetta (TPS Quetta) and Habibullah Power Plant. TPS Quetta is Gas/Coal Fired thermal power station with a net installed capacity of 35 MWs and is operated by WAPDA (GENCO Central). Habibullah Power Plant has a gross generation capacity of 140 MW and is GAS/HSD powered thermal power station, which is owned and operated by Habibullah Coastal Power Company. This plant is in operation since September 1999.

Natural Gas is the dominant source of energy for cooking and heating purposes. Sui Southern Gas Company Limited is responsible for supplying and distributing Natural Gas in Quetta District. Gas consumption for Quetta Regions which covers whole of Balochistan Provinces stands at 19,564 MMCF during 2010-2011, this includes the consumption of District Quetta. SSGC is providing Gas to 72,867 customers out of which the domestic consumers are the largest portion amounting to 97.7% with 71,188 consumers in total. The rest of the consumers include 1,613 as commercial and 66 Industrial consumers which is close to 0.1 % of the total consumers.

Being the largest urban center of Balochistan, the fuel requirements of transport sector is being met by a diverse network of corporate and private owned Petrol and CNG filling stations. There are 66 Petrol/Diesel Stations where PSO is supplying fuel to 35 stations thus grabbing 53% of the Petrol/ Diesel supply to the District. Shell with 12 %, Byco 6 % and Admore with 5% are some of the major suppliers of fuel to Quetta. Besides petrol and diesel stations there are 13 CNG stations out of which almost 54% of these are owned and operated by private individuals while PSO operates 15.4%, Admore 15.4%, Shell 7.7%, Chevron 7.7% and rest are operated and supplied by other Petroleum product providers.

In addition to the electricity, natural gas, and petroleum products, liquefied natural gas and petroleum gas also contribute to meet the energy requirements. There are more then 30 LPG/LNG marketing companies licensed to import/distribute LPG/LNG in District Quetta.



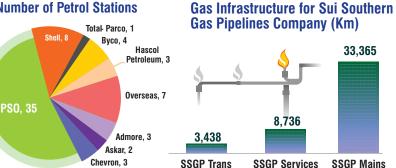




Number of CNG Stations



Number of Petrol Stations



Gas Consumer in District Quetta



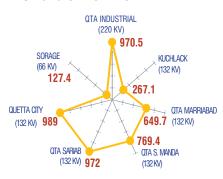
Year wise Aggregated Electricity Demand from 2011 till 2022



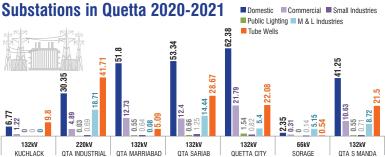
Category-wise Maximum Demand (MW) of Substations In Quetta District 2012-13



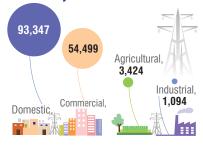
Substations wise Aggregated Demand of from 2011-22



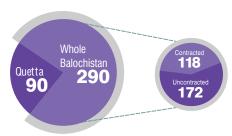
Category-wise Projected Maximum Demand (MW) of



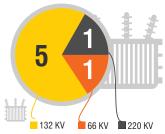
Electricity Consumers in Quetta



GAS Demand (MMCFD)



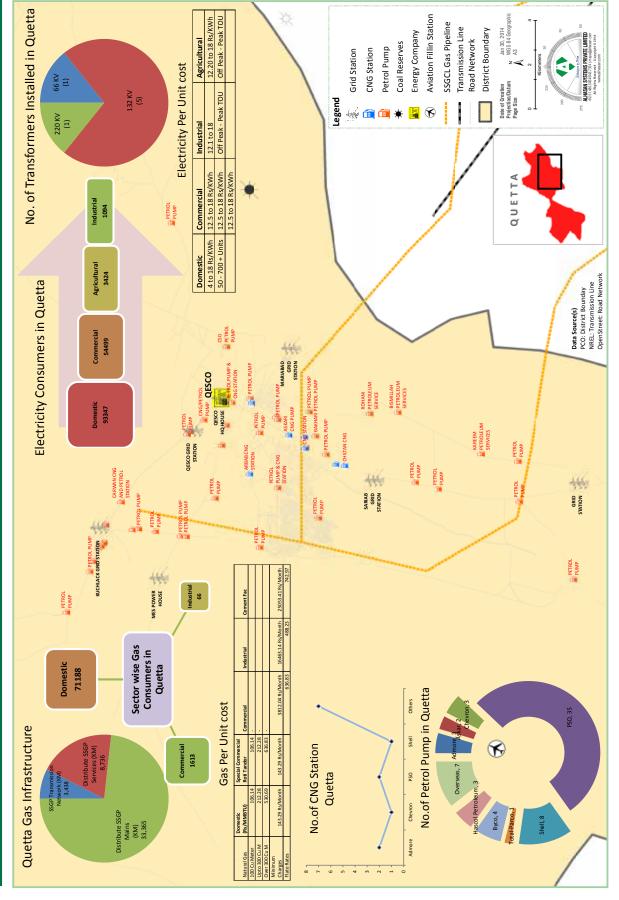
Number of Grid Stations







QUETTA ENERGY PROFILE





DAM-AGE CONTROL

By Feisal Nagvi

Newsweek January 11, 2014

In its water war with India, Pakistan wins a battle.

On Dec. 20, the Hague-based Permanent Court of Arbitration rendered its final award in the Indus Waters Kishenganga Arbitration between Pakistan and India. This decision has produced much confusion, nationally and internationally. The confusion is uncalled for. The award is a clear victory for Pakistan: it resolves a potentially explosive dispute in Pakistan's favor, and it ensures that similar disputes do not arise in the future.

Pakistan invoked arbitration for its water dispute with India on May 17, 2010, in accordance with the World Bankbrokered Indus Waters Treaty of 1960. Following site visits to Pakistan's Neelum-Jhelum and India's Kishenganga hydropower projects, the seven-member court began hearings in August 2012 and rendered a partial award the next February. Islamabad had referred two separate questions to the arbitrators. The first question asked whether India could draw down reservoir water below dead-storage level in any event other than an unforeseen emergency. The second asked whether India's diversion of waters was in violation of the 1960 accord. The first, more important matter has been decided conclusively in Pakistan's favor. The second one has thrown up a split verdict, which still marks an improvement in Pakistan's position: contradicting India's stance, the Court of Arbitration says that Kishenganga notwithstanding Pakistan is entitled to a minimum flow of water, i.e., 9 cubic meters per second, into its rivers. The water dispute between Pakistan and India dates back to Partition. The British made no arrangements whatsoever for the equitable distribution of the rivers in the Indus basin, even though the boundary between Pakistan and India cut right across it. The assumption was that the status quo would continue until Pakistan and India worked out an arrangement. This assumption was rudely disturbed on April 1, 1948, when India stopped the flow of certain canals into Pakistan.

Historians still debate the physical impact of the stoppage, but no one doubts that it left Pakistan with a deep sense of unease. From then on, the one consistent aim in Pakistan's water policy has been to minimize India's ability to interfere with flows. Thus, while the initial efforts to negotiate an agreement on water issues envisaged a cooperative, basin-wide mechanism, those efforts were soon abandoned in favor of a more practical approach based on clean, clear lines of demarcation. The end result, in 1960, was the division of rivers. India got the three eastern rivers; and Pakistan got the three western ones. The Indus Waters Treaty of 1960 also laid down strict obligations on the parties: India was to "let flow" the waters of the three western rivers allocated to Pakistan. And while it was allowed to use these western rivers for electricity generation, the design parameters of future hydroelectric plants were also specified in detail. The Treaty gave concrete form to Pakistan's apprehensions regarding India and strikes a balance between Pakistan's security needs and India's energy needs. In other words, India is free to build as many hydroelectric projects as it wants as long as it respects Pakistan's legitimate security concerns through designs that limit its ability to stop water flows to Pakistan. For example, the design parameters for run-of-the-river plants provide that the spillway for a hydroelectric plant shall not be gated unless absolutely necessary. Further, if a gated spillway becomes necessary, then the gates shall be as high as possible. Similarly, other rules provide that to the extent there is any outlet from the reservoir of a hydroelectric plant, those outlets shall be as small and as high as possible.

What is a spillway? If the reservoir of a hydroelectric plant is a giant tub, then the spillway is the hole through which the tub is emptied. A reservoir without a gated spillway is like a tub with no drain: once it fills up, the excess water simply flows out over the top. On the other hand, a gated spillway allows reservoir water to be drained down. Since Pakistan does not want India to be able to empty reservoirs, it wants the spillways to be high. Between 1960 and 2007, there was little debate on this topic of spillways. This was partly because there was no dispute as to the effect of the relevant provisions, and partly because India built very few projects. All of this changed as a consequence of the Baglihar project. What made Baglihar different from earlier Indian projects was that its design provided for a number of very large spillways well below the surface of the dam's reservoir.

In simple terms, there is a portion of every reservoir that India is allowed to use (live storage) and a portion it is not (dead storage). Because the spillways at Baglihar were well below dead-storage level, this meant that India could control not just the "live storage" but also all the "dead storage" above the spillway. In concrete terms, Pakistan estimated that if India emptied the Baglihar reservoir during the winter, it would be able to stop the flow of the Chenab River for 27 days. So Pakistan challenged the Baglihar design, and the issue was ultimately referred to an independent neutral expert.

India's defense before this expert was that the design was justified because the low-level spillways would keep the reservoir free from sediment. Pakistan's response was that because the Treaty prohibits India from drawing down reservoir water below a certain point, the low-level outlets in the Baglihar design were useless. In return, India argued that even if it could not bring the water level down, the outlets were nonetheless effective. So far as the legality of drawing down the water level was concerned. both parties initially assumed that the Indus Waters Treaty prohibited it. The expert, however, was not to be so restrained. He first agreed with Pakistan that in the absence of drawdown, the low-level outlets were useless. However, instead of deciding in Pakistan's favor, he went ahead and held that because bringing the water level down was permitted in certain cases, the design of Baglihar was legal. The expert's decision placed Pakistan in an awkward position. A frontal challenge was out of the question because the Treaty clearly provides that the decision of an expert on all matters within his or her competence is final and binding. At the same time, the Baglihar decision was unacceptable and entirely outside the boundaries of the Treaty. More importantly, India then announced its plans to build a slew of projects on the western rivers, thereby raising the specter of Pakistan's archrival being armed with the legal means to stop the flow of its rivers for months at a time. These announcements were then repeatedly highlighted by the more jingoistic elements of Pakistan's press causing panic among Pakistani pundits.

Pakistan decided to give up Baglihar as a lost cause and concentrate instead on challenging the principle







underlying the expert's decision. The strategy was to raise a general legal dispute regarding the legality of drawing down water for sediment control and have that dispute adjudicated by the Court of Arbitration rather than another neutral expert. This strategy was facilitated by the fact that the Indian design for Kishenganga also featured large low-level outlets.

It is this strategy that has now borne fruit in the Kishenganga arbitration. The Court of Arbitration has rejected the expert's argument and clearly decided that India is not entitled to draw down the water level of a reservoir except in the case of an unforeseen emergency. Since sediment control is not an unforeseen emergency, this means India will now have to change the designs of all its planned projects on the western rivers. In short, India's projects will now have very limited ability to interfere with the flow of the Pakistan-allotted western rivers. The Kishenganga award thus restores the balance contained in the Treaty and safeguards Pakistan's security.

The second question referred by Pakistan to the Court of Arbitration was specific to Kishenganga. In brief, Kishenganga envisages the generation of electricity via the diversion of water from the Neelum River into Wullar Lake, which drains into the Jhelum River, which rejoins the Neelum River at Muzaffarabad (so the diverted water eventually returns to Pakistan). Pakistan challenged this diversion on two grounds: first, that diversion was per se illegal; and second, that India's plans to divert all the water possible would negatively affect Pakistan's planned downstream projects on the Neelum. The Court of Arbitration has rejected Pakistan's first contention that the Treaty prohibits any diversion, but accepted its second one that India does not have an unlimited right to divert waters. This is not a terrible calamity for Pakistan. In practical terms, India's right to divert is limited to the Kishenganga project alone. Critics who fear that India has been handed a blank check to divert waters meant for Pakistan are mistaken. In terms of the amount of permissible diversion, Pakistan presented two arguments.

The first argument was that because the Treaty conditioned India's diversion upon Pakistan's "then existing" usages, India could only divert water to such extent and at such times as would not affect Pakistan's downstream usages, whenever those usages happened to come into effect. The reason for the "whenever" argument was because while Pakistan is also constructing the 969megawatt Neelum-Jhelum hydroelectric plant near Muzaffarabad, this plant is likely to finish construction several years after Kishenganga. Pakistan's argument was that India can divert the water so long as Pakistan does not need it, but that India will have to stop diverting as and when Pakistan needs that water (i.e., when Neelum-Jhelum comes into operation). Pakistan's second argument was an environmental one. It contended that a river, by itself, has a particular value which must be respected by keeping the river "alive" through the release of certain minimum flows.

In both cases, Pakistan's intent was to preserve as much of the natural water flow of the Neelum River so as to

protect the economic value of the Neelum-Jhelum plant. According to Pakistan's estimates, India's planned diversion would result, on average, in a 16 percent reduction of annual flows at the Neelum-Jhelum plant.

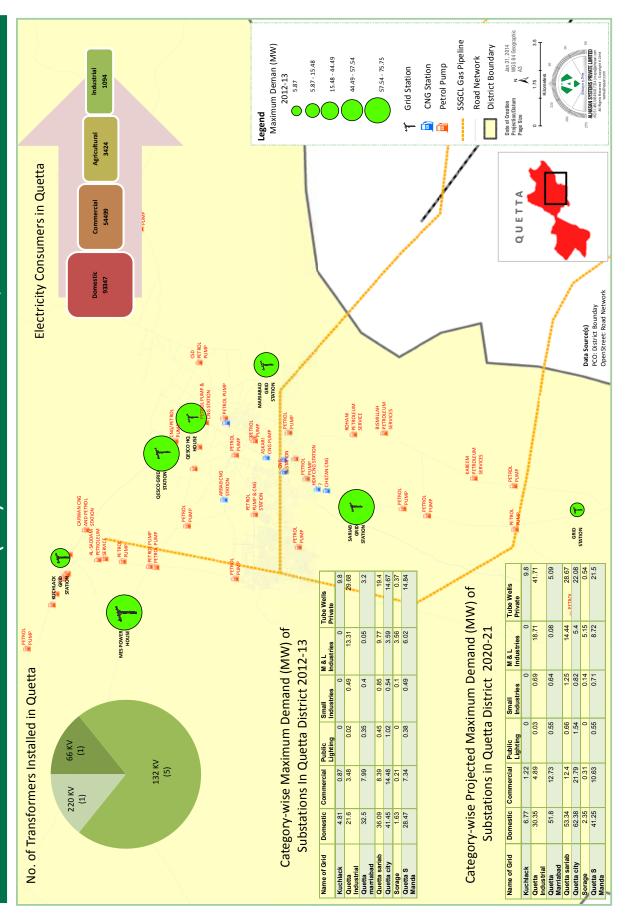
India's response to both of these arguments was, in effect, to tell Pakistan to lump it. India argued that since it had committed to the Kishenganga project before Pakistan had committed to Neelum-Jhelum, India had acquired a permanent right of diversion which could never be affected, no matter how many Pakistani hydroelectric plants came online downstream of Kishenganga. Similarly, India argued that the Treaty made no express provision for environmental harm and, consequently, India was not required to release any water whatsoever so long as such water could be diverted for energy-generation purposes. The Court of Arbitration has rejected both of India's arguments. It has held that India's right of diversion is not absolute but must also take into account Pakistan's downstream usages. Similarly, the Court of Arbitration has held that modern environmental norms must be read into the Treaty and that India must ensure a minimum flow of 9 cubic meters per second at all times. As a result, the feared 16 percent reduction in annual flows at Neelum-Jhelum has been shaved down to 10 percent. This is not an optimal result from Pakistan's perspective, but certainly a significant improvement over what India was earlier offering, i.e., nothing.

Notwithstanding the fact that Pakistan has—on balance scored a victory, the Kishenganga award has met with a storm of criticism in Pakistan. This is largely because the impact of the design issue is difficult to comprehend. The other reason for the criticism is the lingering belief in Pakistan that the Indus Waters Treaty was a sellout by the Ayub Khan regime. This is rubbish. Pakistan's decision to sign the Treaty is regarded by almost all knowledgeable scholars as a smart and pragmatic decision, which protected its extremely vulnerable lower-riparian position. The reason that Pakistan wound up with three rivers is because regimes preceding Ayub Khan's had rejected offers to accept four and even five rivers. The three western rivers assigned to Pakistan account, on average, for 80 percent of available water. Finally, the fact remains that Pakistan was not in a position to insist on a better deal in 1960. It is in an even weaker position now: if the Treaty were to be renegotiated today, it is a cast-iron certainty that Pakistan would receive fewer benefits than it currently enjoys.

Pakistan took two questions to the Court of Arbitration. One has been emphatically decided in Pakistan's favor, while the other represents a partial victory. Pakistan's victory on the drawdown question will affect every future project India designs. And India's ability to divert water at Kishenganga has been limited and won't recur. The Dec. 20 award upholds the Indus Waters Treaty of 1960 and secures Pakistan's energy future. Pakistani critics who claim otherwise are, as usual, missing the forest for the



MAXIMUM DEMAND (MW) OF SUBSTATIONS - QUETTA





Sun Kings: Can Solar Power Solve Pakistan's Energy Crisis?

By Palash Ghosh

International Business Times, January 21, 2014

Amid an ever-worsening energy shortage in Pakistan, the country's parliament has chosen an alternative source of power: solar. A 1.8-megawatt (MW) solar power plant funded by the Chinese is being installed in Parliament House in Islamabad, which the Pakistan government hopes will save some \$1 million in its annual energy utility bills and reduce greenhouse gas emissions. AlertNet, part of the Guardian newspaper's Environment Network, reported that construction of the solar panels commenced in the first week of the New Year. The Chinese government is picking up the tab of the initial cost (of about \$60 million) as a gesture of friendship between the two Asian giants. "This is the first project of its kind [in a public building] in Pakistan, and late, more public buildings will be converted to solar power to overcome the energy crisis," said Munawar Abbas Shah, a special secretary at the National Assembly (the lower house of Pakistan's Parliament). Both the National Assembly and the Senate (upper house of parliament) meet in the building. "The consumption of electricity in the parliament even jumps over 2 MW in summers when the house is in session," Shah added. AlertNet noted that while Pakistan does not plan a comprehensive switch to solar power, it has enlisted Chinese help to build a 10,000-acre solar park in Punjab province, which could generate 1,000 MW.

Separately, in a country where millions of people are not even connected to the national electricity grid (and even millions more who are connected suffer periodic power outages that can last for hours), solar energy may offer a form of relief. According to the World Bank report, almost half (44 percent) of all households in Pakistan are not connected to the electricity grid. About four-fifths of these families are located in rural regions, leading many of them to use kerosene as a source of light. Iftikhar Ahmad Qaisrani, founder of the Renewable Energy Society for Education, Awareness Research and Community Help, an Islamabad-based renewable energy advocate, said that Pakistan needs investments from the government and private sectors to build a solar power infrastructure, noting that the county enjoys 320 days of sunshine annually and about eight hours of sun every day.

Qaisrani also noted that Pakistan is far behind India and Bangladesh on these fronts -- these nations have already significantly engaged the use of solar power in rural and farming areas (where people also lack links to the electricity grid). But Pakistan, he added, must make it economical and practical. "Installation of solar power is a one-time expenditure, and people should be encouraged to avail [themselves of] the opportunity," he said. "This is the right time to encourage the public and private sector to focus on solar energy and provide off-grid solutions to people living in far-flung areas of the country. Qaisrani estimated that it would cost between \$3,500 and \$4,000 to convert an individual home to solar power -- a rather large expenditure for the average Pakistani household. But he pointed out that such a system could deliver continual energy for 25 years. "Pakistan can also save millions of dollars [in] foreign reserves per [year] just by switching to solar power," Qaisrani further noted, citing that fossil fuels still account for almost two-thirds (65 percent) of annual power generation in the country. Since half of that fuel has to be imported, Pakistan's power supply can be quite costly. But solar energy is not cheap either -- at least in the short term, since parts necessary for solar panels and power systems must be manufactured overseas (principally from China, Japan and Germany) and imported. These costs are exacerbated by heavy import duties slapped on solar power units. Abdul Hanan Siddhu, a solar energy consultant, urges the Islamabad government to do away with such taxes. "The government should also encourage local manufacturers to start cell manufacturing to reduce the cost," he said. "On top of this, government subsidies could help boost the solar off-grid lighting sector."

In an op-ed published in the Express Tribune newspaper, Ahsan Ashraf said Pakistan should pursue solar and wind power instead of nuclear energy. "We have ample supplies for wind and solar power, which we can use to tackle our energy crisis," Ashraf wrote. "With Pakistan's incredible potential of untapped renewable resources, why is Pakistan trying an untested nuclear technology when the rest of the world is moving towards greener energy solutions?" Ashraf noted that advocates of nuclear power in Pakistan over-estimate the country's ability to meet economic targets and overcome the failures of its incompetent and corrupt government. "In order for Pakistan to meet its own nuclear development estimates, it would have to emulate and surpass the efforts of countries like the United States and France. This idea seems highly unlikely and unrealistic to me," he declared. "Development of nuclear power requires long-lasting coordination between private and government sectors and strong government effectiveness and control of corruption, since nuclear projects require large capital expenditures. Compared to countries like the United States, France and South Korea, that have developed nuclear power at impressive rates in the past, Pakistan cannot compare in government effectiveness and control of corruption.

Solar and wind, in contrast, can be developed much more easily and can eventually provide safe, cheap power to a country in need of such blessings. Ashraf cited the example of a Pakistani village called Narian Khorian (near Islamabad), which has installed 100 solar panels with help from a local company. "Today, all houses in the village have sufficient energy to run an electrical fan and two light bulbs," he said. "An average solar panel lasts almost 25 years and has no maintenance costs associated with it. There is no downtime or risk of failures that may cause large-scale evacuations or other threats to life and/or property. This is the solution that Pakistan has been looking for: A change that is driven by the people on fundamental grassroots level."

Meanwhile, Pakistan is likely to endure worsening power surges, especially in its sweltering summers when demand surges beyond the capacity of the existing electrical grid. Power outages lasting 18 to 20 hours a day are not unusual across Pakistan -- all of which hurts an already faltering economy. The extended absence of electrical power leads to wasted food in refrigerators and families unable to cook, clean or wash, and hospital patients in grave danger, not to mention the extreme discomfort of dealing with heat and humidity. There are many reasons why Pakistan undergoes repeated power outages, but it basically all boils down to soaring demand mixed with mismanagement and corruption among virtually all levels of government. The public's discontent has manifested itself in frequent street protests that





frequently turn violent. "Pakistan's dilemma on the electricity front does not have to do with the capacity already installed for generation purposes, noted Farhan Bokhari, writing in the Gulf News newspaper. Instead, the shortages are driven mainly by the inability of the government to pay for electricity produced by privately owned companies, as it tries to overcome a ballooning fiscal deficit -- thanks to the visible squandering of precious budgetary resources. "Tackling such a challenge in part must also be linked to inspiring the broad mainstream public across Pakistan, Bokhari added.

On a daily basis, Pakistan's power demand averages 16,000 MW, but the nation can produce only about 12,000 MW. In the summer months, this gap can be as high as 7,000 MW, Reuters reported. Bilal Mustafa, who sells solar energy kits to households as the owner of Hussain Electronics in Rawalpindi, said demand has jumped in the past few years. "One of the reasons behind the soaring demand for solar energy systems is itself the sale of the systems. People watch others using solar power and they hanker to try it out, too," he said.



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Aviation Fillin Station Oil Storage Planned Oil Storage Existing SSGCL Gas Pipeline Jan 29, 2014 WGS 84 Geographic A3 Transmission Line District Boundary **Energy Company** Road Network Power Station Oil Refinery PUNJAB Date of Creation Projection/Datum Page Size Aragonite Marble Soap Stone/Talc No Data Found Copper\Gold Onyx Marble Bentonite **Grid Station** Magnesite Barytes Chromite Dolomite 132 KV Granite Iron Ore 220 KV 500 KV Gypsum Minerals Coal Legend 0 **⊲** ₽ Data Source(s) PCO: District Bounday NREL: Transmission Line OpenStreet: Road Network Z **BALOCHISTAN ENERGY PROFILE** BALOCHISTAN Total G as Produced (IMMCF) Total Gas Consumed (IMMCF) Ratio (Consumption VS Production in %) 459.340 45.950 45.97 46.950 46.97 46.9 Province-wise Annual Gas Production and Consumption 2007 4419 120894 288393 1369513 946389 1655 Mineral Production in Balochistan - 2010 **Production (Tonnes)** Aragonit/Marble Manganese Natural gas ime stone **Aagnesite** Minerals Chromite Crude oil **3arytes** -lourite Soal





سرخيال

پٹر ول، ہائی اسپیڈ ڈیزل کی قیمتیں بر قرار رکھنے کا نوٹیفکیشن جاری آج ٹی وی 31 جنوري 2014

کی ضرورت ہے، قائم علی شاہ جنگ نیوز

توانائی اور زراعت کے شعبے میں سر مایہ کاری <mark>۔</mark> 31 جنورى 2014

بچلی اور گیس چورول کیخلاف بلا امتیاز کارر وائی <mark>.</mark> جاری ہے:شہباز شریف

> توانائی کے شعبے میں پاک چین اشر اک تحرير:سيف الله چهه، سيكر ٹرى يانى و بجل 29 **جنوري 2**014

30 جنورى 201<mark>4</mark>

تفصيلات

املام آباد: اوگرانے پٹرول،ہائی اسپیڈ ڈیزل اورہائی اوکٹین کی قیمتیں بر قرار رکھنے کانوٹیٹیشن جاری کر دیا، مٹی کا تیل ایک رویے چوہیں پیپے اور لائٹ ڈیزل ایک روپے دوییے فی لیٹر سستاکر دیا گیا ہے۔وزارت خزانہ نے او گرا کی جانب سے بھیجی گئی سمری مستر د کرتے ہوئے پٹر ولیم مصنوعات کی قیمتوں میں معمولی کمی کی منظوری دے دی ہے،اوگر اکی جانب ہے جاری نوٹیفکیشن کے مطابق پٹرول،ہائی اسپیڈ ڈیزل اورہائی اوکٹین کی قیمتیں بر قرارر کھی گئی ہیں، مٹی کے تیل کی قیت میں ایک روبے چوہیں بیبے فی لیٹر ستا کرنے کی منظوری دی ہے، جس کے بعد نئی قیت ایک سوچھ روبے چہتر بیبے فی لیٹر مقرر کر دی گئی ہے، لائٹ ڈیزل کی قیت میں ایک روپے دومیسے فی لیٹر کم ہونے سے نئی قیت سورویے بائیس میسے فی لیٹر مقرر کی گئی ہے، او گرانے پٹر ول کی قیت تین روپے چار بیسے، ہائی اسپیڈوٹیزل پانچ روپے ستائیس بیسے فی لیٹر سستاکرنے کی سفارش کی تھی جے وزارت خزاندنے مستر د کر دیاہے، پیٹر ول کی قیمت ایک سوبارہ روپے چہتر میںے اور ڈیزل کی قیمت ایک سوسولہ روپے بچپتر میسے فی لیٹر بر قرار رکھی گئی ہے، وزارت خزانہ کا کہناہے کہ پیٹر ول اور ڈیزل مہنگانہ کرکے عوام کوایک ارب روپے کی سبسڈی دیں گے۔

کراچی (اسٹاف رپورٹر)وزیراعلی سندھ سید قائم علی شاہ نے کہاہے کہ صوبہ سندھ کو ئلے ،ہوا،شمسی توانائی و دیگر قدرتی وسائل سے مالامال ہے اور بیہاں توانائی اور زراعت کے شعبے میں سم مایہ کاری کی ضرورت ہے ،زراعت کا شعبہ ملکی اقتصادیات کے لئے ریڑھ کی ہڈی کی حیثیت رکھتاہے جو کہ 70 فیصد لو گوں کاذریعہ معاش ہے۔ان خیالات کااظہارا نہوں نے جمعرات کو کینیڈا کے ہائی کمشنر گریگ جیو کاس سے ملا قات کے دوران کہا جنہوں نے آج وزیراعلی ہائوس میں ملاقات کی۔وزیراعلی سندھ نے کہا کہ دریائے سندھ کے آخری سرے میں ہونے کے باعث جمیں زراعت کے بانی کی قلت کاسامنا ہے۔انہوں نے کہ اکہ زراعت کے لئے صوبہ سندھ میں زر خیز زمین ہے اور زرعی پیداور نہ صرف آباد گاروں کو فائدہ دیتی ہے بلکہ غیر ملکی زر مباد لہ بھی کماباحاسکتاہے، زراعت کو جدید خطوط پر استوار کرنے کے لئے آباد گاروں کو فنی اورپیشہ ورانیہ معاونت کی ضرورت ہے۔انہوں نے کہا کہ صوبہ سندھ میں دیگر صوبوں بشمول پنجاب کے فی ایکڑ پیداوار نسبتازیادہ ہے تاہم اس میں مزید بہتری کی گنجائش موجود ہے۔ کینیڈا کے ہائی کمشنر جیو کاس سے ملا قات کے دوران گفتگو کرتے ہوئے انہوں نے کہا کہ کینیڈ از راعت کے حوالے سے ترقی بافتہ ہے اور کم سے کم بانی سے زیادہ سے زیادہ پیداوار اور فی ایکڑ پیداوار میں اضافے کی مہارت رکھتاہے۔انہوں نے کہا کہ وہ چاہتے ہیں کہ زراعت کے حوالے سے سندھ میں ایک کا نفرنس کا انعقاد کیا جائے جس میں زراعت کے جدید طریقے کار، کاشتکاری اور فصلوں کی بھی ایکڑا ضافی پیداوار کے حوالے سے معلومات اور تجربات شئیر کئے حائیں۔انہوں نے کہا کہ سندھ کے آم دنیا بھر میں مشہور ہیں جن کی بہتر در جہ بندی اور مار کیٹننگ کے ذریعے عالمی منڈی میں بھیجا جاسکتا ہے۔وزیر اعلی سندھ نے زرعی کا نفرنس کے انعقاد کے آئیڈیا کا خیر مقدم کرتے ہوئے کہا کہ حکومت سندھ کی جانب سے سیڈ کاربوریشن،سندھ آیاد گاربورڈ اور ایگر کیکیج جیمبر کواس کا نفرنس میں اپنے مسائل اور ان کے حل پیش کرنے کے لئے کہاجائے گا۔

وزیراعلی پنجاب محمد شہباز شریف نے کہاہے کہ پنجاب میں بجلی اور گیس چوروں کے خلاف بلا امتیاز کارروائی جاری ہے۔ **لاہور:**وزیراعلٰی محمد شہباز شریف نے ایوان وزیراعلٰی لاہور میں معروف سمپنی ایریکسن کے نائب صدر کی قیادت میں وفدے ملاقات کی۔وزیراعلٰی محمد شہباز شریف کا کہناتھا کہ توانائی بحران سے نمٹنے کیلئے موثر اقدامات کئے جارہے ہیں۔متعدد غیر مکلی کمپنیوں کے ساتھ توانائی سیکٹر میں تعاون کے معاہدے کئے گئے ہیں۔ محمد شہباز شریف کا کہناتھا کہ پنجاب میں بجلی و گیس چوروں کے خلاف بلاامتیاز کارروائی جاری ہے۔

پاکستان کواس وقت توانائی کے شعبے میں مجموعی طور پر شدید بحران کاسامنا ہے اور گزشتہ پندرہ برس میں مختلف حکومتوں کی مکمل غفلت اور عدم توجہی سے خصوصاً یاور سکیٹر پاکستان کی تاریخ کے سب سے بڑے بحران سے گزررہاہے۔عوام کواچھی طرح پیڈے کہ بجلی کی طلب اور رسد کے توازن میں تقریباً چینز ارمگاداٹ کی کمی کے باعث گزشتہ کئی سالوں سے صنعت وحرفت کا پہیہ حام ہو چکا ہے اور اس کے نتیجے میں بیر وز گاری کی شرح میں خوفناک حد تک اضافہ ہوا ہے۔ نوبت یہاں تک آن پینچی تھی کہ گزشتہ حکومت کے خاتمے کے وقت تمام ملک لوڈ شیڈ نگ کے عذاب کا شکار تھااور شہر کی علاقوں میں دن رات کا بیشتر حصہ جبکہ دیہاتی علا قوں میں کئی کئی روز بجلی کانہ آنا ایک معمول بن چکا تھا۔ موجو دہ حکومت نے عنان اقتد ار سنھالتے ہی جنگی بنیادوں یر اس بحران پر کام شروع کیااور چھواہ میں بجل کے بحران کی صور تحال میں نمایاں بہتری پیدا کی۔اس کے ساتھ ساتھ حکومت نے بجل کی تیزی سے بڑھتی ہوئی قیتوں کو کم کرنے اور عام آدمی کے لیے قابل استعمال بنانے کے لیے ایک مکمل از جی پالیسی وضح کی جس کی نہ صرف مقامی بلکہ بین الا قوامی سطحریذیرا کی ہوئی۔ تونائی کے شعبہ میں چینی سرمایہ کاری پر شائع کالم کے حوالے سے یہ بتاناضروری ہے کہ کوئلہ کے استعمال سے چلنے والے بجلی گھروں کا قیام پالیسی کا ایک کلیدی حصہ ہے کیونکہ صرف وہی سستی بجلی حاصل کرنے کا فوری ذریعہ بن سکتے ہیں۔ یہ بات بھی سب کے علم میں ہے کہ ہاکستان شرید معاشی دبائو کاشکارہے اور اگر چیہ ورلڈ بینک،ایشیا کی ترقیاتی بینک اور اسلامی اقتصادی بنک نے موجودہ حکومت کی معاشی پالیسیوں پر مکمل اعتاد کا اظہار کیا ہے۔ان کی طرف سے دیے جانے والے وسائل تباہ عال انفر ااسٹر کچر کی بحالی اور تو انائی کے شعبے میں شدید کی کے مسائل کے لئے بالکل ناکافی



ہیں۔ کالم نگار واقف ہیں کہ چین یاکستان کاوہ قابل اعتاد دوست ہے جس نے حکومت کی مخلصانہ کو ششوں کو مد نظر رکھتے ہوئے یاکستان میں چینی کمپنیوں کے ذریعے نہ صرف توانائی بلکہ تمام انفراسٹر کچرکے منصوبوں میں سرمایہ کاری پر آمادگی ظاہر کی ہے۔ پچھلےماہ کراچی میں شروع کیاجانے والا دوہزرار دوسو بیں میگاواٹ کااپٹی بجلی گھر، جس پر ساڑھے چھ ارب ڈالرلاگت آرہی ہے،اس سلسلے کی ایک کڑی ہے۔اس طرح حکومت چین نے اپنی سر کار کی کارپوریشنز اور اداروں کی حوصلہ افزائی کی ہے کہ وہ پاکستان میں توانائی کے شعبے میں سرمایہ کاری کریں۔ جہاں تک کو ئلے سے چلنے والے بجلی گھروں کے منصوبے کا تعلق ہے حکومت پاکستان اس سلسلے میں مکمل شفافیت کا قابل رشک ریکارڈ قائم رکھے گی۔ گذشتہ یا پنج سالوں کے دوران پنجاب میں اور پچھلے سات ماہ ہے وفاق میں پاکستان مسلم لیگ(ن) کی حکومت کی کار کر د گی اس حوالے ہے سب کے سامنے ہے۔ان تمام منصوبوں پر عملدرا آید نجی شعبے کے ذر لیعے کیا جارہا ہے اور اس میں عوام کے بیسے کی ایک پائی بھی استعال نہیں ہو گی۔ نجی طور پر لگائے جانے والے بجلی گھروں کی قیمت اس لیے بے معنی ہے کہ حکومت نہ تواس قیت کی ادائیگی کی ذمہ داری لے گی اور نہ وہ قرض کے طور پر حاصل کرے گی۔ حکومت صرف اور صرف ان بجلی گھر ول سے پیدا ہوانے والی بجلی کی خریداری کے لیے ضامن ہو گی اور بجلی کی نمینیوں کی اس سے متعلقہ رقوم کی ادائیگی کو بقینی بنائے گی۔اس کے علاوہ بجلی کی خریداری کے لیے فی کلوواٹ ریٹ کا تعین بھی پہلے سے کر دیاجائے گااور اس ریٹ پر ہر بجلی تمام لو گوں سے خرید نے پر آماد گی ظاہر کی جائے گی،البتہ یہ ضرور ہے کہ جو کار وباری ادارے، کمینیاں پاکارپوریشنز ان منصوبوں کے لیے مطلوبہ سر مایہ کاری کا انتظام اپنے طور پر کریں گی اور جن کی ایسی سر مایہ کاری کی صلاحیت منتخکم ہو گیا نہیں یقینی طور پر ترجیح دی جائے گی۔ جو بین الا قوامی اصولول اور مر وجہ طریقہ کارکے عین مطابق ہے۔ مختلف ممالک کے ایگز م بینک اور تر قاتی بینک جن میں چین کے ایسے ادارے بھی شامل ہیں۔ بنیادی طور پر اپنی کمپنیوں کو بیرون ملک کاروبار بڑھانے کے لیے مالی وسائل فراہم کرتے ہیں۔ دوست ملک چین اس سلسلہ میں انتہائی پر کشش شر انظ پر پاکتان میں سرمایہ کاری کی حوصلہ افز افی کر رہاہے۔ جس کے لیے حکومت پاکتان نہ صرف ان کی شکر گزارہے بلکہ ان کے اس اقدام کوانتہائی قدر کی نگاہ ہے دیکھتی ہے۔ ہمارے نقطئہ نظر سے اس نازک ترین معاثی صور تحال میں عوامی جمہور یہ چین کی جانب سے یہ حوصلہ افزاءاقد امات دونوں ملکوں کے در میان پائیدار اور لازوال دوستی کے مظہر ہیں۔

> سوئی سدرن نے دوارب ڈالر زمالیت کے ایل این جی معاہدے کی منظوری دیدی جنگ نیوز

29 جنوري 2014

اسلام آباد (خالد مصطفی) سوئی سدرن گیس کیپنی لمیٹڈ کے پورڈ آف ڈائر کیٹر زنے اینگر وکار پوریش کی مکمل مکیت ذیا یکی کیوں ساتھ 2 ارب ڈالرز مالد مصطفی) سوئی سدرن گیس کمپنی کے ساتھ 2 ارب ڈالرز کاٹر مقاح اسا عیل کی صدارت میں منگل کو یہاں ہوا۔ ڈاکٹر مقاح اسا عیل نے ،جو پورڈ آف انوسٹمنٹ کے چیئر مین بھی ہیں ، رابطہ کرنے پر تصدیق کی کہ سوئی سدرن گیس کمپنی کے بورڈ آف ڈائر کیٹر زنے اینگر و کے ساتھ ایل این بی سرو سز معاہدے کی مشروط منظوری دے دی ہے۔ ان کا کہنا تھا کہ اینگر و 60 ایم ایم ہی ایف ڈی ایل این بی کی درآ مد پر 66 سینٹ فی ایم ایم بی ایف ڈی ایم ایم بی ایف ڈی ایل این بی کی درآ مد پر 66 سینٹ فی ایم ایم بی ٹی پولطور سروس چار جزئے گا جو علاتے میں سب سے کم ہے۔ اینگر و ٹر میٹل نصب کرے گا ، جس کی گئو بکٹ تی کی درآ مد پر دی گئو ایم ایم بی ایف ڈی ایم ایم بی گئو ایک ایم بیٹ کو جیجے گی جس ڈی مائع قدر تی گیس ہو گی۔ ایل ایس اے کی منظوری کے بعد وزارت تیل و قدرتی وسائل اس کی سمری منظوری کیلئے اقتصادی رابطہ کمیٹی کو جیجے گی جس کے بعد اینگر وایل این بی درآ مد کرنے سے قبل ٹر میٹل کی سہولت تیار کرے گی جو نومبر 2014 تک طوس شکل اختیار کرجائے گی۔ پاکستان اسٹیٹ آئل کی پالید ہو گی ایمورت و مگر صورت 400 میں اسٹیٹ آئل کو پالیس اور 100 میں منظوری کو پیش نی بنانے کیلئے لیٹر آف کفرٹ و بے کی پابند ہو گی کہ وہ ہر صورت 400 میں ناکام رہتی جرمانہ اینگر و کو اواکر ناہو گا۔ ای طرح سوئی ناردرن گیس کمپنی سوئی سرن کو گیٹر آف کفرٹ و بے کی پابند ہو گی کہ وہ ہر صورت 400 میں ناکام رہتی ہو وہ کیپسٹی چار جز طلب نہیں کرے گی۔

پن بجل کی پیدادار بڑھنے کے باوجو د بجلی کاشارٹ فال دوہز ارتین سومیگاداٹ تک بر قرار ہے۔ لوڈشڈ نگ کا دوار نیہ نوسے بارہ گھنٹے تک ہو گیا۔

لا ہور: این ٹیڈی سی حکام کے مطابق بکلی کی مجموعی طلب 11 ہز ار 200 اور پیداوار آٹھے ہز ار 900 میگاواٹ ہے۔ پن بجلی ذرائع ایک ہز ار 850 تھر مل پلانٹس ایک ہز ار 700 اور آئی پی بیز پانچ ہز ار 350 میگاواٹ بجلی فراہم کررہے ہیں۔ نہروں کی بھل صفائی کا عمل عکمل ہونے کے بعد بڑے ڈیمنز سے پانی کا اخراج بڑھانے سے پن بجلی کی پیداوار میں بھی بندر بچ اضافہ ہورہاہے لیکن شارٹ فال میں کمی نہیں ہورہی۔ ذرائع کے مطابق شہری علاقوں میں نو اور دیجی علاقوں میں بارہ گھٹے تک بجلی کی بندش کی جارہ ہی ہے۔

وزیراعظم نواز شریف نے کہاہے کہ معاثی ترتی کیلئے وسائل بروئے کارلائے جارہے ہیں۔وزیراعظم نے فیصل آباد میں بین الا قوامی معیار کے ائیر پورٹ کی تعمیر کی بھی ہدایت کی۔

۔ اسلام آباد: فیصل آباد ڈویژن کے ارکان قومی اسمبلی نے وزیر اعظم نواز شریف ہے اسلام آباد میں ملاقات کی۔ارکان سے گفتگو کرتے ہوئے وزیر اعظم کا کہنا تھا کہ ملک میں امن وامان کے قیام سے معیشت تیزی ہے ترتی کرے گی۔ پاکتانی نوجوانوں کی تعریف کرتے ہوئے وزیر اعظم نے کہا کہ نوجوانوں کا عزم اور حوصلہ بے مثال ہے۔ موجود حکومت ان کی بحرُ پورید دکررہی ہے۔ وزیر اعظم نے ایوی ایشن ڈویژن کوہدایت کی کہ فیصل آباد میں نجی و سرکاری شراکت داری سے بین الاقوامی معیار کا ائیر پورٹ تعمیر کیا جائے۔ارکان قومی اسمبلی نے وزیر اعظم کو اپنے حلقوں میں ترقیا کی کاموں ہے آگاہ

بخل کاشارٹ فال بر قرار، لوڈشیڈنگ میں اضافہ

د نیانیوز 28جنوری2014

معاشی ترقی کیلئے وسائل بروئے کارلائے جا رہے ہیں: نواز شریف دنیانیوز 28جنوری 2014





تھر میں کو کلے سے صرف 5 ہز ار میگادات بچل پیدای جائے گی، صوبائی مشیر توانائی جنگ نیوز 27 جنوری 2014

کیا۔ار کان نے پار لمانی پارٹی اجلاس میں وزیر خزانہ اور وزیر داخلہ کی بریفنگ کو پُر امید قرار دیا۔

کراچی(اسٹاف رپورٹر) حکومت سندھ نے اعلان کیاہے کہ تھر میں صرف5000 میگاواٹ کے کو ئلے سے چلنے والے بجل گھر نصب کیئے جائیں گے جبکہ باقی بچل گھر کیٹی بندر میں نصب کیے جائیں گے۔ یہ اعلان اتوار کووزیر اعلیٰ سندھ کے مثیر برائے خزانہ وتوانائی سیدمراد علی شاہ نے مقامی ہوٹل میں تھرکے کو نئے پرمنعقدہ دوروزہ کا نفرنس کے اختتامی اجلاس سے خطاب کرتے ہوئے کیا۔ کا نفرنس میں ڈاکٹر ثمر مبارک مند کے زیرز مین کو کلہ گیس بنانے کے منصوبے کی مخالفت اور حق میں بھی زور دار مباحثہ ہوا جس کے بعد منصوبے کے حامی اور مخالفین اپنی سفار شات میں اس منصوبے کی آزادانیہ فیز پبلٹی اسٹڈی کرانے کے مطالبے پر متفق ہو گئے۔ کا نفرنس کے متعد دشر کاءنے تھر میں ڈاکٹر ثمر مبارک مند کے منصوبے پر زبر دست تنقید کی اور کہا کہ یہ منصوبہ قابل عمل نہیں ہے۔اس پر حکومت سندھ کی خطیر رقم ضائع ہو گئی ہے۔اس منصوبے کو ختم کر ناچاہئے تاہم منصوبے کے چیف کیسٹ ڈاکٹر اشر ف موٹن نے اس منصوبے کا دفاع کرتے ہوئے نہ صرف اس کا دفاع کیااور بتایا کہ منصوبے سے کامیابی کے ساتھ گیس حاصل کی جارر ہی ہے بلکہ یہ خوشنجری بھی دی کہ کچھ ہی عرصے میں یہاں سے 20 ہز ارکیو بک میٹر گیس فی گھنٹہ لکانا شروع ہوجائے گی۔ کا نفرنس کی سفارشات میں بھی بیہ مطالبه کیا گیا که یوسی جی پروجیک کی دوباره آزادانه فزیبلٹی اسٹڈی کرائی جائے۔ کا نفرنس کاموضوع''توانائی میں خود کفالت، تھر کول اور یاور پروجیکٹس کی تیز ترتر تی "تھا۔ کا نفرنس کا اہتمام دائو دیونی ورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی اور حکومت سندھ کے محکمہ توانائی نے مشتر کہ طوریہ کیا تھا۔ سیدم ادعلی شاہ نے اپنے خطاب میں کہا کہ تھر کول فیلڈ زاسلام کوٹ سے کمیٹی بندر تک ریلوے لائن بچھائی جائے گی۔ مادریلا نٹس کے لیے تھر سے کو کلہ کمیٹی بندرلایاجائے گاجبکہ اضافی کو کلہ ہر آمد کیاجائے گا۔انہوں نے کہا کہ تھر کول سے متعلق بنیادی کام حکومت سندھ کر چکی ے۔انفر ااسٹر کچر کی تغمیر کے لیے 24ارب روبے مختص کئے گئے تھے، جن میں سے 18 ارب روبے اس سال کے آخر تک خرچ کر لیئے جائیں گے۔انہوں نے کہا کہ تھر کے متاثرہ لو گوں کی دوبارہ آباد کاری(ری سیٹلمنٹ) کا مکمل بلان بناباجائے گا۔ کوشش کریٹگے کہ تم سے تم لوگ متاثر ہوں۔انہوںنے کہا کہ 31 جنوری کو وزیراعظم میاں نواز شریف اور سابق صدر آصف علی زر داری کو ئلے کی مائنگ اوریاور پر وجیک کے پہلے منصوبے کاسنگ بنیاد رکھیں گے۔ملک کی دوبڑی پارٹیوں کی قیادت کی موجو دگی ہے سر ماہیہ کاروں کی حوصلہ افز انی ہو گی۔وزیراعلیٰ سندھ کے کواراڈی نیٹر تاج حیدرنے اپنے خطاب میں کہا کہ کو کلے کی مائننگ زیادہ سے زیادہ ہونی جاہے۔اس بحث میں نہیں پڑناجاہے کہ کو کلے کی گیسی فکیشن زیر زمین ہویاز مین کے اوپر ہو، کو تکے کو بہتر طور پر استعال کرناچاہیے۔اگر دنیاسر ماہیہ کاری نہیں کر رہی تولو کل بینکس کو اس مقصد کے لیے کنسور شیم بنایا حائے۔ پاکتان انجینئرنگ کونسل کے چیئر مین سید عبدالقادر شاہ نے کہا کہ تھر کے منصوبے کے لیے ہماری کونسل ہر فتیم کی تکمینکی معاونت فراہم کرے گی، بی سی ایس آئی آر کے سابق چیئر مین ڈاکٹر فرید ملک نے یوسی جی پر وجیکٹ کی خالفت کی اور کہا کہ تھر کا کو کلہ یوسی جی کے لیے مناسب نہیں ہے۔ اگر کو ئلہ کی ہائننگ ہوسکتی ہو توبوسی جی کی ضرورت ہی نہیں ہے۔ د نبامیں کہیں بھی بوسی جی کمرشل بنیادوں پر نہیں ہوتی،اباس ڈرامے کوختم ہونا چاہئے۔ کا نفرنس کے نثر کاءنے مباحثے کے وقفے کے دوران یو سی جی کی زبر دست خالفت کی تاہم یو سی جی تھر کول پر وجیکٹ کے چیف کیمٹ ڈاکٹر اشر ف موٹن نے کا نفرنس سے شر کاء کو تھر میں انڈر گرائونڈ کول گیسی فکیشن (بوسی جی) کے منصوبے ہے آگاہ کہااور کہا کہ یہ منصوبہ قابل عمل ہے اور ہم گیس پیدا کررہے ہیں۔ کچھ عرصے کے بعدیباں سے 20 ہز ارکیویک میٹر گیس فی گھنٹہ نکاناشر وغ ہو جائے گی۔ سندھ اینگروکول ما مُننگ سمپنی کے سیدابوالفضل رضوی نے بتایا کہ تھر کے کوئلے کیا بک جگہ ہے دوسری جگہ ٹرانسپورٹیشن میں کوئی مسکد نہیں ہے،اصل مسکلہ یہ کہاسٹرانسپورٹیشن پر لاگت کیا آتی ہے۔ ڈی ایس بیلوے کراچی مقصودالنبی نے بتایا کہ کو ئلے کی ٹرانسپور ٹیشن کے لیے اسلام کوٹ تک ریلوں لائن بچھانے کے لیے مختلف روٹس پر غور کیا جارہا ہے۔ کا نفرنس ہے دائو دیونی ورسٹی آف! نجینئر نگ اینڈ ٹیکنالوجی کے وائس جانسلرڈا کٹر فیض اللہ عماسی سمیت دیگرنے بھی خطاب کیا۔ کا نفرنس کے اختتام پر آٹھ نکاتی سفار ثبات پیش کی گئیں، جن میں کہا کہ حکومت سندھ تھر میں انفر ااسر کچر کی تعمیری سر گرمیوں کے حوالے ہے ماباندر بورٹ جاری کرے۔ یوسی جی کی آزادانہ فریبلٹی اسٹڈی کر ائی جائے۔ کو ئلے کی اوین بیٹ مائننگ کوتر جھ دی جائے۔ مائن مائو تھ پر کو ٹلے کی قیمت کا تعین کرنے کے لیے فریم ورک دیاجائے۔ٹرانسمیشن لا ئنز کی تنصیب کامنصوبہ لاز می طور پر بنایاجائے۔ماہرین کامشاور تی پورڈ تشکیل دیاجائے،جو توانائی کے منصوبوں کاو قباً فو قباً جائزہ لے۔

کرا چکی: وزیراعلی سندھ کا کہنا ہے کہ چین تھر میں کول پاور پلانٹ کے قیام میں دگچین لے رہاہے، تھر کول بلاک ٹومیں کام جلد شروع کیا جائے گا۔ وزیراعلی سندھ سید قائم علی شاہ نے تھر کول انر جی بورڈ کے اجلاس میں کہا کہ چین کی گئی کمپنیاں سندھ کے علاقے تھر میں کول پاور پلانٹ میں سرمامیہ کاری کے لئے سنجیدہ ہیں۔ انھوں نے کہا کہ سندھ میں تھر کول پاور پلانٹ منصوبے کے حوالے سے کائی کام ہو چکا ہے، حکومت جلد ہی تھر کول بلاک ٹو میں کام کا آغاز کر دے گی۔ پہلے مرحلے میں چھ سومیگاواٹ بجلی پیدا جائے گی، دو سرے مرحلے میں اس میں سوفیصد اضافہ ہو گا۔ وزیراعلی سندھ نے ہدایت کی کہ تھر کول انر جی بورڈ کے آئندہ اجلاس میں کول پاور پلانٹ کے حوالے سے حکمت عملی کیلئے تو می اور بین الاقوامی ماہرین مسیت سرمامیہ کاروں سے مشاورت کی جائے۔

کراچی : ٹیکٹائل بر آمدات ساڑھے آٹھ فیصداضانے سے چھ ارب ڈالرسے تجاوز کر گئیں، ٹیکٹائل سیکٹرسے وابستہ افراد کا کہناہے کہ توانائی کے بدترین

تھر کول پاور بلانٹ کے قیام میں چین کی و گیپی آج ٹی وی 24جزری 2014

توانائى بحران كے باوجود ٹيكسٹائل بر آمدات يىل 8.5





فيصداضافه

آج ٹی وی

22 جنوري 2014

21 جنورى 2014

گیس کمپنیز کوانفراسٹر کچر ڈیولپرنٹ سیس فیکس کی وصولی کی ہدایت آج ٹی دی

توانا کی بحران، منافع خورول کی چاندی ہوگئ آج ٹی دی 15 جوری 2014

> گیس بحر ان شدید، عوام پریشان، منتخب نما کندے غائب جنگ نیوز 11 جنوری 2014

توانائی بحران بی ایس پی پلس اسٹیٹس کے آٹرے آگیا آج ٹی وی 11 جنوری 2014

توانائی میں کمی کے سنگلین مسئلے کو مل کر حل کرناہو گا، اردویو نیورسٹی میں بائیو شیکنالو جی کا آغاز جنگ نیوز

بحر ان اور امن وامان کی موجو دہ صور تحال کے باوجود ٹیکٹا کل بر آیدات میں اضافیہ دیکھاجار ہاہے ،رواں مالی سال پیبر آیدات چودہ اربڈالر تک متوقع بین

اسلام آباد: وزارت پیٹر ولیم نے سوئی سدرن گیس اور سوئی نارتھ گیس کمپنی کو گیس انفراسٹر کچرڈ یو لیبنٹ سیس ٹیکس کی وصولی کی ہدایت کر دی۔ صنعتوں، نجی بخلی گھروں، فرٹیلائز راور سی این جی سیکٹر کے لئے ٹیکس میں اضافہ کر دیا گیا۔ وزارت پیٹر ولیم اور قدرتی وسائل نے ملک کی دونوں گیس کمپنیوں کو نظر ثانی شدہ گیس انفراسٹر کچرڈ یو لیمنٹ سیس فوری وصول کرنے کی ہدایت کر دی ہے۔ حکومت کو جی آئی ڈی ایس ہے روال مالی سال ایک سو پچیس ارب روپے آمدنی متوقع ہے، وزارت پیٹر ولیم نے کیم جنوری سے صنعتوں اور کیپیٹو پاور پلائٹس پر جی ائی ڈی ایس کی شرح پچاس روپے سے بڑھا کر مورپے فی ایم ایم بی ٹی یو کر دی سوروپے فی ملین ہر ٹش تھر مل یونٹ کر دی ہے، فرٹیلائزر سیکٹر زے لئے میہ شرح ایک سوستانو سے روپے سے بڑھا کر تین سوروپے فی ایم ایم بی ٹی یو کر دی گئی و کو دی گئیں وصول کیا جائے گا۔

کرا پی نلک میں جاری توانائی بحران سے منافع خوروں کی چاندی ہوگئی، کمٹڑی کے بعد گوبر سے بینے او پلے بھی مجنگے کر دیئے گئے، او پلے کی قیمت دو
روپے سے بڑھاکر پانٹی روپے کر دی، غریب عوام کو سخت پریشانی کاسامنا ہے۔ ان دنوں بخلی اور گیس کی بندش سے توہر کوئی پریشان دکھائی دیتا
ہے، پہنچاب میں موسم سرماکیا شروع ہوا حکومت نے ہی این جی سیگر کو گیس کی فراہمی بند کر دی تاکہ گھر بلوصار فین کو گیس فی جاسکے لیکن حکومت
کے اس اقدام سے گھر بلوصار فین کو کوئی ریلف نہیں مل سکا۔ پہنچاب کے شہری اور دیجی علا قول میں سوئی گیس کی لوڈشیڈ نگ اور کم پریشر کے باعث
صار فین نے کھانا پکانے اور دیگر ضروریات کو پورا کرنے کے لیے زمانہ قدیم کی یاد تازہ کر دی ہے۔ اب گائیں، بھینیوں کے اوپلوں سے کھانا پکایا جانے لگا
ہے۔ حافظ آباد کے علاقے حسین پورہ کی رہائش اس سالہ حنیفال بی بی کا کہنا ہے کہ گیس کی عدم فراہمی کے باعث وہ مجبوراء اوپلوں کا استعمال کرتی ہیں
تاہم اوپلوں کی آگ اور نکالنے والے دھویں سے ان کی آئکھیں اور جلد خراب ہوگئی ہے۔ شہریوں کا کہنا ہے کہ سر دیوں میں اوپلوں کی فروخت میں
اضافے کے باعث ان کی قیمتوں میں بھی ہو شر بااضافہ کر دیا جا تا ہے ایک ماہ پہلے تک دورو ہے کا ملئے والا ایک اوپلاان دنوں پائچ کروپے میں فروخت ہور ہا

لا مور: لا مورسمیت پنجاب بھر میں گیس نے شہریوں کا جینا محال کر دیا۔ لا مورکی زیادہ تر آباد ایوں میں پچھلے دس روز سے گیس بالکل نہیں آئی۔ عوام حکومت کو کوستے نظر آتے ہیں۔ لا مور میں گیس کا بحران قابو سے باہر سر دیوں کے آغاز میں سب پچھے ٹھیک ٹھاک تھا۔ پھر 22 دسمبر کا سورج نکاا۔ لوگ حسب معمول اٹھے، خواتین ناشتہ بنانے پہنچیں۔ لیکن سے کیا چولہوں میں تو گئیں، بی نہ تھی۔ گیز رد کچھے تو وہ بھی بند۔ ناکھانے کورو ٹی نہ نہانے کیلئے پائی۔ وہ دن اور آن کا دن۔ گیس السے غائب ہوئی جیسے گدھے کے سرسے سینگ۔ پچھے تو کلڑیاں جا اس کیر گزارہ کرنے گئے، تو بعض مہنگی ایل پی بی لانے پر مجبور موے نے دھر میورہ ہر بنس پورہ، گارڈان ٹاون ، ماڈل ٹاون ، علامہ اقبال ٹاون ، بندروڈ، گئن راوی ، سمن آباد ، چھرہ اور شادمان میں حالات پچھے زیادہ بی برے ہیں۔ پچھے دیر کے لئے انتہائی ہلکی گیس جملک دکھلاتی ہے ، پچر غائب۔ استے میں کھانا تو دورکی بات۔ چائے بنانا بھی ممکن نہیں۔ منتخب نما ئندے خاموش تماشائی بین گئے۔ کوئی بھی اپنے علاقے میں دکھائی نہیں دیتا۔ سوئی نار درن دکام سے بو چھیں تو ان کا ایک بی جو اب ہے ، گیس اور ہمیٹر کا استعمال برھر گیا، دوماہ ایسے بی گزار نے پڑی گیا۔ ۔

للہور: یورپی منڈیوں میں ڈیوٹی فری پاکستانی مصنوعات کی بر آمدات کا اہداف حاصل کرنانا ممکن ہو چکا، توانائی بحران بی ایس پی پلی اسٹیٹس کے آڑے انجی ایس پی پلی اسٹیٹس کے انٹرے انجی ایس پی پلی اسٹیٹس ملنے سے پہلے یورپی منڈیوں میں پاکستانی مصنوعات کی بر آمدات سات بلین ڈالر ڈالر کے قریب تھی، اسٹیٹس ملنے کے بعد مصنوعات ڈیوٹی فری ہونے سے دو بلین ڈالر تک ابعد مصنوعات ڈیوٹی فری ہونے ہو دو بلین ڈالر تک ایکسپورٹ ممکن بنائی جاسکتی ہے جبکہ تا ہر ول کا کہنا ہے کہ توانائی بحران کے باعث تیس فیصد بر آمدات کا اہداف حاصل کرنا بھی ناممکن ہو گیا ہے۔ صنوعات کی ویلیوایڈ یشن کا مطالبہ کر دیا ہے، ان کا کہنا ہے کہ یور پی صنوعات کی ویلیوایڈ یشن کا مطالبہ کر دیا ہے، ان کا کہنا ہے کہ یور پی منڈیوں میں صرف ٹیکسٹائل کی ہی نہیں نی ٹیس نی تھی ہوتی ہیں۔ اگر اسٹیٹس سے فائدہ اٹھانا ہے تو دیگر صنعتوں کو بھی بجلی اور گیس فراہم کی بھی بین نے اور مصنوعات کی ویلیوایڈ یشن کرنے سے کی جانی چاہی سے منائدہ اٹھایا جاسکتا ہے۔ کا دور اٹھی بیس اسٹیٹس سے فائدہ اٹھایا جاسکتا ہے۔

کرا چی (اسٹاف رپورش) وفاتی اردویونیورٹی شعبہ نباتیات کے تحت سیمینار سے خطاب کرتے ہوئے ڈین آف سائنس پروفیسر ڈاکٹر عارف زبیر نے کہا کہ جامعہ اردومیں بائیو ٹیکنالو جی کے شعبہ کا آغاز ہو چکا ہے ، ہماری جامعہ اس ٹیکنالو جی کی ترقی کے لئے بھر پور کوششیں جاری رکھے گی۔ انہوں نے کہا کہ طلبہ اور اساتذہ کو زیادہ سے زیادہ شخیت کے شعبہ کی طرف آکر حکومتی سطح پر جامعات اور صنعتوں کارابطہ مضبوط کرنے کی کوششیں کرناچا ہمیں۔ اس موقع پر پروفیسر ڈاکٹر معین الدین نے کہا کہ ہمارے ملک میں توانائی کی کی بہت بڑا مسئلہ ہے جس کے اسباب اور حل کے لئے ہم سب کو مل کر کوششیں کرناہوں گی ورنہ ہم بہت بڑے مسائل کا شکار ہو سکتے ہیں۔ ملک میں 12 سے 61 گھٹا لوڈشیڈنگ کی جارہی ہے جس کی وجہ سے یہاں صنعتیں تیزی سے بند



10 جنوري 2014

توانائی ماہرین نے 6.50 ارب ڈالر کانیو کلئیر يلانث مستر دكرديا آج ٹی وی 08 جنوري 2014

> بر داشت نہیں،شہباز شریف 06 جنورى2014

توانائی منصوبوں میں لمحہ بھر کی تاخیر بھی<mark>۔</mark>

لئے آوازبلند کریں۔

متعلق شر کاء کو آگاہی فراہم کی۔انہوں نے کہا کہ آج کے تعلیم بافتہ نوجوان اس پر کام کرس توملک میں توانائی کے بجران پر کافی حد تک قابو باما حاسکتا ہے۔اس عمل کے ذریعے آسان اور سیتے طریقے سے گھروں میں گیس اور بجلی کی ضرورت کو پورا کیا جاسکتا ہے۔ یرو گرام میں ڈاکٹر دانش فراز ، ڈاکٹر ثناء حبیب اور دیگرنے بھی خطاب کیا۔ **کراچی**: توانائی ماہرین نے ساڑے چھ ارب ڈالرمالیت کانیو کلئیریاوریلانٹ مستر د کر دیا۔ حکومت توانائی بحران کے خاتمے کیلئے کو ئلے ، ین بجلی شمسی توانائی اور چھوٹے ڈیموں سے بجلی پیدا کرنے کواولین ترجیح دے۔ پاکتان فشر فوک فورم اور پاکتان انسٹی ٹیوٹ آف لیبر ایجو کیثن اینڈریسر چ کے مخت وزیر اعظم کی جانب سے کراچی میں کیاڑی پر کوسٹل اپریاپر کسنپ ٹو اور کسنپ تھری کے بائیس سومیگا واٹ نیو کلئیریاوریلانٹ سے پیداہونے والے خطرات پر ا یک آگانی سمینار کا انعقاد کیا گیا۔اس موقع پر ماہر توانائی ڈاکٹر پرویز کا کہناتھا کہ دنیائے بیشتر ممالک نے نیوککئیر رئیکٹر سے پیداہونے والے خطرات کی وجہ ہے ان کوختم کرنے کا فیصلہ کیا ہے۔ نیو کلئیریاور پلانٹ میں حادثے کی صورت میں سمندری حیات ،ماہی گیری،اورشہری آبادی پر منفی اثرات مرتب

ہوتے ہیں۔ حایان میں بھی نیو کلئیرر کیٹر زسے ہونے والے نقصان اور تابکاری اثرات سے سب باخو کی واقف ہیں۔ان کا کہناہے کہ کسی بھی حادثے کی صورت میں لاکھوں قیمتی جانوں کاناقصان ہو سکتا ہے۔انہوں نے کہا کہ ملک میں توانائی کی قلت ہے، لیکن اس کونیو کلئر یاور سے پوراکرنے کے بجائے توانائی کے دیگر متیادل زرائع سے پوراکیا حاسکتا ہے۔ پاکستان فشر فوک فورم کے چئبر مین مجمد علی شاہ کہتے ہیں کہ د نیامیں نیو کلئیر ریکٹر ز آبادی سے اسی کلو میتر دور ہوتے ہیں لیکن شہری آبادی ہے ریب ہونا بہت بڑا خطرہ ہے۔ سمباز ہے دیگر مقررین کا کہنا تھا کہ جہار حق ہے کہ اپنی حان وہال کے حفاظت کے

ہوتی جارہی ہیں اور ہیر وز گاری میں اضافہ ہور ہاہے۔ڈی آئی جی اطہر رشیدنے کہا کہ پولیس کا کام عوام کا تحفظ کرناہے ،اگر ہم یہ بھی نہ کرسکے توجمیں کچھ

اور کام کرناچاہے۔ میں نے اس سیمینارہے بہت کچھ سیکھاہے اسے اپنے افسر ان اور دیگر لو گوں تک یہ معلومات پہنچائوں گا۔ ہم سب کی یہ ذمہ داری ہے کہ عوامی سطح پر ایسے پیغامات پہنچائے جائیں جس سے ملک کے مسائل میں کمی آئے۔ پر وفیسر ڈاکٹر نیم نے بھینیوں کے فضلے سے گیس حاصل کرنے سے

لاہور (خصوصی نما سیمرہ): وزیر اعلیٰ پنجاب محمد شہباز شریف نے کہاہے کہ غیر ملکی سرمابہ کاروں کی توانائی منصوبے میں ایک کمیح کی تاخیر بھی نا قابل بر داشت ہے۔انہوںنے کہا کہ توانائی کے منصوبوں کوبرق رفماری سے آگے بڑھانا ہاری پالیسی ہے اس سلسلہ میں تاخیر پر کسی قشم کا کوئی سمجھوتہ نہیں کیا جائے گا۔ وزیراعلیٰ نے ساہیوال میں یاور بلانٹس کی تنصیب کے منصوبے کی ٹگرانی کے لئے چیف سیکرٹری کی سربراہی میں سمیٹی تشکیل دیتے ہوئے ہدایت کی کہ تمیٹی روزانہ کی بنیادیرا جلاس منعقد کرکے منصوبے پرپیشرفت کا جائزہ لے گی اور رپورٹ پیش کرے گی۔وہ گزشتہ روز ساہیوال میں درآ مدی کو نلے ہے 660،660مگاواٹ کے 2 اور ملائٹس لگانے کے منصوبے پرپیٹر فت کا جائزہ لینے کے حوالے سے اعلیٰ سطح کے اجلاس سے خطاب کر کے بنجنگ ڈائز کیٹر رہے تھے۔ چیف سیکرٹری، سینئر ممبر بورڈ آف ریونیو، چیئز مین منصوبہ بندی وتر قیات، ایڈ بیٹنل چیف سیکرٹری توانائی، چین کی تمپنی مٹر لین جبان وئے ،ڈائریکٹر ٹیکنیکل مٹر فین جبان فینگ سمپنی کے دیگر عهدیداران اور متعلقہ حکام نے اجلاس میں شرکت کی۔ایڈیشنل چیف سیکرٹر ک جہازیب خان نے منصوبے پر پیشرفت کے حوالے سے تفصیلی ہریفنگ دی۔ وزیراعلی محمہ شہباز شریف نے اجلاس سے خطاب کرتے ہوئے کہا کہ ساہوال میں درآمدی کو نلے سے یاور بلانٹس کی تنصیب کا منصوبہ ہمارے لئے نہایت اہمیت کا حامل ہے۔انہوں نے کہا کہ یہ سمیٹی وایڈا،این ٹی ڈی سی ، محکمہ توانائی، ماحولیات اور معدنیات کے افسران پر مشتمل ہو گی۔ وزیراعلٰ نے ہدایت کی کہ ساہیوال میں یاور بلا نٹس کی تنصیب کے منصوبے کے لئے ٹییڈرنگ سمیت تمام امور شفاف طریقے سے تیزی سے مکمل کئے جائیں، ہمیں توانائی کے منصوبوں کو کو کی لمحہ ضائع کئے بغیر تیزی سے مکمل کرناہے او راس مقصد کے لئے متعلقہ اداروں کو تند ہی اور جالفشانی سے کام کرنا ہو گا۔ انہو ہے کہا کہ چائیہ ویسٹرن یاور سمپنی توانائی کے شعبے میں کام کرنے والی ایک بڑی کمپنی ہے، توانائی کے شعبے میں پنجاب حکومت اور چین کی کمپنی کااشتر اک خوش آئند ہے، انہوں نے کہا کہ چین ہاکستان کا مخلص دوست ہے اور بلامعاوضہ مختلف شعبوں کی ترقی میں چین کا تعاون لا کق تحسین ہے۔انہوںنے کہا کہ ساہیوال میں یاور بلانٹس کی تنصیب کیلئے چین کی سمپینی سیپکو تھر ی فیز پہلٹی شاڑی رپورٹ تیار کر رہی ہے جو چین کا پنجاب کے عوام کے لئے ایک تخفہ ہے ، انہوائے کہا کہ چین کی کمپنیوں نے بھارت میں کو کلے سے 20 ہز ار میگاواٹ کے یاور بلانٹس لگائے ہیں جن کامیں نے خو د حالیہ دورہ بھارت کے دوران مشاہدہ کیاہے، انہوں نے کہا کہ میں بھارت میں چین کی سمپنی کے کام کودیکھ کربے حدمتاثر ہواہوں اور ہم بھی چین کی ٹیکنالوجی ہے استفادہ کرناچاہتے ہیں۔وزیراعلی نے ہدایت کی کہ فیز سلٹی سٹڑی رپورٹ کی تیاری میں مصروف چینی کمپنی کے ماہرین کو بہترین سکیور ٹی فراہم کی جائے اوران سے مکمل تعاون کیا جائے۔

چشمہ (طاہر شیر افی) یاکتان ایٹی توانائی کمیشن (بی اے ای سی) کے چیئر مین ڈاکٹر انصر پر ویزنے کہاہے کہ ملکی توانائی کی ضروریات پوری کرنے کے لیے وژن 2030 کے تحت ایٹی توانائی ہے آٹھ ہزار آٹھ سومیگاواٹ بجل جبکہ 2050 تک بیالیس ہزار میگاواٹ بجلی پیدا کرنے کامنصوبہ ہے۔ گیارہ سو مگاواٹ کے ایک نیوکلیئر ماور بلانٹ ہے سالانہ ایک ارب ڈالر فرنس آئل کی درآ مد کی مدمیں بیت ہو گی، کراچی میں زیر تغمیر کے ٹوایٹی توانائی بلانٹ کو حملے سے محفوظ رکھنے کے لیے میز ائل شیلڈ لگائی جائے گی،ایٹمی فضلے کوٹھ کانے لگانے کاموثر نظام موجود ہے۔ان خیالات کا اظہارا نہوں نے بدھ کے روز چشمہ میں میڈیا کے نمائندوں کو ہریفنگ دیتے ہوئے کیا۔انہوں نے بتایا کہ2030 تک ایٹمی توانائی ہے مجموعی طور پر آٹھ میز ار آٹھ سومیگاواٹ بجل

2030 تک ایٹی توانائی سے 8800 میگاواٹ بجل بیدا کی جائیگی جنگ نیوز 02 جنوري 2014





پیدا کرنے کا منصوبہ ہے گیادہ سومیگاواٹ کے سات نے پاور بلانٹ لگائے جائیں گے جن میں سے کرا پی میں لگاہے جانے والے دو پاور بلا مغمس مجھی شامل ایسان کا کہنا تھا کہ 340 میگاواٹ کے جی تقری اور 340 میگاواٹ کے جی تور کا در 340 میگاواٹ کے جی تور کا در 2010 میگاواٹ کے جی تور کا در 2010 میگاواٹ کے جی تور کا در 2010 ارب دو پے نی یونٹ ہے کم لاگھ بیٹل گھر پر 170 ارب دو پے ہے زائد کی لاگھ تا گئی جن کو 2016 تک مکمل کر لیاجائے گا ،ان دو پلا مغمس ہے دس دو پے فی یونٹ ہے کم لاگھ بیٹل ہے حکومت کو صرف حاصل ہو گی۔ انہوں نے بتا یا کہ ہی تقری اور حی فور کی لاگھ میں ہے حکومت کو صرف کی ہے۔ انہوں نے بتا یا کہ سے گرد شی قرض کے فاتے میں مجمی مدوسط کی ہے۔ انہوں نے بتا یا کہ ستی ایٹی بجل ہے گرد شی قرض کے فاتے میں مجمی مدوسط کی ۔ انہوں نے بتا یا کہ ستی ایٹی بجل ہے وہوں و نیا میں ایٹی توانائی میں مشخری کو حاصل کر نے کیلئے ایٹی توانائی حاصل کر فائی ہے ہوں و نیا میں ایٹی توانائی حاصل کر نے کیلئے ایٹی توانائی حاصل کر فائی ہے۔ پوری و نیا میں ایٹی توانائی کی ملکی ضروریا ہے ہوں کی اور دوارب ڈالر زمالا نہ بچت ہو گی افسور پر ویز نے بتایا کہ حکومت کو ابتدائی طور پر حاصل کر نے کیلئے ایٹی توانائی بیل میں ہے۔ ایک سے مور کی اور دوارب ڈالر زمالا نہ بچت ہو گی افسور پر ویز نے بتایا کہ حکومت کو ابتدائی طور پر چی توانائی کی ملکی ضروریا ہی ہو میں ان سے حاصل ہو نے والے در یونیو ہے مزید پلا مغمس لگائے جائیں گی انہوں نے بتایا کہ جو دوران وونوں ممالک کے در میان قریجی توانائی کے ملک کیساتھ مل کر کام کریں تو فد شر رہتا ہے کہ وہ در میان فریجی توانائی واللگ ہے ہوں ان کی کو چارار ب سترہ کر وڈردو پر کی انہوں نے بتایا کہ ہے ایا ایس می نے پی اے ای کی کو چارار ب سترہ کر وڈردو پر کی ادا میک کیا وہ انگی واللگ ہے۔ انہوں نے کہا کہ ہی جدوران وونوں ممالک کے در میان قریج بتایا کہ کے ایا ایس می نے پی اے ای کی کو چارار ب سترہ کر وڈردو پر کی اے ای کی کہ چارار ب سترہ کر وڈردو پر کی اے ای کی کہ ہے۔ انہوں نے کہا کہ ہے۔ انہوں نے بتایا کہ ہے۔ انہوں نے کہا کہ ہے۔ انہوں نے بتایا کہ ہے۔ انہوں نے کہا کہ ہے۔ انہوں نے بتایا کہ ہے۔ انہوں نے کہا کہ ہے۔ انہوں نے بتایا کہ کے ای ایس کی کو چارار ب سترہ کر وڈردو پر کی کی کو بی ادا میکن کے۔





ENERGY DIRECTORY

COMPANIES WORKING IN ENERGY SECTOR				
COMPANIES WORKING IN ENERGY SECTOR Abdullah Oil Industries				
AB Gas Company LPG MARKETING COMPANIES	Oil			
Private Company	Private Company			
Muhammad Bashir Chief Exclusive	0092-21-35055057			
0092-42-5894057, 5865271	Plot 15, Sector 25, ST-2/1, Korangi Industrial Area,			
0092-3004353595	Karachi			
0092-42 -5884450				
78 HH -DHA, Cantt. , Lahore.				
Adeel Oil Traders	Admore Gas Private Limited,			
Oil	Oil Marketing Companies			
private Company	Private Company			
Mr.Malik Nadeem & Malik Ikram 0092-333-6560759	Mr. Razi A. Hanafi,Managing Director agplkhi@admore.com.pk -			
Basement Shop No.4,Near Nadir Cinema Plaza,	agplisb@admore.com.pk			
Madina Center, Faisalabad	111-ADMORE (236673) –			
maama contor, raioalabaa	0092-21 5303191-92, 5364168-69, 5364171-72			
	0092-21 5364170 & 5864562			
	316,3rd Floor, Continental Center, Sharah-E-Iqbal,			
	Clifton Karachi-75600			
	www.admore.com.pk			
Aftab Traders (Pvt.) Limited.	Agha Gas Company (Pvt.) Limited			
LPG MARKETING COMPANIES	LPG MARKETING COMPANIES			
Private Company	Private Company			
Abdul Hadi Khan Chief Exclusive	Agha Syed Liaqat Ali Chief Exclusive 0092-81-2844058			
premiergas@hotmail.com 0092-21-4389244-6	0092-81 -2835144			
0092-21 -4521361	S. Salahuddin Building, M.A. Jinnah Road, Quetta			
Office No. 603, P. No. 30-A Progressive Center, 6th	o. Jalandani Bahanig, M.A. Jiman Road, Quetta			
Floor, Block-6, Shara-e-Faisal, PECHS Karachi				
www.premiergas.com.pk				
AHMAD GEOMEMBRANE INDUSTRIES	Akbar Associates (Pvt.) Limited			
Geosynthetic	LPG MARKETING COMPANIES			
Private Company	Private Company			
sales@geomembrane-geotextile.com 0092-42-352-60305	Jamal Akbar Ansari Chief Exclusive			
0092-42-352-60307	info@akbarassociates.com 0092-51-2264308			
22 KM OFF FEROZPUR ROAD LAHORE, 53100	0092-51 -2281678			
PAKISTAN	No. 88, Khayaban-e-Iqbal, F-8/2, P.O. Box			
www.geomembrane-geotextile.com	1416,Islamabad			
	www.akbarassociates.com			
Al Hamra Handicrafts	Ali Brothers.			
Marble Handicrafts	LPG MARKETING COMPANIES			
Private Company	Private Company			
Rao Iftikhar,	Sardar Ali Khan Chief Exclusive			
alhamra@cyber.net.pk	0092-91-5830855, 2650114 03334256623,			
0092- 300-5001231/+92- 021-5380539 0092 21 5380543	03005903242 0321 -9159442 0092-91-5830855			
3rd floor 92-C 11th Commercial Street, Phase-2,	H. No. 223-A, St. No. 6, Sector K -1, Phase III,			
Extension DHA, Karachi	Hayatabad, Peshawar.			
www.al-hamra.com.pk	,,			
All Pakistan Marble Industries Association	Anoud Gas Limited formerly Eirad Co mpany			
Marble Industries	Limited			
Private Company	LPG MARKETING COMPANIES			
Mr.Farrukh Majeed Chairman	Private Company			
apmia@hotmail.com	Syed Amjed Husain Chief Exclusive			
0092-51 4433508, 4432774 0092-51 4432774	info@anoudgroup.com.pk 0092-21-5681084 (5 lines), 0092-51-2850486			
Bhatti, Plaza I-9 Markaz, Islamabad	0092-21-5681084 (5 lines), 0092-51-2850486 0092-21 -5682967, 0092-51-2256074			
Bilatti, i laza 1-3 mai kaz, islamavau	N o-G -5, Al-Mustafa Apartment Markaz G -8,			
	Islamabad.			
	www.anoudgroup.com.pk			
ı	rest State and P			





Asia Geophysical Services (Private) Limited	Attock Petroleum Limited
Oil & Gas	Oil Marketing Companies
Private Company	Private Company
Javed Ahmed (Chief Executive Officer)	Mr. Shuaib A. Malik, Chief Executive Officer
ags@isb.comsats.net.pk	contact@apl.com.pk
0092(42)5167820/92(42)2100945/92(300)8562301	0092-51-5127250-54
0092(42)5167830	0092-51-5127255
172-M Commercial Area, Model Town Extension, Lahore.	Attock House, Morgah, Rawalpindi.
Awami Gas (Pvt.) Limited.	www.apl.com.pk B.B.N Energy (Pvt.) Limited.
LPG MARKETING COMPANIES	LPG MARKETING COMPANIES
Private Company	Private Company
Mrs. Maryam Ahsan Maqbool Chief Exclusive	Farrukh Mahmood Bukhari hief Exclusive
0092-42-5380236 & 38	0092-42-5123597, 5122189
0092-42-5380237	0092-42 -5115295
17-C -2, Gulberg III, Lahore.	140 Main Industrial Area, Kot Lakhpat, Lahore.
Balochistan Gas Co. (Pvt.) Limited.	Balochistan Minerals & Oils Pvt.) Limited.
LPG MARKETING COMPANIES	LPG MARKETING COMPANIES
Private Company	Private Company
Mohammad Sarwar Khan Chief Exclusive	Sardar Muhammad Anwar Khan Jaffar Chief
0092-51-4862386-7	Exclusive
0092-51 - 4862388	0092-81-2892233, 2447460,081-2832779
Anique Arcade, First Floor, Office # 14 & 16, I/8	0092-81 -2828178
Markaz Islamabad.	BMO International, Jaffar House, Spiny Road,
DDN Francis (D. 4.) Limita I	Quetta.
BBN Energy (Pvt.) Limited Oil & Gas	Best Gas (Pvt.) Limited. LPG MARKETING COMPANIES
Private Company	Private Company
ahsan@bbnenergy.com - bukhari@bbnenergy.com	Ashar Shahab Mirza Chief Exclusive
0092-42-35118512 / 92-42-35117859 / 92-42-	0092-51-2851064
35122189	0092-51 -2255164
0092-42-35115295	House # 7/B, St. 70, F -8/3, Islamabad.
140-Main Industrial Area, Quaid-e-Azam Industrial	, ,
Estates Kot Lakhpat, Lahore 54760, Pakistan.	
Listates Not Lakilpat, Lanore 34700, Fakistan.	
www.bbnenergy.com	
www.bbnenergy.com Bolan Gas (Pvt.) Limited.	Bosicor Pakistan Limited,
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES	Oil Marketing Companies
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company	Oil Marketing Companies Private Company
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani	Oil Marketing Companies Private Company Mr. Amir Abbassciy,Chairman / CEO
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475	Oil Marketing Companies Private Company Mr. Amir Abbassciy,Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc.	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company Mr. Ferhat A. Sheikh (Country Representative) 0092-21) 35829000 0092-21) 35297601	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company Mian Muhammad Umar Idrees (Director) bsml_lhr@yahoo.com 0092-42)5757013-16,
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company Mr. Ferhat A. Sheikh (Country Representative) 0092-21) 35829000 0092-21) 35297601 5th Floor, Dolmen Executive Tower Scheme No 5,	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company Mian Muhammad Umar Idrees (Director) bsml_lhr@yahoo.com 0092-42)5757013-16, 0092-42)5710417
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company Mr. Ferhat A. Sheikh (Country Representative) 0092-21) 35829000 0092-21) 35297601 5th Floor, Dolmen Executive Tower Scheme No 5, Clifton Block 4, Karachi	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company Mian Muhammad Umar Idrees (Director) bsml_lhr@yahoo.com 0092-42)5757013-16, 0092-42)5710417 135, Upper Mall Lahore.
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company Mr. Ferhat A. Sheikh (Country Representative) 0092-21) 35829000 0092-21) 35297601 5th Floor, Dolmen Executive Tower Scheme No 5, Clifton Block 4, Karachi Cap Gas (Pvt.) Limited	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company Mian Muhammad Umar Idrees (Director) bsml_lhr@yahoo.com 0092-42)5757013-16, 0092-42)5710417 135, Upper Mall Lahore. Chevron Pakistan Limited formerly Caltex Oil
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company Mr. Ferhat A. Sheikh (Country Representative) 0092-21) 35829000 0092-21) 35297601 5th Floor, Dolmen Executive Tower Scheme No 5, Clifton Block 4, Karachi Cap Gas (Pvt.) Limited LPG MARKETING COMPANIES	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company Mian Muhammad Umar Idrees (Director) bsml_lhr@yahoo.com 0092-42)5757013-16, 0092-42)5710417 135, Upper Mall Lahore. Chevron Pakistan Limited formerly Caltex Oil (Pakistan) L td
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company Mr. Ferhat A. Sheikh (Country Representative) 0092-21) 35829000 0092-21) 35297601 5th Floor, Dolmen Executive Tower Scheme No 5, Clifton Block 4, Karachi Cap Gas (Pvt.) Limited LPG MARKETING COMPANIES Private Company	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company Mian Muhammad Umar Idrees (Director) bsml_lhr@yahoo.com 0092-42)5757013-16, 0092-42)5710417 135, Upper Mall Lahore. Chevron Pakistan Limited formerly Caltex Oil (Pakistan) L td LPG MARKETING COMPANIES
www.bbnenergy.com Bolan Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company A.A.Aref Gilani 0092-42-6666475 0092-42 -6360792 13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.),Lahore BP Pakistan Exploration & Production Inc. Oil & Gas Private Company Mr. Ferhat A. Sheikh (Country Representative) 0092-21) 35829000 0092-21) 35297601 5th Floor, Dolmen Executive Tower Scheme No 5, Clifton Block 4, Karachi Cap Gas (Pvt.) Limited LPG MARKETING COMPANIES Private Company Badar-e-Alam Chief Exclusive	Oil Marketing Companies Private Company Mr. Amir Abbassciy, Chairman / CEO 0092-21-111-222-081,021-2410099 & 021-4210909 0092-21-2410722 & 2420722 2nd Floor, Business Plaza, Mumtaz Hassan Road, Karachi www.bosicor.com.pk Brothers Engineering (Pvt.) Ltd Oil & Gas Private Company Mian Muhammad Umar Idrees (Director) bsml_lhr@yahoo.com 0092-42)5757013-16, 0092-42)5710417 135, Upper Mall Lahore. Chevron Pakistan Limited formerly Caltex Oil (Pakistan) L td LPG MARKETING COMPANIES Private Company
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0092-51)2105903	Suite #208, Marine Point Block 9, Clifton Karachi -
House 143, Street 37, F-10/1 Islamabad	75600 Pakistan
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Compagnie General De Geophysique	COMSATS Institute of Information Technology
Oil & Gas	Education
Private Company	Academic Institutions
Moeenuddin (Resident Representative)	Dr. S.M. Junaid Director
0092-51)2299031-36/92(51)2299025/92(300)8552156	admissions@comsats.edu.pk
0092-51)2299027-29	/www.ciit.edu.pk/info@ciit.edu.pk
15-Nazimuddin Road, Sector F-10/4Islamabad,	0092-51-9247000-3 /0092-51-9049802
P.O.Box-1440	0092-51-9247006
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	Islamabad
Corporation(Pvt)Ltd.	Cress LPG (Pvt.) Limited.
Private Company	LPG MARKETING COMPANIES
Mir Saeed Zahri CEO	Private Company
S-32,SITE,Hawksbay Road, Karachi	Muhammad Sharif Chief Exclusive
	0092-42-6279066, 6371323,042-6371324
	0092-42 -6279067, 6362402
	30, Lawrence Road, Lahore
DAWOOD HERCULES	Descon Exploration (Pvt.) Limited
Fertilizer	Oil & Gas
Private Company	Private Company
info.dh@dawoodgroup.com	Abdul Razak Dawood (Chairman/Director)
0092-42) 6301601-07	Rdawood@Descon.com.pk
0092-42) 6364316, 6360343	0092-42)5805134
35-A, Shahrah-e-Abdul Hameed Bin Baadees	0092-42)5811005, 92(42)5811135
(Empress Road), Lahore 54000, Pakistan.	Descon World Head Quarters, 18 Ferozpur Road,
www.dawoodgroup.com	P.O. Box 1201 Lahore 53000, Pakistan
Dewan Petroleum (Pvt.) Limited	Energy & Power Department
Oil & Gas	Energy
Private Company	Govt Of KPK
Dewan Zia-ur-Rehman Farooqui (Chairman & Chief	Secretary. E&P@kpk.gov.pk/
Executive)	0092-91-9212686
an.sectt@dewanpetroleum.com	0092-91-9212657
0092-51)111-313-786, 92(51)2277648	PESHAWAR
0092-51) 2276535	
46 Nazimuddin Road, F-7/4, Islamabad 44000	
Energy Department,	Energy Department,
Energy	Energy
Govt of Punjab	Govt Of Sindh
Mr. Mohammad Jehanzeb Khan, Secretary,	Plot No ST/2/1, Sector 23, Korangi Industrial Area
ed.contact@energy.punjab.gov.pk	Karachi
0092-42-99213974-5	
0092-42-99213906	
Library Road, Old Anar Kali, Lahore, Pakistan.	
ENGRO	ENI PAKISTAN LIMITED
Fertilizer	Oil & Gas
	0.11 0.1 0.10
Private Company	Private Company
eel_hiring@engro.com	hro.recruitment@enipakistan.com.pk
0092-21 111 211 211	5th Floor, The Forum, G-20, Block-9, Khayaban-e-
Engro Chemical Pakistan Ltd. 7th & 8th Floors, The	Jami, Clifton, Karachi
Harbor Front Building HC # 3, Marine Drive, Block	
4, Clifton - Karachi	
www.engro.com	
Exploration and Production Companies	FATIMA GROUP
Association (PPEPCA).	Fertilizer
Oil & Gas	Private Company
Private Company	mail@fatima-group.com
mail@ppepca.com	0092-61)4512031-2
0092-51-2112015-16	
	0092-61)4511677
0092-51-2112108	2nd Floor Trust Plaza, L.M.Q Road, Multan
House No. 119-A, Street No. 37 F-10/1, Islamabad,	www.fatima-group.com
www.ppepca.com/communitydevelopment/Polish_	
Oil_and_Gas_Company.html	





Fauji Fertilizer Bin Qasim Ltd	Fauji Fertilizer Company
Fertilizer	Fertilizer
Private Company	Private Company
Lt Gen Muhammad Zaki, HI, HI (M), (Retd) is	Lt Gen Naeem Khalid Lodhi, HI(M) (Retired)
info@ffbl.com.pk	ffcrwp@ffc.com.pk
0092-51 9272196-97	0092-51) 111-332-111
0092-51-9272198-99	0092-51) 8459925
Fauji Fertilizer Bin Qasim Limited 73 - Harley	156-The Mall, Rawalpindi
Street, Rawalpindi.	www.ffc.com.pk
www.ffbl.com	W W W W W W W W W W W W W W W W W W W
Fauji Foundation	Fine Gas Co Ltd. (FG)
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Fertilizer	GAS
Private Company	Govt
info@fauji.org.pk	info@finegases.com/
009251-595-1821 to 40	0092-42-35118937-40
68 Tipu Road, Chakala Rawalpindi, Pakistan-46000	0092-42-35122642 00-92-42-35112905
www.fauji.org.pk	130, Industrial Estate Kot Lakhpat, Lahore - 40,
	Pakistan
	www.finegases.com
Formulation One (Det.) United	
Foundation Gas (Pvt.) Limited.	Frontier Holding Limited
LPG MARKETING COMPANIES	Oil & Gas
Private Company	Private Company
Brig (R) Hassan Shah (General Manager)	Khalid Shoaib (Senior Staff Geophysicist)
0092-51-5584936	fhlisd@comsats.net.pk, /
0092-51 -5568577	0092-51)2654471-73,
Shahrahe Quaid-e-Azam, P.O.Box No. 422,	0092-51)2653807
Rawalpindi.	House# 149, Street 15, Sector E-7 Islamabad
isawaipiiiai	www.Juraenergy.com
Fugro Coodatio I td	
Fugro Geodetic Ltd.	Fusions Group
Oil & Gas	Solar Energy
Private Company	Private Company
Richard Hall (Country Manager)	info@fusionsgroup.com
fugro@fugro.com.pk	0092-213-4662642 / 92-213-4662643 / 92-213-
0092-21) 4532041, 4539165, 92(21)4532041	8045043
0092-21)4532042	www.fusionsgroup.com
28-B, K.D.A Scheme # 1Karachi -753850.	acionogi capiconi
GasMan (Pvt.) Limited.	GEMS AND GEMOLOGICAL INSTITUTE OF
LPG MARKETING COMPANIES	
	PAKISTAN
Private Company	GEMS
Mrs. Abida Khurshid Chief Exclusive	Govt Dept
0092-51-2255048, 2255148	ggipeshawar@yahoo.com
0092-51 -2255948	009291) 9213303, 9213196, 9213197
House # 12, Street 32/1, F-8/1, Islamabad	009291) 9213198
, , , , , , , , , , , , , , , , , , , ,	Suite # 209, 1st Floor, Benevolent Fund Building,
	Sadder Road, Peshawar - Khyber Pakhtoon Khuwa
	- Pakistan
Coofinide Knolony Liville	www.ggip.com.pk/
Geofizyka Krakow Limited	Global Gas International (Pvt.) Limited
Oil & Gas	LPG MARKETING COMPANIES
Private Company	Private Company
Dr Ivan Vrubel (Country General Manager)	Muhammad Saeed Chief Exclusive
gkoffice@dsl.net.pk /Gkoffice@dsl.net.pk	0092-51-5464062, 5464063
gronice(washiet.pr/ordince(washiet.pr	
	0092-51 -2293616
0092-51)2262608, 2261016	
0092-51)2262608, 2261016 0092-51)2251829	0092-51 -2293616 H . # 297, Street 59-A, F-10/3, Islamabad.
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad.	H . # 297, Street 59-A, F-10/3, Islamabad.
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited)	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited.
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive
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0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk 0092-42 3864 0618	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive 0092-42-6653894-6, 5726804,042-5726805
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk 0092-42 3864 0618 3rd Floor, 19J CCA, DHA Phase 5, Lahore, www.gno.com.pk	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive 0092-42-6653894-6, 5726804,042-5726805 0092-42 -6655560 -1 45-CMA Colony, Abid Majeed Road, Lahore-Cantt.
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk 0092-42 3864 0618 3rd Floor, 19J CCA, DHA Phase 5, Lahore, www.gno.com.pk Government Holdings (Private) Limited (GHPL)	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive 0092-42-6653894-6, 5726804,042-5726805 0092-42 -6655560 -1 45-CMA Colony, Abid Majeed Road, Lahore-Cantt. Halliburton
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk 0092-42 3864 0618 3rd Floor, 19J CCA, DHA Phase 5, Lahore, www.gno.com.pk Government Holdings (Private) Limited (GHPL) Oil & Gas	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive 0092-42-6653894-6, 5726804,042-5726805 0092-42 -6655560 -1 45-CMA Colony, Abid Majeed Road, Lahore-Cantt. Halliburton Oil & Gas
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk 0092-42 3864 0618 3rd Floor, 19J CCA, DHA Phase 5, Lahore, www.gno.com.pk Government Holdings (Private) Limited (GHPL) Oil & Gas Govt	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive 0092-42-6653894-6, 5726804,042-5726805 0092-42 -6655560 -1 45-CMA Colony, Abid Majeed Road, Lahore-Cantt. Halliburton Oil & Gas Private Company
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk 0092-42 3864 0618 3rd Floor, 19J CCA, DHA Phase 5, Lahore, www.gno.com.pk Government Holdings (Private) Limited (GHPL) Oil & Gas Govt Khushid Anwer (Managing Director /Chief	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive 0092-42-6653894-6, 5726804,042-5726805 0092-42 -6655560 -1 45-CMA Colony, Abid Majeed Road, Lahore-Cantt. Halliburton Oil & Gas Private Company Rick Stewart (Operations Manager)
0092-51)2262608, 2261016 0092-51)2251829 Park Road, F-8/2 Islamabad. GO Pakistan (Gas & Oil Pakistan Pvt. Limited) Oil & Gas Govt info@gno.com.pk 0092-42 3864 0618 3rd Floor, 19J CCA, DHA Phase 5, Lahore, www.gno.com.pk Government Holdings (Private) Limited (GHPL) Oil & Gas Govt	H . # 297, Street 59-A, F-10/3, Islamabad. Golden Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Shahbaz Aftab Khan Chief Exclusive 0092-42-6653894-6, 5726804,042-5726805 0092-42 -6655560 -1 45-CMA Colony, Abid Majeed Road, Lahore-Cantt. Halliburton Oil & Gas Private Company





ka@ghpl.com.pk/ashz@ghpl.com.pk/ 0092-51)9266895, 9266649,9266766 House # 9, Street # 29, F-10/1, Islamabad, Pakistan www.ghol.com.pk	0092-)300-5010092 92(51)4444951-2, 92(51)4439046 Plot No .18-20, Industrial Area ,I-9/2 Islamabad
Hannan corporation Marble Private Company Mr.Khurram Rangoonwala CEO 1-D25/26 Mangopeer Road ,Qasba Metrville,Karachi	Hassan Marble Marble /Handicrafts Private Company hassanmarbles@yahoo.com, mail@hassanmarbles.com 0092- 051-4435374-5 0092-51-4435376 Plot # 375-A, Potohar Road, 1/9 Industrial Area, Islamabad www.hassanmarbles.com
Hi- Tech Alternative Energy System Solar Energy Private Company hitech@cyber.net.pk; 0092-21-3521 2315/ 3562 1864, 009221-3562 1869 Ground Floor, Hotel Royal City Building Sarmad Road, Near Regal Chowk Saddar,karachi- 74400,Pakistan www.hitech.com.pk	Hycarbex Inc. Oil & Gas Private Company Dr. Iftikhar Zahid (President /Chief Executive Officer) hypak@comsats.net.pk/amel@mail.comsats.net.pk 0092-51)2855713-4, 2853052, 2853152 0092-51)2855717 House #3 Street 32, F 8/1, Islamabad
Indus Minning Company Peshawar Minning Private Company Mr.Shahid R.Khan Cief Executive, Indus_mining@hotmail.com 0092-91-9214074/091-9214046 0092-91-9214046 House No. 74,Street No. 4, Sector K-5,Phase- 3,Hayatabad Peshawar	Innosol Energy Private Company Muhammad Abdur Rahman (MD) md@innosol.pk 0092-51-2538347, 0092-333-5533362 4-D 1st Floor Mahmood Plaza Fazal-ul-Haq Road Blue Area Islamabad www.innool.pk
Inter State Gas Systems (Private) Limited Gas Private Company ail@isgs.pk/ 0092-51-9267672-74 0092-51-9267671 517, Main Margalla Road, F-10/2, Islamabad www.isgs.pk	IPR Trend Oil Corporation Oil & Gas Private Company Wasim A.Zuberi (General Manager) iprgoc@isb.comsats.net.pk, ipr@isb.paknet.com.pk 0092-51)2871501-3 0092-51)2871504 52-East, Dodhy Building, 3rd Floor, Jinnah Avenue, Blue Area, Islamabad
Iqra Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Zulfiqar Ali Chief Exclusive 0092-55-3842900, 6818247 -48 0300-6404991 0092-55 -3843600, 6818242 21-Km, Lahore Side, G.T Road, Kamoke, District Gujranwala.	Irfan Orient Arts & Crafts, Marble /Handicrafts Private Company Iranorientac15@yahoo.com 0092-336-3049620 F-959/3, WAPDA Labour Union Hall, Khokh Muhalah Gari Khata, Hyderabad
Khalil Corporation Mutli Sector Private Company mail@khalilcorporation.net, yaallah@cyber.net.pk 009221 3438 4441 & 438 4442/ 92-300) 824 6586 009221) 3520 6474 - 3438 4446 - 7 uite No. 1010, Kawish Crown, Main Shahrah - e - Faisal, Karachi - 75350, Sindh, Pakistan www.khalilcorporation.net	Khyber Energy (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Muhammad Ishaq Khan Chief Exclusive 0092-91-5260618 0092-91 -5260372, 5274705 Off: No. 19, Cantonment Commercial Complex, Fakhr-e-Alam Road, Saddar Peshawar.
Kirn Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Ch. Mohammad Rafique Chief Exclusive kirngas@yahoo.com 0092-42-7579950, 7591328 7591797: 03334264372 042 -7591698	Kotal Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Ameer Nawshad Chief Exclusive 0092-51-2878416 0092-51-2874795 No. 210, 1st Floor, Shahid Plaza, Blue Area,





14-Taj Arcade, Jail Road, Lahore. www.kirngas.com/	Islamabad
Links International (Pvt.) Limited	LMK Resources
LPG MARKETING COMPANIES	Oil & Gas
Private Company Ijaz Muhammad Khan Chief Exclusive	Private Company Atif Rais Khan (President & CEO)
042- 5321461-5	office@lmkr.com,
042- 5321324-5	0092-51)111-101-101
1-Km Bhoptian Chowk, Defence Road, Off Raiwind	0092-51)2879854, 2879855
Road Lahore.	300, Software Technology Park 1, Evacuee Trust CenterSir Agha Khan Road, F-5/1,Islamabad -
	44000
Lub Gas (Pvt.) Limited.	Madni Gas (Pvt.) Limited.
LPG MARKETING COMPANIES Private Company	LPG MARKETING COMPANIES Private Company
Iqbal Z. Ahmed Chief Exclusive	Mian Muhammad Mukhtar Chief Exclusive
0092-42-6306106&08, 6368844, 051-2652727 &	0092-42-5850027 0333-4708408
2652728 0092-42 -6368742	0092-42 -5850027, 042-5893608 Al-Haider Tower 72-CCA, Phase 4, DHA, Lahore.
7-Egerton/Kashmir Road, Lahore.	Al-Haldel Towel 72-00A, I hase 4, DHA, Lahore.
Makran Gas & Oil Co (Pvt.) Limited	Marble/ Slabs Marmonyx,
LPG MARKETING COMPANIES Private Company	Marble /Slabs Private Company
Major (R) Azizullah Khudadad Dashti Chief	Mr. Haroon Rashid, Director
Exclusive	haroon@marmonyx.com
0092-852-611237, 413264 0321-8091101,2,4	0092-21-6976381 /0300-8228982
0092-852-413884 Pasni Road Turbat District Kech, Balochistan.	009221-4375706 504 Windsong Place, Block 7 & 8, KCHS,Karachi
Tuom Road Tarbat Biotriot Room, Baroomotan.	www.marmonyx.com
Mari Gas Company Limited	Mari Petroleum Company Limited
Oil & Gas Private Company	Petroleum Private Company
General (Retd.) Imtiaz Shaheen (Managing Director)	info@mpcl.com.pk /
info@marigas.com.pk//info@marigas.com.pk	0092-51 111-410-410, 2352853/2352857, 2352861
0092-51) 111-410-410, 2297683-86 0092-51)2297680	0092-51 2352859 21, Mauve Area, 3rd Road, G-10/4 P.O. Box 1614,
Plot no 21, Mauve Area, 3rd Road, Sector G-10/4,	Islamabad – 44000
Islamabad	www.mpcl.com.pk
www.marigas.com.pk Marina Industries,	Marina Marble & Granite
Marble	Marble & Granite
Private Company	Private Company
Mr. Abdul Hameed Shera Chief Executive Officer,	Mr.Abdul Hameed Shera CEO,
marinaindus@yahoo.com 0092-21-2577490 / 0300-9233819	Marina_indus@hotmail.com, Marina_indus@yahoo.com
M-1/1, Hasrat Mohani Colony S.I.T.E., Karachi	0092-345-3165979/32563897, 32577490
	0092-21-3256419
	Plot# M-1 Hasrat Mohani colony, SITE, Karachi www.marinaindustries.com
Marshal Gas (Pvt.) Limited.	Mecom Gas (Pvt.) Limited.
LPG MARKETING COMPANIES	LPG MARKETING COMPANIES
Private Company Syed Asghar Ali Shah Chief Exclusive	Private Company Abdul Wahid Chief Exclusive
0092-21-4322677-8, 2033000	0092-21-5894428, 5894429.
0092-21 -4322677	0092-21 -5894432
Suite # 11, 2nd Floor, Kehkashan Mall, Block -2 P.E.C.H.S, Tariq Road, Karachi	9-C, 13th Commercial Street Phase-II, Ext DHA, Karachi.
Mehran LPG (Pvt.) Limited.	Mehran Marble Industries
LPG MARKETING COMPANIES	Marble Industries
Private Company Qazi Hamayaun Fareed Chief Exclusive	Private Company Mr.Muhammad Arif CEO
0092-42-6306106&8, 6368844,051-2652727 &	sales@mehranmarble.com
2652728	0092 (312) 669 3333/ +92 322 200 8493
0092-42 -6368742	1D9/3 Manghoper Road ,Qasba
7-Egerton / Kashmir Road, Lahore.	Moteroville,Karachi. www.mehranmarble.com/
	WWW.IIICIII aliiliai DiC.CUIII/





Memon Marble Industries	Mesa Petroleum (Pvt.) Ltd.
Marble	Oil & Gas
Private Company	Private Company
Mr.Khurrum Ibrahim CEO	Muslim Lakhani (Chairman & CEO)
memonmarble@yahoo.com	mlakhani@mesa.com.pk
0092-321 9257708/ 03009257708/ 021-36661134-	0092-51)2654146-47
36669585	0092-51)2654148-49
1-D 9/32 Mangopeer Road ,Qasba Metrville,Karachi.	324, Hillside Road, E -7, Islamabad Pakistan.
www.memonmarble.com/	524, Illiiside Road, E -7, Islamabad I akistan.
	Ministry of Water & power:
Ministry Of Petroleum & Natural Resources	
Petroleum	Electricity
Govt	Govt
info@mpnr.gov.pk/	Dr. Musadik Malik Federal Minister
009251) 9210220	info@mowp.gov.pk/secretary@mowp.gov.pk/
0092-51) 9206416	0092-51-9212442/0092-51-9210533
Room No. 301, 3rd Floor, A block Pak Secretariat	0092-51-9224825
Islamabad.	Room No. 201-204, 2nd Floor, A Block Pak
www.mpnr.gov.pk	Secretariat
	www.mowp.gov.pk
MND Exploration & Production Limited	MOL PAKISTAN
Oil & Gas	Oil & Gas
Private Company	Private Company
Alamgir Khan (General Manager)	0092-51111665725
mnd@isp.comsats.net.pk /alamgir@mnd.com.pk	0092- 512820113
0092-51)2651959, 2651884	Plot No. 5/A, Crown Plaza, F-7 Markaz, P.O.Box
0092-51)2651875	1562
House 236, Street 11, Sector E-7 Islamabad	www.molpakistan.pk
Muhammadi Gas Company (Pvt.) Limited.	Nano Bio-Solutions
LPG MARKETING COMPANIES	Bio Tech
Private Company	Private Company
Amir Khurshid Chief Exclusive	Dr. Zafar Altaf
mgc@dsl.net.pk	Info@nanobiosolution.com
0092-51-2255048, 2255148	0092 51 250 5983

0092-51 -2255948	0092 51 486 4301
House # 12, Street 32/1, F-8/1, Islamabad	3 rd Floor, Park 1, Constitution Ave F-5/1, Islamabad,
	44000, Pakistan
N. C. LE. L. C. C.	www.nanobiosolution.com
National Engineering Corporation	National Fertilizer Corporation of Pakistan (Private)
Solar Energy	Limited
Private Company	Fertilizer
nec@cyber.net.pk	Private Company
0092-21-32788336	Mr. Muhammad Khalid Malik
202 Sea Breeze Plaza, Main Shahrah-e-Faisal,	0092-42) 6284983 to 88
Karachi - Pakistan	0092-42) 6284989
	1st Floor, Alfalah Building (Tail Wing) Shahrah-e-
	Quaid-e-Azam Lahore, Pakistan
National Gases Ltd	NATIONAL TRANSMISSION & DESPATCH
GAS	COMPANY (NTDC) LIMITED PAKISTAN
Private Company	Electricity
info@natgases.com, sales@natgases.com,	Govt
customerservices@natgases.com	Mr. Khalid Mohtadullah chairmain
0092-21 111-201-202, 0092-21-2551453-58	hr@ntdc.com.pk /
0092-21-2561335	0092-42) 99201020-2283,
F-74/A, S.I.T.E. P.O. Box No. 3647, Karachi - 75700,	Room No: 419 - WAPDA House, The Mall, Lahore,
Pakistan	Pakistan.
www.natgases.com	www.ntdc.com.pk
Nativus Resources Limited	NEC
Oil & Gas	Solar Energy
Oil & Gas Private Company	Solar Energy Private Company
Private Company	Private Company
Private Company Javed Ahmad (Resident Director)	Private Company nec@cyber.net.pk
Private Company Javed Ahmad (Resident Director) nativus@isb.paknet.com.pk	Private Company nec@cyber.net.pk 0092-21-32788336
Private Company Javed Ahmad (Resident Director) nativus@isb.paknet.com.pk /nativus@isb.paknet.com.pk	Private Company nec@cyber.net.pk 0092-21-32788336 202 Sea Breeze Plaza, Main Shahrah-e-Faisal,
Private Company Javed Ahmad (Resident Director) nativus@isb.paknet.com.pk /nativus@isb.paknet.com.pk 0092-51)2291033, 2100605, 2212339, 2102065,	Private Company nec@cyber.net.pk 0092-21-32788336
Private Company Javed Ahmad (Resident Director) nativus@isb.paknet.com.pk /nativus@isb.paknet.com.pk 0092-51)2291033, 2100605, 2212339, 2102065, 2102066	Private Company nec@cyber.net.pk 0092-21-32788336 202 Sea Breeze Plaza, Main Shahrah-e-Faisal,
Private Company Javed Ahmad (Resident Director) nativus@isb.paknet.com.pk /nativus@isb.paknet.com.pk 0092-51)2291033, 2100605, 2212339, 2102065,	Private Company nec@cyber.net.pk 0092-21-32788336 202 Sea Breeze Plaza, Main Shahrah-e-Faisal,







Nemmoco Petroleum Limited Oil & Gas Private Company S. Munsif Raza (Chief Executive / Managing Director) info@ppl.com.pk/m_raza@ppl.com.pk/ 111-568-568, 0092-21)5680005, 5682125 4th Floor, P.I.D.C House, Dr. Ziauddin Ahmad Road, Karachi 75530, Pakistan. www.ppl.com.pk,	New Horizon Exploration & Production Limited Oil & Gas Private Company Syed Wamiq Abrar Bokhari (Chairman & CEO) info@nhepl.com (92)(21)5833901-3, (92)(21)5810927-8 (92)(21)5833926, (92)(21)7007525 D- 6/1, Block No 4, KDA Scheme No .5, Clifton Karachi-75600.
Nexton Group Solar Private Company saad@nexton-group.com, Info@nexton-group.com 0092-51-2288117, 0092-0333-5338035 Office # 5-C, Alhafeez Plaza, Imran Khan Cowk, Banigala, Islamabad www.nexton-group.com	Noor LPG Co. (Pvt.) Limited LPG MARKETING COMPANIES Private Company Belal Jabbar Chief Exclusive info@noorlpg.com 0092-42-5761187, 5873698 0092-42 -5750560 House # 8, 7-Aziz Avenue, Canal Bank Road Gulberg V,Lahore. www.noorlpg.com
Nortech Surveys Pakistan Limited Oil & Gas Private Company Zafar Iqbal (Director) Pepl@isb.paknet.com.pk, / 0092-51)2299025, 2299028,Mob: 92(300)8555191 House No 66, Street 25, F-10/1 Islamabad www.shahzadintl.com.pk	Ocean Pakistan Limited Oil & Gas Private Company ocean@opl.com.pk 0092-51-2351000-7 0092-51-2351044 PTET House, 3rd Road, Mauve Area G-10/4, PO Box 1325, Islamabad, Pakistan www.opii.com
Oil & Gas Development Company Limited Oil & Gas Govt info@ogdcl.com/ 0092-51-9209811- 18/0092-51-2623101- 06 0092-51-2623113- 18 Plot No.13,Jinnah Avenue, Blue Area Islamabad www.ogdcl.com	Oil & Gas Development Company Limited (OGDCL) Oil & Gas Govt Arshad Nasr (Chairman & Chief Executive Officer) info@ogdcl.com /www.ogdcl.com/ceo@ogdcl.com 0092-51)9209811-8 0092-51)9209804-6 OGDCL House, Plot No .3, Block P Jinnah Avenue, Blue Area, Islamabad
Oil & Gas Investment Limited (OGIL) Oil & Gas Govt 0092-21 3530-2963-65/92 21 3530-2967-78 0092-21 3586-1662 Oil and Gas Investment Limited 508, 5th Floor Continental Trade Centre, Block-8, Clifton, Karachi-75600, Pakistan www.ogil.com.pk Oil Industries Pakistan (Pvt.) Limited Oil Industries Govt	Oil Companies Advisory Committee Oil Govt admin@ocac.org.pk 0092-21-34549016-17-18 0092-21-34549015 1st Floor, Federation House, St. No. 28, Block-5, Clifton, Karachi- 75600 www.ocac.org.pk OK Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company
info@targetlubricants.com 0092-21-34549016-17-18 0092-21-34549015 228-A, Block-2, P.E.C.H.S., Karachi, Pakistan. targetlubricants.com	Rehmat Khan Chief Exclusive 0092-51-4102016 0092-51 -4102096 House No. 503 -A, Street No. 67, Sector I-8/3, Islamabad.
OMV (Pakistan) Exploration G.m.b.H. Oil & Gas Private Company Dr. Georg Wachtel (General Manager) .wachtel@omv.com/ 0092-51)20899/111-668-668/2273620 0092-51)2273643-2273644 5th Floor, UBL Building, Jinnah Avenue, F-6/1, Islamabad, Pakistan	OPI Gas (Pvt.) Limited. LPG MARKETING COMPANIES Private Company Murtaza Hashwani Chief Exclusive 0092-51-2273451 0092-51-2273392 House # 21 -B, Street 55, F-7/4, Islamabad





www.omv.com	
Orient Energy Systems Energy Private Company info@orient-power.com 0092 21 111-507-507, 0092 21 35072091-94, 0092 21 35077101-04 0092 21 35077105 Plot No.9, Sector 24, Korangi Industrial Area Karachi 74900 www.orient-power.com Paige Limited Oil & Gas	Orient Petroleum International Inc. Oil & Gas Private Company Mr. Sadruddin Hashwani (Chairman) orient@opii.com 0092-51)2274261-68 0092-51)2274244 Hayat Hall, Block No.2, Diplomatic Enclave No .1, G-5, Islamabad Pak -Arab Refinery Limited. (PARCO) LPG MARKETING COMPANIES
Private Company Javed Ahmad (Country Manager) Paige@isb.paknet.com.pk paige@isb.paknet.com.pk 0092-51)2100605, 2212339, 2103128-9 0092-51)2214475 148, Street # 48, F 10/4, Islamabad	Private Company Mr. Muhammad Rasheed Jung Chief Exclusive 0092-21-5090100-13,021-5090114-25 0092-21-5090625, 5090929 Corporate Headquarters,Korangi Creek Road P.O. Box No. 12243, Karachi
Pakistan GasPort Limited GAS Govt +92 42 3636.8742 www.ag.com.pk/pakistan-gasport/	Pakistan Institute of Engineering & Applied Sciences (PIEAS) Education Academic Institutions registrar@pieas.edu.pk /webmaster@pieas.edu.pk 0092-51-2207380 /+92-51-2207381/+92-51- 2207382/92-51-2207383/+92-51-2207384 0092-51-2208070 P.O. Nilore, Islamabad Pakistan www.pieas.edu.pk
Pakistan Oilfields Limited LPG MARKETING COMPANIES Private Company Sajid Nawaz Chief Exclusive chief Exclusive polcms@pakoil.com.pk 0092-51-5487589-96 0092-51 -5487599 POL House, Morgah, Rawalpindi. www.pakoil.com.pk	Pakistan Oilfields Limited Oil & Gas Private Company Shuaib A Malik (Chairman) polcms@isb.paknet.com.pk 0092-51)5487589-97 /92(51)5487562 0092-51)5487598-99 POL House, Morgah, Rawalpindi
Pakistan State Oil Company Limited. Oil Marketing Companies Govt Mr. Irfan K. Qureshi,Managing Director taaluq@psopk.com 0092-21-111-111-776/ (92 21) 99203866-85 0092-21) 99203835 PSO House, Khayaban-e-Iqbal P.O.Box-3983, Karachi-75600 www.psopk.com	Pakistan Stone Development Company stone Govt Mr. Ihsanullah Khan Chief Executive info@pasdec.com.pk 0092-51) 9263465-7/ 9261633-36 0092-51) 9263664 Chamber of Commerce Building,Mauve Area,G-8/1slamabad. www.pasdec.com.pk
Pakistan's First Fully Integrated LPG Company Petroleum Gas Govt progas@progas.cc 0092-21) 472 0077, 472 0079 0092-21) 472 0075 Progas Pakistan Limited NWZ/I/P-305(A4 LPG Area) North Western Industrial Zone Bin Qasim Karachi. www.petrosin.com	PARCO Pearl Gas (Private) Limited (formerly SHV Energy Pakistan) LPG MARKETING COMPANIES Private Company Patrick J. Gregory Chief Exclusive supergas@parco.com.pk 111-798-798 0092-51 -2275576 98-A, F/6-2, Margallah Road, Islamabad. Rawalpindi. www.parco.com.pk/ppg
Petro Search (Pvt.) Ltd., PSL Oil & Gas Private Company Shahid Ahmed (Managing Director) Shahid1407@gmail.com 0092-51)2103594, 2103593	Petroleum Consultant International (PCI) Oil & Gas Private Company Sarfraz U. Siddiqui (Chief Executive) info@petroconpak.com/ 0092-51)2299198, 2102999





0092-51)2294034, 2103594	0092-51)2296789
Flat # 76, Park Towers, Studio Apartments, F-10/3	House 87, Street - 14, Sector F-11/1, Islamabad
Islamabad.	www.petroconpak.com
Petroleum Exploration (Pvt) Ltd	Petroleum Gas (Pvt.) Limited.
Oil & Gas	LPG MARKETING COMPANIES
Private Company	Private Company
Zaheeruddin (Chairman & CEO)	Mrs. Farida Tariq Chief Exclusive
pepl@isb.com.pk, /	0092-42-5873698
0092-51)2299031-36	0092-42 -5750560
0092-51)2299027-29 15 Nazimuddin Road, Sector, F-10/4, Islamabad,	House # 8, 7-Aziz Avenue, Canal Bank Road,
P.O. Box-1440	Gulberg V, Lahore www.petroleumgas.com.pk
www.shahzadintl.com.pk	www.petroleumgas.com.pk
Petronas Carigali (Pakistan) Ltd., (PCPL)	Petrosin Gas Pakistan (Pvt.) Limited
Oil & Gas	LPG MARKETING COMPANIES
Private Company	Private Company
Mohd Ariffin Daud (General Manager)	Sohail Latif Chief Exclusive
mariffin_daud@petronas.com.pk /akhan@lmkr.com	mail@petrosin.com
0092-51)111-538-111/92(51)2097120	0092-51-2829027
0092-51)2277997	0092-51 -2825524
508, Evacuee Trust Center, Agha Khan Road,F-5/1,	82 (115), Attaturk Avenue (Embassy Road), G -6/3,
Islamabad	Islamabad.
	www.petrosin.com/pgp.asp
Pioneer Gas (Pvt.) Limited.	Polish Oil & Gas Company Pakistan Branch,
LPG MARKETING COMPANIES	(POGC)
Private Company	Oil & Gas
Khurram Khan Chief Exclusive	Private Company
info@pioneerlpg.com	Jacek Oleksy (Resident Manager)
0092-42-7222519-20	pogc@comsats.net.pk
0092-42-7226348	/Jopogc@mail.comsats.net.pk
Ground Floor, Co-operative Insurance Building,23-	0092-51)2251530, 92(51)2654591-3/92(51)2654589,
The Mall, Lahore. www.pioneerlpg.com	Mob: 0(092)300-8555611 0092-51)2654594
www.pioneenpg.com	House # 321 Street # 17 , Sector E-7 Islamabad
Power Gas (Pvt.) Limited.	Premier KUFPEC Pakistan B.V.
LPG MARKETING COMPANIES	Oil & Gas
Private Company	Private Company
Muhammad Ali Haider Chief Exclusive	Zaffar Chida (Chief Executive Officer)
0092-21-5689243-4	mail@pkp.com.pk /zchida@pkp.com.pk
0092-21 -5689212	0092-51)111-211-311 &92(51)22514530,
305, Progressive Plaza, Beaumont Road, Civil	0092-51)2251104
Lines Karachi.	House No.2, Street 71, F-8/3Islambad
Prime Telecommunication	Pro Gas Pakistan Limited.
Telecomunication	LPG MARKETING COMPANIES
Private Compny	Private Company
info@prime-telecom.com	Abbas Bilgrami Chief Exclusive
0092-42-6370406/ 0092-42-6370406	progas@progas.cc
0092-42-6371330	0092-21-111-574-000
Office # 11/9, Durand Road, Shimla Complex, Near Queen Mary College, Lahore, Pakistan.54000	0092-21 -5823995 Pro Gas House, D-133, Block 4, Clifton Karachi -
www.prime-telecom.com/	75600.
Pyramid Gas (Pvt.) Limited.	Qureshi Gas Company (Pvt.) Limited
LPG MARKETING COMPANIES	LPG MARKETING COMPANIES
Private Company	Private Company
Muhammad Farooq Azam Chief Exclusive	Muzaf far Ali Qureshi Chief Exclusive
0092-42-5725781 0300-8478418	0092-22-2637656, 2610051 0333-2722508
0092-42 -5775064	0092-22-2781530, 2610051
W-564, Phase-III, DHA, Lahore.	Al-Noor Heights, Shop No. 9, Jamshoro Road,
	Hyderabad.
Ravi Gas (Pvt.) Limited.	RDC International (Pvt.) Limited
LPG MARKETING COMPANIES	Oil & Gas
Private Company	Private Company
Muhammad Siddique Chief Exclusive	(Chief Executive Officer)
Muhammad Siddique Chief Exclusive karachi@crescentservices.com.pk	(Chief Executive Officer) rdc@lhr.paknet.com.pk
Muhammad Siddique Chief Exclusive karachi@crescentservices.com.pk 0092-42-6305305, 6371323 -24	(Chief Executive Officer) rdc@lhr.paknet.com.pk 0092-42)5167820, 5167975, 5172514
Muhammad Siddique Chief Exclusive karachi@crescentservices.com.pk	(Chief Executive Officer) rdc@lhr.paknet.com.pk





www.cresslpg.com/ravi_gase.htm	Lahore
Renewable & Alternative Energy Association of	Rivaj
Pakistan (REAP)	Marble Handicrafts
Education	Private Company
Academic Institutions	Ms. Azra Ahmed,
Mir Ahmad Shah Executive Secretary	azra@rivajcraft.com
write@reap.org.pk	0092-300-8298757/ (92-21) 5823471-72
0092-300-5221718 /+92-51-4100084-85	0092-21) 5661287
0092-51-4100083	18, Khayaban-e-Shaheen, 18, Khayaban-e-
Plot 140 Street 9, I-10/3 Industrial Area,Islamabad,	Shaheen, Karachi
Pakistan.	www.rivajcraft.com/
www.reap.org.pk	0-4-00
Rousch (Pakistan) Power Limited (RPPL)	Sadiq Gas Company.
Electricity Private Company	LPG MARKETING COMPANIES
Abdul Razak Dawood Chairman	Private Company Faizan Tariq Chief exclusive
site@rouschpak.com/	0092-55-3258100, 3258200
0092-65-2441572, 2441822-23,	0092-55 -3257600
0092-65-2441570.	76-A, S.I.E # 1, Gujranwala
450 MW Combined Cycle Power Plant Near Sidhnai	, onia // i, oaj/aiiriaia
Barrage, Abdul Hakim, District Khanewal	
www.rouschpak.com	
Saif Energy Limited	SAM Gas (Pvt.) Limited.
Oil & Gas	LPG MARKETING COMPANIES
Private Company	Private Company
Ahmed Nawaz Khan (President)	Mrs. Bushra A. Ahsan Chief Exclusive
Saifenergy@saifgroup.com	0092-42-6278882, 6286528
/anawaz@saifgroup.com	0092-42 -6366435
0092-51)2870361-3	Azmat House, 32-Davis Road, Lahore
0092-51)2870365	
2nd Floor ,2020-Kulsum Plaza, Blue Area	
Islamabad SANCO	Congi Con (Dut) Limited
Marble /Slabs	Sangi Gas (Pvt.) Limited. LPG MARKETING COMPANIES
Private Company	Private Company
Mr. Sana ullah Khan,/Chief Executive Office,	Masood Sadiq Malik Chief Exclusive
info@sancomarble.com, sanco@inbox.com	0092-51-2829586-87, 7128081
0092- 21-6553838 /0332-225555	0092-51-2829587
0092-21-4960416	Office # 03, Hill Road, F -6/2, Islamabad
B-18 Block -3, Gulshan-e-Iqbal, Post Code # 75300	
Karachi	
sanco.aurasourcing.com	
Sarhad Gas (Pvt.) Limited.	Saudi Energies (Pvt.) Limited
LPG MARKETING COMPANIES	LPG MARKETING COMPANIES
Private Company	Private Company
Tauseef Gilani Chief Exclusive	Shahid Farrukh Chief Exclusive
0092-51-2871134	0092-42-7241072-3
0092-51-2871135	0092-42-7241074 Ghani Chambers – Patiala Ground Link Mcleod
Suite No. 4, Mezzanine Floor, Sethi Plaza, Jinnah	Road, Lahore
Avenue, Main Blue Area, Islamabad. Sehwan Gas (Pvt.) Limited.	Shabir Marble Works
LPG MARKETING COMPANIES	Marble
Private Company	Private Company
Ishti aq Asif Chief Exclusive	Mr.Aslam Shafi CEO
0092-42-5323164-65	0092-21 2562291
0092-42 -5322437	Plot# A- 52 Wilayatabad,Manghopir Road Karachi.
1/2 Km Bhoptian Chowk Defence Road, Off-Raiwind	
Road, Lahore.	
Shaheen Gas Company.	Shaheen Group of Companies
LPG MARKETING COMPANIES	Solar Energy
Private Company	Private Company
Mushtaq Arif Chief Exclusive	info@shaheensolar.com
0092-300-8737233	0092-427211390 - 92427359666 - 92427320798 -
6-A, Gulgasht Colony, Multan	923008442237
	0092-42 7228459 Shaheen Solar Company & Shacho Electronics 16-





	Hall Dood (Flootneying Doute Moulest)
	Hall Road (Electronics Parts Market) www.shaheensolar.com
Shaz Services.	Shell Development & Offshore Pakistan B.V
Electricity	Oil & Gas
Private Company	Private Company
info@shazservices.com	Brendon Connolly (Asset General Manager)
0092 21 4390032-33, 4302647-48, 4559031, 0092 300	brendon.connlly-gec@gec.shell.com
8223644, 0092 333 3376651	0092-
0092 21 4559032	51)2823136,2823573,2271432,227615/0971(4)335033
A-376, K.A.E.C.H.S Block 9, Main Shaheed-e-Millat	5
Road, Karachi.	0092-51)2228584
www.shazservices.com	House 80,Khayaban-e-iqbal, F-6/2 Islamabad
Shell Gas LPG (Pakistan) Limited	Shell Pakistan Limited,
LPG MARKETING COMPANIES	Oil Marketing Companies
Private Company	Private Company
Fawzia Kazmi Chief Exclusive	Mr. Zaiviji Ismail Bin Abdullah,Chairman
0092-21-5301270	natasha.qamar@shell.com,
0092-21-5301673	generalpublicenquiries-pk@shell.com
Suite # 606-608, 6th Floor, The Forum, Block -9,	0092 (21) 111-888-222 - 021-5689525/26
Clifton, Karachi	0092 (21) 3563-0110 - 021-5660071
	Shell House, Ch.Khalliquzaman Road, Karachi.
	www.shell.com.pk
Sindh Gas (Pvt.) Limited.	Solar Line Adaptive Technologies (PVT) LTD.
LPG MARKETING COMPANIES	Solar Energy
Private Company	Private Company
Yawar Abbas Mamda ni Chief Exclusive	S. Abdul Aziz Mehboob (Director)
0092-21-2421956	info@adaptive-com
0092-21 -2414203	0092-21) 35865896, 35868044
11, Karachi Chamber of Commerce & Industry	Suite # 3, 4th Floor Dean Arcade, Block - 8, Clifton,
Aiwan-e-Tajarat Road, Karachi.	Karachi-75600, Pakistan
	www.adaptive-tec.com
South Asia Geophysical Services (SAGeo)	Solar System Karachi.
Oil & Gas	Solar Energy
Private Company	Private Company
Chen Zhicun (General Manager)	Saqib Murtaza
mail@bgpsouthasia.com/chenzhicun@bgpsouthas	sales@solarsystemspk.com
ia.com 0092-51)2293494-95 /300-8562986,	0092-21-35830127 0092-21-35373020
0092-51)2293494-937300-8382988,	G23 A/1 Park Lane Clifton Block 5, Karachi,
House No.2, St No.58, F-10/3, Islamabad	Pakistan 75600
11003e 110.2, 3t 110.30, 1 -10/3, Islamabad	www.solarsystemspk.com
SRE Solutions	SS ENGERGY
Solar Energy	Energy
Private Company	Private Company
Mr. Saadat Hayat Khan (CEO)	ss.energypk@gmail.com, info@ssenergy.com.pk
Info@solarmagicbox.com	0092-323-5252-814, 0092-323-5252-814
0092-21 32046383 /35388736	0092-42-3722-7572
Shop no 3 Street 11 commercial Area DHA Phase 7	82-Nishter (Branderth Road) Lahore-54000
www.solarmagicbox.com	(Pakistan)
9	www.ssenergy.com.pk
Stone Marks	Sun Gas (Pvt.) Limited.
Marble	LPG MARKETING COMPANIES
Private Company	Private Company
Mr. Shahnawaz, Director	Mr. Junaid Khan Chief Exclusive
khan_and_brothers@yahoo.com	0092-51-111-666-999,2654242-4
0092-051-2113646 /0344-3151468	0092-51 -111-444-999, 2654245
Suit No.11, Millat Plaza F-10, Markaz, Islamabad.	279, St. 21, E-7, Islamabad.
Super Star Gas Company Pvt.) Limited.	SYNDICATE Mineral Export Company
LPG MARKETING COMPANIES	Mineral
Private Company	Private Company
Cap. (R) Basharat Ahmed TI (M) Chief Exclusive	Mr.Nazim Hashwani CEO
0092-51-2291003, 2292860	harec@hashgroup.com
0092-51 -2113039	0092-21) 2412946-49/ (+92-21) 32424776, 32413367
18-A / 18-B, Super Star Plaza G -10 Markaz,	0092-21) 2416725 & 2411874/ (+92-21) 32416725
Islamabad	108-Cotton Exchange Building ,I.I chunrigar Road
	Karachi.
	www.hashgroup.com





Synergy Resources (Pvt.) Limited	Target Engineering Enterprise
LPG MARKETING COMPANIES	GAS
Private Company	Private Company
Ahsan Latif Chief Exclusive	iqbalyasir7@gmail.com
0092-42-5380236/8	0092-300-4246129
0092-42 -5380237	Century Tower Kalma Chowk Lahore
17-C/2, Gulberg 3, M.M. Alam Road, Lahore	
Techno Petroleum (Pvt.) Ltd	Terra Energy (Pvt.) Limited.
Oil & Gas	LPG MARKETING COMPANIES
Private Company	Private Company
Abid Ali (Chief Executive Officer)	Farasat Ali Chatta Chief Exclusive
techno@isb.comsats.net.pk /	info@terraenergy.com.pk
CEO@tech_engg.com.pk	0092-42-6280024
0092-51)2873779,2275514/2275514/0, 300-8555524	0092-42 -6280023 Suite 426, 4th Executive Floor, Sadiq Plaza, 69 The
0092-51)2201661 House 30,Street 19, F-6/2, Islamabad.	Mall, Lahore
www.tech_engg.com/	www.terraenergy.com.pk
Tez Gas (Pvt.) Limited.	The Attock Oil Company Limited
LPG MARKETING COMPANIES	Oil & Gas
Private Company	Private Company
Faroog Iftikhar Chief Exclusive	Shuaib A.Malik (Chief Executive)
0092-42-5847791-92, 5856809.	0092-51)2270542, 92(51)2270546, 92(51)2270544
0092-42 -5847793	0092-51)2270541
116-C, Model Town, Lahore	House # 6 Faisal Avenue F-7/1,Islamabad
The Hydrocarbon Development Institute	The Petroleum Institute of Pakistan
Education	Education
Academic Institutions	Academic Institutions
Dr. Asim Hussain Chairman	Mr. S. Nazeer Iqbal Secretary
hdip@apollo.net.pk	info@pip.org.pk
0092-51) 925-8301, 925-8302.	0092-21)35378701-2
0092-51) 925-8310.	0092-21)35378704
Plot# 18, Street# 6, H-9/1, Islamabad.	1st floor, Federation House,Block V, Kehkashan,
www.hdip.com.pk	Clifton,Karachi - Postal code 75600
	www.pip.org.pk
The Terminators	Total-Parco Pakistan Limited
Solar Energy	Oil Marketing Companies
Private Company	Private Company
0092-21-35476316	Mr. Marc Soissong, Chief Executive Officer
104, Yasir Chambers, Opp. PIA Planetarium 13-A, University Road, Gulishan-e-Iqbal Karachi.	0092-42-5843535-6
Oniversity Road, Gunshan-e-iqual Rafacin.	11/1, Block-B, Model Town Lahore
TRDP TIED	United Energy Pakistan (UEP)
Solar Energy	Electricity
Private Company	Private Company
0092-21-35868791	Tariq Khamisani (President)
0092-21-35867300	queries@uep.com.pk/
Coordination Office F-178/3, Block-5, Kehkashan,	0092-21-3561-1194
Clifton Karachi, Sindh, Pakistan	0092-21-3561-634
	4th Floor, Bahria Complex 1 24 M. T. Khan Road
	Karachi - Pakistan.
	www.uep.com.pk
Wak Limited.	Wakgroup
LPG MARKETING COMPANIES	Multiple
Private Company	Private Company
Ammar Ahmed Khan Chief Exclusive	info@wakgroup.com
info@wakgroup.com	0092- 42 111–66-3333/92 42 5870230–6
0092-42-5870230-36	0092- 42 5877442, 92 42 5877596
0092-42 -5877442,042-5877593, 5877596	135 Block E-1, Stadium Road, Gulberg III,
135-E I, Gulberg-III, Lahore.	LahorePunjab, Pakistan
www.wakgroup.com	www.wakgroup.com/group-of-companies/
Wellbeingreen	Wyne Gas (Pvt.) Limited.
Solar Energy	LPG MARKETING COMPANIES
Private Company	Private Company
info@wellbeinggreen.com.pk	Mrs. Ryda Nabeel Nawaz Chief Exclusive
0092-0800 - 92477	0092-51-7101999, 2878481
172/P, Third Floor PECHS Block – 2 Tariq Road,	0092-51 -2250835, 2878 482 State Life Building # 5, Phase-II, Ground Floor,
Karachi	





www.wellbeinggreen.com.pk	Jinnah Avenue,Islamabad – 44000
Yasin Akram Associates (Pvt.) Limited LPG MARKETING COMPANIES Private Company Muhammad Yasin Chaudary Chief Exclusive 0092-51-2277117, 2277473,2277607 0092-51-2277931 M ezzanine, 5-6 Block 106 E, Asif Plaza, F. Haq Road, Blue Area, Islamabad.	Zaver Petroleum Corporation Limited Oil & Gas Private Company Sadruddin Hashwani (Chairman & CEO) Zaver@zpcl.com 0092-51)2832070/92(51)2274800 0092-51)2823230 Sitara Palaza ,Block No 3, Diplormatic Enclace NO 1G-5, Islamabad. www.zpcl.com
Zehri Onyx & Mineral Marble & Granite, Mosacs, Iron Ore Private Company Syed M.Akhtar Ali abrafnc@gmail.com 0092-021-4391748-49 /0323-2257389 0092-21-4559237 401-4th floor Shawer Trade Centre Alma Iqbal Road ,P.E.C.H.S Block-2 Karachi	

ORGANIZATION WORKING IN ENERGY SECTOR	
Asian Development Bank ADB Donors 0092-51-2600351-69, 0092-51-2087300 adbprrm@adb.org 0092-51-2600365-66, 0092-51-2087397-98 Level 8, North Wing, Serena Business Complex, Khayaban-e-Suhrawardy, Sector G-5 ISLAMABAD	Association for the Development of Pakistan ADP International NGO volunteer@developpakistan.org Association for the Development of Pakistan, PO Box 2492, San Francisco, CA 94126 USA
Behar Al Sindh Foundation BASF Local NGO 0092-22-2653439 0092-333-2603471 info@basf.org.pk B-133 Phase One, Block 2 Main Post Office Road Qasimabad, Hyderabad	Connect (Woman and Child Organization) CONNECT Women Organizations 0092-333-3375383 connectwithus@hotmail.com 102, Quality Heights, Teen talwar, Clifton, KARACHI
Consumer Rights Commission of Pakistan CRCP Local NGO 0092-51-111-739-739 0092-51-2823315 sg@crcp.org.pk main@crcp.org.pk 0092-51-2825336 House No. 13, Street No.1, Sector: G-6/3, ISLAMABAD	Development Alternatives Inc DAI Local NGO 0092-51-2652891-4 uzair_adil@dai.com 0092-51-2652890 House No. 4-A Street No. 42, Sector F-7/1 ISLAMABAD
Development Concerns DC Local NGO 0092-333-9964742 0092-300-5791330 d.concerns@gmail.com nthaheem@gmail.com Malik Inayat Ullah House, Khayaban-e-Iqbal Town, Near Alizai Daal Mill, Multan Road, LAHORE	FIDA FIDA Local NGO 0092-51-2305154-56 info@fidapk.org 0092-51-8356996 Islamabad, Pakistan





Heinrich-Böll-Foundation Pakistan	Human Appeal International
HBF	HAI
International NGO	International NGO
0092-42-36668 640	0092-51-2261190-91
0092-42-36666 322 , 0092-42-36680 039	riyaz@humanappeal.org.pk
sa@hbasia.org	0092-51-2261192
britta.petersen@pk.boell.org ,	House No. 116, Street No. 34, Sector G-9/1
saima.jasam@pk.boell.org	ISLAMABAD
0092-42-36664 899	
Pakistan Country Office. 76-B, Nisar Road, Lahore	
Cantt-54800	
Kreditanstalt fur Wiederaufbau	Norwegian Agency for Development Cooperation
KFW	NORAD
Donors	Donors
0092-51-2656377-9	0092-51-2077700
kfw.islamabad@kfw.de	0092-51-2279720-3
0092-51-2656380	emb.islamabad@imfo.na
House No. 23, Street No. 55, Sector F-7/4	0092-51-2279726, 0092-51-2279729
ISLAMABAD	House No. 25, Street No. 19, Sector F-6/2, P.O. Box
	1336, ISLAMABAD
Pak-Consultants International	Pakistan Rural Initiatives for Emergency
PCI	Preparedness, Response and Development
Local NGO	PREPARED
0092-51-4864916	Local NGO
0092-346-5391712	0092-91-5843644
drghayur@yahoo.com	0092-301-5602469
adnan_qureshi888@yahoo.com	Info@prepared.com.pk
0092-51-4864916	gkhan@prepared.com.pk
House No.718, Street No.82, Sector: I-8/4	House No.41, Gulshan Iqbal Town, Arbab Road
ISLAMABAD	PESHAWAR
Renewable Energy Society for Education,	Sangtani Women Rural Development Organization
Awareness, Research & Community Help	SWRDO
RESEARCH	Local NGO
International NGO	0092-604-688997
0092-51-4446651-2	0092-333-8827744
0092-333-5558941	sangtani.wrdo@gmail.com
write@research.org.pk	0092-604-688997
0092-51-4866011	Bodla Colony, Street No 3, RAJANPUR
House No. 24 C-1, Sultan Colony, Street No. 94,	
Sector I-8/4, ISLAMABAD	Conjety for Human Interest and Neglected Conjects
Sharik Jound Foundation SJF	Society for Human Interest and Neglected Environs SHINE
Local NGO	Local NGO
	0002 020 744620
0092-333-9220836	0092-838-711520
0092-347-9522998	0092-300-3706590
0092-347-9522998 fazalnrsp@yahoo.com	0092-300-3706590 shinebalochistan@yahoo.com
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520 Near Astana Syed Mahboob Shah, Ward No.06,(
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520 Near Astana Syed Mahboob Shah, Ward No.06,(Railway Phatak)
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520 Near Astana Syed Mahboob Shah, Ward No.06,(Railway Phatak) NASEERABAD
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520 Near Astana Syed Mahboob Shah, Ward No.06,(Railway Phatak) NASEERABAD Strugglien's Pakistan Social Welfare Organization
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520 Near Astana Syed Mahboob Shah, Ward No.06,(Railway Phatak) NASEERABAD Strugglien's Pakistan Social Welfare Organization SPSO
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP Local NGO	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520 Near Astana Syed Mahboob Shah, Ward No.06,(Railway Phatak) NASEERABAD Strugglien's Pakistan Social Welfare Organization SPSO Local NGO
0092-347-9522998 fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP Local NGO 0092-454-610690	0092-300-3706590 shinebalochistan@yahoo.com 0092-838-711520 Near Astana Syed Mahboob Shah, Ward No.06,(Railway Phatak) NASEERABAD Strugglien's Pakistan Social Welfare Organization SPSO Local NGO 0092-715-633478
fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP Local NGO 0092-454-610690 0092-301-8603202	one of the state o
fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP Local NGO 0092-454-610690 0092-301-8603202 svdp_soonvalley@hotmail.com	one of the state o
fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP Local NGO 0092-454-610690 0092-301-8603202 svdp_soonvalley@hotmail.com gulafaqi@gmail.com	one of the state o
fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP Local NGO 0092-454-610690 0092-301-8603202 svdp_soonvalley@hotmail.com gulafaqi@gmail.com 0092-454-610690	one of the state o
fazalnrsp@yahoo.com farooqumer81@gmail.com SJF head office, Village & P.O. fatma MARDAN Soon Valley Development Program SVDP Local NGO 0092-454-610690 0092-301-8603202 svdp_soonvalley@hotmail.com gulafaqi@gmail.com	one of the state o



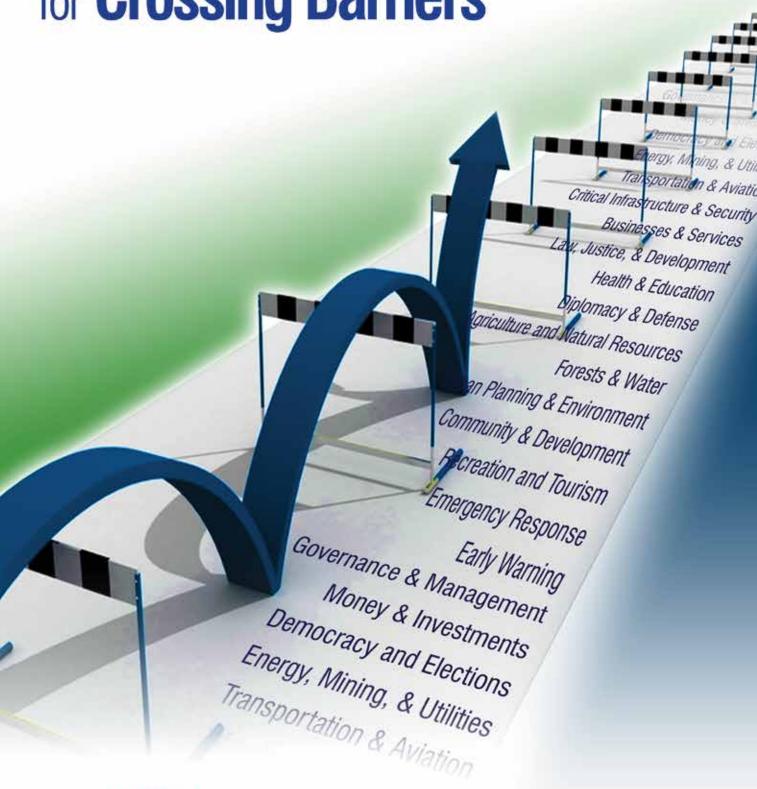


Sustainable Development Society SDS Local NGO 0092-996-850744 0092-996-414243 sds@sds.org.pk 0092-996-850618 Bahind Distric Court, Near District Forest Office, Alpurai, SHANGLA	Swat Participatory Council SPC Local NGO 0092-946-721296 0092-345-9510067 roshanswat@gmail.com spcswat@gmail.com Naeem House, Near Girls College, SWAT
United Nations Industrial Development Organization UNIDO United Nations 0092-51-8354803 office.pakistan@unido.org 0092-51-2600123 7th Floor, Serena Business Complex, ISLAMABAD	Sustainable Development Policy Institute SDPI Local NGO 0092-51-2278134, 0092-51-2278136 main@sdpi.org ed@sdpi.org House No. 38 Embassy Road, G - 6/3,ISLAMABAD
USAID Pakistan USAID Donors 0092-51-2080000 infopakistan@usaid.gov.pk 0092-51-2276427 USAID Pakistan, American Embassy, Ramna 5, Diplomatic Enclave ISLAMABAD	

Institutes	
Dawood College of Engineering and Technology	Quaid-e-Awam University of Engineering, Science
DCET	& Technology, Nawabshah
Academic Institutions	QUEST
0092 21 99231195	Academic Institutions
0092 21 99231196	0092-244-9370381-5
0092 21 99230710	registrar@quest.edu.pk
M.A Jinnah Road	0092-244-9370367, 9370357
KARACHI	Quaid-e-Awam University of Engineering, Science
	& Technology, Nawabshah.



Information & Communication Technology for Crossing Barriers





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