

# ENERGY BULLETIN



BE INFORMED



Solutions in Time  
www.alhasan.com

July 25st, 2013 - Volume:1, Number 4

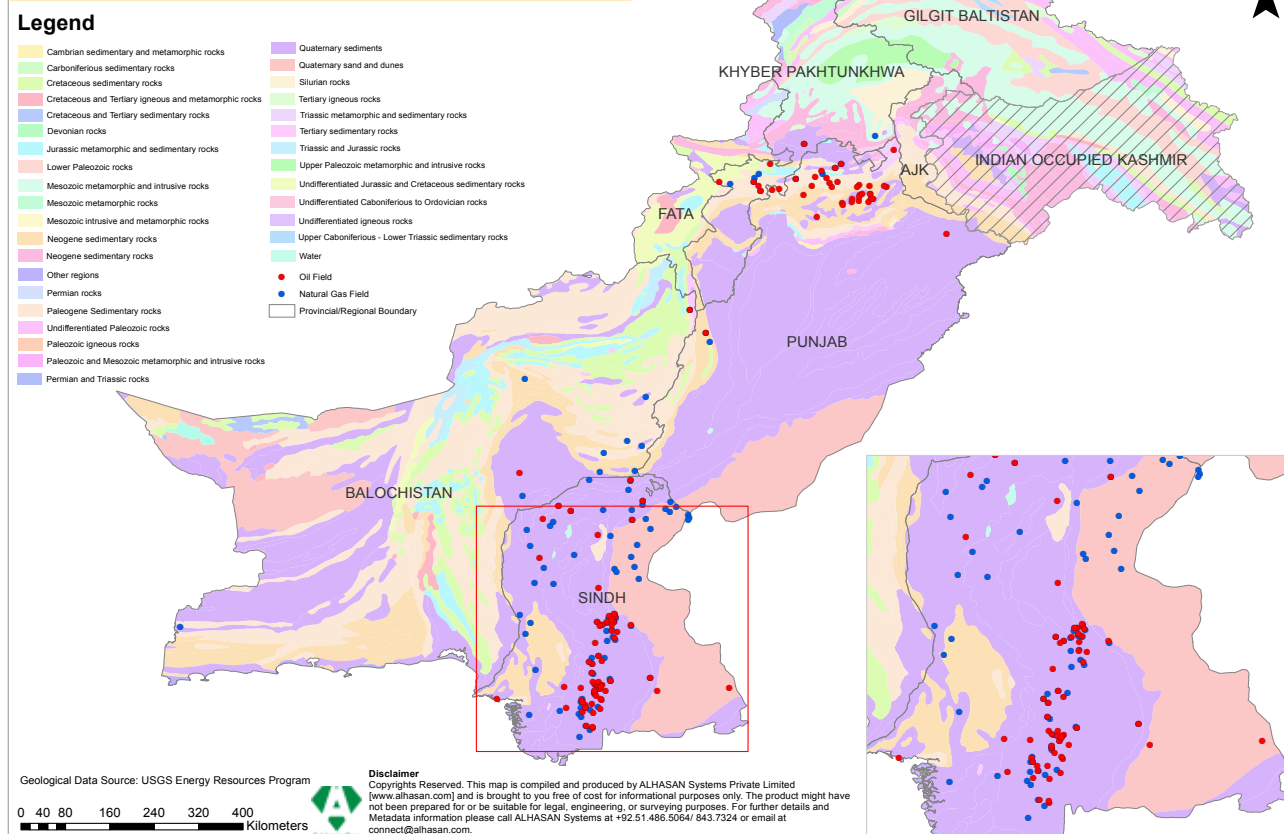
## IN THIS BULLETIN

<b>Energy News</b>	3-9	US offers Pakistan help in biogas, wind energy sector
<b>International Energy News</b>	10	Alternate Energy tech Can Resolve Energy Crisis
<b>Energy &amp; Power Regulatory Frameworks News</b>	12	Academia breaking through energy crisis
<b>Solar energy is the energy of the future</b>	14	Pakistan, US to enhance cooperation in energy sector
<b>The shifting energy roadmap</b>	15	Pakistan opens 1st private hydropower plant amid energy crisis
<b>Energy Maps</b>	14-20	PM's China visit: Bright hopes to end Pakistan's energy crisis
<b>Energy Directory</b>	21-32	Resolving the energy crisis
<b>Urdu Version</b>	33-41	Pakistan seeks cooperation with India in renewable energy, power
		Sindh costal belt contains too much potential of wind energy
		Producing electricity through coal to save billions of rupees: PM
		Renewable energy: KESC, Aman Foundation to set up bio-gas plant
		Vehicles with CNG kits disallowed during VVIP visits
		Innovative thinkers: Students use solar energy to light village
		Energy crisis: Confusion, mismanagement abound at Guddu Power Plant

## MAPS

- GEOLOGY OF PAKISTAN IN RELATION TO OIL AND GAS FIELDS
- NATURAL GAS FIELDS SINDH (AS OF JUNE 2012)
- HYDEL POWER PROJECT STATUS ( PUNJAB PAKISTAN )
- BIOFUEL PRODUCTION-ASIA

### Geology Of Pakistan in Relation to Oil and Gas fields



© Copyright 2013

**ALHASAN Systems Private Limited**

4-Green, Sahibzada Abdul Qayyum Road, I-8/2,  
Islamabad, 44000 Pakistan

For information:

Landline: +92.51.486.5064

Email: [connect@alhasan.com](mailto:connect@alhasan.com)

Facebook: <http://www.facebook.com/alhasan.com>

Twitter: [@alhasansystems](https://twitter.com/alhasansystems)

Website: [www.alhasan.com](http://www.alhasan.com)

ALHASAN Systems Private Limited is registered with the Security & Exchange Commission of Pakistan under section 32 of the Companies Ordinance 1984 (XL VII of 1984). ALHASAN is issuing this Energy Bulletin free of cost for general public benefit and informational purposes only. Should you have any feedback or require further details and Metadata information please contact at +92.51.486.5064/ 843.7324 or email at [connect@alhasan.com](mailto:connect@alhasan.com).

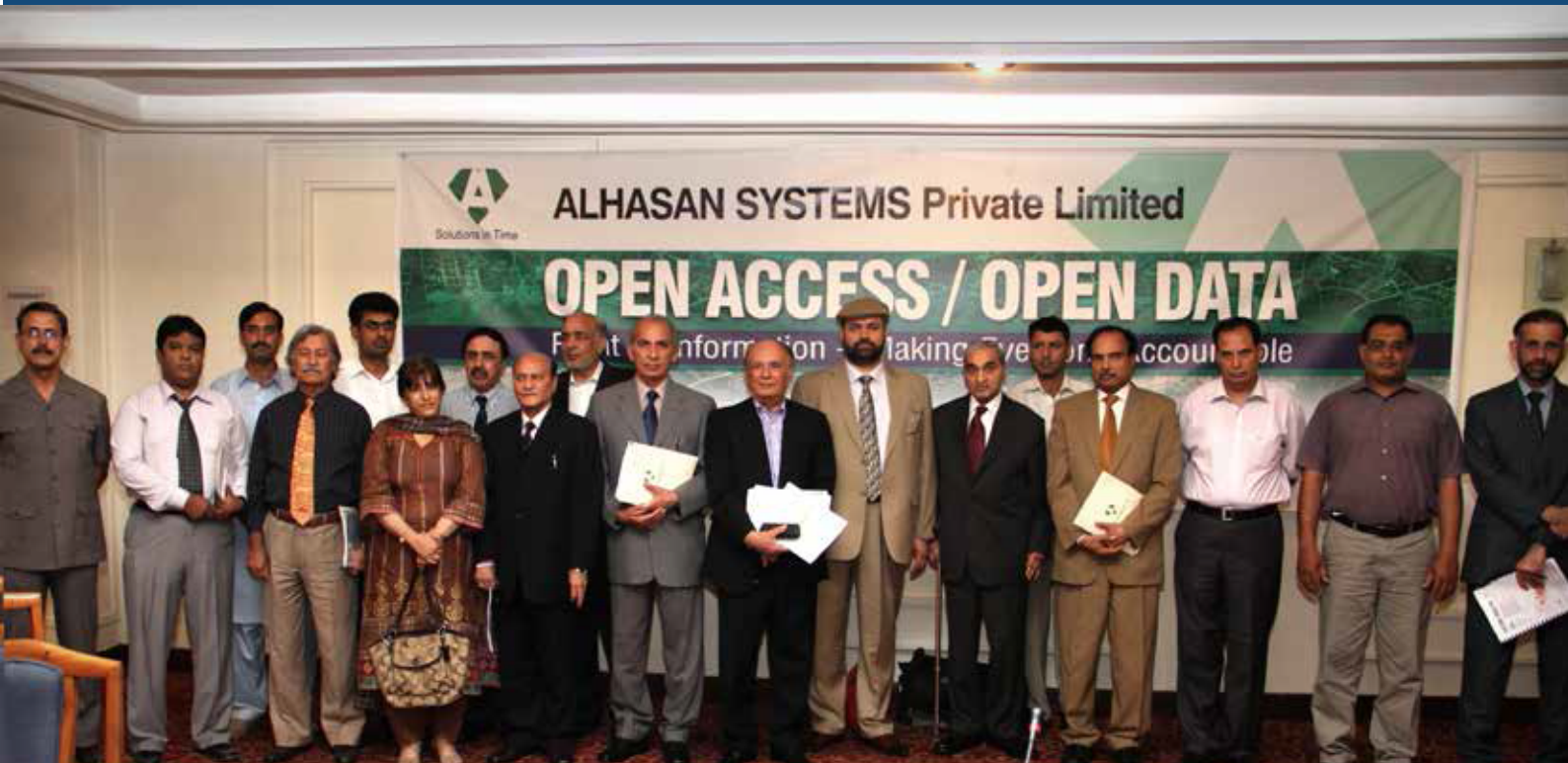
**LEGAL NOTICES**

The information in this publication, including text, images, and links, are provided "AS IS" by ALHASAN solely as a convenience to its clients and general public without any warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. ALHASAN assumes no responsibility for errors or omissions in this publication or other documents which are referenced by or linked to this publication. This publication could include technical or other inaccuracies, and not all information/ services referenced herein are available in all areas. Changes are periodically added to the publication, and ALHASAN may change the information or services described in this publication at any time.

Should you choose to respond directly to ALHASAN with comments, questions, suggestions, ideas or the like relating to this publication and ALHASAN other services and products, you agree that such information shall be deemed as non-confidential and ALHASAN shall have no obligation to respond and be free to reproduce, use, disclose and distribute the information to others without limitation, including but not limited to developing, manufacturing, and marketing products incorporating such information. For further explanation of these legal notices please contact [legal@alhasan.com](mailto:legal@alhasan.com).

# OPEN ACCESS / OPEN DATA

Right to Information – Making Everyone Accountable



Barrister Masood Kausar – Former Governor Khyber Pakhtunkhwa, Dr. Qassim Jan - Former VC Quaid-i-Azam University, Mehdi Bokhari – CEO ALHASAN, Justice [R] Mohammad Nawaz Abbasi, Kanwar Dilshad - Former Federal Secretary ECP, Syed Abbas Bukhari – Senior Legal Advisor, Vice Admiral [R] Ahmad Tasnim, Mr. Abu Zur - Advocate Supreme Court of Pakistan, Dr. Mubeena Talaat - Chairperson Linguistic Department QAU, Malik Qaiser Majeed Joint Secretary Ministry of Science & Technology, Col. [R] Aftab Awan – Senior Security Advisor, Col. [R] Ejaz Ahmad - IFES Representative, Saeed Ahmad Ch – Media Coordinator ALHASAN, Former QESCO Chief Executive Brigadier Tassaduq Hussain Shah, Wahaj Siraj Chief Executive Nayatel/ Micronet Broadband.

Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has.

Margaret Mead  
US Anthropologist

Let's Join Hands [connect@alhasan.com](mailto:connect@alhasan.com)



## News Headlines Details

### US offers Pakistan help in biogas, wind energy sector

*The News, Wednesday, July 17, 2013*

**ISLAMABAD:** The United States on Tuesday offered Pakistan assistance in generating electricity through biogas and wind to overcome the power crisis. Pakistan needs investment, particularly in the most-needed energy sector, Finance Minister Senator Mohammad Ishaq Dar said while addressing a joint press conference along with President Overseas Private Investment Corporation (OPIC), Ms Elizabeth L. Littlefield, who was heading the US delegation in talks with Pakistan, said a PID press release. Earlier, the US delegation held detailed discussions with the country's economic and energy managers led by Ishaq Dar and discussed various issues related to investment in various sectors of the economy, particularly in the energy sector. Both the countries agreed to enhance cooperation in the energy sector. Dar told media persons that talks with OPIC were a part of the government's efforts to bring foreign investment to the country and help enhance economic growth. In reply to a question posed by a reporter whether civil nuclear cooperation was discussed during the meeting, Ishaq Dar said: "We did not discuss any thorny issue during our meetings". Dar was of the view that investment cooperation between Pakistan and the US could further boost relations between both the countries in future. The finance minister said that Independent Power Producers (IPPs) have the ability to generate more electricity and the government has paid the circular debt to enhance generation capacity.

### Alternate Energy tech Can Resolve Energy Crisis

*Business Recorder, Wednesday, July 17, 2013*

**ISLAMABAD:** President, Pakistan China Joint Chamber of Commerce and Industry (PCJCCI) Shah Faisal Afridi has said that acquisition of renewable energy and alternate energy technology such as solar, wind power, run of river, coal power plants from China could help Pakistan get rid of ongoing energy crisis. Afridi was speaking to a delegation of China Energy Engineering Group (CEEC) here on Tuesday. He also gave an overview on energy sector to the delegation and said that Pakistan's total demand for electricity varies from 15,000MW to 17,000MW in Pakistan while total short fall stays from 5,000MW to 6,000MW. Zhu Zhengjun, Director, China Energy Engineering Group Company Limited while briefing about his company said that CEEC with registered capital of RMB 26 billion keeps 90 percent share in the electric survey and design. The number of company's employees has been reached to 160,000. He further said that CEEC has successfully installed 2X600MW Supercritical Coal-fired unit in Turkey. "We have super comprehensive strength in the field of hydro power, thermal, power, nuclear power, wind power, biomass power, gas turbines and circulating fluidised beds" he added. Neelum Jhelum project in Pakistan is the largest overseas Hydro Power project undertaken by CEEC. He specially elaborated CEEC equipment production and maintenance service to cover hydro power, thermal power, nuclear power, wind power, metallurgy, building materials, chemical and transportation sector, he said. Liying, Vice Director, Du Huibing, Project Manager and Han Junqing, Chief Engineer during the group discussion they briefed the participants about possibility of installation of 600MW power plant in the coastal area of Balochistan. This landmark project will play a vital role in balancing the existing fuel mix which is inclined towards. This project will also pave way for future foreign investors in coal power sector of Pakistan.

### Academia breaking through energy crisis

*Pakistan Today, July, 15, 2013*

**ISLAMABAD:** Higher Education Commission (HEC) has established collaboration with leading American and British universities to undertake joint research projects for effective use of natural and renewable resources to resolve energy crisis. The prevailing energy crisis faced by the country was playing havoc with lives of common citizens and choking industrial development and the economy of the country. Experts are of the view that as a result of energy crisis, the once sustained GDP growth rate of around 6 percent is now at below 2 percent. HEC has decided to join hands with Ministry of Planning and Development to work on ways to lessen the energy crisis and would also organise a research conference with the support of the ministry. HEC under assistance of USAID is currently establishing Centers of Advanced Study and Research on Energy at both National University of Science and Technology (NUST) and the University of Engineering and Technology (UET) Peshawar.

A number of energy specific projects have been undertaken by the universities in collaboration with American universities under the Pakistan - US Science and Technology Cooperation Programme. These projects include Total Solution Based Organic-Inorganic Solar Cells for Enhanced Efficiency and Stability between the University of Delaware and Government College University Lahore, Life Style Improvement of Villages in FATA Using Renewable Energy between the SEI USA and NUST and The Use of Renewable Energy to benefit Gilgit Baltistan region between North Dakota University and COMSATS Institute of Information Technology. Similarly, a number of projects have been undertaken with the British universities under the International Strategic Partnerships in Research and Education (INSPIRE) including Developing Water Turbines for Electric Power Generation between the University of



## Pakistan, US to enhance cooperation in energy sector

Dawn, July 16, 2013

Southampton and NUST, Increasing the Efficiency of Wind Energy Systems between Cambridge University and Air University Islamabad, Building Indigenous Capabilities for Thar Coal Development between the University of Nottingham and Mehran University of Engineering and Technology and Co-Combustion of Pakistani Coal and Biomass in Pilot Scale Combustors between the University of Leeds and Pakistani Institute of Engineering and Applied Sciences, Mehran University, University of Punjab and International Islamic University, Islamabad. Through the joint project between the University of Cambridge and Air University, a micro-machined sensor, the first of its kind, is being developed which would enable wind turbines to function more effectively under local wind terrains and would also allow direct measurement of the performance of both gas and wind turbines. Pakistani universities including Agriculture University of Faisalabad and University of Gujrat have done successful experiments on production of bio gas and green energy while the Islamia University of Bahawalpur will be adopting solar as the sole source of energy soon. The Agriculture University of Faisalabad is closely working with the Punjab government for formulation of energy policy and also implementing capacity building on use of alternative energy.

The university is also going to introduce degree program on energy from this academic year. Commenting on the programs, HEC Chairperson Dr Javaid Laghari said that the goal of HEC is to develop local expertise and indigenous technology for effective use of natural and renewable sources including coal, water, wind and solar through strong collaborations with research groups in leading foreign universities. He observed that these projects have vast potential for commercialisation. "National and international power companies and the Government of Pakistan itself would be the main users of this technology," he added. He underlined the need to develop more indigenous scientific manpower, research facilities and education infrastructure in Pakistan and tackle energy issues through collaborative research. Dr Laghari also assured that HEC would continue to work closely with the government to share the expertise of higher education sector in order to resolve various socio-economic challenges being confronted by the country.

**ISLAMABAD:** Pakistan and United States on Tuesday agreed to enhance cooperation in energy sector with special focus on development of bio-gas and wind energy to help Pakistan overcome power crisis. Pakistan needs investment, particularly in the most needed energy sector, said Finance Minister Ishaq Dar while addressing a joint press conference along with President Overseas Private Investment Corporation (OPIC), Elizabeth L. Littlefield, who was heading the US delegation in talks with Pakistan. Earlier, US delegation held detailed discussions with Pakistan's economic and energy managers led by the finance minister and discussed various issues related to investment in various sectors of economy, particularly in energy sector. Dar told media representatives that talks with the Opic were the part of government's efforts to bring foreign investment into the country and help enhance economic growth. He said that both the countries agreed in principle to continue dialogue on Civil Nuclear Technology cooperation. However, he added that no timeline could be given for any future agreement on the issue.

The finance minister said that Independent Power Producers (IPPs) have capability to generate more electricity and the government has paid circular debt to enhance generation capacity. He said both the sides also agreed to continue dialogue on the pending issues of Bilateral Investment Treaty (BIT) to tap the investment potential. Terming the terrorism as one of the challenges the country was facing, Ishaq Dar said the government was committed to come up with a comprehensive strategy by taking onboard all political parties to overcome this menace. He said that ensuring transparency and good governance were among the top priorities of the government.

Earlier, the minister informed the US delegation about the successful passage of federal budget 2013-14. He said the government, this year, has enhanced the allocations for Public Sector Development Programme to Rs1.155 trillion besides enhancing the allocations of Income Support Programme from Rs40 billion to Rs70 billion. Dar urged the Opic to bring into investment of private companies in Pakistan's energy sector. He assured the US delegation that Pakistan was a safe as well as lucrative country for investment and provides a conducive atmosphere for foreign investors. Addressing the press conference, Elizabeth Littlefield said the investment through Opic into Pakistan has increased from \$80 million to \$300 million, witnessing manifold increase during past couple of years.

She said that Pakistan was facing some challenges. She, however, expressed the optimism that the new government would overcome all these challenges and lead the country towards better future. Littlefield said her country will enhance cooperation with Pakistan in power generation through wind and bio-gas, besides enhancing technical cooperation to increase

### **Pakistan opens 1st private hydropower plant amid energy crisis**

*China Economic Net, July 16, 2013*

power generation through alternative ways. She said that the US companies have already been involved in development of energy sector of Pakistan as a 50 megawatt electricity project by an American firm was continuing in Sindh province. Earlier, while briefing the finance minister and his delegation about the operations of the Opic, she said the corporation mobilises private capital to help solve critical development challenges. The Opic works with the US private sector and helps businesses gain footholds in emerging markets, catalysing revenues, jobs and growth opportunities both at home and abroad. The corporation achieves its mission by providing investors with financing, guarantees, political risk insurance, and support for private equity investment funds, she added.

**CHINA:** Pakistan opened its first private hydroelectric power plant on Monday, moving to tackle a deepening energy crisis that has devastated its already struggling economy. Built near an existing river dam and developed by a local private company, the 84 megawatt New Bong Escape Hydropower Project is expected to produce electricity at a much lower cost than thermal generated power. It is also part of a broader plan to overhaul the moribund power sector by handing over parts of it to private hands. The new government of Prime Minister Nawaz Sharif won an election in May partly on promises to fix persistent power cuts lasting some 12 hours in parts of Pakistan, a nation of 180 million people. On Monday, Sharif travelled to the northern province of Azad Jammu and Kashmir to oversee the launch of a new project he says will offer a significant boost to the ailing power sector. Power cuts have worsened in Pakistan in recent years, becoming one of the main sources of public discontent in the South Asian country which generates about 8,000 MW of power - way below its total demand estimated at around 15,000MW.

### **PM's China visit: Bright hopes to end Pakistan's energy crisis**

*Bussines Recorder, July, 11, 2013*

**ISLAMABAD:** Prime Minister Muhammad Nawaz Sharif culminated his five-day visit to China wherefrom he brought along numerous hopes for recuperation of Pakistan's energy ills and uplift of under-developed infrastructure. The focus of the Prime Minister's visit was to lure Chinese investors and persuade Chinese government to lend a helping hand for Pakistan's deliverance from pestering issues of power crisis and bring an impetus to national economy through developing modernistic communications network. The Prime Minister honored his words of making his tour a "working visit" and opted to personally visit development projects for first hand knowledge. Prime Minister Nawaz Sharif visited China on the invitation of Chinese Premier Li Keqiang who had visited Pakistan in May last. The selection of China by the Prime Minister for his first foreign visit also substantiates the deep ties between both the countries. After landing at Beijing International Airport on July 3 along with his entourage, the Prime Minister was accorded red carpet treatment that followed plenty of his meetings with the Chinese Premier, President Xi Jinping, heads of financial institutions and energy sector and engineering companies.

Prime Minister Nawaz Sharif met Chairman China's Export-Import Bank Li Ruogu, Chairman China Development Bank Hu Huaibang and President and Vice-Chairman China Investment Corporation Gao Xiqing and invited them to invest in Pakistan's energy and infrastructure sector. He informed that a special fund will be created for the Pak-China Economic corridor and assured that a separate fund will also be setup for infrastructure development projects. Prime Minister Nawaz Sharif also met his counterpart Li Keqiang. Later, a joint statement was issued in which both the sides resolved to promote the policies aimed at advancing the cause of peace, co-operation and harmony creating a win-win situation in the region. "Pakistan will continue to adhere to its one-China policy, oppose Taiwan and Tibet's independence and support China's efforts in combating the "Three Evils" of extremism, terrorism and separatism. We regard ETIM as our common threat and stand united in combating this menace," Pakistani Prime Minister resolved.

They agreed to focus on the following areas of cooperation in the near future under the framework of the Long-Term Plan for China-Pakistan Economic Corridor: start the China-Pakistan Cross-border Fiber Optic Cable project at an appropriate time, upgrade and realign the Karakoram Highway on fast-track basis, explore cooperation on solar energy and biomass energy, explore construction of industrial parks along the Pakistan-China Economic Corridor, launch at an early date inter-governmental consultations to implement the Digital Television Terrestrial Multimedia Broadcasting (DTMB) in Pakistan, coordinate the commercial operation of TD-LTE in Pakistan, and enhance cooperation in the wireless broadband area. Both sides decided to celebrate 2015 as China-Pakistan Year of Friendly Exchanges in a befitting manner. The two sides believed that the evolving situation in Afghanistan has great implications for the regional security and stability, reaffirming support for the "Afghan-owned and Afghan-led" peace and reconciliation process.

In their meeting, both Prime Minister Muhammad Nawaz Sharif and Chinese President Xi Jinping pledged to carry forward their all weather friendship to new heights. Deliberating the numerous challenges faced by Pakistan, Prime Minister reiterated his resolve to surmount all these challenges. The Chinese President said Pakistan was a great country and hoped the visit would prove to be fruitful as a lot of homework had been done by both the countries. Prime Minister Nawaz Sharif took a ride on Beijing subway and got briefing about its system. He reiterated his commitment to provide low cost and comfortable transport facility to the masses. He also travelled on Beijing-Shanghai High Speed Train whereon he met heads of engineering companies and discussed his government's plan to generate power through coal and other alternate resources.

Nawaz Sharif invited companies' heads to visit Pakistan along with the project proposals of their interest for the onward discussion on those projects. The Prime Minister Nawaz Sharif also addressed Pakistan-China Energy Forum in Shanghai and said Pakistan's present government was business and investment-friendly and resolved to eliminate all the bottlenecks in the investment. He said energy policy and energy security had been the part of his party's manifesto and assured to provide uninterrupted power supply to industries for giving a spur to the business activities. He also mentioned a 969MW Neelum Jhelum Hydropower Project, three power projects Karot, Kohala and Taunsa to add 2,000MW being executed by Chinese companies. Nawaz Sharif said his government looked forward to Chinese investment in renewable energy sector particularly wind and solar with the country having accumulated potential of 60,000MW.

He said Pakistan was also rich of coal reservoirs of 185 billion tons having capacity to generate 100,000MW for 300 years. During meeting with President of China Southern Power Grid (CSG) Zhao Jiaoguo in Guangzhou, the Prime Minister sought suggestions and assistance in curbing power line losses, theft and pilferage in Pakistan and got affirmative response from the company. The Governor Guangdong province Zhu Xiaodan also met the Prime Minister and hosted banquet. Nawaz Sharif had also an interaction with Secretary ruling Communist Party of China, Han Zheng and expressed pleasure that number of Chinese enterprises had expressed their keen interest in energy and infrastructure development. Talking to media there, Prime Minister Nawaz Sharif said he would set up a 'China Cell' in his office tasked with supervision of all the development projects to be executed with the Chinese cooperation in Pakistan. He said that after signing of Karachi-Lahore Motorway, implementation of the projects would soon take place, benefitting the people living in all parts of the country, besides Azad Kashmir and Gilgit-Baltistan.

On security, the Prime Minister said that a National Security Policy will be formulated with the consultation of chiefs of the security institutions and heads of parliamentary parties, experts and media persons will also be invited. The Prime Minister also met Chairman of the Standing Committee of the National People's Congress Zhang Dejiang and discussed bilateral ties. During the visit, Pakistan and China signed eight documents of cooperation in various areas of economy including 200 kilometers tunnels in Pak-China Economic corridor costing \$18 billion. Both sides also signed agreement on Economic and Technical cooperation, two letters of exchanges on training courses and an MoU for cooperation and exchanges between Pakistan Muslim League (N) and Ruling Communist Party of China. A document was signed between Strategic Communication organization of Pakistan and Huawei company for laying optic fiber for setting up communication link between Pakistan and China. The Punjab Minister of Energy Choudhry Sher Ali Khan signed MoU on Local home solar solution project. The Chief of the ZTE signed the documents on Chinese side. In one instance, Prime Minister also talked of giving special status to Gwadar Port through necessary legislation to ensure speedy execution of the project. On completion of his five-day visit, Prime Minister Nawaz Sharif was seen off by Deputy Provincial Governor, Assistant Foreign Minister and Chinese Ambassador to Pakistan.

## Resolving the energy crisis

*The Express Tribune, June 30, 2013*

When it comes to the energy sector reforms, the Nawaz Administration appears to be making relatively sensible choices. What makes the administration's plan particularly impressive is that it seeks to balance what is politically possible with what is technically and financially necessary. So, for instance, the government is seeking to pay off the energy sector's circular debt in one go in order to significantly reduce power cuts and win the public's confidence before tackling the harder bits of the problem, like raising tariffs and forcing electricity thieves to pay their bills. We also admire the government's commitment to reduce the weighted average cost of producing electricity for the national grid by moving towards cheaper fuel sources. We worry, however, that some of these moves are being made without a more thorough analysis of the future costs.



**Pakistan seeks cooperation with India in renewable energy, power**

*The Economic Times, July 16, 2013*

**Sindh coastal belt contains too much potential of wind energy**

*Business Recorder, July, 17, 2013*

Take, for instance, the government's agreement with the independent power producers (IPPs) to switch their expensive oil-fired power plants to a cheaper fuel source, coal. This apparently seems like a sensible policy. Coal-fired power generation costs approximately Rs10 per kilowatt-hour, even when running on imported coal, compared with the Rs18 a unit or higher that oil-fired power plants cost. A sensible saving that would have the added advantage of reducing the cost of power generation to just under the upper limit set by the prime minister for how high the government is willing to let retail electricity tariffs rise to.

We applaud the effort, but we would encourage the government to take a little more time to study the long-term implications of converting from oil to coal. According to the National Electric Power Regulatory Authority's 2012 state of industry report, oil-fired power plants account for over 8,000 megawatts of installed capacity. Converting all of those to coal is an effort likely to cost several billion dollars. The government of Pakistan has a tendency to make energy policy by simply going for the latest fads. That is how we got into the trouble of having too many oil-fired power plants in the first place. We set them up in the mid to late-1990s, when oil prices were at historic lows in inflation-adjusted terms, and it seemed to make all the sense in the world to build power plants for something that we could fuel either through our own indigenous resources or through imports from friendly regional countries. As we now know, that turned out to be a disastrous idea.

When in the mid-2000s, the prices of oil started going up, we started converting many power plants to natural gas, under the assumption that the country had abundant gas reserves, not realising that much of those had been depleted due to a half-century policy of horribly mispricing the commodity and incentivising its waste. And so, just under a decade later, we are once again talking about changing the fuel source for our power plants. The government would do well to realise that a thermal power plant has an operating life of about 30 years. That means that any plan that only takes into account fuel prices this year, and not how they might fluctuate over, at least, the next decade is likely to come up short-sighted. Pakistan has tried several different iterations of this strategy at least twice now and is looking set to repeat the same mistake a third time. Have we learnt nothing from our mistakes?

We are not opposed to the idea of switching to coal-fired power plants, though there is something to be said for the environmental hazards of doing so. However, we do urge the government to take the trouble to figure out whether or not the mathematics that currently make the option so attractive are likely to hold true for the next few years. Otherwise, we will be back to square one in another decade. Pakistan cannot afford another lost decade. We understand the prime minister's urgency to get things done. But taking just a little more time to get them right is likely to be an investment worth making.

**NEW DELHI:** Seeking to deepen economic and trade ties with India, Pakistan today underlined the scope of cooperation in renewable energy, agriculture and electricity. "Of course, we can learn from each other. In the last few days, we have had two expert-level delegations. One is just here in India who are looking at energy sector in India," Pakistan High Commissioner to India Salman Bashir said.

**ISLAMABAD:** Energy Expert Irfan Mirza has said that the coastal belt of Sindh which has 80 km width and 180 km long, contains too much potential of wind energy. Talking to a private news channel, he said present delegation of Overseas Private Investment Corporation (OPIC) headed by Elizabeth Little visit to Pakistan is good omen and the corporation takes part in debt and equity financing taking into consideration the USA strategic interest, he said. He said that Pakistan has well-defined wind energy corridors which are about 340 thousand megawatt. Mirza said that Pakistan has 2.9 million megawatt of solar energy potential besides photovoltaic opportunity. He said that Pakistan is among a few fortunate countries that have a lot of potential of alternative and renewable energy production. He maintained that Pakistan also has the natural resources of bio-fuel and cogeneration. He expressed hope that government of Nawaz Sharif will capitalize on the renewable energy resources. He opined that Pakistan will be in a position to export energy besides meeting its own needs after utilizing these vast opportunities of alternative energy resources.

### **Producing electricity through coal to save billions of rupees: PM**

*SANA News, July, 12, 2013*

**LAHORE:** Prime Minister Muhammad Nawaz Sharif has said that the government is striving to get rid of the people of load shedding and the issue of load shedding would be resolved as soon as possible. Nawaz Sharif was addressing a consultation meeting at Raiwind here on Monday. He said that the economy of the country would increase if the load shedding is overcome. Nawaz Sharif said that there would be saving of billion of rupees with the production of electricity through coal. The Prime minister was given elaborate briefing over energy crises. Prime minister said that economy of the country would not improve unless load shedding is overcome. Prime Minister said that load shedding can be ended if the work on projects for producing of electricity through water and coal is accelerated, adding that there would be saving of billion of rupees through these projects. Nawaz Sharif also directed for acceleration of the work on the Neelum-Jhelum project. Prime Minister was also briefed over producing electricity through coal. Prime Minister said that regardless of the scale of the projects, the working on the projects should immediately be initiated and production should be got so that we may move forward to resolve the issue of load shedding in the country.

### **Renewable energy: KESC, Aman Foundation to set up bio-gas plant**

*The Express Tribune, July 7, 2013*

**KARACHI:** The International Finance Corporation (IFC) has signed a joint development agreement with the Karachi Electric Supply Company (KESC), the Aman Foundation and their collaborative initiative, Karachi Organic Energy Limited (KOEL). The three will co-develop the largest bio-gas power plant of its kind, in what is being called a 'waste to energy project' based in the Landhi Cattle Colony in Karachi, said a press release issued here. The IFC's support will come in the form of IFC InfraVentures, an early-stage equity investment fund which supports infrastructure projects in developing countries. It will work hand-in-hand with the KESC and Aman Foundation and will provide a share of the seed capital, aiming at attracting subsequent financing at a later stage. The plant will convert approximately 4,200 tons of cattle waste and 700 tons of food waste per day to bio-gas, which will be utilised for power generation at a facility with an installed capacity of up to 30 megawatts (MW).

### **Vehicles with CNG kits disallowed during VVIP visits**

*The News, July 16, 2013*

**PESHAWAR:** In pursuance of the directives from the Ministry of Human Rights, the Khyber Pakhtunkhwa Home and Tribal Affairs Department has disallowed official vehicles with CNG kits during movements of VVIPs and VIPs to ensure security. An official statement said the officers using CNG fitted vehicles as an economy measure of the provincial government should ensure international standard CNG kits. In this connection all the departments and institutions of the provincial government should take cognisance of cases indicating laxity or lack of responsiveness and initiate disciplinary actions to pre-empt losses of life and property, the statement added. The transport department and divisional and district administration should carry out extensive exercises of checking public service vehicles to ensure adherence to standard specification for the CNG kits, it said.

### **Innovative thinkers: Students use solar energy to light village**

*The Express Tribune, July 17, 2013*

**KARACHI:** Twelve solar lights were installed in one locality of Jaffer Jokhio village by the students of the Sustainable Development Research Centre (SDRC) of the Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology (Szabist). The village, Jaffer Jokhio, near Ghoro was adopted by the SDRC and Szabist's social science students as part of the research project on sustainable development. A student survey identified that the village's main problems were water supply shortage, the absence of electricity and gas. SDRC team utilised renewable energy and provided solar lights on the main street, mosque and the water collecting area. In the coming semesters, the students plan to provide solar lights to the rest of the village. They plan to organise events to raise funds to provide solar lights.

### **Energy crisis: Confusion, mismanagement abound at Guddu Power Plant**

*The Express Tribune, July 17, 2013*

**KARACHI:** While on one hand the government seems busy in devising different proposals and inking agreements with international firms to solve the energy crisis, on the other hand it fails to recognise that mismanagement has greatly hampered the capability of some existing power plants. An example of the latter is the Guddu Thermal Power plant, one of the largest public sector power plants located in Sindh. Its current condition can be described as pathetic. More than seven power units of the plant are lying unutilised, which has decreased the original power generation capacity from 1,650MW to about 350 to 550MW. The management has been forced to shut down units because of frequent minor blasts inside plants and fire accidents. Sources have said the blasts are due to the management's negligence and junior officers' incompetency, factors that have contributed to a lack of control over the situation.

Reports show that unit No. 4, which with the capacity to generate 230MW, caught fire in May of this year. Then in June a blast occurred in unit No. 2, forcing it to be shut down. For the last

couple of months units 6, 11, 12, and 13 have been lying idle. "Unit 7 needs a gear to run and there is a fan required for another unit which can generate 100MW. If all requirements are met and the power plant starts running smoothly, we can add a further 1,000MW to the national grid," said a senior engineer working at the plant. The problems persist even though the power plant is being supplied with 260 million cubic feet of gas, "Hardly 140 mmcf is being consumed by the power plant," officials said.

Following the twin blasts in unit No. 4 and unit No. 2, resident engineers were initially held responsible, but there was no inquiry. Instead the resident engineers were given another assignment. Junior engineers took over, amidst allegations that the whole case was politically motivated. Some officials blame Aslam Shaikh, CEO of Guddu power plant, who apparently has given up interest in his job as the date of his retirement approaches. Officials close to the CEO quoted him as saying: "I am tired of writing to higher authorities. Only four to five months are left in my retirement. Now, I do not want to indulge in these kind of matters." Shaikh, however, has a very different story, and holds his predecessors responsible. "Actually, the lack of overhauling and maintenance is the real problem. Every other day we witness one or two problems. These units are around 38 years old, but no one has properly taken care of them given financial and other constraints," he said. According to Shaikh, he has written to higher officials to fix the problem, which should be resolved by the end of this month. "Currently we are producing 600 MW, which is likely to climb 700 MW in a few days," he said. When asked to restore production levels to the power plant's actual capacity of 1,650 MW, he said, "We cannot generate it because there have been audit problems in two units which are not supposed to start their functions." He did not elaborate.

Shaikh added that a new project was being set up with the help of the United States which would generate 747MW electricity. "Seventy five per cent work has been finished and we will start one unit by February and all three to four units will be established by August 2014 and this will reduce load-shedding in the country by 20%," he claimed. He refuted the allegations of mismanagement and said he has issued show cause notices to negligent officers, and has started an investigation into the blast and fire which took place in different units. Neither the managing director of Pakistan Electric Power Company, nor the Ministry of water and power federal secretary was available to comment on Guddu.

## International Energy News

### The diminishing glow of nuclear energy

GREENPEACE, June 17, 2013

In France, Greenpeace activists got past security and climbed reactor structures at the Tricastin nuclear power plant. They unfurled a banner which read: TRICASTIN ACCIDENT NUCLÉAIRE: PRÉSIDENT DE LA CATASTROPHE? (*Tricastin Nuclear Accident: President of the Disaster?*). Earlier this morning, other activists projected a crack onto the superstructure of the plant illustrating that French President, Hollande, needs to shut down 20 nuclear reactors in the country by 2020 in keeping with his promise to cut nuclear power from three-quarters to half by 2025. The projection of the crack, by the way, is not foreshadowing an eminent condition. Cracks have been found in the reactor vessels of several plants in France, and throughout the world.

In South Korea our office there has been hard at work drawing attention to the dangers of nuclear energy. Last Wednesday saw several climbers suspended from the Gwangan Bridge in Busan showing Koreans that the Gori power plant poses a grave risk to the people living in its proximity. Today, the Rainbow Warrior could be seen from the same nuclear plant – the oldest facility in the country – with a very simple message printed on a banner stretched between her masts: CHERNOBYL, FUKUSHIMA, BUSAN? The banner onboard the Rainbow Warrior is telling in its simplicity. It creates the spectre of Chernobyl and Fukushima, and by omission Three Mile Island, Windscale and the far too many other nuclear and radiation accidents across the world. It brings to mind images of people whose health has been affected by radiation, and vast swathes of fall-out wasteland which leaves burn scars for generations after the accident. Also telling, because the message itself is simple: Nuclear energy is neither secure, safe nor even practical. A status report released Thursday by independent consultants makes no bones about – not only the health risks associated with nuclear energy, but the economic impracticality of this kind of energy production as a whole. You don't have to get very far into the report to find that facilities peaked in their output a decade ago, and have been in decline ever since. This is in the face of an ever-increasing global energy consumption. It begs the question, what's the point of nuclear energy if demands can be met in a sustainable way?

Although the movement against nuclear power plants in France and South Korea happen to be



couple of months units 6, 11, 12, and 13 have been lying idle. "Unit 7 needs a gear to run and there is a fan required for another unit which can generate 100MW. If all requirements are met and the power plant starts running smoothly, we can add a further 1,000MW to the national grid," said a senior engineer working at the plant. The problems persist even though the power plant is being supplied with 260 million cubic feet of gas, "Hardly 140 mmcf is being consumed by the power plant," officials said.

Following the twin blasts in unit No. 4 and unit No. 2, resident engineers were initially held responsible, but there was no inquiry. Instead the resident engineers were given another assignment. Junior engineers took over, amidst allegations that the whole case was politically motivated. Some officials blame Aslam Shaikh, CEO of Guddu power plant, who apparently has given up interest in his job as the date of his retirement approaches. Officials close to the CEO quoted him as saying: "I am tired of writing to higher authorities. Only four to five months are left in my retirement. Now, I do not want to indulge in these kind of matters." Shaikh, however, has a very different story, and holds his predecessors responsible. "Actually, the lack of overhauling and maintenance is the real problem. Every other day we witness one or two problems. These units are around 38 years old, but no one has properly taken care of them given financial and other constraints," he said. According to Shaikh, he has written to higher officials to fix the problem, which should be resolved by the end of this month. "Currently we are producing 600 MW, which is likely to climb 700 MW in a few days," he said. When asked to restore production levels to the power plant's actual capacity of 1,650 MW, he said, "We cannot generate it because there have been audit problems in two units which are not supposed to start their functions." He did not elaborate.

Shaikh added that a new project was being set up with the help of the United States which would generate 747MW electricity. "Seventy five per cent work has been finished and we will start one unit by February and all three to four units will be established by August 2014 and this will reduce load-shedding in the country by 20%," he claimed. He refuted the allegations of mismanagement and said he has issued show cause notices to negligent officers, and has started an investigation into the blast and fire which took place in different units. Neither the managing director of Pakistan Electric Power Company, nor the Ministry of water and power federal secretary was available to comment on Guddu.

## International Energy News

### The diminishing glow of nuclear energy

GREENPEACE, June 17, 2013

In France, Greenpeace activists got past security and climbed reactor structures at the Tricastin nuclear power plant. They unfurled a banner which read: TRICASTIN ACCIDENT NUCLÉAIRE: PRÉSIDENT DE LA CATASTROPHE? (*Tricastin Nuclear Accident: President of the Disaster?*). Earlier this morning, other activists projected a crack onto the superstructure of the plant illustrating that French President, Hollande, needs to shut down 20 nuclear reactors in the country by 2020 in keeping with his promise to cut nuclear power from three-quarters to half by 2025. The projection of the crack, by the way, is not foreshadowing an eminent condition. Cracks have been found in the reactor vessels of several plants in France, and throughout the world.

In South Korea our office there has been hard at work drawing attention to the dangers of nuclear energy. Last Wednesday saw several climbers suspended from the Gwangan Bridge in Busan showing Koreans that the Gori power plant poses a grave risk to the people living in its proximity. Today, the Rainbow Warrior could be seen from the same nuclear plant – the oldest facility in the country – with a very simple message printed on a banner stretched between her masts: CHERNOBYL, FUKUSHIMA, BUSAN? The banner onboard the Rainbow Warrior is telling in its simplicity. It creates the spectre of Chernobyl and Fukushima, and by omission Three Mile Island, Windscale and the far too many other nuclear and radiation accidents across the world. It brings to mind images of people whose health has been affected by radiation, and vast swathes of fall-out wasteland which leaves burn scars for generations after the accident. Also telling, because the message itself is simple: Nuclear energy is neither secure, safe nor even practical. A status report released Thursday by independent consultants makes no bones about – not only the health risks associated with nuclear energy, but the economic impracticality of this kind of energy production as a whole. You don't have to get very far into the report to find that facilities peaked in their output a decade ago, and have been in decline ever since. This is in the face of an ever-increasing global energy consumption. It begs the question, what's the point of nuclear energy if demands can be met in a sustainable way?

Although the movement against nuclear power plants in France and South Korea happen to be

SPONSOR'S MESSAGE

**BE FIRST**

TO SHARE YOUR MESSAGE WITH  
THOUSANDS OF ENERGY  
PROFESSIONALS

focused on specific locations, the call to stop generating nuclear energy needs to be heard by everyone. Tricastin is one plant which was breached by our activists this time, but it is representative of five [in French] others' which are decrepit, riddled with cracks, and are at high risk of serious accidents. The Gori plant in Busan, another ticking time bomb, is indicative of a whole other set of problems besides the safety of the plants themselves. It is the lack of transparency by the Nuclear energy industry as it deftly clucks a narrative of efficiency and sustainability while stroking the backs of any policy-makers within reach. In the past few years the nuclear industry in South Korea has been riddled with corruption involving skirting regulation, faking certificates and forging warranties. The collusion between state officials and nuclear energy mavens is seen as one of the causes of the Fukushima disaster. In places like Japan it has been repeatedly shown that, were it not for independent oversight, unsafe and outright broken reactors would be re-activated by people gazing at their wallets and not looking out for the health of the people they govern. Again, while focused on one geographic region the problem is endemic. As former US Nuclear Regulatory Commissioner, Peter Bradford, wrote, "For various reasons in many nations, the nuclear industry cannot tell the truth about its progress, its promise or its perils. Its backers in government and in academia do no better."

There is something else that draws people out of their homes and onto the streets to protest against nuclear power, as they did in Guangdong province, China, last week. It is that, as long as nuclear fatly wedges itself into the turnstile through which energy expenditure passes, we won't be able to seriously talk about clean, safe and renewable power. The 37-billion Chinese yuan that would have gone to a uranium processing facility in the Longwan Industrial Park can be put towards a sustainable way to generate energy. A way that doesn't degenerate the planet or sicken and kill people. "The gap between nuclear rhetoric and nuclear reality has been a fundamental impediment to wise energy policy decisions for half a century now," wrote Professor Bradford. Turning the last half-century around to wiser energy policy decisions shouldn't be left to policy-makers, industry leaders, or even the small group of French or South Koreans who shine a light on an increasingly redundant and dangerous industry. It is up to all of us to push nuclear energy off the table, for the health of ourselves and of our planet.

## Wind energy reaches parity with coal in India

*Indian Coal Forum, July 18, 2013*

Wind energy has reached a major milestone in India. The country has been working to incorporate renewable energy in a more aggressive way over the past few years in an attempt to break away from fossil-fuels. Wind energy has become one of the most favored forms of clean power in India and it has helped promote economic growth in some of the country's states. Recently, wind energy achieved a major feat that could begin to chip away at the country's reliance on coal. Wind energy in India has become cost competitive with new build coal-based systems. This means that new wind energy systems are no longer considered significantly more expensive than conventional energy systems. This parity was made possible through the growing stress on the country's coal reserves. As coal becomes scarcer, India has begun to turn to others forms of energy to meet its needs.

Wind energy has managed to grow over the past year with the help of a feed in tariff that provides a financial incentive to promote the adoption of this form of clean power. The feed-in tariff for wind energy, in particular, is approximately 15% lower than the tariff provided to coal, but this has not slowed the growth of wind energy in many parts of the country. By 2020, India hopes to see approximately 9% of its electrical demand be met through renewable sources. With wind energy establishing parity with coal, this goal is becoming more likely. Solar energy is another form of clean power that has managed to gain a strong following in India. The Indian government expects that solar energy will establish grid parity between 2016 and 2018. The country is currently home to numerous ambitious solar energy projects and research that aims to lower the costs associated with solar and wind energy systems.

### SPONSOR'S MESSAGE

**BE FIRST**

TO SHARE YOUR MESSAGE WITH

**THOUSANDS OF ENERGY PROFESSIONALS**



## Energy & Power Regulatory Frameworks News

### National Electric Power Regulatory Authority (NEPRA)

#### NEPRA slashes power tariff by Rs1.15 per unit

*The Nation, June 13, 2013*

The National Electric Power Regulatory Authority (NEPRA) has approved Rs 1.15 per unit cut in power tariffs. NEPRA has slashed Fuel Adjustment Charges to bring power tariff Rs 1.15 down. While the government struggling to come to grips with the rising power shortfall it had earlier suggested the power regulatory body to raise tariffs by up to Rs three to five per unit.

#### Power outages: Court seeks replies from NTDC, NEPRA officials

*The Express Tribune, June 27, 2013*

PESHAWAR: The Peshawar High Court (PHC) has asked the National Transmission and Distribution Company (NTDC) and National Electric Power Regulatory Authority (Nepra) why the former suspended power supply to Khyber-Pakhtunkhwa (K-P) from the national grid station. The explanation was sought by a division bench comprising PHC Chief Justice Dost Muhammad Khan and Justice Asadullah Khan Chamkani on Wednesday while hearing a suo motu notice taken over excessive load-shedding in the province. During the hearing, the court also asked Peshawar Electric Supply Company's (Pesco) chief executive to explain why excessive load-shedding was being carried out in the southern and northern districts as compared to other parts of the province. The bench observed the flow of power to K-P had been suspended with the touch of a button, adding despite producing 3,500 megawatts the province had not been provided its due share of electricity. Only 1,300 megawatts is supplied to the province, which hardly meets its needs, added the bench. Nepra officials told the court rules empowered it to hold or resume power supply to provinces, adding the authority had delegated regulation of power supply to provinces. But the court questioned under what laws Nepra had conferred the powers to NTDC, and who had authorised the latter to conduct load-shedding.

### National Transmission and Dispatch Company (NTDC)

#### Higher generation being ensured, says NTDC

*Dawn, July, 14, 2013*

LAHORE, July 14: Electricity generation crossed 15,100 MW at Iftar timings on Saturday that is one of the highest outputs during the last few years. This was claimed by a National Transmission and Dispatch Company (NTDC) spokesman on Sunday in a press release. He said power generation stood at 14,200 MW while demand increased to 17,300 MW with a shortfall of 3,100 KW. Hydel generation remained at 5,553 MW while thermal power stations are contributing 1,950 MW, whereas Independent Power Producers (IPPs) are generating 6,700 MW. The spokesman claimed that on the instructions of water and power ministry, unscheduled loadshedding had been ended whereas no loadshedding was being observed during Sehr, Iftar and Traveeh timings. However, in some areas, DISCOs had no option left but to resort to outages, due to technical constraints like tripping of feeders and overloading of transformers, he added. The spokesman clarified that according to the load management plan, uninterrupted power supply was being provided to the industrial areas till Sehr timings. Resultantly, during the process of conversion from industrial to domestic feeders, electricity was being tripped off in certain areas of various DISCOs, he said. He further said the increase in power generation to 15,100 MW as well as generation of 6,700 MW by IPPs was a step forward to reduce loadshedding and to provide maximum relief to the masses during Ramazan. The spokesman appealed to the masses to conserve electricity which, he said, would ultimately help overcome the loadshedding.

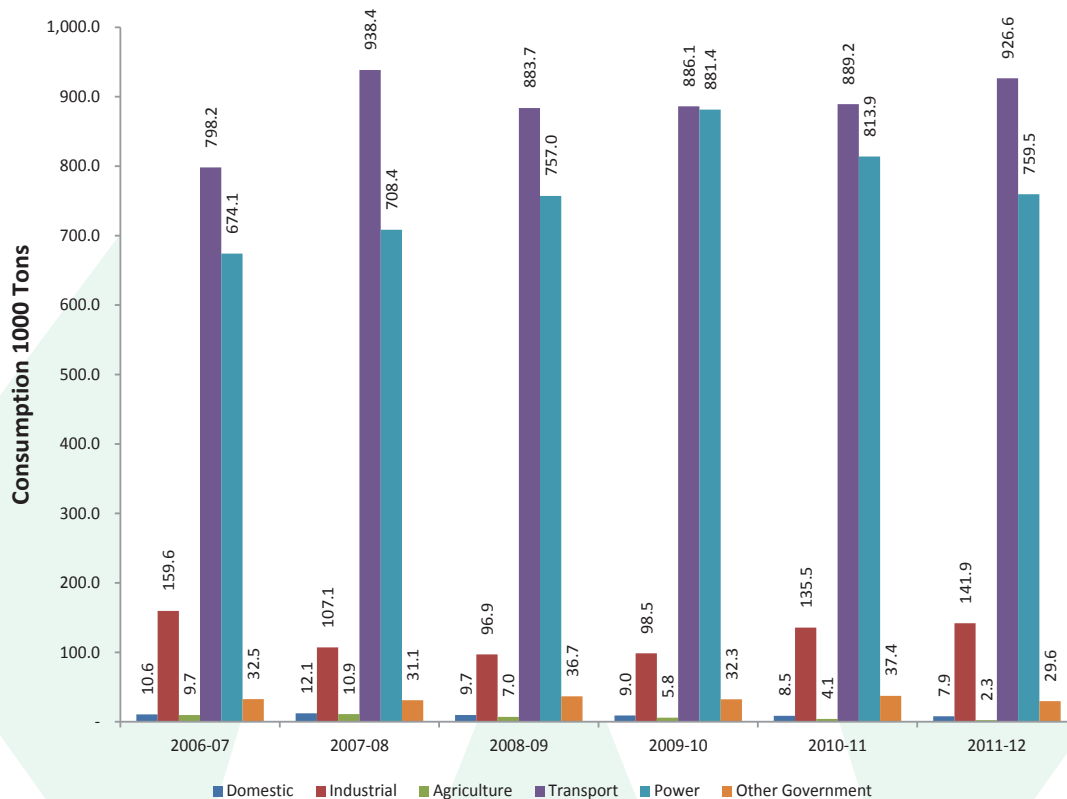
#### SPONSOR'S MESSAGE

# BE FIRST

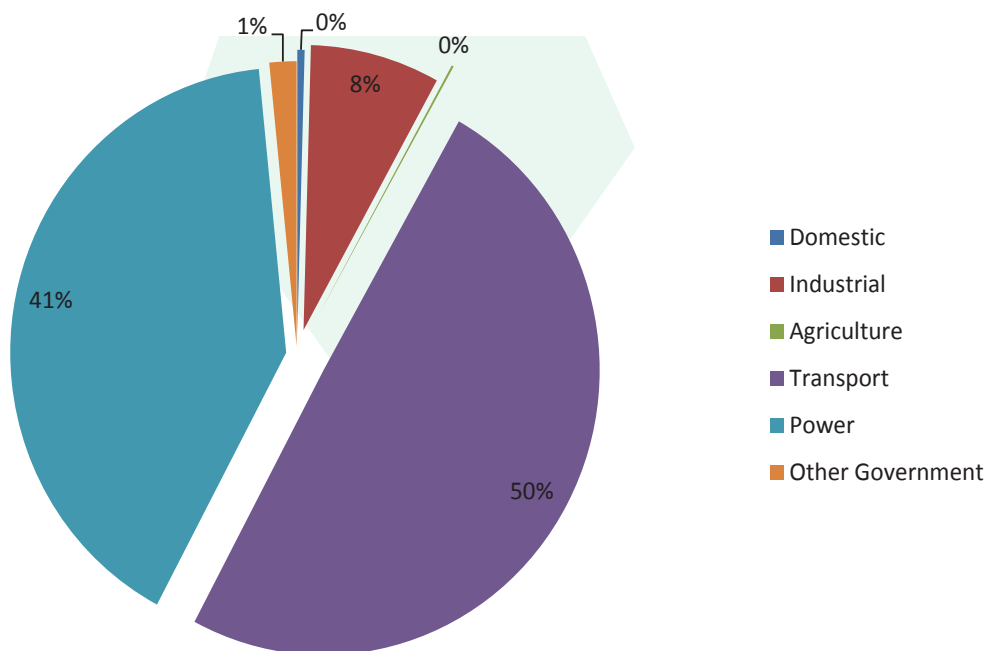
TO SHARE YOUR MESSAGE WITH

## THOUSANDS OF ENERGY PROFESSIONALS

### PETROLEUM ENERGY PRODUCTS CONSUMPTION BY SECTOR



### PETROLEUM ENERGY PRODUCTS CONSUMPTION BY SECTOR in 2012



## Solar energy is the energy of the future

By Rina Saeed Khan

Dawn

June, 4, 2013

According to the Center for Science and Environment in Delhi, solar energy has finally “arrived” – it is now causing trade wars between the US, Europe and China, which tells you that this sector is growing and is lucrative (hence all the competitiveness). Today, solar energy is positioned to become a new source of power to lead the world to a low-carbon future and hopefully, away from a global climate catastrophe (caused by rising emissions from burning fossil fuels). For solar energy to become so cheap that it can compete with coal and oil, its deployments needs to be greatly scaled up.

That is happening already – not just in the western countries like Germany and Spain, but also in the developing world. In South Asia, Bangladesh and India are quickly deploying this technology already, which is becoming cheaper each year. The Chinese have actually managed to bring down prices in the last few years – it is estimated that in 2011 Photo Voltaic (PV) modules cost 60 per cent less than what they did in 2008. Today, China has a glut of solar panel production and Chinese manufacturers that supply most of the world's solar panels are struggling to avoid bankruptcy after expanding too fast. The resulting plunge in solar-panel prices means that investors can expand into new markets. Pakistan can use this opportunity to request the Chinese government for major solar power installation financed by China. Instead of talking about nuclear and coal, we should be seriously considering this modern, renewable energy, which is THE energy of the future.

Currently, we have an installed capacity of around 23,000 megawatts and a demand of only around 16,000 megawatts so we are actually OK for now. What we need to do in the short term is to finance the circular debt and address the massive theft and corruption that takes place in our power sector. Energy reforms are of no use unless they are long-term and we need to be thinking of the future. Our political leaders should be planning for the long-term, which means thinking years ahead (taking our population growth and the increased demand for electricity into consideration).

According to development expert Dr Tariq Banuri, who is a great advocate of renewable energy in Pakistan: “Unless we have a solvent system, it is difficult to attract investment in new capacity. Not surprisingly, the only ‘investors’ we seem to be able to attract are snake oil salesmen out to make a quick buck (in fact, a quick million bucks), in cahoots with the high level decision makers, but with no interest in building new capacity and helping the country overcome the energy gap. This leads me to three points. First, given the insolvency of the system (and the insolvency of the exchequer), we have to be mindful of what the rest of the world would be willing to contribute in order for us to attain an adequate level of energy availability. This is the argument for renewable energy. In case of all other technologies, we will either be on our own, or may in fact face unanticipated repercussions in the future. Second, we need to strengthen the dual pricing system in such a way that it leads to strict segregation between low-income consumers and those with high-incomes plus the commercial, government (including military), agricultural, and industrial sectors. The best way of doing it is to reserve the

low cost energy (WAPDA/ hydro power/ domestic gas) for the low-income sector and ask the industrial, agricultural, commercial, institutional (e.g., military) and high-income residential areas (e.g., defense housing authorities) to generate their own energy. Instead of diesel generators during load shedding, they should be encouraged to build large scale and efficient and non-polluting energy systems. Third, the incoming government has to address the stratospheric level of corruption in the energy sector”.

The Alternative Energy Development Board in Pakistan (AEDB), which is promoting renewable energy in the country, says that currently both the Solar PV and Solar Thermal based markets are rapidly developing in the country without any government subsidies or direct assistance. Although Pakistan has yet to install its first ‘MW scale’ solar PV project, there has been a sharp increase in the capacity of installed Solar PV technology in the country during 2012 (small-scale kW range installations). The AEDB report for 2012 explains that: “Considering the significant energy shortfall with heavy load shedding in major cities of the country with hardly any electricity being supplied to the rural communities, increasing trust and popularity of the effectiveness of the technology within the country as well as reduction in Solar PV systems globally, this trend is not surprising and is expected to continue in the future. It is also worth mentioning that development of the capacities of the local technical staff and vendors working in the Solar PV market has also resulted in improved quality of O&M and played a key role in developing consumer confidence to install Solar PV systems”.

According to Najeeb Nayyer, a Karachi based engineer, who is also a big promoter of renewable energy, “The cost of a reliable 5.0 kW solar system is under 1.0 million rupees and there are several reputed suppliers selling solar panels, deep cycle batteries and inverters. There is also a massive growth in small wind turbines (upto 10 kW) and again a 5.0 kW system (for Sindh and Balochistan's windy coastal areas) could be installed in 1.0 to 1.5 million rupees”. He points out, however, that before buying and installing such a system, a household should first reduce the house's total energy requirement by cutting down all wastage of energy. This can be done in part by switching to LED lighting – according to Najeeb, “Recently a friend in Lahore dropped the total load of all domestic lights (switched on in the house) from 1600 watts to 200 watts. It was done by shifting to LED lighting. Once you do something like this you have substantially reduced the acquisition cost of an alternate energy system as now you are buying panels, batteries and inverters for a much smaller load application”.



## The shifting energy roadmap

By Syed Rashid Husain  
Dawn  
June, 9, 2013

The growing Saudi crude consumption continues to be a major irritant. The Pakistan Oil, Gas & Energy Exhibition (POGEE) conference in Lahore last week was no different.

As soon as one finished the talk on 'Changing Global Crude Scenario,' Antoine Halff, Head of Oil Industry and Markets Division and the Editor, Oil Market Report of the Paris based International Energy Agency, was quick to raise the issue of low gasoline prices and government subsidies in the oil producing countries (read Saudi Arabia), its contribution in the galloping, rather unacceptable, domestic consumption levels and the inefficiency it breeds into the overall system.

In hindsight, perhaps one knew the question coming. For this is one of the issue, that keeps cropping up. A few years back, while this scribe was invited to the board room of the International Energy Agency in Paris, to give his take on the global energy scenario; 'Oil — the Other View,' Halff's predecessor at the IEA, David Fyfe too had asked an almost the identical question.

Low gasoline prices and the subsequent rising consumption within the GCC is an issue before the energy world — none can dare deny. It breeds inefficiency and at the same time could strain the global demand — supply balance — some argue even today, while the shale revolution is about to inundate parts of the globe.

In a recent report, consulting firm Oliver Wyman underlines that energy consumption in the Middle East has grown so fast that "continued projected consumption growth of three per cent per annum and the level of investments that will be required are likely to lead to an even wider gap between supply and demand."

And energy managers are more than aware of the situation. If it remains business as usual, the galloping domestic consumption may even touch the seven million barrels per day mark soon, they underline. And the day domestic consumption reaches that level; what would be left for exports? A major issue indeed — with serious consequences — most agree and concede.

And the scenario is not limited to Saudi Arabia alone. The entire oil rich GCC is faced with an identical scenario. The current lifestyle is extracting a price of its own. Kuwait will also have to burn 700,000 to 900,000 barrels per day by 2030 to meet its growing electricity and water needs. And the consumption by the transportation sector would be in addition to it, leaving little for exports. And this would again carry huge social consequences. For all the glitter that one sees today in Kuwait, as elsewhere in the Gulf, is owed basically to crude exports. From where that could

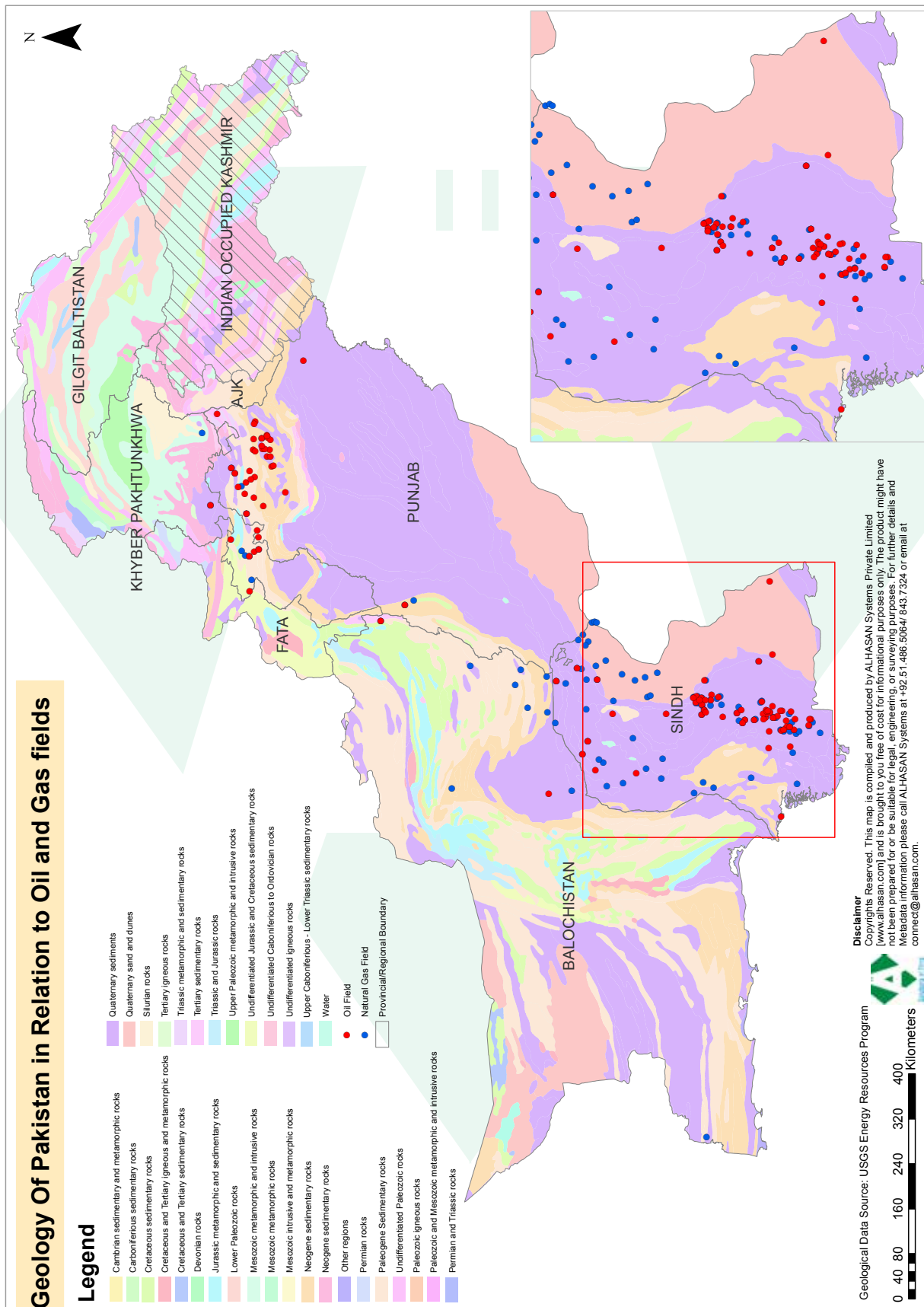
be sustained, if most of this crude is consumed domestically, is anybody's guess?

Efforts to change the direction, to turn the tide, are on — throughout the region — from Riyadh to Kuwait and Abu Dhabi. Courtesy, the Saudi Energy Efficiency Center (SEEC), Riyadh is seriously focusing on reducing power consumption through audits, load management, regulation and education. Similarly investments in environmentally friendly building projects in the Kingdom is also set to reach Saudi riyal 100 billion (over \$26bn).

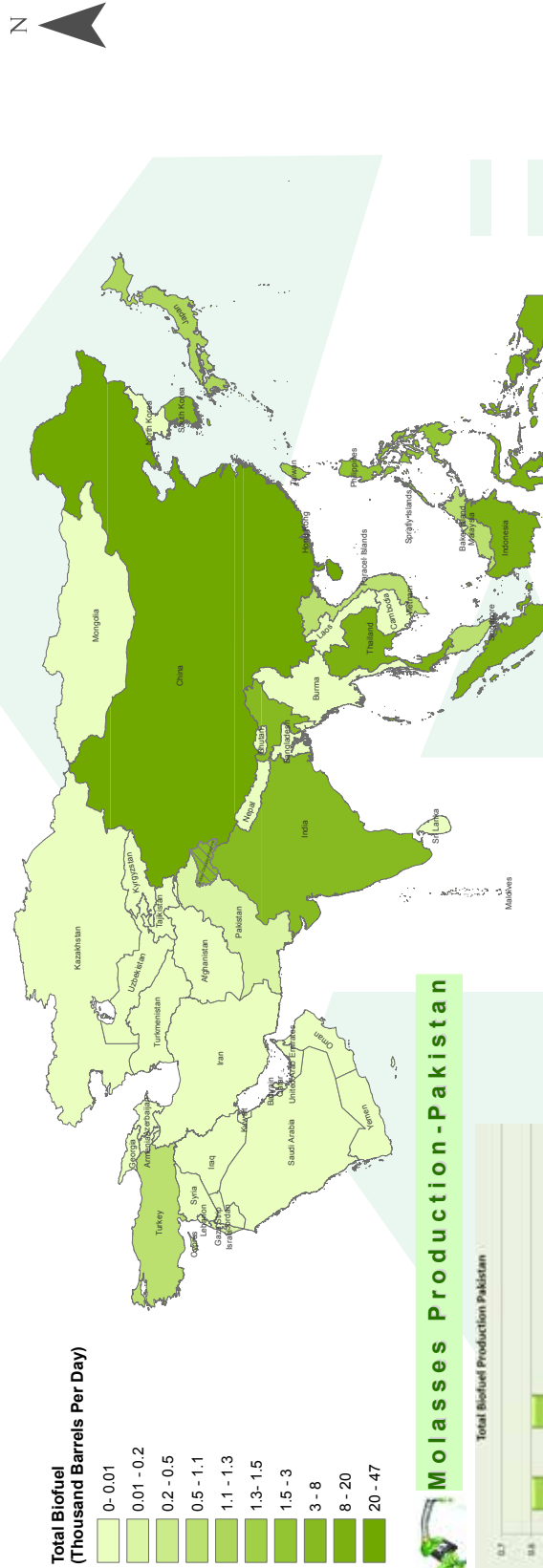
The United Arab Emirates has also launched its National Energy Efficiency and Conservation Program, which seeks to promote efficient utilisation of energy in the residential sector. It also is pursuing an active solar and nuclear energy program.

Kuwait is likewise pursuing energy efficiency programs. As per Dr. Mershan Al-Otaibi, Asst. Undersecretary for Planning and Training, Ministry of Electricity and Water, Kuwait, short-to-medium term savings for electricity generation could be derived with a new energy-saving code for new buildings that will also reduce costs by 20pc. Over the long-term, he underlined Kuwait could be generating 15pc of its electricity requirements from renewable energy by 2030.

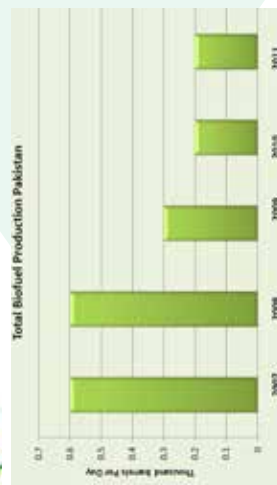
Indeed some politically painful decisions may also have to be taken to reverse this disastrous course. Politically this may not be easy; however the direction is very much there. And this remains a major consolation.



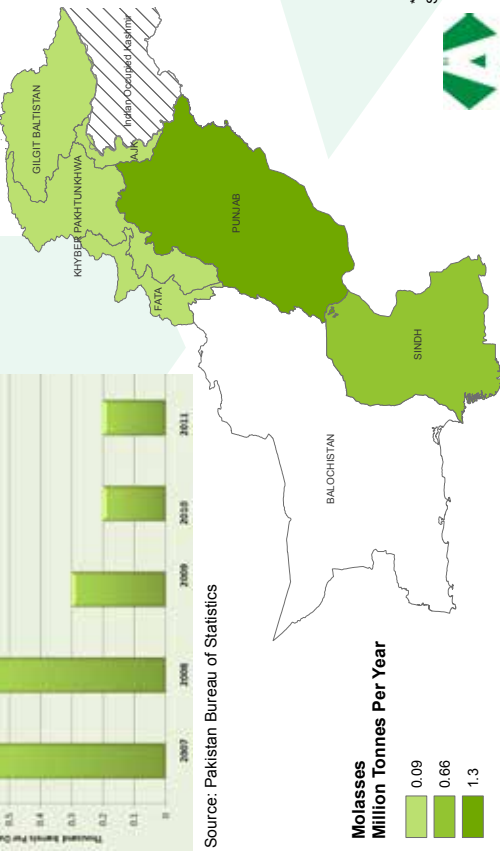
## Biofuel Production - Asia



## Molasses Production - Pakistan

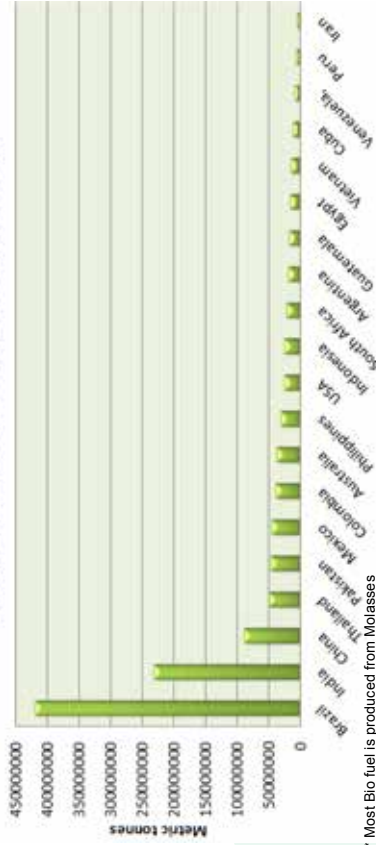


Source: Pakistan Bureau of Statistics



0 437.5 875 1,750 2,625 3,500 Kilometers

## Major Molasses Producers of the World



\* Most Bio fuel is produced from Molasses

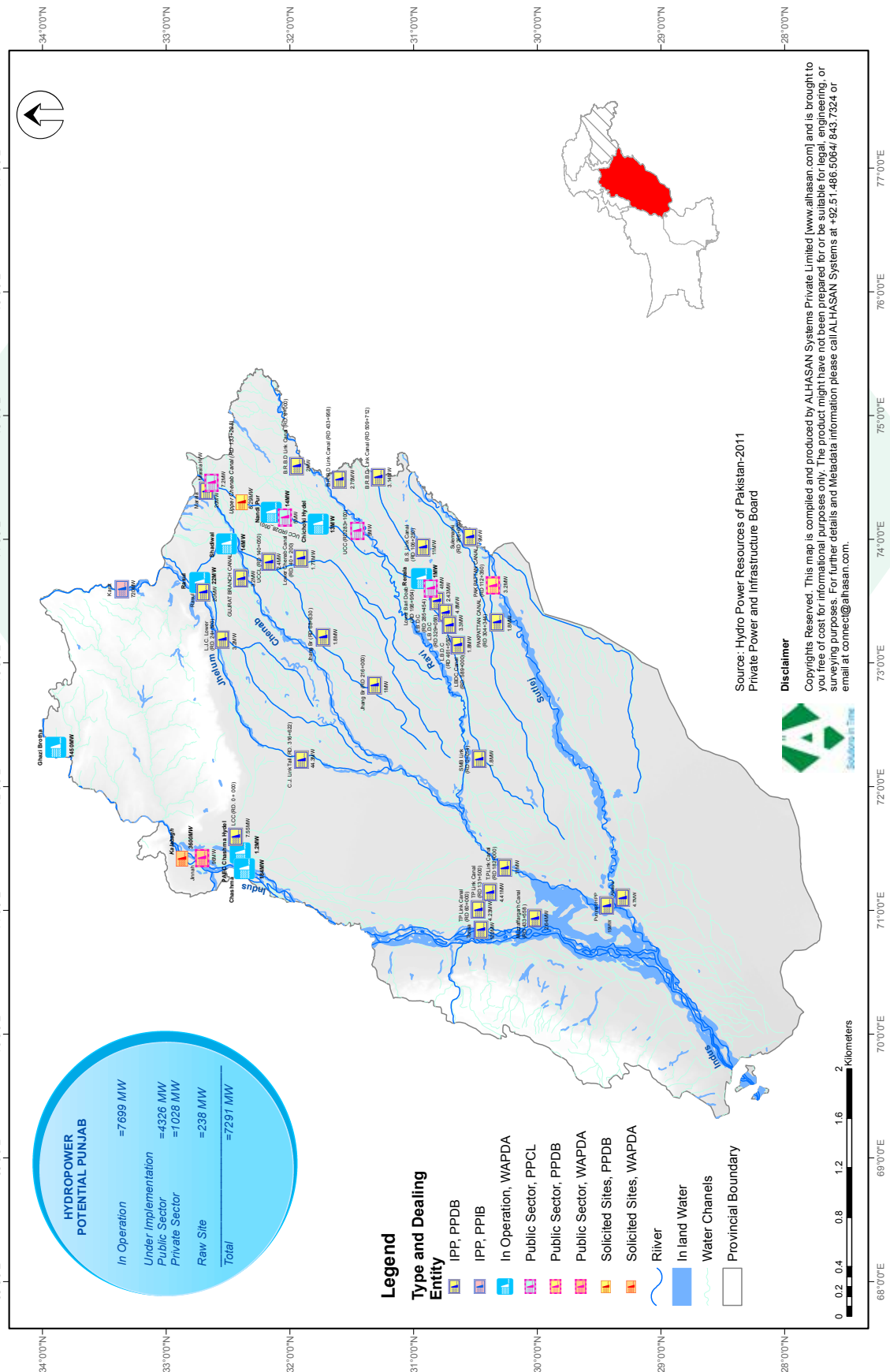
Source: FAO (2011)

### Disclaimer

Copyrights Reserved. This map is compiled and produced by ALHASAN Systems Private Limited [www.alhasan.com] and is brought to you free of cost for informational purposes only. The product might have not been prepared for or be suitable for legal, engineering, or surveying purposes. For further details and Metadata information please call ALHASAN Systems at +92.51.486.5064/ 843.7324 or email at connect@alhasan.com.

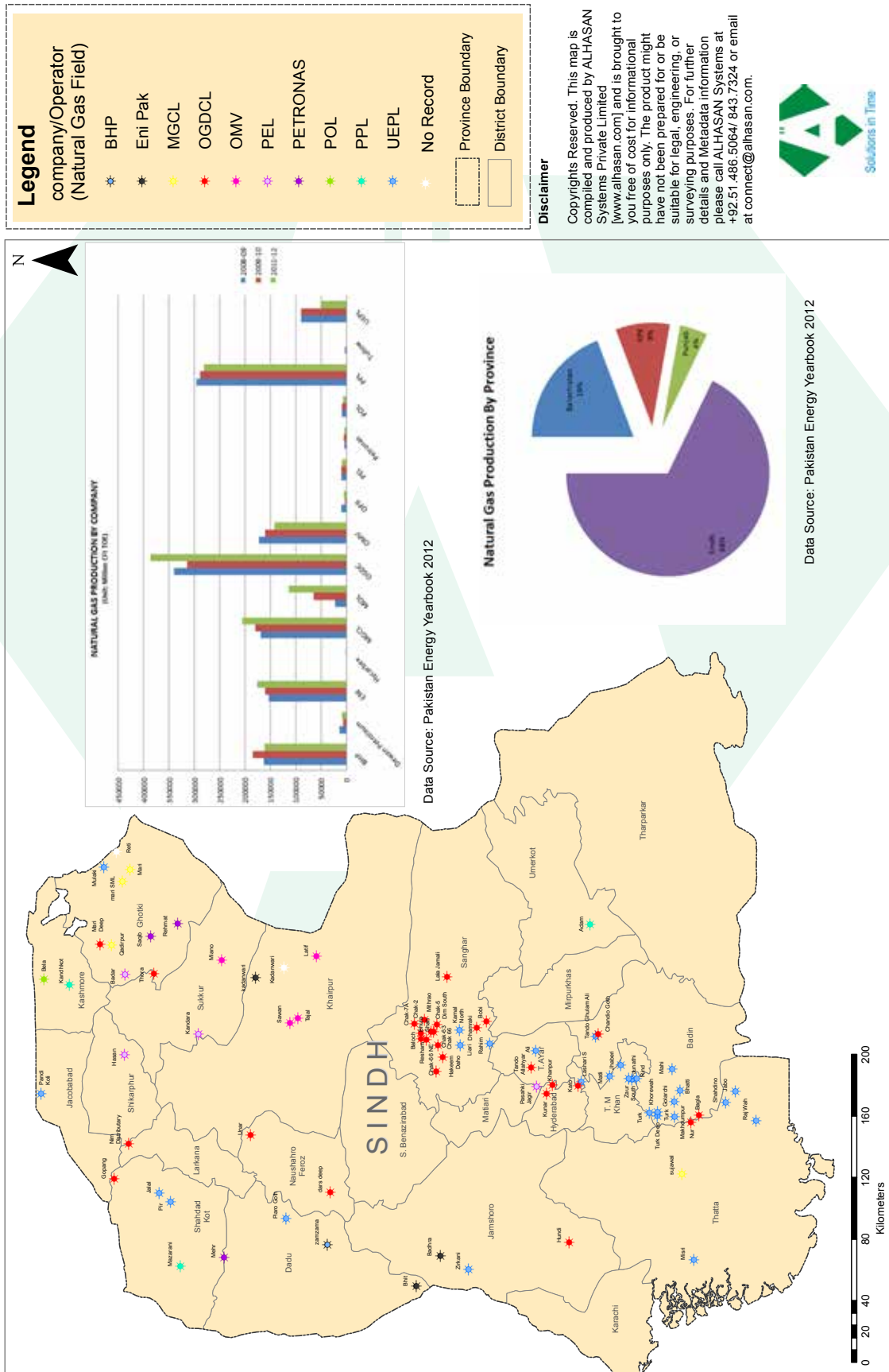


## HYDEL POWER PROJECT STATUS (Punjab Pakistan)





# Natural Gas Fields Sindh (As of June 2012)



# Energy Directory

Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
1	AB Gas Company	LPG MARKETING COMPANIES	Private Company	Muhammad Bashir Chief Executive	-	042-5894057 042-5865271 03004353595	042-5884450	78 HH -DHA, Cantt. , Lahore.	-
2	Admore Gas Private Limited,	Oil Marketing Companies	Private Company	Mr. Razi A. Hanafi, Managing Director	agplkhi@admore.com.pk - agplisb@admore.com.pk	111-ADMORE (236673) - (92-21) 5303191-92, 5364168-69, 5364171-72	(92-21) 5364170 & 5864562	316,3rd Floor, Continental Center, Sharah-E-Iqbal, Clifton Karachi-75600	www.admore.com.pk
3	Aftab Traders (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Abdul Hadi Khan Chief Executive	premiergas@hotmail.com	021-4389244-6	021-4521361	Office No. 603, P. No. 30-A Progressive Center, 6th Floor, Block-6, Shara-e-Faisal, PECHS Karachi	www.premiergas.com.pk
4	Agha Gas Company (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Agha Syed Liaqat Ali Chief Executive	-	081-2844058	081-2835144	S. Salahuddin Building, M.A. Jinnah Road, Quetta	-
5	AHMAD GEOMEMBRANE INDUSTRIES	Geosynthetic	Private Company	-	sales@geomembrane-geotextile.com	0092-42-352-60305	0092-42-352-60307	22 KM OFF FEROPUR ROAD LAHORE, 53100 PAKISTAN	www.geomembrane-geotextile.com
6	Akbar Associates (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Jamal Akbar Ansari Chief Executive	info@akbarassociates.com	051-2264308	051-2281678	No. 88, Khayaban-e-Iqbal, F-8/2, P.O. Box 1416, Islamabad	www.akbarassociates.com
7	Al Hamra Handicrafts	Marble Handicrafts	Private Company	Raoufikhair,	alhamra@cyber.net.pk	0092-300-5001231/+92-021-5380539	0092 21 5380543	3rd floor 92-C 11th Commercial Street, Phase-2, Extension DHA, Karachi	www.al-hamra.com.pk
8	Ali Brothers.	LPG MARKETING COMPANIES	Private Company	Sardar Ali Khan Chief Executive	-	091-5830855, 2650114 0334256623, 03005903242 0321-9159442	091-5830855	H. No. 223-A, St. No. 6, Sector K -1, Phase III, Hayatabad, Peshawar.	-
9	All Pakistan Marble Industries Association	Marble Industries	Private Company	Mr. FarukhMajeed Chairman	apmia@hotmail.com	(+92-51) 4433508, 4432774	(+92-51) 4432774	Bhatti, Plaza L-9 Markaz, Islamabad	-
10	Alternative Energy Development Board Ministry of Water and Power Government of Pakistan	Energy	GovtDept	-	-	-	-	-	-
11	Anoud Gas Limited formerly Eirad Company Limited	LPG MARKETING COMPANIES	Private Company	Syed Anjed Husain Chief Executive	info@anoudgroup.com.pk	021-5681084(5 lines), 051-2850486	021-5682067, 051-2256074	N o-G -5, Al-Mustafa Apartment Markaz G-8, Islamabad.	www.anoudgroup.com.pk
12	Asia Geophysical Services (Private) Limited	Oil & Gas	Private Company	Javed Ahmed (Chief Executive Officer)	ags@sb.comsats.net.pk	92(42)5167820/92(42)2100945/92(300)8562301	92(42)5167830	172-M Commercial Area, Model Town Extension, Lahore.	-
13	Attock Petroleum Limited	Oil Marketing Companies	Private Company	Mr. Shuaib A. Malik, Chief Executive Officer	contact@apl.com.pk	92-51-5127250-54	92-51-5127255	Attock House, Morgah, Rawalpindi.	www.apl.com.pk
14	Awami Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mrs. Maryam AhsanMaqbool Chief Executive	-	042-5380236 & 38	042-5380237	17-C -2, Gulberg III, Lahore.	-
15	B.B.N Energy (Pvt.) Limited.	LPG MARKETING	Private Company	FarukhMahmoodBukhari Chief Executive	-	042-5123597, 5122189	042-5115295	140 Main Industrial Area, KotLakhpat, Lahore.	-

Sl #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
16	Balochistan Gas Co. (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mohammad Sarwar Khan Chief Exclusive	-	051-4862386-7	051-4862388	Anique Arcade, First Floor, Office # 14 & 16, J/8 Markaz Islamabad.	-
17	Balochistan Minerals & Oils Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Sardar Muhammad Anwar Khan Jaffar Chief Exclusive	-	081-2892233, 2447460, 081-2832779	081-2828178	BMO International, Jaffar House, Spiny Road, Quetta.	-
18	BBN Energy (Pvt.) Limited	Oil & Gas	Private Company	-	ahsan@bbnenergy.com - bukhari@bbnenergy.com	0092-42-35118512 / 92-42-35117859 / 92-42-35122189	0092-42-35115295	140-Main Industrial Area, Quid-e-Azam Industrial Estates KotLakhtpat, Lahore 54760, Pakistan.	www.bbnenergy.com
19	Best Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	AsharShahabMirza Chief Exclusive	-	051-2851064	051-2255164	House # 7/B, St. 70, F -8/3, Islamabad.	-
20	Bolan Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	A.A.ArefGhani	-	042-6666475	042-6360792	13-A, Bolan House, St. No. 15, Cavalry Ground (Ext.), Lahore	-
21	Bosicor Pakistan Limited,	Oil Marketing Companies	Private Company	Mr. Amir AbbassyChairman / CEO	-	021-111-222-081, 021-2410099 & 021-4210909	021-2410722 & 2420722	2nd Floor, BusinessPlaza Muntaz Hassan Road, Karachi	www.bosicor.com.pk
22	BP Pakistan Exploration & Production Inc.	Oil & Gas	Private Company	Mr. Ferhat A. Sheikh (Country Representative)	-	92 (21) 35829000	92 (21) 35297601	5th Floor, Dolmen Executive Tower Scheme No 5, Clifton Block 4, Karachi	-
23	Brothers Engineering (Pvt.) Ltd	Oil & Gas	Private Company	Mian Muhammad Umar Idrees (Director)	bsml_lhr@yahoo.com	92(42)5757013-16,	92(42)5710417	135, Upper Mail Lahore.	-
24	Cap Gas (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Badar-e-Alam Chief Exclusive	-	051-5487586, 051-5487589-97	051-5487589, 5450564	POL House, Morgah, Rawalpindi	-
25	Chevron Pakistan Limited formerly Caltex Oil (Pakistan) Ltd	LPG MARKETING COMPANIES	Private Company	Nadeem N. Jafarey Chief Exclusive	nasghar@chevron.com	0092- 021 - 111-666-111 - 021-5681371 051-2277580	021 - 5685014 021-5218412	State Life Building 11 Abdullah Haroon Road Karachi 74400.	www.caltex.com.pk
26	China National Logging Corporation	Oil & Gas	Private Company	Li Wanjun (Country Manager)	Pakistan@cnlc.cn /liwanjun@cnlc.cn	92(51)2105901-2, 92(300)5019695	92(51)2105903	House 143, Street 37, F-10/1 Islamabad	-
27	Commerce International	Energy	Private Company	-	info@comintl.com	0092-21-3530,9601-3	0092-21-3530,9604	Suite #208, Marine Point Block 9, Clifton Karachi - 75600 Pakistan	www.comintl.com
28	Compagnie General De Geophysique	Oil & Gas	Private Company	Moeenuddin (Resident Representative)	-	92(51)2299031-36/92(51)2299025/92(30)08552156	92(51)2299027-29	15-Nazimuddin Road, Sector F-10/4Islamabad, P.O.Box-1440	-
29	COMSATS Institute of Information Technology	Education	Academic Institutions	Dr. S.M. Junaid Director	admissions@comsats.edu.pk / www.cit.edu.pk/info@cit.edu.pk	-18296812.03	-9246965	Park Road, ChakShahzad	-
30	Comsats Institute of Information Technology Library	Education	Library	Raja Muhammad Ibrahim	rajabrahim@comsats.edu.pk / www.cit-isb.edu.pk/Library/Library.aspx	-18517055.9	-	Park Road, ChakShahzad, Islamabad	-
31	Corporation (Pvt)Ltd.	-	Private Company	Mir SaeedZahri CEO	-	-	-	32,SITE,HawksbayRoad,Karachi	-
32	Cress LPG (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Muhammad Sharif Chief Exclusive	-	042-6279066, 6371323, 042-6371324	042-6279067, 6362402	30, Lawrence Road, lahore.	-

Sl #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
33	DAWOOD HERCULES	Fertilizer	Private Company	-	info.dh@dawoodgroup.com	(92-42) 6301601-07	(92-42) 6364316, 6360343	35-A, Shahrah-e-Abdul Hameed Bin Baadees (Empress Road), Lahore 54000, Pakistan.	www.dawoodgroup.com
34	Descon Exploration (Pvt.) Limited	Oil & Gas	Private Company	Abdul Razak Dawood (Chairman/Director)	Rdawood@Descon.com.pk	92(42)5811005, 92(42)5805134	92(42)5811135	Descon World Head Quarters, 18 Ferozpur Road, P.O. Box 1201 Lahore 53000, Pakistan	-
35	Dewan Petroleum (Pvt.) Limited	Oil & Gas	Private Company	Dewan Zia-ur-Rehman Farooqui (Chairman & Chief Executive)	an.sect@dewanpetroleum.com	92(51)111-313-786, 92(51)2277648	92(51) 2276535	46 Nazimuddin Road, F-7/4, Islamabad 44000	-
36	Energy & Power Department	Energy	Govt Of KPK	-	Secretary, E&P@kpk.gov.pk	091-9212686	091-9212657	-	-
37	Energy Department,	Energy	Govt Dept	-	-	-	-	-	-
38	Energy Department,	Energy	Govt of Punjab	Mr. Mohammad Jehanzeb Khan, Secretary,	ed.contact@energy.punjab.gov.pk	042-99213974-5	042-99213906	Library Road, Old Anar Kali, Lahore, Pakistan.	-
39	Energy Department,	Energy	Govt Of Sindh	-	-	-	-	Plot No ST/2/1, Sector 23, Korangi Industrial Area Karachi	-
40	ENGRO	Fertilizer	Private Company	-	eeel_hiring@engro.com	+92 21 111 211 211	-	Engro Chemical Pakistan Ltd. 7th & 8th Floors, The Harbor Front Building HC # 3, Marine Drive, Block 4, Clifton - Karachi	www.engro.com
41	ENI PAKISTAN LIMITED	Oil & Gas	Private Company	-	hro.recruitment@eni-pakistan.com.pk	-	-	5th Floor, The Forum, G-20, Block-9, Khayaban-e-Jami, Clifton, Karachi	-
42	Exploration and Production Companies Association (PPEPCA).	Oil & Gas	Private Company	-	mail@ppepca.com	(92) 51-2112015-16	(92) 51-2112108	House No. 119-A, Street No. 37 F-10/1, Islamabad, Pakistan.	www.ppepca.com/comm unitydevelopment/Polish_Oil_and_Gas_Company.html
43	FATIMA GROUP	Fertilizer	Private Company	-	mail@fatima-group.com	+92(61)4512031-2	+92(61)4511677	2nd Floor Trust Plaza, L.M.Q Road, Multan	www.fatima-group.com
44	Fauji Fertilizer Bin Qasim Ltd	Fertilizer	Private Company	Lt Gen Muhammad Zaki, HI, HI (M), (Retd) Is	info@fbi.com.pk	(051) 9272196-97	9272198-99	Fauji Fertilizer Bin Qasim Limited 73 - Harley Street, Rawalpindi.	www.fbi.com
45	Fauji Fertilizer Company	Fertilizer	Private Company	Lt Gen Naem Khalid Lodhi, HI(M) (Retired)	ffcrwp@fcc.com.pk	(051) 111-332-111	(051) 8459925	156-The Mall, Rawalpindi	www.fcc.com.pk
46	Fauji Foundation	Fertilizer	Private Company	-	info@fauji.org.pk	+92-51-595-1821 to 40	-	68 Tipu Road, Chakala Rawalpindi, Pakistan-46000	www.fauji.org.pk
47	Fine Gas Co Ltd. (FG)	GAS	Govt	-	info@finegases.com/	0092-42-35118937-40	0092-42-35122642 00-92-42-3512905	130, Industrial Estate KotLakhat, Lahore - 40, Pakistan	www.finegases.com
48	Foundation Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Brig (R) Hassan Shah (General Manager)	-	051-5584936	051-5588577	Shahrahe Quaid-e-Azam, P.O.Box No. 422, Rawalpindi.	-
49	Frontier Holding Limited	Oil & Gas	Private Company	Khalid Shoaib (Senior Staff	fhlsd@consats.net.pk /	92(51)2654471-73,	92(51)2653307	House# 149, Street 15, Sector E-7 Islamabad	www.Juraenergy.com



Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
50	Fugro Geodetic Ltd.	Oil & Gas	Private Company	Geophysicist) Richard Hall (Country Manager)	fugro@fugro.com.pk	92(21) 4532041, 4539165, 92(21)4532041	92(21)4532042	28-B, K.D.A Scheme # 1Karachi -753850.	-
51	Fusions Group	Solar Energy	Private Company	-	info@fusionsgroup.com	0092-213-4662642 / 92-213-4662643 / 92-213-8045043	-	-	www.fusionsgroup.com
52	GasMan (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mrs. AbidaKhurshid Chief Exclusive	-	051-2255048, 2255148	051-2255948	House # 12, Street 32/1, F- 8/1, Islamabad	-
53	GEMS AND GEMOLOGICAL INSTITUTE OF PAKISTAN	GEMS	GovtDept	-	ggipeshawar@yahoo.com	(+92-91) 9213303, 9213196, 9213197	(+92-91) 9213198	Suite # 209, 1st Floor, Benevolent Fund Building, Saddar Road, Peshawar - Khyber PakhtoonKhuwa – Pakistan	www.ggip.com.pk/
54	Geofizyka Krakow Limited	Oil & Gas	Private Company	Dr Ivan Vrubei (Country General Manager)	gkoffice@dsl.net.pk /Gkoffice@dsl.net.pk	92(51)2262608, 2261016	92(51)2251829	Park Road, F-8/2 Islamabad.	-
55	Global Gas International (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Muhammad Saeed Chief Exclusive	-	051-5464062, 5464063	051-2293616	H . # 297, Street 59-A, F-10/3, Islamabad.	-
56	GO Pakistan (Gas & Oil Pakistan Pvt. Limited)	Oil & Gas	Govt	-	info@gno.com.pk	(+92) 42 3864 0618	-	3rd Floor, 19J CCA, DHA Phase 5, Lahore,	www.gno.com.pk
57	Golden Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	ShahbazAftab Khan Chief Exclusive	-	042-6653894-6, 5726804, 042-5726805	042 -6655560 -1	45-CMA Colony, AbidMajeed Road, Lahore-Cantt.	-
58	Government Holdings (Private) Limited (GHPL)	Oil & Gas	Govt	KhushidAnwer (Managing Director /Chief Executive Officer)	ka@ghpl.com.pk/ash z@ghpl.com.pk/	92(51)9268895, 9266649, 9266766	-	House # 9, Street # 29, F- 10/1, Islamabad, Pakistan	www.ghol.com.pk
59	Halliburton	Oil & Gas	Private Company	Rick Stewart (Operations Manager)	rick.stewart@halliburton.com	0(092)300-5010092 92(51)4444951-2,	92(51)4439046	Plot No. 18-20, Industrial Area J-9/2 Islamabad	-
60	Hannan corporation	Marble	Private Company	Mr. KhurramRangoo nwala CEO	-	-	-	1-D25/26 MangopeerRoad QasbaMerville,Karachi.	-
61	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
62	Hi- Tech Alternative Energy System	Solar Energy	Private Company	-	hitech@cyber.net.pk	0092-21-3521 2315/ 3562 1864,	+92-21-3562 1869	Ground Floor, Hotel Royal City Building Samad Road, Near Regal Chowk Saddar,karachi- 74400,Pakistan	www.hitech.com.pk
63	Hycarbex Inc.	Oil & Gas	Private Company	Dr. IftikharZahid (President /Chief Executive Officer)	hypak@comsats.net. pk/amel@mail.comsats.net.pk	92(51)2855713-4, 2853052, 2853152	92(51)2855717	House #3 Street 32, F 8/1, Islamabad	-
64	Indus Mining Company Peshawar	Mining	Private Company	Mr. ShahidR. KhanCi ef Executive,	Indus_mining@hotmail.com	091-9214074/091-9214046	091-9214046	House No. 74, Street No. 4, Sector K-5,Phase- 3,Hayatabad Peshawar	-
65	Innosol	Energy	Private Company	Muhammad AbdurRahman (MD)	md@innosol.pk	0092-51-2538347, 0092-333-5533362	-	4-D 1st Floor Mahmood Plaza Fazal-ul-Haq Road Blue Area Islamabad	www.innosol.pk

Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
66	Inter State Gas Systems (Private) Limited	Gas	Private Company	-	mail@isgs.pk/ ipr@isb.paknet.com.pk	051-9267672-74	051-9267671	517, Main Margalla Road, F-10/2, Islamabad	www.isgs.pk
67	IPR Trend Oil Corporation	Oil & Gas	Private Company	Wasim A. Zuberi (General Manager)	iproc@isb.comsats.net.pk, ipr@isb.paknet.com.pk	92(51)2871501-3	92(51)2871504	52-East, Dodhy Building, 3rd Floor, Jinnah Avenue, Blue Area, Islamabad	-
68	Iqra Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Zulfiqar Ali Chief Exclusive	-	055-3842900, 6818247 - 48 0300-6404991	055 -3843600, 6818242	21-Km, Lahore Side, G.T Road, Kamoke, District Gujranwala.	-
69	Irfan Orient Arts & Crafts,	Marble /Handicrafts	Private Company	-	Iranorientact15@yahoo.com	0336-3049620	-	F-959/3, WAPDA Labour Union Hall, KhokhMuhallahGariKhata, Hyderabad	-
70	Khalil Corporation	Mutli Sector	Private Company	-	mail@khalilcorporation.net, yaallah@cyber.net.pk	92-21 3438 4441 & 438 4442/ 92-300) 824 6586	92-21) 3520 6474 - 3438 4446 - 7	uite No. 1010, Kawish Crown, Main Shahrarh - e - Faisal, Karachi - 75350, Sindh, Pakistan	www.khalilcorporation.net
71	Khyber Energy (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Muhammad Ishaq Khan Chief Exclusive	-	091-5260618	091 -5260372, 5274705	Off. No. 19, Cantonment Commercial Complex, Fakhr-e-Alam Road, Saddar Peshawar.	-
72	Kirn Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Ch. Mohammad Rafique Chief Exclusive	kingas@yahoo.com	042-7579950, 7591328 7591797 : 03334264372	042 -7591698	14-Taj Arcade, Jail Road, Lahore.	www.kingas.com/
73	Kotal Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Ameer Nawshad Chief Exclusive	-	051-2878416	051-2874795	No. 210, 1st Floor, Shahid Plaza, Blue Area, Islamabad.	-
74	Links International (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Ijaz Muhammad Khan Chief Exclusive	-	042-5321461-5	042- 5321324-5	1-Km Bhoptian Chowk, Defence Road, Off Raiwind Road Lahore.	-
75	LMK Resources	Oil & Gas	Private Company	Atif Rais Khan (President & CEO)	office@lmkr.com,	92(51)111-101-101	92(51)2879854, 2879855	300, Software Technology Park 1, Evacuee Trust Center/Sir Agha Khan Road, F-5/1 Islamabad - 44000	-
76	LPEB Fedco Co-Sail (JV)	Oil & Gas	Private Company	-	-	-	-	-	-
77	Lub Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Iqbal Z. Ahmed Chief Exclusive	-	042-6306106&08, 6368844, 051-2652727 & 2652728	042 -6368742	7-Egerton/Kashmir Road, Lahore.	-
78	Madni Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mian Muhammad Mukhtar Chief Exclusive	-	042-5850027 0333-4708408	042 -5850027, 042-5893608	Al-Haider Tower 72-CCA, Phase 4, DHA, Lahore.	-
79	Makran Gas & Oil Co (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Major (R) Azizullah Khudadad Dashti Chief Exclusive	-	0852-611237, 413264 0321-8091101, 2, 4	0852-413884	Pasni Road Turbat District Kech, Balochistan.	-
80	Marble/ Slabs Marmonyx.	Marble /Slabs	Private Company	Mr. Haroon Rashid, Director	haroon@marmonyx.com	0092-21-6976381/0300-8228982	009221-4375706	504 Windsong Place, Block 7 & 8, KCHS, Karachi	www.marmonyx.com
81	Mari Gas Company Limited	Oil & Gas	Private Company	General (Retd.) Imtiaz Shaheen	info@maringas.com.pk k/info@maringas.co	92(51) 111-410-410, 2297683-86	92(51)2297680	Plot no 21, Mauve Area, 3rd Road, Sector G-10/4,	www.maringas.com.pk

Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
				(Managing Director)	m.pk			Islamabad	
82	Mari Petroleum Company Limited	Petroleum	Private Company	-	info@mpcl.com.pk / info@mpcl.com.pk /	(+92) 051 111-410-410, (+92) 051 2352853/(+92) 051 2352857, (+92) 051 2352861	(+92) 051 2352859	21, Mauve Area, 3rd Road, G- 10/4 P.O. Box 1614, Islamabad – 44000	www.mpcl.com.pk
83	Marina Industries,	Marble	Private Company	Mr. Abdul Hameed Shera Chief Executive Officer,	marinaindus@yahoo .com	92- 021-2577490 / 0300- 9233819	-	M-1/1, HasratMohani Colony S.I.T.E., Karachi	-
84	Marina Marble & Granite	Marble & Granite	Private Company	Mr. AbdulHameedSh era CEO,	Marina_indus@hotmail .com, Marina_indus@yahoo o.com	0092-345- 3165979/32563897, 32577490	0092-21- 3256419	Plot# M-1 HasratMohani colony, SITE, Karachi	www.marinaindustries.co m
85	Marshall Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Syed Asghar Ali Shah Chief Exclusive	-	021-4322677-8, 2033000	021 -4322677	Suite # 11, 2nd Floor, Kehkashan Mall, Block -2 P.E.C.H.S, Tariq Road, Karachi.	-
86	Mecom Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Abdul Wahid Chief Exclusive	-	021-5894428, 5894429.	021 -5894432	9-C, 13th Commercial Street Phase-II, Ext DHA, Karachi.	-
87	Mehran LPG (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	QaziHamayunFare ed Chief Exclusive	-	042-6306106&8, 6368844,051-2652727 & 2652728	042 -6368742	7-Egerton / Kashmir Road, Lahore.	-
88	Mehran Marble Industries	Marble Industries	Private Company	Mr. MuhammadArif CEO	sales@mehranmarbl e.com	0092 (312) 669 3333/ +92 322 200 8493	-	1D9/3 ManghopurRoad ,QasbaMoteroville, Karachi.	www.mehranmarble.com /
89	Memon Marble Industries	Marble	Private Company	Mr. Khurum Ibrahim CEO	memonmarble@yah oo.com	0092-321 9257708/ 03009257708/ 021- 36661134-36669585	-	1-D 9/32 MangopeerRoad ,QasbaMetrville,Karachi.	www.memonmarble.com/
90	Mesa Petroleum (Pvt.) Ltd.	Oil & Gas	Private Company	Muslim Lakhani (Chairman & CEO)	mlakhani@mesa.co m.pk	92(51)2654146-47	92(51)265414 8-49	324, Hillside Road, E -7, Islamabad Pakistan.	-
91	Ministry Of Petroleum & Natural Resources	Petroleum	Govt	-	info@mpntr.gov.pk/ info@mpntr.gov.pk/s ecretary@mowp.gov .pk/	+ (92-51) 9210220	+ (92-51) 9206416	Room No. 301, 3rd Floor, A block Pak Secretariat Islamabad.	www.mpntr.gov.pk
92	Ministry of Water & power:	Electricity	Govt	Dr. Musadik Malik Federal Minister	info@mowp.gov.pk/s ecretary@mowp.gov .pk/	0092-51-9212442/0092- 51-9210533	0092-51- 9224825	Room No. 201-204, 2nd Floor, A Block Pak Secretariat	www.mowp.gov.pk
93	MND Exploration & Production Limited	Oil & Gas	Private Company	Alamgir Khan (General Manager)	mnd@isp.comsats.n et.pk /alamgir@mnd.com. pk	92(51)2651959, 2651884	92(51)265187 5	House 236, Street 11, Sector E-7 Islamabad	-
94	MOL PAKISTAN	Oil & Gas	Private Company	-	-	(+92) / 51111665725	(+92) / 512820113	Plot No. 5/A, Crown Plaza, F- 7 Markaz, P.O.Box 1562	www.molpakistan.pk
95	Muhammadi Gas Company (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Amir Khurshid Chief Exclusive	mgc@dsl.net.pk	051-2255048, 2255148	051 -2255948	House # 12, Street 32/1, F- 8/1, Islamabad	-
96	Nano Bio-Solutions	Bio Tech	Private Company	Dr. ZafarAtfar	Info@nanobiosolutio n.com	0092 51 250 5983	0092 51 486 4301	3 <sup>rd</sup> Floor, Park 1, Constitution Ave F-5/1, Islamabad, 44000, Pakistan	www.nanobiosolution.co m
97	National Engineering Corporation	Solar Energy	Private Company	-	nec@cyber.net.pk	0092-21-32788336	-	202 Sea Breeze Plaza, MainShahrah-e-Faisal, Karachi - Pakistan	-
98	National Fertilizer Corporation of	Fertilizer	Private Company	Mr. Muhammad Khalid Malik	-	(042) 6284983 to 88	(042) 6284989	1st Floor, Alifiah Building (Tail Wing) Shahrah-e-Quaid-e-	-

Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
	Pakistan (Private) Limited							Azam Lahore, Pakistan	
99	National Gases Ltd	GAS	Private Company		info@natgases.com, sales@natgases.com, customerservices@natgases.com	0092-21 111-201-202, 0092-21-2551453-58	0092-21-2561335	F-74/A, S.I.T.E. P.O. Box No. 3647, Karachi - 75700, Pakistan	www.natgases.com
100	NATIONAL TRANSMISSION & DESPATCH COMPANY (NTDC) LIMITED PAKISTAN	Electricity	Govt	Mr. Khalid Mohtadullahchairman	hr@ntdc.com.pk /	92(042) 99201020-2283,	-	Room No: 419 - WAPDA House, The Mall, Lahore, Pakistan.	www.ntdc.com.pk
101	Nativus Resources Limited	Oil & Gas	Private Company	Javed Ahmad (Resident Director)	nativus@isb.paknet.com.pk /nativus@isb.paknet.com.pk	92(51)2291033, 2100605, 2212339, 2102065, 2102066	92(51)2102067	148, Street # 48, F10/4, Islamabad	-
102	NEC	Solar Energy	Private Company	-	nec@cyber.net.pk	0092-21-32788336	-	202 Sea Breeze Plaza, Main Shahrah-e-Faisal, Karachi - Pakistan	-
103	Nemmoco Petroleum Limited	Oil & Gas	Private Company	S. MunsifRaza (Chief Executive / Managing Director)	info@ppl.com.pk/m-raza@ppl.com.pk/	111-568-568,	92(21)5680005, 5682125	4th Floor, P.I.D.C House, Dr. Ziauddin Ahmad Road, Karachi 75530, Pakistan.	www.ppl.com.pk,
104	New Horizon Exploration & Production Limited	Oil & Gas	Private Company	Syed WamiqAbrarBokhari (Chairman & CEO)	info@nhpl.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.	-
105	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 Cowl, Banigala, Islamabad	www.nexton-group.com
106	Noor LPG Co. (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	BelalJabbar Chief Executive	info@noorlpg.com	042-5761187, 5873698	042 -5750560	House # 8, 7-Aziz Avenue, Canal Bank Road GulbergV, Lahore.	www.noorlpg.com
107	Nortech Surveys Pakistan Limited	Oil & Gas	Private Company	ZafarIqbal (Director)	Pep@isb.paknet.com.pk, /	92(51)22990025, 2299028, Mob: 92(300)8555191	-	House No 66, Street 25, F-10/1 Islamabad	www.shahzadintl.com.pk
108	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
109	Oil & Gas Development Company Limited	Oil & Gas	Govt	-	info@ogddl.com/	0092-51-9209811-18/0092-51-2623101-06	0092-51-2623113- 18	Plot No.13, Jinnah Avenue, Blue Area Islamabad	www.ogddl.com
110	Oil & Gas Development Company Limited (OGDCL)	Oil & Gas	Govt	Arshad Nasr (Chairman & Chief Executive Officer)	info@ogddl.com /www.ogddl.com/ceo @ogddl.com	92(51)9209811-8	92(51)9209804-6	OGDCL House, Plot No .3, Block P Jinnah Avenue, Blue Area, Islamabad	-
111	Oil & Gas Investment Limited (OGIL)	Oil & Gas	Govt	-	-	92 21 3530-2963-65/92 21 3530-2967-78	92 21 3586-1662	Oil and Gas Investment Limited 508, 5th Floor Continental Trade Centre, Block-8 Clifton, Karachi-75600, Pakistan	www.ogil.com.pk
112	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

Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
113	Oil Industries Pakistan (Pvt.) Limited	Oil Industries	Govt	-	info@targetlubricants.com	0092-21-34549016-17-18	0092-21-34549015	228-A, Block-2, P.E.C.H.S., Karachi, Pakistan.	targetlubricants.com
114	OK Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Rehmat Khan Chief Exclusive	-	P: 051-4102016	051-4102096	House No. 503 -A, Street No. 67, Sector I-8/3, Islamabad.	-
115	OMV (Pakistan) Exploration G.m.b.H.	Oil & Gas	Private Company	Dr. Georg Wachtel (General Manager)	.wachtel@omv.com/	92(51)20899/111-668-668/2273620	92(51)227364 3-2273644	5th Floor, UBL Building, Jinnah Avenue, F-6/1, Islamabad, Pakistan	www.omv.com
116	OPI Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Murtaza Hashwani Chief Exclusive	-	051-2273451	051-2273392	House # 21-B, Street 55, F-7/4, Islamabad	-
117	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
118	Orient Petroleum International Inc.	Oil & Gas	Private Company	Mr. Sadruddin Hashwani (Chairman)	orient@opli.com	+92(51)2274261-68	+92(51)2274244	Hayat Hall, Block No.2, Diplomatic Enclave No. 1, G-5, Islamabad	-
119	Paige Limited	Oil & Gas	Private Company	Javed Ahmad (Country Manager)	Paige@isb.paknet.com.pk/paige@isb.paknet.com.pk	92(51)2100605, 2212339, 2103128-9	92(51)2214475	148, Street # 48, F 10/4, Islamabad	-
120	Pak-Arab Refinery Limited. (PARCO)	LPG MARKETING COMPANIES	Private Company	Mr. Muhammad Rasheed Jung Chief Exclusive	-	021-5090100-13.021-5090114-25	021-5090625, 5090929	Corporate Headquarters, Korangi Creek Road P.O. Box No. 12243, Karachi	-
121	Pakistan GasPort Limited	GAS	Govt	-	-	-	+92 42 3636 8742	-	www.ag.com.pk/pakistan-gasport/
122	Pakistan Institute of Engineering & Applied Sciences (PIEAS)	Education	Academic Institutions	-	registrar@pieas.edu.pk/webmaster@pieas.edu.pk	0092-51-2207381/+92-51-2207382/92-51-2207383/+92-51-2207384	0092-51-2207380 /+92-51-2207381/+92-51-2207382/92-51-2207383/+92-51-2207384	P.O. Nilore, Islamabad Pakistan	www.pieas.edu.pk
123	Pakistan Oilfields Limited	LPG MARKETING COMPANIES	Private Company	Sajid Nawaz Chief Exclusive	polcms@pakoil.com.pk	051-5487589-96	051-5487599	POL House, Morgah, Rawalpindi.	www.pakoil.com.pk
124	Pakistan Oilfields Limited	Oil & Gas	Private Company	Shuaib A Malik (Chairman)	polcms@isb.paknet.com.pk	92(51)5487589-97 /92(51)5487562	92(51)548759 8-99	POL House, Morgah, Rawalpindi	-
125	Pakistan State Oil Company Limited.	Oil Marketing Companies	Govt	Mr. Irfan K. Qureshi, Managing Director	taaluq@psopk.com	021-111-111-776/ (92 21) 99203866-85	(92 21) 99203835	PSO House, Khayaban-e-Iqbal P.O.Box-3983, Karachi-75600	www.psopk.com
126	Pakistan Stone Development Company	stone	Govt	Mr. Ihsanullah Khan Chief Executive	info@pasdec.com.pk	(92 51) 9263465-7/ 9261633-36	(92 51) 9263664	Chamber of Commerce Building, Mauve Area, G-8/Islamabad.	www.pasdec.com.pk
127	Pakistan's First Fully Integrated LPG Company	Petroleum Gas	Govt	-	progas@progas.cc	(92 21) 472 0077, 472 0079	(92 21) 472 0075	Progas Pakistan Limited NWZ/JP-305/A4 LPG Area) North Western Industrial Zone Bin Qasim Karachi.	www.petrosin.com
128	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	051-2275576	98-A, F/6-2, Margallah Road, Islamabad. Rawalpindi.	www.parco.com.pk/ppg
129	Petro Search (Pvt.) Ltd., PSL	Oil & Gas	Private Company	Shahid Ahmed (Managing Director)	Shahid1407@gmail.com	92(51)2103594, 2103593	92(51)229403 4, 2103594	Fiat # 76, Park Towers, Studio Apartments, F-10/3 Islamabad.	-



Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
130	Petroleum Consultant International (PCI)	Oil & Gas	Private Company	Safraz U. Siddiqui (Chief Executive)	info@petroconpak.com/	92(51)2299198, 2102999	92(51)2296789	House 87, Street - 14, Sector F-11/1, Islamabad	www.petroconpak.com
131	Petroleum Exploration (Pvt) Ltd	Oil & Gas	Private Company	Zaheeruddin (Chairman & CEO)	pepl@isb.com.pk, /	92(51)2299031-36	92(51)2299027-29	15 Nazimuddin Road, Sector, F-10/4, Islamabad, P.O. Box-1440	www.shahzadintl.com.pk
132	Petroleum Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mrs. Farida Tariq Chief Executive	-	: 042-5873698	042-5750560	House # 8, 7-Aziz Avenue, Canal Bank Road, Gulberg V, Lahore	www.petroleumgas.com.pk
133	PetronasCarigali (Pakistan) Ltd., (PCPL)	Oil & Gas	Private Company	MohdArifinDaud (General Manager)	mariffin_daud@petronas.com.pk /akhan@imkr.com	92(51)111-538-111/92(51)2097120	92(51)2277997	508, Evacuee Trust Center, Agha Khan Road, F-5/1, Islamabad	-
134	Petrosin Gas Pakistan (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	SohailLatif Chief Executive	mail@petrosin.com	051-2829027	051-2825524	82 (115), Attaturk Avenue (Embassy Road), G-6/3, Islamabad.	www.petrosin.com/pgp.asp
135	Pioneer Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Khurram Khan Chief Executive	info@pioneerlpg.com	042-7222519-20	042-7226348	Ground Floor, Co-operative Insurance Building, 23-The Mall, Lahore.	www.pioneerlpg.com
136	Polish Oil & Gas Company Pakistan Branch, (POGC)	Oil & Gas	Private Company	JacekOleksy (Resident Manager)	pogc@comsats.net.pk /jopogc@mail.comsats.net.pk	92(51)2251530, 92(51)2654591-392(51)2654589, Mob: 0(092)300-8555611	92(51)2654594	House # 321 Street # 17, Sector E-7 Islamabad.	-
137	Power Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Muhammad Ali Haider Chief Executive	-	021-5689243-4	021-5689212	305, Progressive Plaza, Beaumont Road, Civil Lines Karachi.	-
138	Premier KUPPEC Pakistan B.V.	Oil & Gas	Private Company	ZaffarChida (Chief Executive Officer)	mail@pkp.com.pk /zchida@pkp.com.pk	92(51)111-211-311 & 92(51)22514530,	92(51)2251104	House No.2, Street 71, F-8/3Islamabad	-
139	Prime Telecommunication	Telecommunication	Private Company	-	info@prime-telecom.com	0092-42-6370406/ 0092-42-6370406	0092-42-6371330	Office # 11/9, Durand Road, Shimia Complex, Near Queen Mary College, Lahore, Pakistan. 54000	www.primetelecom.com/
140	Pro Gas Pakistan Limited.	LPG MARKETING COMPANIES	Private Company	Abbas Bilgrami Chief Executive	progas@progas.cc	021-111-574-000	021-5823995	Pro Gas House, D-133, Block 4, Clifton Karachi -75600.	-
141	Pyramid Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Muhammad FarooqAzam Chief Executive	-	042-5725781 0300-8478418	042-5775064	W-564, Phase-III, DHA, Lahore.	-
142	Qureshi Gas Company (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Muzaf far Ali Qureshi Chief Executive	-	022-2637656, 2610051 0333-2722508	022-2781530, 2610051	Al-Noor Heights, Shop No. 9, JamshoroRoad,Hyderabad.	-
143	Ravi Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Muhammad Siddique Chief Executive	karachi@crescentse rvices.com.pk	042-6305305, 6371323 - 24	042-6362402	301-B, Lawrence Road, Lahore	www.cresslpg.com/ravi_gase.htm
144	RDC International (Pvt.) Limited	Oil & Gas	Private Company	(Chief Executive Officer)	rdc@hr.paknet.com.pk	92(42)5167820, 92(42)5167975, 92(42)5172514	92(42)5167530	172-M Block ,Model Town Extension Model Town, Lahore	-
145	Renewable & Alternative Energy Association of Pakistan (REAP)	Education	Academic Institutions	Mir Ahmad Shah Executive Secretary	write@reap.org.pk	0092-300-5221718 /+92-51-4100084-85	0092-51-4100083	Plot 140 Street 9, I-10/3 Industrial Area, Islamabad, Pakistan.	www.reap.org.pk
146	Rivaj	Marble Handicrafts	Private Company	Ms. Azra Ahmed,	azra@rivajcraft.com	(92) 0300-8298757/ (92-21) 5823471-72	(92-21) 5661287	18, Khayaban-e-Shaheen, 18, Khayaban-e-Shaheen, Karachi	www.rivajcraft.com/

Sl. #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
147	Rousch (Pakistan) Power Limited (RPPL)	Electricity	Private Company	Abdul Razak Dawood Chairman	site@rouschpak.com / anawaz@saifgroup.com	+92-65-2441572, 2441822-23,	+92-65-2441570,	450 MW Combined Cycle Power Plant Near Sidhnai Barrage, Abdul Hakim, District Khanewal	www.rouschpak.com
148	Sadiq Gas Company.	LPG MARKETING COMPANIES	Private Company	Faizan Tariq Chief exclusive	-	055-3258100, 3258200	055-3257600	76-A, S.I.E # 1, Gujranwala	-
149	Saif Energy Limited	Oil & Gas	Private Company	Ahmed Nawaz Khan (President)	Saifenergy@saifgroup.com /anawaz@saifgroup.com	92(51)2870361-3	92(51)2870365	2nd Floor, 2020-Kulsum Plaza, Blue Area Islamabad	-
150	SAM Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mrs. Bushra A. Ahsan Chief Exclusive	-	042-6278882, 6286528	042-6366435	Azmat House, 32-Davis Road, Lahore	-
151	SANCO	Marble /Slabs	Private Company	Mr. Sana ullah Khan/Chief Executive Office,	info@sancomarble.com, sanco@inbox.com	0092- 21-65533838 /0332-225555	0092-21-4960416	B-18 Block -3, Gulshan-e-Iqbal, Post Code # 75300 Karachi	sanco.aurasourcing.com
152	Sangi Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	MasoodSadiq Malik Chief Exclusive	-	051-2829586-87, 7128081	051-2829587	Office # 03, Hill Road, F-6/2, Islamabad	-
153	Sarhad Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	TauseefGillani Chief Exclusive	-	051-2871134	051-2871135	Suite No. 4, Mezzanine Floor, Sethi Plaza, Jinnah Avenue, Main Blue Area, Islamabad.	-
154	Saudi Energies (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	ShahidFarrukh Chief Exclusive	-	042-7241072-3	: 042-7241074	Ghani Chambers – Patiala Ground Link McLeodRoad,Lahore	-
155	Sehwan Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	IshtiaqAsif Chief Exclusive	-	042-5323164+65	042-5322437	1/2 Km BhopianChowkDefence Road, Orf-Raiwind Road, Lahore.	-
156	Shabir Marble Works	Marble	Private Company	Mr.AslamShaif CEO	-	021 2562291	-	Plot# A- 52 Wliayatabad,Manghopir Road Karachi.	-
157	Shaheen Gas Company.	LPG MARKETING COMPANIES	Private Company	MushtaqArif Chief Exclusive	-	0300-8737233	-	6-A, Gulgasht Colony, Multan.	-
158	Shaheen Group of Companies	Solar Energy	Private Company	-	info@shaheensolar.com	0092- 427211390 - 92427359666 - 92427320798 - 923008442237	+92 42 7228459	Shaheen Solar Company &Shacho Electronics 16-Hall Road (Electronics Parts Market)	www.shaheensolar.com
159	Shaz Services.	Electricity	Private Company	-	info@shazservices.com	0092 21 4390032-33, 4302647-48, 4559031, 0092 300 8223644 , 0092 333 3376651	0092 21 4559032	A-376, K.A.E.C.H.S Block 9, Main Shaheed-e-Millat Road, Karachi.	www.shazservices.com
160	Shell Development & Offshore Pakistan B.V	Oil & Gas	Private Company	Brendon Connolly (Asset General Manager)	brendon.connolly- gec@gec.shell.com	92(51)2823136, 2823573, 2271432, 227615/0971(4) 3350335	92(51)2228584	House 80,Khayaban-e-igbal, F-6/2 Islamabad	-
161	Shell Gas LPG (Pakistan) Limited	LPG MARKETING COMPANIES	Private Company	FawziatKazmi Chief Exclusive	-	021-5301270	021-5301673	Suite # 606-608, 6th Floor, The Forum, Block -9, Clifton, Karachi	-
162	Shell Pakistan Limited,	Oil Marketing Companies	Private Company	Mr. Zaivij Ismail Bin Abdullah, Chairman	natasha.qamar@shell.com, generalpublicenquiries-pk@shell.com	0092 (21) 111-888-222 - 021-5689525/26	0092 (21) 3563-0110 - 021-5660071	Shell House, Ch.Khaliquzaman Road, Karachi.	www.shell.com.pk

Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
163	Sindh Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Yawar Abbas Mandani Chief Executive	-	021-2421956	021-2414203	11, Karachi Chamber of Commerce & Industry Awan-e-Tajarat Road, Karachi.	-
164	Solar Line Adaptive Technologies (PVT) LTD.	Solar Energy	Private Company	S. Abdul Aziz Mehboob (Director)	info@adaptive-com	(92-21) 35865896, 35868044	-	Suite # 3, 4th Floor Dean Arcade, Block - 8, Clifton, Karachi-75600, Pakistan	www.adaptive-tec.com
165	Solar System Karachi.	Solar Energy	Private Company	Saqib Murtaza	sales@solarsystems-pk.com	92-21-35830127	92-21-35373020	G23 A/1 Park Lane Clifton Block 5, Karachi, Pakistan 75600	www.solarsystems-pk.com
166	South Asia Geophysical Services (SAGeo)	Oil & Gas	Private Company	Chen Zhicun (General Manager)	mail@bgpsouthasia.com/chenzhicun@bgpsouthasia.com	92(51)2293494-95 /0(092)300-8562986,	92(51)2108176	House No.2, St No.58, F-10/3, Islamabad	-
167	SRE Solutions	Solar Energy	Private Company	Mr. Saadat Hayat Khan (CEO)	Info@solarmagicbox.com	021 32046383 /35388736	-	Shop no 3 Street 11 commercial Area DHA Phase 7	www.solarmagicbox.com
168	SS ENGERGY	Energy	Private Company		ss.energypk@gmail.com, info@ssenergy.com.pk	0092-323-5252-814, 0092-323-5252-814	0092-42-3722-7572	82-Nishiter (Branderth Road) Lahore-54000 (Pakistan)	www.ssenergy.com.pk
169	Stone Marks	Marble	Private Company	Mr. Shahnawaz, Director	khan_and_brothers@yahoo.com	0092-051-2113646 /0344-3151468	-	Suit No.11, Millat Plaza F-10, Markaz, Islamabad.	-
170	Sun Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mr. Junaid Khan Chief Executive	-	051-111-666-999,2654242-4	051-111-444-999,2654245	279, St. 21, E-7, Islamabad.	-
171	Super Star Gas Company Pvt. Limited.	LPG MARKETING COMPANIES	Private Company	Cap. (R) Basharat Ahmed Ti (M) Chief Executive	-	051-2291003, 2292860	051-2113039	18-A / 18-B, Super Star Plaza G-10 Markaz, Islamabad	-
172	SYNDICATE Mineral Export Company	Mineral	Private Company	Mr. Nazim Hashwani CEO	harec@hashgroup.com	(9221) 2412946-2416725 & 2411874/ 49/ (+92-21) 32424776, 32413367	(9221) 2416725	108-Cotton Exchange Building ,Ichunrigar Road Karachi.	www.hashgroup.com
173	Synergy Resources (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	AhsanLatif Chief Executive	-	042-5380236/8	042-5380237	17-C/2, Gulberg 3, M.M. Alam Road, Lahore	-
174	Target Engineering Enterprise	GAS	Private Company		iqbalyasir7@gmail.com	0092-300-4246129		Century Tower KaimaChowk Lahore	
175	Techno Petroleum (Pvt.) Ltd	Oil & Gas	Private Company	Abid Ali (Chief Executive Officer)	techno@isb.comsats.net.pk /CEO@tech_engg.com.pk	92(51)2873779, 2275514/ 92(51)2275514/0(092)300-8555524	92(51)2201661	House 30, Street 19, F-6/2, Islamabad.	www.tech_engg.com/
176	Terra Energy (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Farasat Ali Chatta Chief Executive	info@terraenergy.com.pk	042-6280024	042-6280023	Suite 426, 4th Executive Floor, Sadiq Plaza, 69 The Mall, Lahore	www.terraenergy.com.pk
177	Tez Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	FarooqIftikhar Chief Executive	-	042-5847791-92, 5856809.	042-5847793	116-C, Model Town, Lahore	-
178	The Attock Oil Company Limited	Oil & Gas	Private Company	Shuaib A. Malik (Chief Executive)	-	92(51)2270542, 92(51)2270546, 92(51)2270544	92(51)2270541	House # 6 Faisal Avenue F-7/1, Islamabad	-
179	The Hydrocarbon Development Institute	Education	Academic Institutions	Dr. Asim Hussain Chairman	hdp@apollo.net.pk	+(92-51) 925-8301, 925-8302.	+(92-51) 925-8310.	Plot# 18, Street# 6, H-9/1, Islamabad.	www.hdp.com.pk

Sr #	Name	Sector	Type	Contact Person	Email	Phone	Fax	Address	URL
180	The Petroleum Institute of Pakistan	Education	Academic Institutions	Mr. S. Nazeeer Iqbal Secretary	info@pip.org.pk	92(21)35378701-2	(92(21)35378704	1st floor, Federation House, Block V, Kehkashan, Clifton, Karachi - Postal code 75600	www.pip.org.pk
181	The Terminators	Solar Energy	Private Company	-	-	021-35476316	-	104, Yasir Chambers, Opp. PIA Planetarium 13-A, University Road, Gulshan-e-Iqbal Karachi.	-
182	Total-Parco Pakistan Limited	Oil Marketing Companies	Private Company	Mr. Marc Soisson, Chief Executive Officer	-	111-709-709	042-5843535-6	11/1, Block-B, Model Town Lahore.	-
183	TRDP TIED	Solar Energy	Private Company	-	-	92-21-35868791	92-21-35867300	Coordination Office F-178/3, Block-5, Kehkashan, Clifton Karachi, Sindh, Pakistan	-
184	United Energy Pakistan (UEP)	Electricity	Private Company	Tariq Khamisani (President )	queries@uep.com.pk	0092-21-3561-1194	0092-21-3561-634	4th Floor, Bahria Complex 1 24 M. T. Khan Road Karachi - Pakistan.	www.uep.com.pk
185	Wak Limited.	LPG MARKETING COMPANIES	Private Company	Ammar Ahmed Khan Chief Exclusive	info@wakgroup.com	042-5870230-36	042-5877442, 042-5877593, 5877596	135-E I, Gulberg-III, Lahore.	www.wakgroup.com
186	Wakgroup	Multiple	Private Company	-	info@wakgroup.com	92 42 111-66-3333/92 42 5870230-6	92 42 5877442, 92 42 5877596	135 Block E-1, Stadium Road, Gulberg III, Lahore Punjab, Pakistan	www.wakgroup.com/group-of-companies/
187	Wellbeinggreen	Solar Energy	Private Company	-	info@wellbeinggreen.com.pk	0800 - 92477	-	172/P, Third Floor PECHS Block - 2 Tariq Road Karachi	www.wellbeinggreen.com.pk
188	Wyne Gas (Pvt.) Limited.	LPG MARKETING COMPANIES	Private Company	Mrs. Ryda Nabeel Nawaz Chief Exclusive	-	051-7101999, 2878481, 2277607	051-2250835, 2878 482	State Life Building # 5, Phase-II, Ground Floor, Jinnah Avenue, Islamabad - 44000	-
189	Yasin Akram Associates (Pvt.) Limited	LPG MARKETING COMPANIES	Private Company	Muhammad Yasin Chaudary Chief Exclusive	-	051-2277117, 2277473, 2277607	051-2277931	M ezanine, 5-6 Block 106 E, Asif Plaza, F. Haq Road, Blue Area, Islamabad.	-
190	Zaver Petroleum Corporation Limited	Oil & Gas	Private Company	Sadrudin Hashwani (Chairman & CEO)	Zaver@zpcl.com	92(51)283207092(51)2274800	92(51)2823230	SitarPalaza, Block No 3, Diplomatic Enclave NO 1G-5, Islamabad.	www.zpcl.com
191	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	-

SPONSOR'S MESSAGE

**BE FIRST**

TO SHARE YOUR MESSAGE WITH  
THOUSANDS OF ENERGY  
PROFESSIONALS



# ENERGY PROFILES, ENERGY BULLETIN ENERGY MAPS

## Information & Communication Technology Services

- ICT & Business Process Management Consulting
- Telecommunication IN, ISP and other value-added Services
- Enterprise Resource Planning (ERP)
- Management Information Services (MIS) Design and Development
- ICT Solutions Procurement and Contract Management
- Corporate Data and Systems' Protection and Security Services
- Intellectual Property, Copyright Advisory Services
- Business Workflow Integrated Web Portals, Content, and Document Management Solutions & Services
- Corporate Training and LMS/ LCMS Products and Services
- Citrix, Virtual Private Network (VPN) Solutions, Cloud and Grid Computing Services and Solutions
- Biointerfacing and Bioinformatics Solutions and Services
- Emergency & Non-Emergency Call Centers Management
- Social Media Products and Advocacy Services
- Complete Software Development Life-Cycle Management
- Systems Engineering/ Re-Engineer & Legacy Systems Migration
- High Availability Systems Design and Implementation

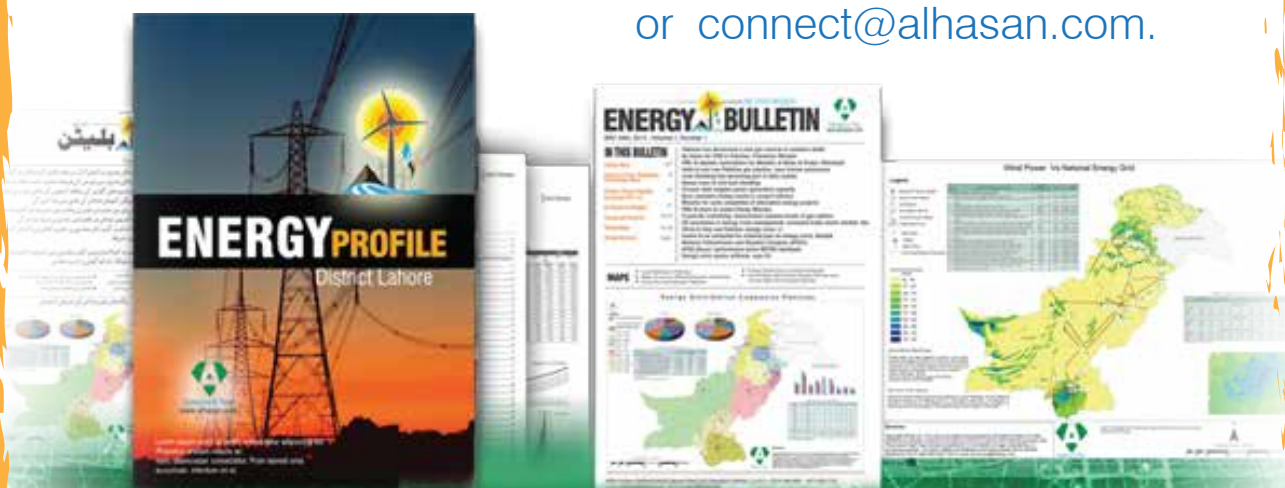
## Geo-Spatial Solutions and Services

- Needs Assessment and Business Development planning
- System Design and Integration Services
- Spatial Information Dissemination & Security protocols Development Services
- Data Conversion, Migration, and Warehousing
- System Design, Engineering, and IT-Centric GIS Applications Development
- Geo-database Design, Development & Implementation
- Data Conversion, Migration, and Warehousing
- GIS, AM, FM, GPS, and Survey Training Products and Services
- GeoMIS Complete Systems Development and Support
- Satellite and Aerial Image Interpretation and Ground Truthing
- Environment Impact Studies
- Geo-Citizens Portal Implementation For Social Change and Protection of Vulnerables
- Disaster Risks' Modeling & Mapping
- Soil & Landuse Mapping

CONTACT US

+92.51.486.5064/ 843.7324

or [connect@alhasan.com](mailto:connect@alhasan.com).



# OPEN ACCESS / OPEN DATA

Right to Information – Making Everyone Accountable

## توانائی بحران کے خاتمہ کیلئے تھری گارجز فرسٹ ونڈ فارم پاکستان کے 49.5 میگاواٹ کے ہواسے بجلی پیدا کرنے کے منصوبہ کے مالی امور کو حتمی شکل دیدی گئی، تھری گارجز کے چیف ایگزیکٹو آفیسر اور متبادل توانائی ترقی بورڈ کے چیف ایگزیکٹو آفیسر کے دستاویز پر دستخط

اسلام آباد (اُردو پوائنٹ اخبار تازہ ترین۔ آئی این پی۔ 18 جولائی۔ 2013ء) ملک میں توانائی کے بحران کے خاتمہ کے لئے تھری گارجز فرسٹ ونڈ فارم پاکستان پرائیویٹ لمیٹڈ کے 49.5 میگاواٹ کے ہواسے بجلی پیدا کرنے کے منصوبہ کے مالی امور کو حتمی شکل دے دی گئی ہے۔ اس سلسلہ میں جمعرات کے روز یہاں وزارت پانی و بجلی میں ایک خصوصی تقریب ہوئی جس میں تھری گارجز فرسٹ ونڈ فارم پاکستان پرائیویٹ لمیٹڈ کے چیف ایگزیکٹو آفیسر وانگ شین لیانگ اور متبادل توانائی کی ترقی کے بورڈ کے چیف ایگزیکٹو آفیسر بشارت حسن بشیر نے منصوبہ کے مالی امور ف، سیکریٹری پانی و بجلی کو حتمی شکل دینے کی دستاویز پر دستخط کئے۔ اس موقع پر وفاقی وزیر پانی و بجلی خواجہ آصف سیف اللہ چٹھہ، تھری گارجز ساؤتھ ایشیا انوسٹمنٹ کارپوریشن کے چیئرمین اور چیف ایگزیکٹو آفیسر وانگ شاؤ فینگ کے علاوہ دیگر اعلیٰ افسران بھی موجود تھے۔ اس موقع پر وانگ شاؤ فینگ نے اظہار خیال کرتے ہوئے کہا کہ چائنا تھری گارجز گروپ نے پاکستان میں قابل تجدید توانائی کے شعبہ میں بھرپور سرمایہ کاری کی ہے جن میں 2000 میگاواٹ کے ونڈ پاور اور 300 میگاواٹ کے شمسی توانائی کے منصوبے شامل ہیں۔ انہوں نے کہا کہ ان کا گروپ پن بجلی کے شعبہ میں بھی سرمایہ کاری کر رہا ہے۔ اس موقع پر وفاقی وزیر پانی و بجلی خواجہ آصف نے اظہار خیال کرتے ہوئے کہا کہ 49.5 میگاواٹ کا ونڈ پاور کے منصوبے سے ہوا سے بجلی پیدا کرنے کے شعبہ سے چین کی سرمایہ کاری کے نئے دروازے کھلیں گے اور ہوا سے بجلی پیدا کرنے کے نئے منصوبے شروع ہوں گے۔ انہوں نے کہا کہ پاکستان کی حکومت قابل تجدید اور متبادل توانائی کے وسائل سے بھرپور استفادہ کے اقدامات کر رہی ہے۔ انہوں نے کہا کہ قابل تجدید توانائی کے شعبے میں تھری گارجز ونڈ فارم کو مکمل تعاون فراہم کیا جائے گا اور حکومت نجی شعبے کے منصوبوں میں سہولت کنندہ کا کردار ادا کرتی رہے گی۔ تھری گارجز ونڈ فارم کے چیف ایگزیکٹو آفیسر وانگ شین لیانگ نے کہا کہ اس منصوبہ سے جون 2014ء تک پیداوار شروع ہو جائے گی جبکہ دوسرے مرحلے میں ہم 50، 50 میگاواٹ کے ہوا سے بجلی پیدا کرنے کے دو مزید منصوبے بھی شروع کریں گے۔

مقدمے کی مزید سماعت 3 ہفتوں کے لئے ملتوی کر دی جبکہ سابق وزیر قانون بابر اعوان نے کہا ہے کہ درخواست گزار خواجہ آصف پہلے وزیر پانی و بجلی کی حیثیت سے استعفیٰ دیں پھر ہی درخواست گزار فریق بننے کا حق رکھتے ہیں۔ چیف جسٹس افتخار محمد چوہدری کی سربراہی میں جسٹس شیخ عظیم سعید اور جسٹس جواد ایس خواجہ پر مشتمل تین رکنی بینچ نے مقدمے کی سماعت کی تو سابق وزیر قانون بابر اعوان اور سابق سیکریٹری قانون سعود چشتی عدالت میں پیش ہوئے۔ دونوں فریقین کے وکیل میاں اسرار نے اپنے دلائل میں کہا کہ بابر اعوان نے کبھی بھی نندی پور پاور پروجیکٹ پر اثر انداز ہونے کی کوشش نہیں کی نہ ہی ان کے باعث پروجیکٹ تاخیر کا شکار ہوا۔ رحمت جسٹس جعفری کمیشن رپورٹ کے کچھ حصوں سے اختلاف ہے ، بابر اعوان نے خواجہ آصف پر اعتراض کرتے ہوئے کہا کہ آئین کے تحت ایک وزارت کبھی دوسری وزارت کے خلاف کھڑی نہیں ہو سکتی۔ جعفری کمیشن رپورٹ میں 15 ارب کی کرپشن میں 3 وزراء کے نام آ رہے ہیں۔ درخواست گزار خواجہ آصف اب وفاقی وزیر پانی و بجلی بن چکے ہیں۔ درخواست گزار پہلے اپنے عہدے سے استعفیٰ دیں۔ اس موقع پر چیف جسٹس نے انارنی جزل کو مخاطب کرتے ہوئے کہا کہ وزیراعظم کی جانب سے نندی پور منصوبے کی تاخیر کی وجوہات جاننے کے لئے قائم کردہ کمیٹی کا کام کہاں تک پہنچا ہے۔ عدالت نے انارنی جزل کو عدالت کی معاونت کرنے اور کمیشن کی رپورٹ جلد از جلد پیش کرنے کی ہدایت کرتے ہوئے مقدمے کی مزید سماعت 3 ہفتوں کیلئے ملتوی کر دی۔

### SPONSOR'S MESSAGE

# BE FIRST

TO SHARE YOUR MESSAGE WITH

## THOUSANDS OF ENERGY PROFESSIONALS

SPONSOR'S MESSAGE

**BE FIRST**

TO SHARE YOUR MESSAGE WITH

**THOUSANDS OF ENERGY  
PROFESSIONALS**



**بجلی کی لوڈ شیڈنگ کیخلاف آج بھی مظاہرے**

لاہور... بجلی کی لوڈ شیڈنگ کے خلاف ملک کے مختلف شہروں میں آج بھی مظاہرے کئے گئے۔ فیصل آباد میں پاور لومز کے مزدور احتجاجاً مرغا بن گئے۔ ملک میں بجلی کی طویل لوڈ شیڈنگ پر عوام سراپا احتجاج ہیں۔ فیصل آباد کے صنعتی سیکٹر میں 8 سے دس گھنٹے کی لوڈ شیڈنگ کے خلاف پاور لومز مزدوروں نے فیض آباد گرڈ اسٹیشن کا گھیراؤ کر لیا۔ مظاہرے میں شریک بعض افراد مرغا بن گئے۔ مظاہرین کا مطالبہ تھا کہ صنعتوں کے لئے چار گھنٹے لوڈ شیڈنگ کا شیڈول بحال کیا جائے۔ ڈیرہ غازی خان میں لوگ 18، 18 گھنٹے لوڈ شیڈنگ کا عذاب جھیل رہے ہیں۔ صبر کا پیمانہ لبریز ہونے پر آج بھی شہر کے مختلف علاقوں میں احتجاج کیا گیا۔ میکو آفس کے باہر احتجاج کرنے والے مظاہرین نے دفتر پر پتھراؤ بھی کیا۔ نوشہرہ میں لوڈ شیڈنگ اور رشکی میں خراب ٹرانسفارمر ٹھیک نہ کیے جانے کے خلاف مردان روڈ پر احتجاج کیا گیا۔ کوہٹ میں بجلی کی بندش کے خلاف لوگ بنوں روڈ پر نکل آئے اور مظاہرہ کیا۔ بنوں میں لوڈ شیڈنگ کے خلاف مظاہرین نے ڈیرہ اسماعیل خان۔ بنوں روڈ بند کردی جس سے سڑک پر گاڑیوں کی قطاریں لگ گئیں۔

**امریکی ادارہ بجلی کیلئے سرمایہ کاری  
کریگا**

(ٹیکنالوجی مائنمز)

کراچی (علی رضا) معروف امریکی ادارہ اوور سیز پرائیویٹ انویسٹمنٹ کارپوریشن پاکستان میں ہوا سے بجلی پیدا کرنے کے منصوبوں کیلئے ۲۸ کروڑ ۸۰ لاکھ ڈالر کی سرمایہ کاری کرے گا، جس سے گھارو کیٹی بندر کے مقام پر ۵۰ میگاواٹ بجلی کی پیداوار کیلئے ٹرہائز لگائی جائیگی۔ منصوبہ کے تحت ان ٹرہائز کی مدد سے سالانہ ۱۳۳ گیگاواٹ فی گھنٹہ مفت بجلی کی پیداوار حاصل ہو گی۔ او پی آئی سی کی صدر اور چیف ایگزیکٹو آفیسر یلزابتھ ایل ٹل فیلڈز کے مطابق منصوبہ کی تکمیل سے پاکستان میں بجلی کی کمی اور توانائی کے شدید بحران پر قابو پانے میں مدد ملے گی۔ امریکی ادارہ برائے بین الاقوامی ترقی یو ایس ایڈ کی رپورٹ کے مطابق پاکستان میں ہوا کی مدد سے ایک لاکھ ۳۲ ہزار میگاواٹ بجلی پیدا کی جاسکتی ہے، جو دنیا بھر میں ہوا سے پیدا کی جانے والی مجموعی بجلی کی پیداوار کے مساوی ہے۔

**سپریم کورٹ کی انٹرنی جنرل کو نندی  
پور پاور پروجیکٹ معاملے کی تحقیقات  
کیلئے وزیراعظم کی تشکیل کردہ کمیٹی  
کی رپورٹ جلد از جلد پیش کرنے کی  
ہدایت، مقدمے کی مزید سماعت  
3 ہفتوں کیلئے ملتوی**

اسلام آباد (اُردو پوائنٹ تازہ ترین اخبار۔ آئی این پی۔ 15 جولائی 2013ء) سپریم کورٹ نے انٹرنی جنرل کو نندی پور پاور پروجیکٹ معاملے کی تحقیقات کے لئے وزیراعظم کی جانب سے تشکیل کردہ کمیٹی کی رپورٹ جلد از جلد پیش کرنے کی ہدایت کرتے ہوئے

میں توانائی کے بحران کو حل کرنے میں بھرپور معاونت دیتے ہوئے تعاون کرے گا۔ تھری گارجز کارپوریشن کے چیئرمین کاؤگوانگ جنگ نے دیامیر بھاشا ڈیم پراجیکٹ میں ٹیکنیکل معاونت دینے کی پیش کش کی اور اس کے علاوہ پاکستان میں پن بجلی کے دیگر منصوبے شروع کرنے میں رضا مندی کا اظہار کیا اس وقت جہلم ہائیڈرو پاور پراجیکٹ پر چین کی ایک کمپنی کام کر رہی ہے اس پراجیکٹ کے تحت 696 میگاواٹ بجلی پیدا ہوگی اور بجلی کی تیاری کا یہ منصوبہ 2015ء تک مکمل ہو گا چین کی تھری گورجز کارپوریشن کیروٹ، کوہالہ اور تونسہ میں بجلی کے اپنے 3 منصوبوں پر کام کر رہی ہے جن کی تکمیل سے قومی گرڈ میں 2 ہزار میگاواٹ بجلی کا اضافہ ہوگا۔ شنگھائی میں پاک چائنا انرجی فورم سے خطاب کرتے ہوئے وزیراعظم نواز شریف نے کہا کہ ان کی حکومت قابل تجدید توانائی خاص طور پر ہوا اور سورج کی روشنی سے بجلی کی تیاری کے منصوبوں میں چینی سرمایہ کاری کا خیر مقدم کرے گی اور پاکستان میں ہوا اور سورج کی روشنی سے 60 ہزار میگاواٹ بجلی پیدا کرنے کی صلاحیت ہے۔ انہوں نے کہا کہ پاکستان میں موجود کونلہ کے 185 ارب ٹن کے ذخائر ایک لاکھ میگاواٹ بجلی پیدا کرنے کے لیے کافی ہیں جو کہ 300 سال تک پاکستان کی توانائی کی ضروریات پوری کر سکتے ہیں۔ انہوں نے کہا کہ تھر میں پائے جانے والے کونلہ کے معیار کو عالمی سطح پر بھی مستند قرار دیا گیا ہے اور کونلہ کے انہی ذخائر کا ایک بڑا ذخیرہ سندھ میں تھر کے علاقے میں ہے۔ وزیراعظم نے کہا کہ پاکستانی حکومت کا قائم کردہ الٹرنیٹو انرجی ڈویلپمنٹ بورڈ چینی سرمایہ کاروں کو تازہ ترین رہنمائی فراہم کرے گا۔ انہوں نے کہا کہ حکومت توانائی کے روڈ میپ پر پہلے ہی کام کر رہی ہے مختصر مدتی منصوبوں سے عارضی طور پر ریلیف کی فراہمی ہوگی تاہم وہ زیادہ تر طویل مدتی حکمت عملی پر کام کر رہے ہیں۔ انہوں نے کہا کہ قدرت نے پاکستان کو سورج کی وافر روشنی اور ہوا سے نواز رہا ہے انہوں نے کہا کہ چین کی تھری گارجز کارپوریشن جھمپیر علاقہ میں ہوا سے بجلی کی تیاری کے منصوبے پر پہلے ہی کام کر رہی ہے انہوں نے توانائی کے شعبہ میں سرمایہ کاری میں پیش آنے والی تمام رکاوٹوں کو دور کرنے کے عزم کا اظہار کیا اور کہا کہ توانائی کا بحران حل کرنا حکومت کی اولین ترجیح ہے چین کی ایک کمپنی 450 میگاواٹ بجلی کی پیداواری گنجائش والے نندی پور پاور پراجیکٹ پر کام شروع کرنے پر رضا مند ہوگئی اور جلد ہی چینی انجینئرز پاکستان جا کر نندی پور پاور پراجیکٹ پر کام شروع کر دیں گے چین اور پاکستان لائن لاسنسر اور بجلی کی چوری میں کمی لانے کے لیے منصوبوں پر بھی کام کر رہے ہیں امید کی جانی چاہیے کہ موجودہ حکومت ملکی وسائل اور چینی حکومت کی معاونت اور غیر ملکی سرمایہ کاری سے بجلی کے بحران پر جلد از جلد قابو پالے گی اور پاکستان اقتصادی صنعتی و معاشی ترقی کی راہ پر دوبارہ گامزن ہو جائے گا۔

پانی سے بجلی بنانے کے منصوبے شروع کئے جائیں، نندی پور پاور پراجیکٹ جلد مکمل کیا جائے گا، آئندہ 25 سال میں لاکھوں میگاواٹ بجلی کی ضرورت ہے۔ ان کا کہنا ہے کہ ہم صرف موجودہ بحران نہیں بلکہ طویل مدتی منصوبے بنا رہے ہیں، ہمیں مستقبل کی طرف دیکھنا ہے، عوام کی مشکلات سے آگاہ ہیں۔

## آبی وسائل کم لاگت بجلی پیدا کرنے

کا ذریعہ ہیں

(ٹیکنالوجی ٹائمز)

لاہور (عامر خان) انسٹیوشن آف انجینئرز نے انسٹیٹیوٹ آف الیکٹرکال اینڈ الیکٹرونکس انجینئرز اور واٹر کے اشتراک سے پانی کے عالمی دن کے حوالے سے سیمینار کا اہتمام کیا جس کی صدارت ممبر (وائر) حسنین افضل نے کی۔ سیمینار کے شرکاء سے اپنے خطاب میں حسنین افضل نے کہا کہ آبی وسائل کم لاگت پن بجلی پیدا کرنے کا بھی بہترین ذریعہ ہیں، جبکہ واٹر نے گزشتہ ایک سال کے دوران پانی کے شعبے میں ۶ منصوبے مکمل کئے ہیں۔ پنجاب ایریگیشن اینڈ ڈریجنگ اتھارٹی (پیڈا) کے جنرل منیجر میاں مقبول احمد نے اجلاس کی صدارت کرتے ہوئے کہا کہ کسان تنظیمیں نہری پانی کی بچت کے طریقے عام کریں۔ سیمینار سے ڈاکٹر اظہارالحق، طاہر بشارت چیمہ، سید خالد سجاد اور امیر ضمیر احمد خان نے بھی خطاب کیا۔ دوسری جانب ایگری اینڈ واٹر کونسل کے زیر اہتمام شرچور کینال سسٹم پر منعقدہ سیمینار سے خطاب میں ایگری اینڈ واٹر کونسل کے چیئرمین محمد اکرم فریدی نے کہا کہ بھارتی آبی جارحیت سے نمٹنے کے لئے ملک میں انٹرنیشنل واٹر لاء کے ماہرین تیار کئے جائیں۔



## چین کی پاکستان کو بجلی بحران کے حل کی یقین دہانی

July 17, 2013 | نمبر نعیم

پاکستان کو اس وقت بجلی کی قلت کے شدید ترین بحران کا سامنا ہے۔ وزیراعظم نواز شریف نے بجلی کے بحران کے حل کو اپنی اولین ترجیحات میں رکھا ہے اور یہی وجہ ہے کہ چین کے حالیہ دورہ میں وزیراعظم نواز شریف نے چینی قیادت اور خاص طور پر چین کی بڑی بڑی کارپوریٹ کمپنیوں کے حکام سے ملاقاتوں میں پاکستان میں بجلی کے بحران کے حل کے لیے انہیں پاکستان میں توانائی بالخصوص بجلی کی تیاری کے شعبوں میں سرمایہ کاری کی دعوت دی ہے جس پر چینی قیادت اور کارپوریٹ کمپنیوں کے ایگزیکٹوز نے وزیراعظم کو بجلی بحران کو حل کرنے کے لیے پاکستان میں بڑے پیمانے پر سرمایہ کاری کی یقین دہانی کرائی اور کہا کہ وہ پاکستان میں پن بجلی کی تیاری کے ساتھ ساتھ کوئلہ، ہوا اور شمسی توانائی سے بجلی کی تیاری کے منصوبوں میں سرمایہ کاری کریں گے جس پر وزیراعظم محمد نواز شریف نے چینی کمپنیوں کے حکام انجینئرز اور عملہ کو مکمل تحفظ فراہم کرنے اور انہیں ہر ممکن سہولیات فراہم کرنے کی یقین دہانی کرائی۔

پاکستان کو اس وقت بجلی کے بحران پر قابو پانے کے لیے جنگی بنیادوں پر کام کرنے کی ضرورت ہے اور موسم گرما کے عروج پر بجلی کا شارٹ فال بعض اوقات 6 ہزار میگاواٹ تک ہو جاتا ہے جس سے نمٹنے کے لیے ملک میں بجلی کی کئی کئی گھنٹے لوڈ شیڈنگ کرنا پڑتی ہے جس سے نہ صرف عوامی زندگی بلکہ معیشت، صنعتی، معاشی سرگرمیاں بھی بری طرح متاثر ہوتی ہیں۔

وزیراعظم نواز شریف نے چین کے اپنے پانچ روزہ دورہ میں اس یقین اور اعتماد کا اظہار کیا ہے کہ توانائی کے شعبہ میں چین نمایاں سرمایہ کاری کرے گا۔ پاکستان مسلم لیگ (ن) کی حکومت نے توانائی کے بحران پر قابو پانے کے لیے توانائی کی نئی پالیسی کو حتمی شکل دے دی تھی تاہم وزیراعظم نواز شریف کے دورہ چین کی وجہ سے اس پالیسی کا اعلان موخر کر دیا گیا تاکہ چینی تعاون اور سرمایہ کاری کو مد نظر رکھتے ہوئے توانائی کی جامع پالیسی کا حکومتی اعلان کیا جا سکے۔ اب حکومت چینی الیکٹرک کمپنیوں کے ایگزیکٹوز اور چینی حکومت کی طرف سے ان پٹ ملنے کے بعد نئی توانائی پالیسی کا اعلان کرے گی اپنے دورہ کے دوران وزیراعظم نواز شریف اور ان کے وفد نے توانائی، ڈھانچہ جاتی، بینکنگ، ریلوے اور ہائی وے بارے مختلف چینی کمپنیوں اور کارپوریشنز کے ایگزیکٹوز اور چینی قیادت کے ساتھ ملاقاتیں کیں جو کہ کامیاب رہیں اور ان میں کئی معاہدوں اور مفاہمت کی یادداشت پر دستخط ہو چکے ہیں۔ وزیراعظم نے کہا کہ دونوں ممالک کی دوستی مشکل اور آزمائش کی ہر گھڑی میں پورا اتری ہے اور دونوں ممالک کے مابین خصوصی تعلقات کئی چیلنجز اور سیاسی قیادت کی تبدیلی کے باوجود مزید مضبوط ہوئے ہیں۔ دورہ کے دوران چین کے صدر اور وزیراعظم نے محمد نواز شریف کو یقین دہائی کرائی ہے کہ ان کا ملک پاکستان

چند ماہ میں لوڈ شیڈنگ میں بڑی حد تک کمی ہو جائے گی، وزیراعظم

(روزنامہ فی ٹاڈاٹ، جنگ)

میرپور آزاد کشمیر... وزیراعظم میاں محمد نواز شریف لوڈ شیڈنگ کے باعث عوام کو مشکلات کا سامنا ہے، نجی شعبے کے منصوبے کی تکمیل سے عوام کی مشکلات کم ہوں گی، کوشش ہے کہ پانی سے بجلی بنانے کے منصوبے شروع کئے جائیں، آئندہ چند ماہ میں لوڈ شیڈنگ میں بڑی حد تک کمی ہو جائے گی، چین میں ہونے والے معاہدوں سے زیادہ اور سستی بجلی مل سکے گی، چیز مین واپڈا کو ہٹانے کا فیصلہ کر لیا، یہی لوگ بجلی بحران کے ذمہ دار ہیں۔ وزیراعظم

نواز شریف نے میرپور میں نجی شعبے کے پہلے ہائیڈرو پاور پراجیکٹ کا افتتاح کر دیا، 215 ملین ڈالر کے اس منصوبے سے 84 میگاواٹ بجلی حاصل ہوگی۔ افتتاحی تقریب سے خطاب کرتے ہوئے کہا کہ بھارت سے بجلی حاصل کرنے کا آپشن موجود ہے، بجلی بحران پر قابو پانے کیلئے پہلے ملکی وسائل کو ترجیح دے رہے ہیں، کئی غیر ملکی اداروں نے نجی شعبے میں منصوبے شروع کرنی کی خواہش ظاہر کی۔ انہوں نے کہا کہ لوڈ شیڈنگ کے باعث عوام کو شدید مشکلات کا سامنا ہے، نجی کمپنی کے منصوبے کی تکمیل پر خوشی ہے، منصوبے کی تکمیل سے عوام کی مشکلات کم ہوں گی، بجلی کی لوڈ شیڈنگ پر قابو پانے کیلئے گوردی قرضہ ختم کر دیا گیا، زیر گردش قرضوں کی بڑی رقم ادا کردی باقی بھی جلد ادا کردی جائے گی، چیز مین واپڈا کو ہٹانے کا فیصلہ کر لیا، یہی لوگ بجلی بحران کے ذمہ دار ہیں۔

نواز شریف کا کہنا ہے کہ چین کے دورے میں بجلی کے شعبے میں بھاری سرمایہ کاری کی یقین دہانی ملی ہے، چین میں ہونے والے معاہدوں سے زیادہ اور سستی بجلی مل سکے گی، آئندہ چند ماہ میں لوڈ شیڈنگ میں بڑی حد تک کمی ہو جائے گی۔ وزیراعظم نے مزید کہا کہ کوشش ہے کہ



عالمی بینک کی رپورٹ بعنوان ”گلوبل ٹریڈنگ فریم ورک“ میں انکشاف کیا گیا ہے کہ روئے زمین پر تقریباً ایک ارب 20 کروڑ افراد کی بجلی تک رسائی نہیں ہے یعنی تقریباً سو ارب انسانوں کے بجلی سے محرومی کا مطلب ہے کہ دنیا کی کل آبادی 7.09 ارب انسانوں میں 17 فیصد لوگ پتھر کے عہد میں رہ رہے ہیں۔ اسی رپورٹ میں کہا گیا ہے کہ بھارت توانائی کی شدید قلت کا شکار ملک ہے۔ کیونکہ اس کی آبادی کے 30 کروڑ 62 لاکھ افراد اب بھی اس بنیادی ضرورت کے بغیر زندگی گزار رہے ہیں۔ اس گھمبیر حقیقت کے باوجود بھارت کی جانب سے پاکستان کو ایک ہزار میگا واٹ بجلی فراہم کرنے پر رضامندی ظاہر کر دی گئی ہے۔ اس سے قبل بھارت نے 600 میگا واٹ بجلی فروخت کرنے کی یقین دہانی کرائی تھی۔

ادھر امریکا نے پاکستان میں توانائی کے بحران کے حل کے لیے نواز حکومت کے ساتھ تعاون پر آمادگی کا اظہار کیا ہے کہ اس مسئلے کو صحیح معنوں میں حل کرنے کے لیے بنیادی اصلاحات کی ضرورت ہے۔ واضح رہے کہ امریکا پاکستان میں بجلی پیداوار کرنے کے کئی منصوبوں میں تعاون فراہم کر رہا ہے جس سے 800 میگا واٹ بجلی نیشنل گرڈ میں شامل ہو چکی ہے اور 300 سے 400 میگا واٹ عنقریب شامل ہو جائے گی۔ لیکن یو ایس ایڈ کے ڈائریکٹر برائے افغانستان و پاکستان ایکس تھیر نے نواز حکومت پر اس تعاون کی شرائط واضح کر دی ہیں کہ بنیادی اصلاحات کے بغیر سرمایہ کاری نہیں ہوگی۔ انھوں نے کہا کہ بد انتظامی کے باعث منگلا اور تربیلا ڈیم کی کارکردگی 50 فیصد رہ گئی ہے، پاکستان کی طویل المدتی معاشی ترقی بھارت اور افغانستان کے ساتھ تجارتی راہداریاں کھولے بغیر ممکن نہیں، ایسا انھوں نے میڈیا سے گفتگو میں کہا ہے۔

مذکورہ بالا صورتحال کے پیش نظریہ امر واضح ہے کہ نواز حکومت کو ورثہ میں ملا ہوا بجلی بحران زبردست چیلنج ہے اور اسے نمٹنے کے لیے تمام تر اقدامات اٹھانے کی کوششیں عروج پر ہیں جس کے لیے اربوں ڈالر درکار ہونے کے علاوہ قرضے فراہم کرنے والے ممالک کی من پسند شرائط بھی قبول کرنی ہوں گی کیونکہ وہ اپنی رقم کی واپسی کا تحفظ چاہتے ہیں۔ ہم پہلے بھی لکھتے رہے ہیں اور ایک مرتبہ پھر تحریر کرتے ہیں کہ پاکستان میں بجلی کے بحران کا ایک حل بجلی کی پیداوار پر آنے والی لاگت کو کم کرنے میں بھی ہے۔

بادی النظر میں تمام تر اقدامات کے نتائج اگلے 5 سال میں سامنے آنے شروع ہو جائیں گے۔ فوری نتائج کے خواہاں زیادہ توقع نہ کریں البتہ حکومتی کوششوں کے نتیجے میں یہ ہو سکتا ہے کہ لوڈ شیڈنگ کے دورانیے میں کچھ کمی واقع ہو سکتی ہے مکمل خاتمہ کے آثار نظر نہیں آتے اب یہ نواز حکومت کی صلاحیتوں پر منحصر ہے کہ وہ کس طرح اپنے انتخابی وعدے کے مطابق بجلی کی مد میں عوام کو سہولت فراہم کرنے میں کامیاب ہوتے ہیں۔

کی گئی ہے کہ متعلقہ حکام کو کارروائی کرنا حکم دیا جائے، دریں اثنا ایڈووکیٹ ایم کوکب اقبال نے ایک اور درخواست کے ذریعے پٹرول، گیس کی قیمتوں میں حالیہ اضافے کو بھی اسلام آباد ہائیکورٹ میں چیلنج کر دیا۔ درخواست میں کہا گیا کہ اس اقدام سے اشیائے ضروریہ کی قیمتیں بڑھ جائیں گی اور عوام پر مہنگائی کا مزید بوجھ پڑیگا۔

### ہندی پور پاور پروجیکٹ : مشینری

#### 3 سال بعد بندرگاہ سے روانہ

(روزنامہ ایکسپریس) کراچی: ہندی پور پاور پروجیکٹ کیلئے درآمد کی گئی مشینری کی کراچی بندرگاہ سے روانگی شروع ہو گئی ہے 3 سال سے بندرگاہ پر پڑے رہنے کی وجہ سے مشینری اور سازوسامان پر زنگ لگ رہا تھا اور بہت سا سامان ٹوٹ پھوٹ کا بھی شکار ہے۔ ہندی پور پاور پروجیکٹ کے بارے میں موجودہ حکومت نے سابقہ دور حکومت میں بھی کئی بار آواز بلند کی تھی۔ حکومت کی خصوصی ہدایت پر مشینری کی پروجیکٹ تک روانگی کی راہ میں حائل رکاوٹوں کو دور کر دیا گیا ہے اور گزشتہ روز سے مشینری کی کراچی بندرگاہ سے روانگی شروع ہو گئی ہے۔ اس موقع پر پری میڈیا سے گفتگو کرتے ہوئے ہندی پور پاور پروجیکٹ کے مینجنگ ڈائریکٹر محمد محمود نے کہا کہ ہندی پور تھرمل پاور پروجیکٹ 425 میگا واٹ بجلی کا منصوبہ ہے، اس منصوبے کو 22 ارب کی لاگت سے 2011 میں مکمل ہونا تھا تاہم سابق حکومت کی ناقص پالیسی کی وجہ سے اس منصوبے کی لاگت بڑھ کر 57 ارب روپے ہو گئی۔

فیسڈر لایا جائے گا۔ فرنس آئل پر چلنے والے تھرمل پاور پلانٹس کو 2 ارب ڈالر کی لاگت سے کونسل پر منتقل کیا جائے گا۔

تاکہ بجلی کی لاگت کم ہو جائے۔ سندھ میں تھرکے کونسل سے 5000 میگاواٹ بجلی پیدا کی جائے گی۔ آئندہ 5 سال میں مقامی وسائل سے بجلی کی پیداوار کے لیے 21 ارب ڈالر کی سرمایہ کاری کا تخمینہ ہے جب کہ 10 ارب ڈالر کی سرمایہ کاری بجلی کی ترسیل اور تقسیم کے نیٹ ورک پر ہوگی، بجلی صارفین کے لیے پری پیڈ بلنگ سسٹم متعارف کرایا جائے گا۔ پری پیڈ بلنگ سسٹم وصولیاں بہتر بنائے گا۔ توانائی کے شعبے میں گردش قرضوں کا مکمل خاتمہ کیا جائے گا۔ سولر ہوا، گنے کے پھوک (بگاس) اور بایو گیس سے بجلی کی پیداوار منصوبوں کو ترجیح دی جائے گی۔

بجلی کی پیداواری اور تقسیم کار کمپنیوں میں اصلاحات کی جائیں گی۔ پانچ سال میں گیس کی پیداوار یومیہ 4.33 ارب معکب فٹ سے 5.12 ارب معکب فٹ تک بڑھائی جائے گی۔ 5 سال میں تیل و گیس کی تلاش کے لیے کھودے جانے والے کنوؤں کی تعداد سالانہ 100 سے بڑھا کر 130 کی جائے گی۔ گیس کی قیمتوں میں توازن لایا جائے گا۔ گیس بحران کے خاتمے تک نئے سی این جی اسٹیشنوں کے قیام پر پابندی ہو گی۔

عالمی بینک کی حالیہ رپورٹ کے مطابق بجلی تک رسائی سے محرومی میں دنیا بھر میں پاکستان کا 16 واں نمبر ہے جس سے ظاہر ہوتا ہے کہ ڈیڑھ کروڑ پاکستانی آج بھی بجلی کی سہولت سے محروم ہیں۔ انھیں کب اور کیسے بجلی فراہم کی جائے گی اسی حوالے سے زیر نظر تحریر میں جائزہ لینے کی کوشش کی جا رہی ہے۔ نواز حکومت توانائی کے بحران پر قابو پانے کے لیے آئندہ مالی سال کے دوران کراچی میں چین کے تعاون سے جوہری بجلی گھر کی تعمیر کا فیصلہ کیا ہے۔ جس سے 1100 میگاواٹ بجلی پیدا کی جاسکے گی۔ ”کراچی کونسل پاور اینڈ کاسٹنگ“ کے نام سے اس منصوبہ پر اخراجات کا مجموعی تخمینہ 9.5 ارب ڈالر (950 ارب روپے) لگائے گئے ہیں۔ جس کے لیے آئندہ مالی سال 2013-14ء کے بجٹ میں 7.5 ارب روپے مختص کیے جائیں گے۔

جب کہ 65 ارب روپے کے غیر ملکی قرضے لیے جائیں گے۔ علاوہ ازیں حکومت چین سے ایک ایک ہزار میگاواٹ کے حامل دونو کلیئر پاور پلانٹ بھی خرید رہی ہے جسے توانائی کے بحران کو دور کرنے کے لیے کراچی نیو کلیئر پاور پلانٹ (کینپ) 2 اور کراچی نیو کلیئر پاور پلانٹ (کینپ) 3 میں نصب کیا جائے گا۔ انرجی سیکورٹی ایکشن پلان کے مطابق بجلی کی پیداوار میں اضافے کے لیے جوہری توانائی پر توجہ مرکوز کرنے کا منصوبہ بنایا گیا ہے۔ 8 کرنے کا فیصلہ کیا ہے۔ جس کے تحت 2030ء تک جوہری بجلی گھر سے

کمپنیوں نے حکومت کو یقین دہائی کرائی ہے کہ فوری طور پر نیشنل گرڈ اسٹیشن میں 1700 میگاواٹ بجلی شامل کر دی جائے گی۔ انہوں نے کہا کہ عوام نے بہتر کارکردگی کی بنیاد پر ہمیں ووٹ دیئے اور جن لوگوں نے کارکردگی نہیں دکھائی ان کو سزا دی، مسلم لیگ (ن) چاہتی تو خیبر پختونخوا میں بھی اپنی حکومت بنا سکتی تھی تاہم ہم نے ایسا نہیں کیا اور تحریک انصاف کو وہاں حکومت بنانے کا موقع فراہم کیا۔

وفاقی وزیر اطلاعات نے کہا کہ ایبٹ آباد کمیشن کی رپورٹ کی تحقیقات ہونی چاہئے اگر یہ رپورٹ مصدقہ ہے تو اس چیز کی بھی تحقیق ہونی چاہئے کہ یہ کس طرح باہر آئی، ان کا کہنا تھا کہ برطانوی وزیراعظم ڈیوڈ کیمرن نے اپنے دورہ پاکستان کے دوران الطاف حسین کے معاملے پر کوئی بات نہیں کی، اگر ڈیوڈ کیمرن اس معاملے میں مداخلت کریں گے تو برطانوی پولیس انہیں بھی گرفتار کر سکتی ہے، وہاں کسی بھی شخص کو بچانا یا چھسانا کسی کے اختیار میں نہیں ہے۔

پرویز رشید نے کہا کہ مسلم لیگ (ن) میں شامل پرویز مشرف کے ساتھیوں نے ان سے قطع تعلق کر لیا ہے اب پرویز مشرف کو بچانے کے لئے کوئی نہیں آئے گا۔ انہوں نے کہا کہ پرویز مشرف کے ساتھ کوئی زیادتی نہیں ہوئی، ان کے خلاف تمام مقدمات عدالتوں میں ہیں اور وہی ان کا فیصلہ کریں گی۔

## پٹرول، گیس کی قیمتوں میں اضافہ

### اسلام آباد ہائیکورٹ میں چیخ

(روزنامہ ایکسپریس)

درخواست گزار ایم کوکب اقبال ایڈووکیٹ نے درخواست میں موقف اپنایا ہے کہ ملاوٹ والی اشیاء سرعام فروخت ہو رہی ہیں لیکن متعلقہ حکام نے کوئی ایکشن نہیں لیا۔ درخواست میں استدعا

## بجلی کا بحران

شبیر احمد ارمان بدھ 17 جولائی 2013

shabbirarman@yahoo.com

ملک میں بجلی کی لوڈ شیڈنگ کا سلسلہ ہر گزرتے دن کے ساتھ بڑھتا جا رہا ہے، پانی اور بجلی کے ستائے ہوئے شہری مظاہرے، نعرے بازی کرنے پر مجبور ہیں اور کچھ دل جلے اس دوران گاڑیوں پر پتھراؤ کر کے ٹریفک معطل کر دیتے ہیں۔ جب کہ اس عمل میں بھی بے قصور لوگوں کا نقصان ہوتا ہے۔ احتجاجی مظاہرین چیخ رہے ہیں کہ ان کے علاقے میں بجلی 12 سے 15 گھنٹے غائب رہتی ہے۔ بجلی کی عدم فراہمی کے باعث ان کے معمولات زندگی بری طرح متاثر ہیں۔

طلباء کی پڑھائی بھی شدید متاثر ہے۔ بجلی نہ ہونے کی وجہ سے خواتین کو امور خانہ داری میں دشواری کا سامنا ہے۔ جب کہ ضعیف العمر افراد کے لیے گرمی پہلے ہی ناقابل برداشت ہے۔ رہی سہی کسر بجلی کی عدم فراہمی پوری کر رہی ہے، بجلی کی لوڈ شیڈنگ کی وجہ سے پانی کی فراہمی بھی معطل ہو کر رہ گئی ہے، علاقہ مکین پانی کی بوند بوند کو ترس گئے ہیں۔ صورت حال کا فائدہ اٹھاتے ہوئے ٹینکر مافیانے بھی نرخ بڑھا دیے ہیں۔ انسانی ضروریات زندگی میں بنیادی جزو کے حامل پانی اور بجلی کی عدم فراہمی نے ان کی زندگی کو دو دھاری تلوار بنا دیا ہے۔ لوگ چلا رہے ہیں کہ ”ان کے علاقے میں بجلی کی فراہمی معمول کے مطابق بحال کی جائے۔“

بجلی کے بحران پر قابو پانے کے لیے ابتدائی مرحلے میں غیر اعلانیہ لوڈ شیڈنگ ختم کی جائے گی۔ ”اگلے مرحلوں میں بحران جلد سے جلد حل کرنے کے لیے تمام وسائل بروئے کار لائیں گے“ ان خیالات کا اظہار وزیراعظم میاں محمد نواز شریف نے وزارت عظمیٰ کا حلف اٹھانے سے ایک دن پہلے یعنی 4 جون کو رائے ونڈ میں توانائی بحران کے حل کے سلسلے میں مشاورتی اجلاس کی صدارت کرتے ہوئے کیا ہے۔ ہماری دعا ہے اللہ تعالیٰ اپنے فضل سے انھیں کامیابی عطا فرمائے۔ آمین۔

واضح رہے کہ نواز حکومت آئندہ 5 سالہ منصوبے کے تحت بجلی پر دی جانے والی سبسڈی کو صرف ماہانہ ایک سو یونٹ تک بجلی استعمال کرنے والے صارفین تک کر دے گی اور گیس بحران کے خاتمے تک نئے سی این جی اسٹیشنز کے قیام پر مکمل پابندی عائد ہوگی۔ منصوبے کے تحت 5 سال میں مقامی وسائل سے 10 ہزار میگا واٹ بجلی کی پیداوار اور اس کی ترسیل اور تقسیم کے نیٹ ورک پر 31 ارب ڈالر کی سرمایہ کاری کا تخمینہ ہے۔ منصوبے کے مسودہ کے مطابق وہ صنعتی صارفین جو 50 فیصد اضافی قیمت دیں ان کو بلا تعطل بجلی کی فراہمی کے لیے الگ ٹیرف متعارف کرایا جائے گا۔ لائن لاسز جو اس وقت 20 فیصد تک ہیں انھیں 10

اسلام آباد: پاکستان میں چین کے نئے سفیر سن وی ڈونگ نے کہا ہے کہ پاکستان اور چین قریبی دوست، با اعتماد شراکت دار اور بھائی ہیں۔

(روزنامہ جنگ)

مستقبل میں ان کے تعلقات مزید مستحکم ہونگے، ایک استقبالیہ سے خطاب میں انکا کہنا تھا کہ پاک چین اچھی ہمسائیگی باہمی اعتماد، تعاون اور طویل عرصے سے ایک دوسرے کا ہر دکھ سکھ میں ساتھ دینے کا نتیجہ ہے، یہ دوستی وقت اور سیاسی تبدیلیوں کے باوجود مستحکم رہی جو ممالک کے درمیان تعلقات کی اعلیٰ مثال ہے، وزیراعظم نواز شریف کے حالیہ کامیاب دورہ چین کا ذکر کرتے ہوئے انھوں نے کہا کہ دونوں ممالک نے دوستانہ اور تعمیری روابط کو فروغ دیا، نئے دور میں پاک چین اسٹریٹجک تعلقات مسلسل مضبوط اور گہرے ہونگے، انہوں نے کہا کہ ہمیں پاکستان کیساتھ دوستی پر فخر ہے جو مضبوط اور خوشحال ملک بنے گا۔ آئی این پی کے مطابق سن وی ڈونگ نے کہا کہ چین ہر قسم پاکستان میں توانائی کی کمی پر قابو پانے میں کی مدد کریگا۔

1700 میگا واٹ بجلی جلد نیشنل گرڈ

اسٹیشن میں شامل ہو جائے گی،

وزیر اطلاعات پرویز رشید (روزنامہ دنیا)

اسلام آباد میں میڈیا سے بات کرتے ہوئے وفاقی وزیر اطلاعات پرویز رشید نے کہا کہ حکومت بجلی کے بحران پر قابو پانے کی ہر ممکن کوششیں کر رہی ہے اسی سلسلے میں سرکلر ڈیٹ کی مد میں پاور کمپنیوں کو واجب الادا رقوم کی ادائیگیاں شروع کر دی گئی ہیں جس کے بعد ان

## القرآن

وَجَعَلَ الْقَمَرَ فِيهِنَّ نُورًا وَجَعَلَ الشَّمْسَ سِرَاجًا

اور ان میں چاند کو خوب چمکاتا بنایا، اور سورج کو روشن چراغ بنایا

.And has made the moon a light therein, and made the sun a lamp

Al-Qur'an, 071.016 (Nooh/ Nuh [Noah])

Ismail ibn Kathir (Arabic: ابن كثير) (1301–1373) - Abu Al-Fida, 'Imad Ad-Din (Kunyah)  
Muslim Muhaddith, Faqih, Mufassir, and Historian

## کاپی رائٹ ۲۰۱۳

الحسن سسٹمز پرائیویٹ لمیٹڈ سکیورٹی اینڈ آپیکس کمیشن کے ساتھ کمپنی آرڈیننس ۱۹۸۴ (XL VII of 1984) کی شق ۳۲ کے تحت رجسٹرڈ ہے۔ الحسن سسٹمز نے اس انرجی بلیٹن کا اجراء بغیر کسی قیمت پہ مفاد عامہ اور معلوماتی مقاصد کے لئے کیا ہے۔

اپنی رائے، تجاویز، میٹاڈیٹا یا مزید معلومات کے لئے ہم سے رابطہ کیجئے۔

ہاؤس نمبر 4- گرین، صابزادہ عبدالقیوم روڈ، آئی۔ 8 / 2، اسلام آباد، پاکستان

لینڈ لائن نمبر: +92.51.843.7324 +92.51.486.5064

ای۔میل: connect@alhasan.com ویب سائٹ: www.alhasan.com

www.facebook.com/alhasan.com

www.twitter.com/alhasansystems

## بلیٹن میں شامل

پاکستان میں چین کے نئے سفیر سن وی دونگ نے کہا ہے کہ پاکستان اور چین  
- قریبی دوست، با اعتماد شراکتدار اور بھائی ہیں  
سپریم کورٹ کی اٹارنی جنرل کو نندی پور پاور پروجیکٹ  
- معاملے کی تحقیقات کیلئے وزیر اعظم کی تشکیل کردہ کمیٹی کی رپورٹ  
- جلد از جلد پیش کرنے کی ہدایت، مقدمے کی مزید سماعت 3 ہفتوں کیلئے ملتوی  
1700 میگا واٹ بجلی جلد نیشنل گرڈ اسٹیشن میں شامل ہو جائے گی، وزیر اطلاعات پرویز رشید  
پٹرول، گیس کی قیمتوں میں اضافہ اسلام آباد ہائیکورٹ میں چیلنج  
- نندی پور پاور پروجیکٹ: مشینری 3 سال بعد بندر گاہ سے روانہ  
چند ماہ میں لوڈ شیڈنگ میں بڑی حد تک کمی ہو جائے گی، وزیر اعظم  
آبی وسائل کم لاگت بجلی پیدا کرنے کا ذریعہ ہیں  
امریکی ادارہ بجلی کیلئے سرمایہ کاری کرے گا

41-35	توانائی کی خبریں
41-39	بجلی کا بحران شبیر احمد ارمان
38-35	چین کی پاکستان کو بجلی کا بحران کے حل کی یقین دہانی نمرہ نعیم
33-21	توانائی ڈائریکٹری
20-16	نقشہ جات
20-16	English Version

**نقشہ جات** : ارضیات پاکستان اور تیل و گیس کا معدنی تناظر • سندھ میں قدرتی گیس کے ذخائر (جون 2012 تک)  
• پن بجلی منصوبوں کا جائزہ (پنجاب پاکستان) • بائیوفیول میں ایشیا کی پیداواری صلاحیت

