



A Publication of Balochistan Energy Company Limited

Progress 2024

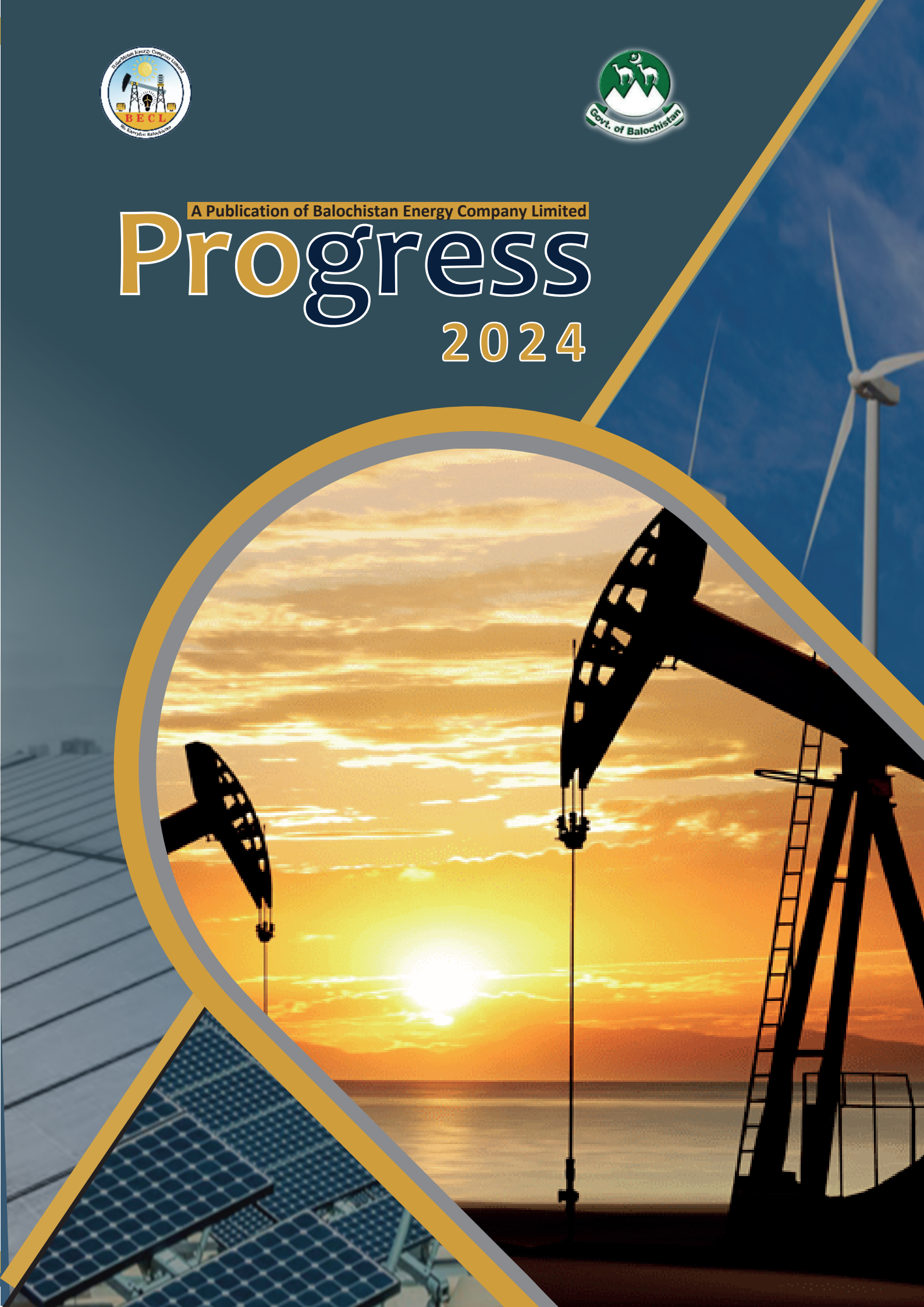




Table of Contents

1	Introduction	04
2	Renewable Energy (RE)	06
	• Potential of RE in Balochistan	07
	▪ Solar Potential	07
	▪ Wind Potential	08
	▪ Tidal Energy	09
	• K-Electric 150 MW Solar Projects	10
	• Solar Home Systems for Off Grid Households	11
3	Oil & Gas Sector	13
	• Overview: O&G Sector in Balochistan	14
	▪ BECL's Joint Venture Exploration Licenses, with different E&P Companies	16
	▪ Kuhan Exploration License (EL)	19
	▪ Other Blocks in Balochistan without BECL's partnership	20
	• LPG Testing Laboratory at Taftan on PPP Mode	22
4	Stakeholders Engagement	24
5	Corporate Governance	30
6	Team Brief Profile	33

INTRODUCTION



After insertion of 18th Constitutional Amendment, the Petroleum Production & Exploration Policy, 2012 was enacted which requires establishment of Provincial Holding Companies (PHCs) to hold the provincial share in Exploration & Production Blocks. Balochistan Energy Company Limited (BECL) is a Public Sector Company wholly owned by the Government of Balochistan, registered with the Securities & Exchange Commission of Pakistan (SECP) in 2012 under the section 32 of Companies Ordinance 1984 which was further promulgated as Companies Act 2017.



The mandate of BECL as mentioned in Memorandum of Association (MoA) is as follows;

- Planning, promoting, organizing and implementing programs for the exploration and development of Oil, Gas and Alternative Energy resources in Balochistan.
- Geological, Geophysical and other surveys to explore Oil, Gas, Renewable Energy, Alternate Energy and conventional/ non-renewable Energy.
- Takeover, acquire, renew, utilize and hold any exploration, prospecting, development and production concessions of whatever nature.
- To produce, refine, sell, supply, market, distribute, transport and otherwise dispose of crude oil, condensate LPG, LNG, natural gas and refined gases.



The Company is governed by the Companies Act 2017 having a Board of Directors with government nominees, independent directors from relevant traits with noticeable experiences. BECL mainly has the mandate in the Oil & Gas industry (exploration, operatorship, etc.). Currently the Company is in partnership with PPL, OGDCL, MPCL and UEPL in different blocks.

Currently, the Federal Government through Alternative Renewable Energy Policy (ARE) and number of entities like NEPRA, PPIB, NTDC and QESCO controls the power sector and a very restricted space is available for provinces to do much in this Sector. However, BECL with its limited resources, has initiated different projects in the Renewable Energy and Power Sector of the province.



According to estimates, Balochistan has 1.2 million MW of Solar Energy Potential and more than 20000 MW of Wind Energy Potential. These projects are steps towards utilizing the huge RE potential of the province. One such step is the establishment of 150 MW Solar Power Projects in Lasbela and Hub by K-Electric with the support of BECL and GoB.

BECL's ever first report after the inception, mainly focuses on initiatives, funds, and achievements of BECL till date





RENEWABLE ENERGY (RE)



Potential of Renewable Energy in Balochistan

Solar Potential:

While specific estimates are difficult to find, Balochistan's geography, irradiance, and location make it one of Pakistan's most high-potential provinces, with respect to renewables. According to satellite data, approximately 40% of Balochistan receives direct solar radiation greater than 6 KWh per square meter, and the World Bank calculated a total solar potential of 1.2 million MW¹ in Balochistan. According to World Bank VRE Study, the most suitable



areas are in northeastern Balochistan where good solar resources come together with existing grid infrastructure. The areas in Balochistan have an interesting long-term potential which is not yet developed and needs a major investment into transmission line construction. Some potential Solar Photo Voltaic (PV) sites based on grid capacity availability identified in VRE Study are; Kuchlak 200 MW, Panjgur 100 MW, Mastung 100 MW, Bostan 100 MW, Khuzdar 100 MW, Qila- Saifullah 100 MW, Khanozai 100 MW, Mach 50 MW and Muslim Bagh 50 MW.



Concentrated Solar Power (CSP) is a solar technology which is alternative to PV, where the heat of the sun irradiation is used to heat up a medium (usually thermal oil or molten salt) and then used to run a steam turbine just like the thermal power plants. While CSP generally have higher capital expenditure than PV, but it has its additional benefit of easy storage. Thus, making it an attractive case for utility scale operation because its generation and dispatch is generally stable. Its site requirements are somewhat different because it requires a high Direct Normal Irradiation (DNI), whereas PV requires high Global Horizontal Irradiance (GHI). CSP can be used to replace the costly thermal power plants as its generation is rather similar to the generation of thermal power plants. In Pakistan,

Balochistan is practically the only province which is suitable for CSP. The area around Quetta and vicinities has very good DNI and also grid capacity availability. According to World Bank VRE Study suggested sites for CSP are Kuchlak 200 MW and Khanozai 100 MW.

1: The World Bank, "Balochistan Needs Assessment Development Issues and Prospects Part II - Alternative Energy Sources," 2013.

Wind Potential:

The U.S. National Renewable Energy Laboratory (NREL) estimated a wind potential of 20,000 MW in Balochistan, with a significant potential existing in Chaghi District and Makran Region. According to World Bank VRE Study, the Chaghi Wind Potential can be exploited by a recommended Transmission line that goes from Chaghi (western Balochistan) to Muzaffargarh in western Punjab. Some potential Wind Power sites based on grid capacity availability identified in VRE Study are; Panjgur 200 MW, Khuzdar 200 MW, Qila Saifullah 200 MW, Mach 100 MW and Muslim Bagh 100 MW.



Based on Wind Resource Assessment by Engro Energy limited (EEL) at Chaghi, the Chaghi Wind Corridor has the best wind resource in Pakistan. Year wise load flow increase was suggested in the Engro Preliminary load flow study i.e. starting from 50 MW and scaling it up to 500 MW by increasing the transmission capacity of Grid.

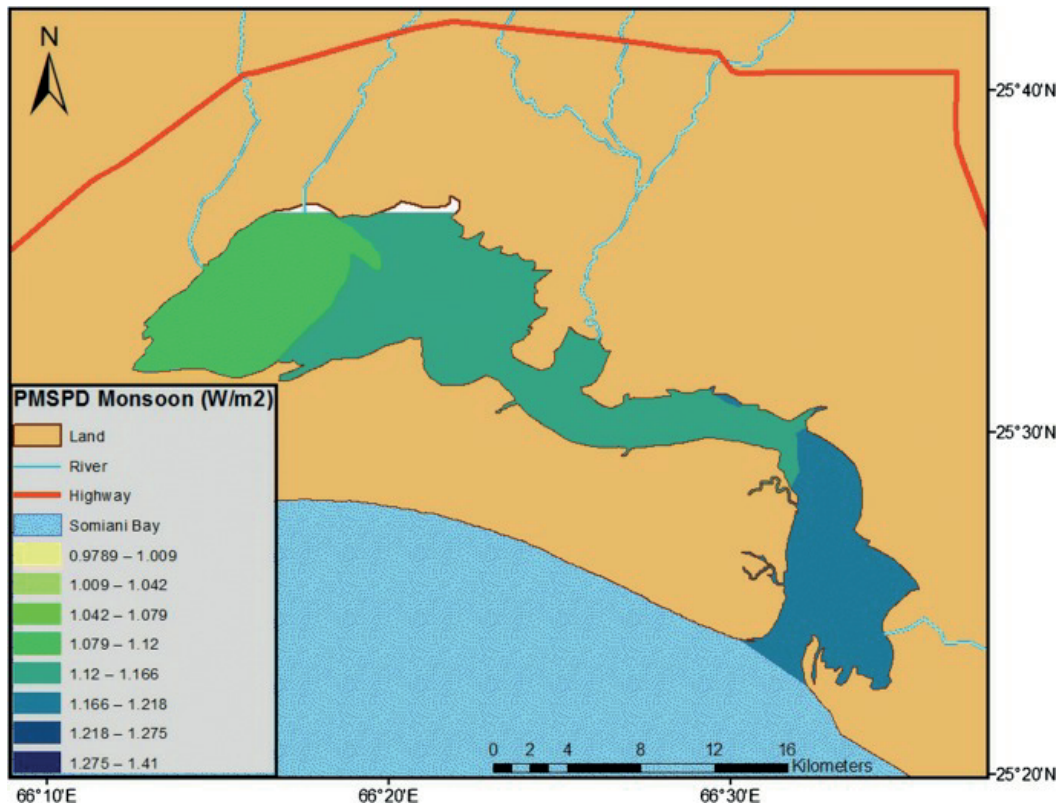


Tidel Energy:

Tidal energy is a form of power produced by the natural rise and fall of tides caused by the gravitational interaction between Earth, the sun, and the moon. Tidal currents with sufficient energy can be harnessed when water passes through a construction, causing the water to move faster. Using generators and turbines in suitable locations, tidal energy can be converted into useful forms of power. The coastal belt of Balochistan extends up to 771 Km from Gwadar to Karachi including Pasni, Jiwani, Ormara, Sonmiani bay, and Gaddani. The creeks in Sonmiani bay influence high tidal fluctuations from which a large amount of energy can be harnessed by proper conversion. The tidal range in the site varies in between 2.5 m to 3.4 m. The waters off the coast of Sonmiani Bay possess substantial tidal current velocities and the estimated tidal power potential of this area is about 254 MW¹¹. Furthermore, Makran Coastal Belt also has good potential for Tidal Energy.



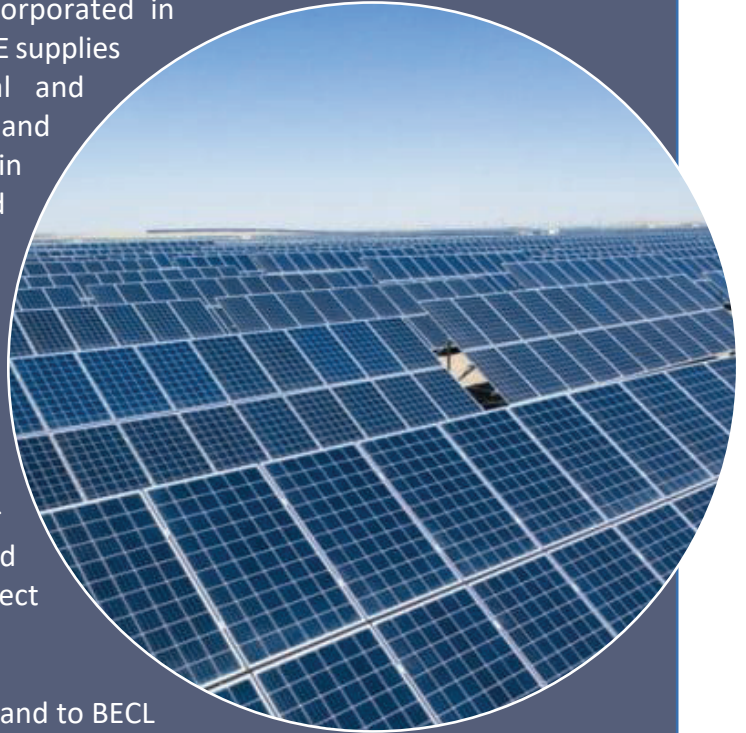
The Potential Mean Spring Power Density (PMSPD) of Sonmiani Bay is shown in the following map.



11: R. H. Leghari, K. Harijan, and M. Usman Baloch, "Utilization Prospects of Ocean Energy in Balochistan," 2011.

K-Electric 150 MW Solar Projects

K-Electric (KE) is a public listed company incorporated in Pakistan in 1913 as KESC and Privatized in 2005. KE supplies power to residential, commercial, industrial and agricultural consumers across Karachi, Dhabeji and Gharo in Sindh, and Uthal, Winder and Bela in Balochistan. KE is the only vertically-integrated power utility in Pakistan i.e. manages all three key areas Generation, Transmission and Dispatch of power to consumers. KE is establishing 150 MW solar energy projects in Balochistan in Lasbela and Hub districts. The tariff obtained through competitive bidding process for these projects is PKR 11.2 per unit received from Master Textile Mills Ltd. which is a significantly lower tariff as per industry standards. KE has submitted bid evaluation report to NEPRA after which the project would enter in execution phase.



The GoB has issued lease orders of 750 acres of land to BECL for the establishment of three Solar Projects of 50 MW each. The 500 acres of land will be for two projects at Bela and 250 acres of land will be for one project at Hub. BECL on behalf of GoB held negotiations with KE for determining a revenue sharing formula in the 150 MW Solar Projects at Lasbela and Hub. BECL/GoB would take upfront fixed rentals of PKR 2.13 billion for subleasing the land to KE and subsequently a proposal was presented to KE which is to pay the upfront fixed rentals which was accepted by KE.

As per initial estimates 70MW to 80 MW out of 150 MW of power generated would be transmitted to Lasbela and Hub Districts and the remaining would be supplied to KE other consumers through the newly upgraded 132 kV transmission line. This project would help to create a revenue generation stream for GoB and employment opportunities for the local people.



CEO-BECL; chaired the meeting which was attended by the K-Electric and Balochistan PPPA

Solar Home Systems for Off Grid Households

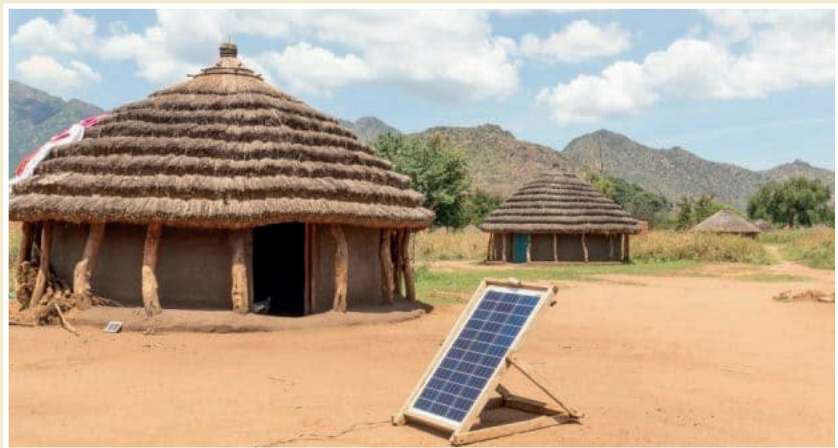
The Planning Commission has approved an Umbrella PC-I of “Special Development Initiatives for Backward/Poor Districts in the Country” for 20 poorest districts of Pakistan out of which 11 districts are from Balochistan. Namely; Sherani, Kohlu, Jhal Magsi, Awaran, Barkhan, Killa Abdullah, Zhob, Musakhel, Dera Bugti, Jaffarabad and Killa Saifullah. BECL prepared PC-I for the PSDP Project “Solar Home Systems for Off Grid Households” under the approved Umbrella PC-I.



The project will be financed on co-sharing basis at the percentage of 20-80 by GoB and GoP respectively. The main objective of this project is to provide energy access to 68,000 unelectrified households in 11 districts of Balochistan through the installation of solar home systems (SHS). The beneficiaries of this project would be identified from off-grid areas on Benazir Income Support Program (BISP) criteria that will be verified by on-field survey.

This project relates to optimizing impact of renewable energy development in the province by integrating energy solutions. The availability of Electricity in the Province is less than half of the actual demand. It will also contribute to minimize reliance on conventional sources of electricity and to encourage Solar as source of energy particularly in the areas that are unelectrified.

The project is a transformative initiative aimed at addressing energy access and poverty and promoting sustainable development in Pakistan. This project aligns with the Sustainable Development Goal 7 (SDG-7) and it targets affordable and clean energy supply, specifically focusing on universal access to energy services. This project would bring following impacts in off-grid areas:



- Access to electricity for 68,000 Households
- Economic benefits such as reduction in energy costs and households can potentially allocate funds for other productive uses.
- Health and Environmental improvement by reduction in indoor air pollution and carbon emissions
- Educational and Social benefits like increased study hours for children, potentially leading to improved educational outcomes.
- Enhanced quality of life because improved lighting can lead to a better quality of life, with benefits such as extended working hours and reduced safety risks after dark.

OIL & GAS SECTOR



Overview of Oil & Gas Sector in Balochistan

Balochistan, a resource-rich province in Pakistan is strategically located in a region with significant geopolitical and economic importance, with an area of 347,190 square kilometers, Balochistan shares borders with Iran and Afghanistan to the west and north, respectively, and has a 770 - kilometer coastline along the Arabian Sea to the south^{III}. The province's proximity to key energy-producing regions such as the Middle East, Central Asia, and South Asia makes it an attractive location for oil and gas exploration and production. This positions Balochistan as a key player in Pakistan's energy landscape and presents considerable potential for future energy production.

Balochistan is endowed with vast reserves of hydrocarbons, particularly oil and natural gas. International assessments suggest that the province holds approximately 06 billion barrels of oil in both onshore and offshore locations, alongside 19 trillion cubic feet of natural gas reserves.^{IV}

Oil and gas exploration in Balochistan dates back over a century. The region has attracted international exploration companies. The discovery of significant natural gas deposits, such as the "Sui Gas Field" by Burma Oil Company now in 1952, marked a turning point in the country's energy sector. The Sui Gas Field, once the seventh-largest gas field globally, continues to meet a substantial portion of Pakistan's energy demands since in the seven decades.



Despite the historical presence of exploration activities, the province remains underexplored compared to its potential. Currently Balochistan has 52 Exploration Licenses and 05 Development and Production leases, indicating ongoing exploration activities. The province has proven reserves, and exploration continues with the expectation of discovering more significant oil and gas resources.

Balochistan is equipped with the necessary infrastructure to support oil and gas exploration. The province's geographical layout features both land-based resources and a significant coastline, which facilitates offshore exploration.

III: Mangroves for the Future (MFF) Pakistan, "Pakistan Coastal and Marine Resources," 2016.

IV: Engineer Arshad H Abbasi, "Hydrocarbon Exploration and Licensing Policy," 2018.

The availability of supporting infrastructure is critical to attract foreign and domestic investments in the energy sector.

Gwadar Port located along the Arabian Sea, holds tremendous strategic and economic significance. Positioned near the Straits of Hormuz a critical global chokepoint for oil transportation, Gwadar is central to the flow of global energy supplies, including about 30% of the world's daily oil transported by ship or pipeline^V. This gives the region a vital role in the global energy trade and provides opportunities for energy exports from Pakistan to neighboring regions, including the Middle East, South Asia, and Central Asia.

The combination of rich natural resources, a deep-sea port at Gwadar, and its location at the crossroads of the Middle East, South Asia, and Central Asia means Balochistan holds the potential to become a major energy hub. The province is a strategic link between energy-rich countries and energy markets. Additionally, the development of Gwadar as a trade and logistics center, as part of the China-Pakistan Economic Corridor (CPEC), could further boost the region's significance as a key node in energy and trade routes.



With 52 Exploration licenses EL's in place and ongoing development projects, Balochistan's oil and gas sector could be poised for significant growth in the coming years. The region's potential for new discoveries, especially in natural gas, is particularly strong.

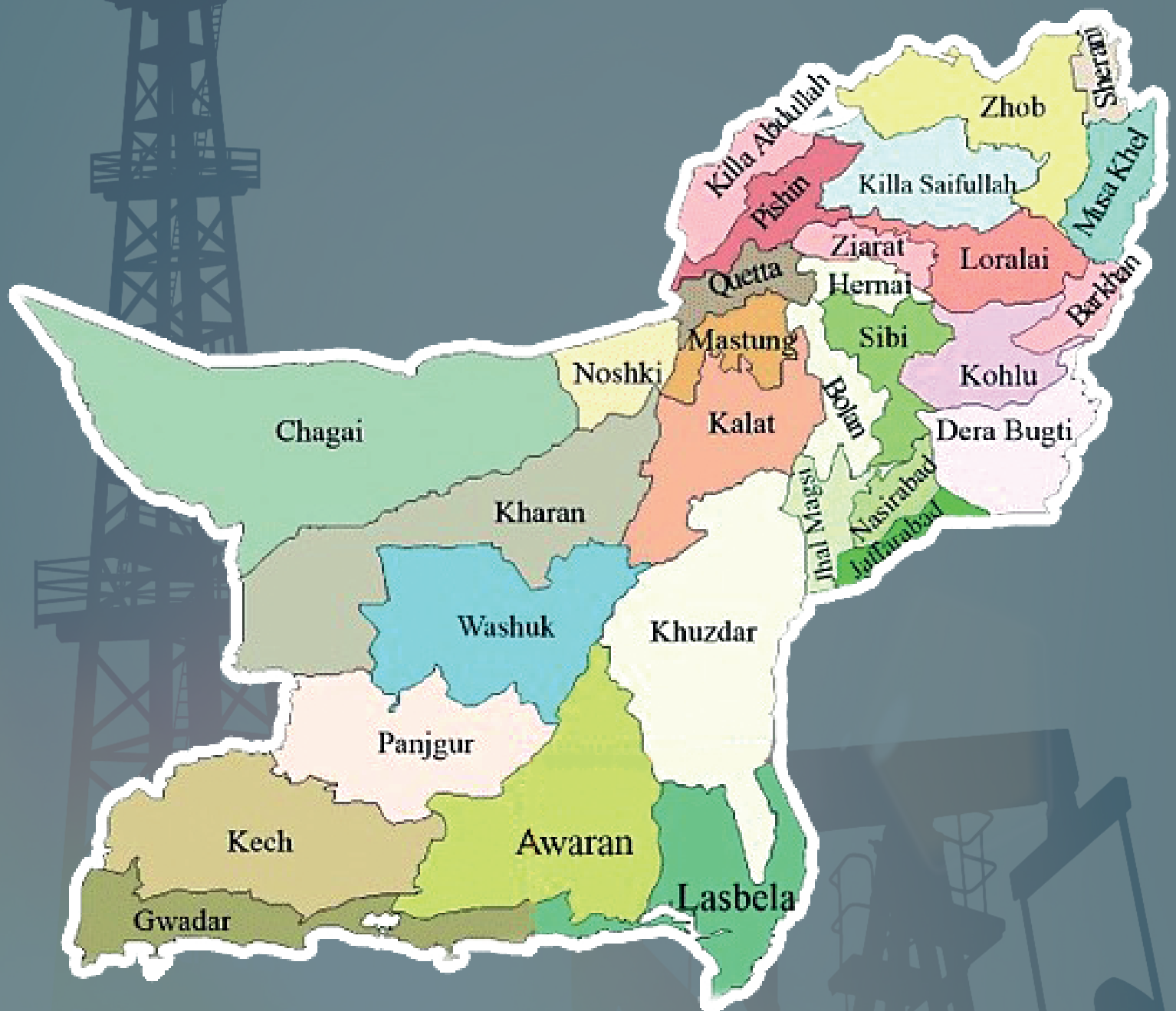
Additionally, Pakistan's energy demand continues to rise, providing a market for the energy produced from Balochistan's fields. The expansion of Gwadar Port and its link to CPEC could further enhance the region's ability to serve as a transit hub for energy resources, facilitating both domestic and international trade.

Balochistan's oil and gas sector represents one of the most promising opportunities in Pakistan's energy landscape. With vast untapped reserves of hydrocarbons, a strategic location with access to global energy markets, and a growing infrastructure network, Balochistan has the potential to become a key player in the regional and global energy markets. However, for this potential to be fully realized, it will require a focus on improving security, governance, and infrastructure, while also ensuring the benefits of this development are shared with local communities. The coming years may see Balochistan emerge as a major contributor to Pakistan's energy independence and economic growth.

BECL has secured Provincial share in 18 Exploration Licenses in Balochistan awarded to different E&P companies after the 18th Constitutional Amendment.

V: International Energy Agency, "Strait of Hormuz–Factsheet," 2023.

BECL's Joint Venture Exploration Licenses, with different E&P Companies



Suleiman EL

License Number: 3069-9
 Districts: Qilla Saifullah, Zhob, Musakhel, Duki and Loralai
 Area: 2172.89 Sq. km
 Working Interest: OGDCL is operating company with JVs PPL and BECL
 Current Status: Exploration Activities 2D Seismic are in progress
 Date of Grant: 23/04/2021

Qilla Saifullah EL

License Number: 3068-6
 Districts: Qilla Saifullah
 Area: 2421.96 Sq. km
 Working interest: OGDCL is operating company Jvs MPCL and BECL
 Current Status: Gravity and Magnetic completed 2D Seismic survey in-progress
 Date of Grant: 23/04/2021

Nareli EL

License Number: 3068-9
 Districts: Ziarat, Loralai, Duki, Sibi and Harnai
 Area: 2414.95 Sq. km
 Working Interest: MPCL is operating company with JVs POL, Spud Energy and BECL.
 Current Status: Exploration activities are in progress
 Date of Grant: 13/10/2021

Mach EL

License Number: 2967-5
 Districts: Sibi, Kachhi, Kalat and Quetta
 Area: 1280.55 Sq. km
 Working Interest: MPCL is operating company with JVs PPL, UEPL, GHPL and BECL
 Current Status: Exploration activities are in progress
 Date of Grant: 22/11/2022

Sui North EL

License Number: 2869-15
 Location: Balochistan and Punjab
 Districts: Dera Bugti and Rajanpur
 Area: 811.73 Sq. km
 Working Interest: PPL is operating company with JVs MPCL and BECL
 Current Status: Exploration activities are in progress
 Date of Grant: 22/11/2022

Sharan EL

License Number: 3069-4
 Districts: Qilla Saifullah and Zhob
 Area: 2497.89 Sq. km
 Working interest: MPCL is operating company with JVs OGDCL, GHPL and BECL
 Current Status: Gravity and Magnetic survey has been done
 Date of Grant: 23/04/2021

Shaigalu EL

License Number: 3168-2

Districts: Zhob and Qilla Saifullah

Area: 833.98 Sq. km

Working Interest: PPL is operating company with JVs OGDCL, MPCL and BECL.

Current Status: Exploration activities are in progress

Date of Grant: 26/07/2023

Kalat West EL

License Number: 2866-5

Districts: Kalat and Sikandar Abad

Area: 2494.30 Sq. Km

Working Interest: PPL is operating company with JVs MPCL and BECL

Current Status: Gravity Magnetic Survey is in progress

Date of Grant: 22/11/2022

Dadhar EL

License Number: 2867-6

Districts: Sibi, Kachhi, Jhal Magsi and Kalat

Area: 1922.73 Sq. km

Working Interest: MPCL is operating company with JVs PPL, UEPL, GHPL and BECL

Current Status: Exploration activities are in Progress

Date of Grant: 22/11/2022

Chah Bali EL

License Number: 2966-2

Districts: Quetta, Kachhi, Kalat and Mastung

Area: 2169.30 Sq. km

Working Interest: OGDCL is operating company with JVs POL and BECL

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

Meeranpur EL

Location: Punjab and Balochistan

Districts: Rajanpur and Dera Bugti

Area: 1222.76 Sq.km

Working Interest: UEPL is operating company with JVs MPCL, PHCL and BECL

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

Tanishpa EL

Districts: Zhob and Killa Saifullah

Area: 2402.31 Sq.km

Working Interest: OGDCL is operating company with JVs PPL, MPCL and BECL.

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

South Pishin EL

Districts: Zhob and Killa Saifullah

Area: 2027.28 Sq.km

Working Interest: MPCL is operating company with JVs PPL, OGDCL and BECL

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

Lugai EL

Districts: Pishin and Killa Saifullah

Area: 2376.88 Sq.km

Working Interest: OGDCL is operating company with JVs PPL, MPCL and BECL

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

Kotra East EL

Districts: Jhal Magsi, Naseerabad, Jaffarabad and Khuzdar

Area: 2498.34 Sq.km

Working Interest: OGDCL is operating company with BECL

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

Saruna West EL

Districts: Lasbela and Khuzdar

Area: 2498.11 Sq.km

Working Interest: POL is operating company with JVs OGDCL and BECL

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

Multanai EL

District: Zhob

Area: 1117.69 Sq.km

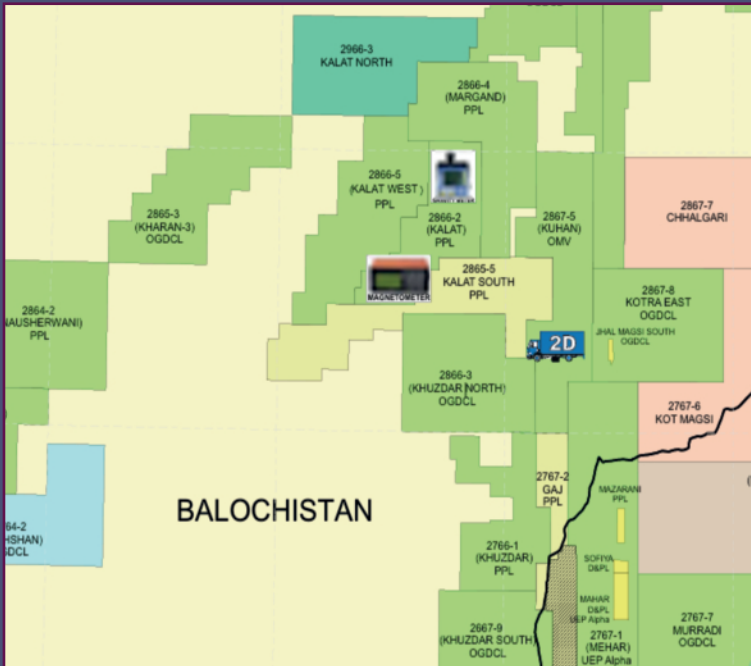
Working Interest: POL is operating company with BECL

Current Status: Exploration activities are in progress

Date of Grant: 22/11/2022

Balochistan Government through BECL have the opportunity to acquire one block within Balochistan without competitive bidding and one-time relaxation to swap the block with another if no good results in the seismic activities.”

Kuhan Exploration License (EL):



Kuhan EL was initially granted on February 28, 2014, to OMV (47.5%), PPL (47.5%), GHPL (2.5%) & BECL (2.5%) on full participation Basis. OMV being multinational company had some safety standards and international protocols to operate, due to law-and-order situation they could not performed activities and applied Force Majeure on said block, with the take-over of OMV assets and improvement of the security situation in the country, UEP (UEP Beta) acquired NOC from the Balochistan Government and commenced committed work plan activities in April, 2023 with the support of BECL and Government of Balochistan.

Based on the preliminary assessments, associated hydrocarbon resource there are four leads in this block, Sabzkani, Pir Chattal, Adhani and Adhani South for the first well Sabzkani-1, the estimated reserves are **200-600 BCF** (Initial in place) with several follow-on opportunities leading to large potential (which will be further validated through ongoing/planned G&G studies, field surveys and subsequent drilling activities).



Currently the first exploratory well is being drilled as Sabzkani-1

Other Blocks in Balochistan without BECL's partnership:

Balochistan being the largest Province by area, currently has 34 active Exploration Licenses (ELs) apart from those mentioned above and 05 Development & Production (D&P) leases which are Sui, Uch, Pir Koh, Loti and Kotra. Those 34 ELs were granted to different companies by the Federal Government and their details are given below:

Sr.No	Block	Right Holdings			Sr.No	Block	Right Holdings		
		Company	Pre-Discovery	Post-Discovery			Company	Pre-Discovery	Post-Discovery
1	2967-2 (Ziarat) 1419.32 Sq.kms. [MPCL] Effective: 22-01-2003	MPCL	60.00	60.00	13	2865-3 (Kharan-3) 2487.46 Sq.Kms [OGDCL] Effective: 21-03-2014	OGDCL	100.00	100.00
		PPL Europe	40.00	40.00			14	2561-1 (Gwadar) 2407.01 Sq.Kms [OGDCL] Effective: 21-03-2014	OGDCL
2	3067-3 (Harnai) 2482.67 Sq.Kms [MPCL] Effective: 21-06-2006	MPCL	60.00	60.00	15	3169-2 (Zhob) 2473.45 Sq.Kms [OGDCL] Effective: 21-03-2014			GHPL
		PPL Europe	40.00	40.00			16	2566-5 (Bela North) 2045.73 Sq.Kms [OGDCL] Effective: 21-03-2014	OGDCL
3	Block-28 5,856.71 Sq.kms. [MPCL] Effective: 14/01/91	MPCL	95.00	50.00	17	2764-2 (Rakhshan) 2459.17 Sq.Kms [OGDCL] Effective: 21-03-2014			OGDCL
		OGDCL	5.00	50.00			18	3066-5 (Bostan) 2337.5 Sq.Kms [OGDCL] Effective: 21-03-2014	OGDCL
4	Jandran 408 Sq.kms. [OGDCL] Effective: 20/09/89	OGDCL	100.00	100.00	19	2866-3 (Khuzdar North) 2451.44 Sq.kms [OGDCL] Effective: 21-03-2014			OGDCL
		OGDCL	95.00	82.50			20	2667-9 (Khuzdar South) 2493.36 Sq.Kms [OGDCL] Effective: 20-06-2019	GHPL
5	2868- 1 (Zin) 5,559.74 Sq.kms. [OGDCL] Effective: 23/06/96	GHPL	5.00	17.50	21	2967-4 (Harnai South) 2451.47 Sq.kms [OPI] Effective: 16-02-2010			OPI
		(Carried)					22	2766-1 (Khuzdar) 1750.10 Sq.Kms [PPL] Effective: 09/03/2004	Zaver
6	2567-4 (Saruna) 2431.62 sq.Kms [OGDCL] Effective :17-02-2004	OGDCL	100.00	100.00	23	2866-2 (Kalat) 1737.24 Sq.kms. [PPL] Effective: 22-03-2005			PPL
		OGDCL	40.00	40.00			24	2969-8 (Barkhan) 2104.69 Sq.kms. [PPL] Effective: 29-12-2005	PPL
7	2968-3 (Kohlu) 2459.11sq.Kms [OGDCL] Effective :29-12-2004	OGDCL	30.00	30.00	10	3068-4 (Lakhi Rud) 2488.78 Sq.Kms [OGDCL] Effective: 21-01-2010			PPL Europe
		MPCL	30.00	30.00			11	2969-9 (Jandran West) 759.46 Sq.Kms [OGDCL] Effective: 16-02-2010	OMV
8	2763-2 (Shahana) 2445.06 sq.Kms [OGDCL] Effective :29-12-2004	OGDCL	100.00	100.00	12	2562-1 (Pasni West) 2293.4 Sq.Kms [OGDCL] Effective: 21-02-2014			OGDCL
		OGDCL	100.00	100.00			13	2562-1 (Pasni West) 2293.4 Sq.Kms [OGDCL] Effective: 21-02-2014	GHPL
9	2565-1 (Samandar) 2495.33 Sq.kms. [OGDCL] Effective: 06/07/2005	OGDCL	100.00	100.00	14	3067-3 (Harnai) 2482.67 Sq.Kms [MPCL] Effective: 21-06-2006			MPCL
		OGDCL	100.00	100.00			15	Block-28 5,856.71 Sq.kms. [MPCL] Effective: 14/01/91	PPL Europe
10	3068-4 (Lakhi Rud) 2488.78 Sq.Kms [OGDCL] Effective: 21-01-2010	OGDCL	100.00	100.00	16	Jandran 408 Sq.kms. [OGDCL] Effective: 20/09/89			OGDCL
		OGDCL	100.00	100.00			17	2868- 1 (Zin) 5,559.74 Sq.kms. [OGDCL] Effective: 23/06/96	OGDCL
11	2969-9 (Jandran West) 759.46 Sq.Kms [OGDCL] Effective: 16-02-2010	OGDCL	100.00	100.00	18	2567-4 (Saruna) 2431.62 sq.Kms [OGDCL] Effective :17-02-2004			OGDCL
		OGDCL	100.00	100.00			19	2968-3 (Kohlu) 2459.11sq.Kms [OGDCL] Effective :29-12-2004	OGDCL
12	2562-1 (Pasni West) 2293.4 Sq.Kms [OGDCL] Effective: 21-02-2014	OGDCL	97.50	97.50	20	2667-9 (Khuzdar South) 2493.36 Sq.Kms [OGDCL] Effective: 20-06-2019			OGDCL
		GHPL	2.50	2.50			21	2967-4 (Harnai South) 2451.47 Sq.kms [OPI] Effective: 16-02-2010	GHPL
13	2967-2 (Ziarat) 1419.32 Sq.kms. [MPCL] Effective: 22-01-2003	MPCL	60.00	60.00	22	2766-1 (Khuzdar) 1750.10 Sq.Kms [PPL] Effective: 09/03/2004			PPL
		PPL Europe	40.00	40.00			23	2866-2 (Kalat) 1737.24 Sq.kms. [PPL] Effective: 22-03-2005	PPL
14	3067-3 (Harnai) 2482.67 Sq.Kms [MPCL] Effective: 21-06-2006	MPCL	60.00	60.00	24	2969-8 (Barkhan) 2104.69 Sq.kms. [PPL] Effective: 29-12-2005			PPL
		PPL Europe	40.00	40.00			13	2865-3 (Kharan-3) 2487.46 Sq.Kms [OGDCL] Effective: 21-03-2014	PPL Europe
15	Block-28 5,856.71 Sq.kms. [MPCL] Effective: 14/01/91	MPCL	95.00	50.00	14	2561-1 (Gwadar) 2407.01 Sq.Kms [OGDCL] Effective: 21-03-2014			OGDCL
		OGDCL	5.00	50.00			15	3169-2 (Zhob) 2473.45 Sq.Kms [OGDCL] Effective: 21-03-2014	GHPL
16	Jandran 408 Sq.kms. [OGDCL] Effective: 20/09/89	OGDCL	100.00	100.00	16	2566-5 (Bela North) 2045.73 Sq.Kms [OGDCL] Effective: 21-03-2014			OGDCL
		OGDCL	95.00	82.50			17	2764-2 (Rakhshan) 2459.17 Sq.Kms [OGDCL] Effective: 21-03-2014	OGDCL
17	2868- 1 (Zin) 5,559.74 Sq.kms. [OGDCL] Effective: 23/06/96	OGDCL	95.00	82.50	18	3066-5 (Bostan) 2337.5 Sq.Kms [OGDCL] Effective: 21-03-2014			OGDCL
		GHPL	5.00	17.50			19	2866-3 (Khuzdar North) 2451.44 Sq.kms [OGDCL] Effective: 21-03-2014	OGDCL
18	2567-4 (Saruna) 2431.62 sq.Kms [OGDCL] Effective :17-02-2004	OGDCL	100.00	100.00	20	2667-9 (Khuzdar South) 2493.36 Sq.Kms [OGDCL] Effective: 20-06-2019			OGDCL
		OGDCL	40.00	40.00			21	2967-4 (Harnai South) 2451.47 Sq.kms [OPI] Effective: 16-02-2010	GHPL
19	2968-3 (Kohlu) 2459.11sq.Kms [OGDCL] Effective :29-12-2004	OGDCL	30.00	30.00	22	2766-1 (Khuzdar) 1750.10 Sq.Kms [PPL] Effective: 09/03/2004			PPL
		MPCL	30.00	30.00			23	2866-2 (Kalat) 1737.24 Sq.kms. [PPL] Effective: 22-03-2005	PPL
20	2763-2 (Shahana) 2445.06 sq.Kms [OGDCL] Effective :29-12-2004	OGDCL	100.00	100.00	24	2969-8 (Barkhan) 2104.69 Sq.kms. [PPL] Effective: 29-12-2005			PPL
		OGDCL	100.00	100.00			10	3068-4 (Lakhi Rud) 2488.78 Sq.Kms [OGDCL] Effective: 21-01-2010	PPL Europe
21	2565-1 (Samandar) 2495.33 Sq.kms. [OGDCL] Effective: 06/07/2005	OGDCL	100.00	100.00	11	2969-9 (Jandran West) 759.46 Sq.Kms [OGDCL] Effective: 16-02-2010			OMV
		OGDCL	100.00	100.00			12	2562-1 (Pasni West) 2293.4 Sq.Kms [OGDCL] Effective: 21-02-2014	OGDCL
22	3068-4 (Lakhi Rud) 2488.78 Sq.Kms [OGDCL] Effective: 21-01-2010	OGDCL	100.00	100.00	13	2967-2 (Ziarat) 1419.32 Sq.kms. [MPCL] Effective: 22-01-2003			OGDCL
		OGDCL	100.00	100.00			14	3067-3 (Harnai) 2482.67 Sq.Kms [MPCL] Effective: 21-06-2006	GHPL
23	2969-9 (Jandran West) 759.46 Sq.Kms [OGDCL] Effective: 16-02-2010	OGDCL	100.00	100.00	15	Block-28 5,856.71 Sq.kms. [MPCL] Effective: 14/01/91			OGDCL
		OGDCL	100.00	100.00			16	Jandran 408 Sq.kms. [OGDCL] Effective: 20/09/89	OGDCL
24	2562-1 (Pasni West) 2293.4 Sq.Kms [OGDCL] Effective: 21-02-2014	OGDCL	97.50	97.50	17	2868- 1 (Zin) 5,559.74 Sq.kms. [OGDCL] Effective: 23/06/96			OGDCL
		GHPL	2.50	2.50			18	2567-4 (Saruna) 2431.62 sq.Kms [OGDCL] Effective :17-02-2004	OGDCL

Sr.No	Block	Right Holdings		
		Company	Pre-Discovery	Post-Discovery
25	2763-3 (Kharan) 1736.58 Sq.Kms [PPL] Effective: 21-01-2010	PPL	100.00	100.00
26	2764-4 (Kharan East) 2489.67 Sq.Kms [PPL] Effective: 21-01-2010	PPL	100.00	100.00
27	2864-2 (Nausherwani) 2470.83 Sq.Kms PPL Effective: 10-02-2014	PPL GHPL	97.50 2.50	97.50 2.50
28	2566-6 (Bela West) 2454.83 Sq.kms PPL Effective: 10-02-2014	PPL KPBV GHPL MPCL	37.50 35.00 2.50 25.00	37.50 35.00 2.50 25.00
29	2566-4 (Hab) 1448.96 Sq.kms PPL Effective: 21-02-2014	PPL SEHCL GHPL	97.35 0.15 2.50	97.35 0.15 2.50

Sr.No	Block	Right Holdings		
		Company	Pre-Discovery	Post-Discovery
30	2763-5 (South Kharan) 2187.48 Sq.Kms [PPL] Effective: 21-03-2014	PPL OGDCL	51.00 49.00	51.00 49.00
31	3069-10 (Musakhel) 2176.15 Sq.Kms [PPL] Effective: 20-06-2019	PPL OGDCL PGNiG GHPL	37.20 35.30 25.00 2.50	37.20 35.30 25.00 2.50
32	2866-4 (Margand) 2484.17 Sq.Kms PPL Effective: 28-02-2014	PPL	100.00	100.00
33	2768-13 (Sorah) 1151.7 Sq.Kms [PPL] Effective: 20-06-2019	PPL	100.00	100.00
34	3070-13(Baska) 2442 Sq.Kms [PPL] Effective: 29-03-2007	PPL Chian Zhenhu	82.50 17.50	82.50 17.50

LPG Testing Laboratory at Taftan on PPP Mode

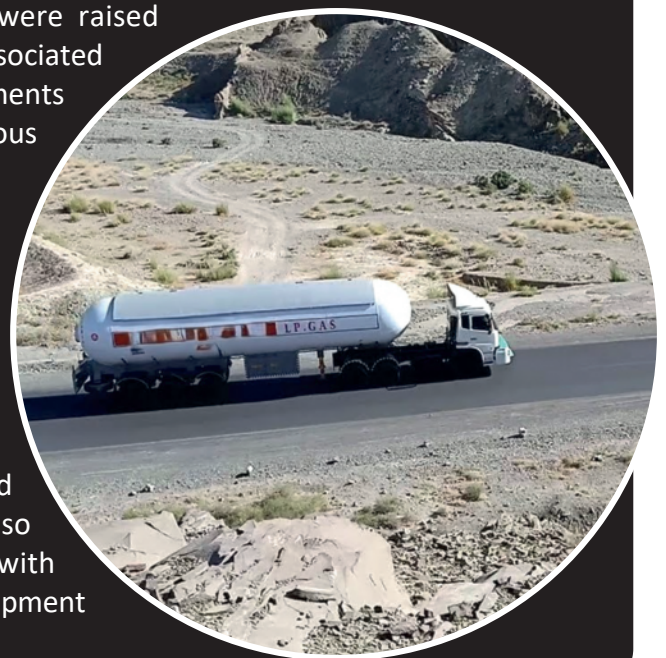
The gas reserves of Sui Gas field after serving the whole country for more than seventy years are depleting rapidly and the overall gas production of country is declining at the rate of 10% per year. Only 11% of population is gasified in Balochistan and the rest of population uses LPG or other fuels for cooking and heating purposes. To cater the need for depleting gas reserves, LPG is fulfilling the demand of domestic users and the demand for LPG coming through land route would significantly increase in the future. The estimated current demand of LPG in the country is 2.6 million MT per year, which is expected to become double till 2031.



Contract Negotiation with M/S ZKB

Currently around 2300 MT of LPG is imported daily from Iran through Taftan border and this quantum is expected to increase further as per the feasibility study of Taftan Lab. Unlike import of LPG from sea, import from land route does not attract the same freight and port charges. LPG from Iran is also available at a discounted price. Some concerns were raised regarding inferior quality of imported LPG that are associated with higher concentrations of butane, corrosive elements and higher Sulphur concentration, which is a hazardous material.

In this regard, BECL is establishing a quality testing lab at Taftan (Pak-Iran Border with the approval of Oil & Gas Regulatory Authority (OGRA) to ensure that the imported LPG meet the standard quality as per regulatory requirements. BECL conducted Feasibility Study of the project and key findings were that the project is financially viable with low payback period and higher IRR. The operating life of the project is also expected to be more than twenty (20) years with maintenance, replacement or upgradation of the equipment (where necessary).



BECL is looking to establish this lab under Public Private Partnership (PPP) mode/framework. This mode/framework would be a good option for this project as it will not only bring the investment from private sector, but it will also be a cost-effective framework. The selected bidder is finalized through competitive bidding process according Balochistan Public Private Partnership Rules through Balochistan Public Private Partnership Authority (BPPPA). BECL will form a JV with ZKB (Selected Bidder) for the establishment of LPG Testing Lab and may acquire share up to 40% in the said JV. If the project is found successful similar Lab would also be established at Gabt, Gwadar because a significant import of LPG is also coming from this Border.



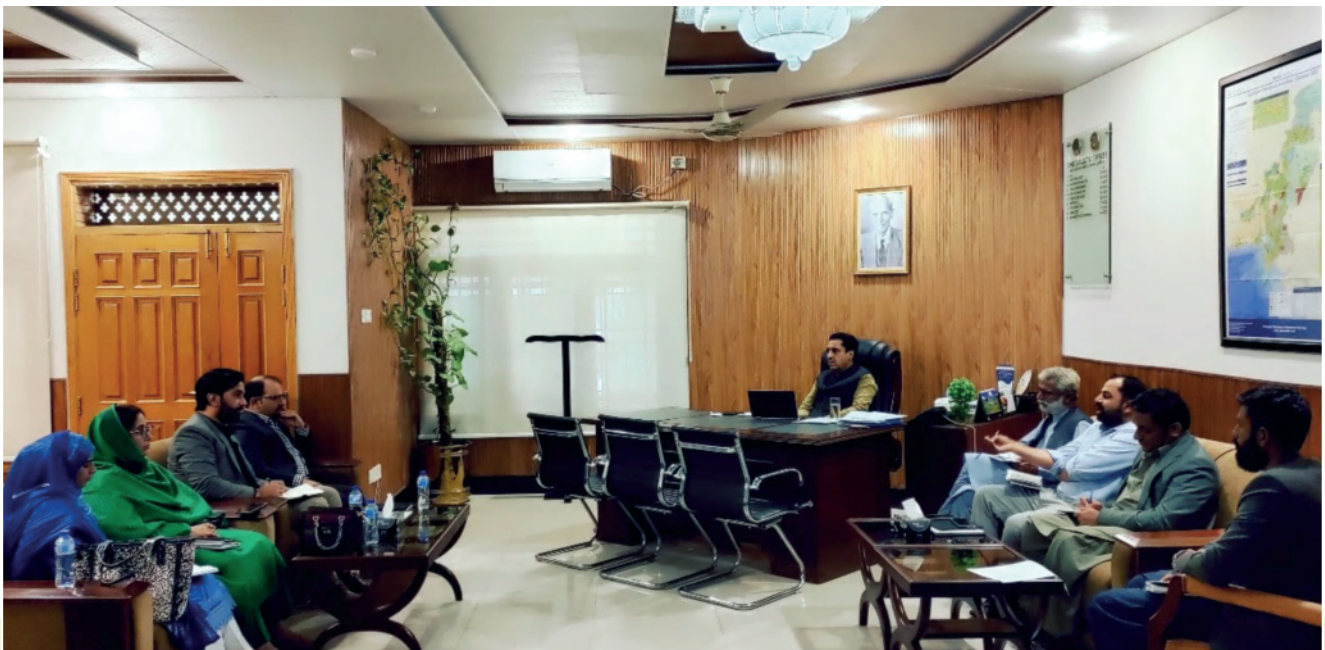
Establishment of LPG Testing Lab. at Taftan; MoU Signing Ceremony Between BECL and ZKB

STAKEHOLDERS ENGAGEMENT



Panelist of Consultants from Ministry of Climate Change & Environmental Coordination; GOP Visited Office of BECL

The Ministry of Climate Change & Environmental Coordination (MoCC & EC) is presently preparing the Third National Communication (TNC), with a significant focus on Vulnerability and Adaptation (V&A) assessments across vital socio-economic sectors. Recognizing the pivotal role of local knowledge and insights in conducting comprehensive V&A assessments, A stakeholder consultation visit to BECL was paid by the delegation of the Ministry. The objective of the visit of panel aimed to engage relevant stakeholders from the Government of Balochistan such as BECL.



Chief Executive Officer alongwith his team, held meeting with Panelists of Consultants

LPG Air-Mix and Bottling Plant/Storage Facility in Balochistan



Dynamic Engineering and Automation (DEA) visited the office of Chief Executive Officer-BECL. Mr. Muhammad Khalid Sarparah; CEO-BECL chaired the subject meeting which was attended by Mr. Imran Ansari; Country Manager and Mr. Jiand Jamaldini; Consultant on behalf of DEA. Representation from Balochistan Public Private Partnership Authority (B-PPPA); Mr. Faraz Director (Projects) along with team also attended the consultative session on the project “LPG Air-Mix and Bottling Plant/ Storage Facility in Balochistan”. The objective of the consultative session was to brief, orient the stakeholders on the project and their importance for the province Balochistan.

Consultation with United Energy Company and Engro Energy Limited Karachi

The BECL team comprising Chief Executive Officer, Chief Financial Officer and RE Engineer visited the Engro Energy Limited (EEL) Head Office on 31st January 2024. EEL had installed Wind Masts at Chaghi and collected the Wind Speed data for two years. BECL team held discussions with EEL about that study for Wind Power Utilization at Chaghi and other potential RE projects in the province.



The same team visited the United Energy Pakistan (UEP) Karachi Office for discussing the progress of Kuhan Block on 01st February 2024. The activities performed at Kuhan Block and issues pertaining to financial matters of Kuhan JV were discussed.



Meeting with CEO PRIED and IDSP Team



Mr. Muhammad Badar Alam, a journalist and CEO of Policy Research Institute for Equitable Development (PRIED) along with Mr. Zubair Khan and Miss Rabia, co-authors of Balochistan Renewable Energy (RE) Assessment Study, 2023 and Research Associates at Institute for Development Studies and Practices (IDSP) held a meeting with CEO and RE Engineer at BECL Office. The IDSP team presented the RE Assessment Study to CEO, BECL. A discussion was held regarding the RE potential of Balochistan and untapping this huge RE potential of the province.

Stakeholders Consultation's Gallery



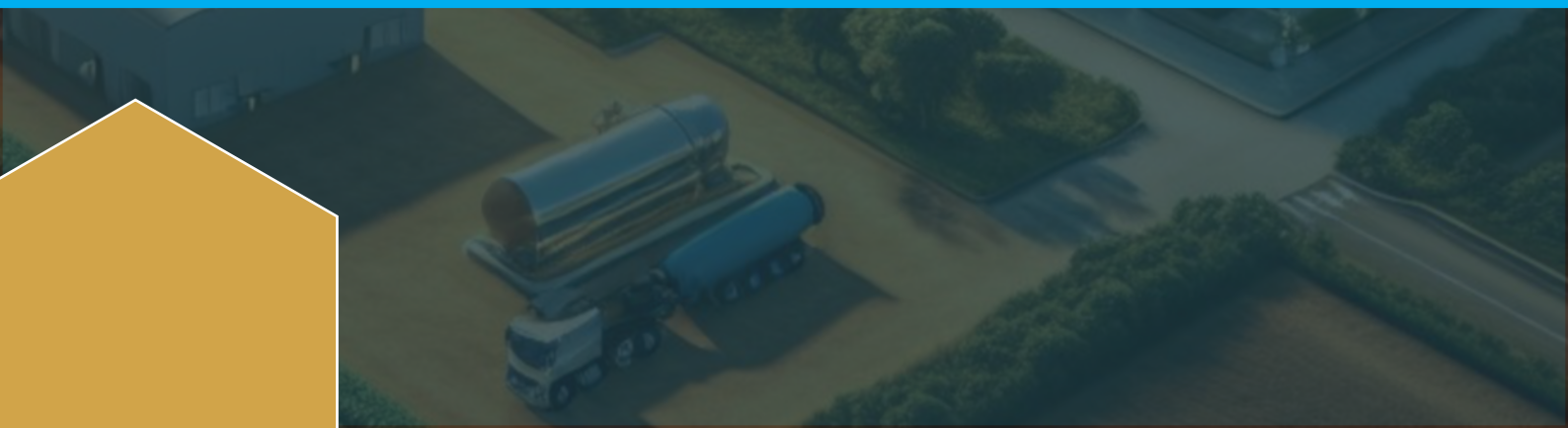
Mr. Muhammad Khalid Sarparah; Chief Executive Officer and his team briefed recently posted Secretary Energy; Mr. Muhammad Dawood Bazai during visit of BECL



Chief Executive Officer briefed the Parliamentary Secretary for Energy Balochistan; Mir Asghar Rind



On call of Caretaker Minister for Energy Balochistan, BECL's team headed by the Chief Executive Officer briefed on initiatives and so far, progress of BECL



BOARD OF DIRECTORS

BECL is operating under the supervision and guidance of its Board of Directors which is an apex forum. The following sub-committees have been framed and notified to oversight the policy matters of the Company in relevant traits: -

- i. Nomination and HR Committee
- ii. Procurement Committee
- iii. Strategy and Business Development Committee
- iv. Audit and Finance Committee



Meeting was held on 23rd November 2023, Co-chaired by Prince Ali Ahmed; Caretaker Minister for Energy/Member and Syed Zafar Ali Bukhari; Secretary Energy



*Meeting of Nomination and HR Committee; chaired by the Prince Ahmed Ali Ahmed/Chairman.
(29th November 2023)*



Meeting of Accounts and Audit Committee was held, chaired by the Dr. Kamran Sami/Chairman



Meeting was held on 20 February 2024, chaired by the Prince Ahmed Ali Ahmed/Chairman.
(29th November 2023)

Team Brief Profile

Mr. Muhammad Khalid Sarparah Chief Executive Officer

Government of Balochistan posted Mr. Khalid Sarparah (BPS-20) in February 2023 as Chief Executive Officer BECL. He is from BSS group of GoB and having rich experience in Public Administration, Planning and Finance. He has attended foreign management trainings in Netherland, Italy, South Korea, China, Indonesia and Singapore. He remained on different management positions during his career including Secretary (Planning); P&D Department GoB.



Mr. Samiullah Musa FCA Chief Financial Officer cum Company Secretary

Mr. Samiullah Musa FCA joined BECL in 2021 as CFO cum Company Secretary. He is a Fellow Member of the Institute of Chartered Accountants of Pakistan (ICAP) with two decades of experience. Prior to joining BECL, he had served with various organizations such as KPMG, Deloitte, EY, BUITMES, World Bank Administered and MDTF Funded Government Project in the fields of Audit, Finance, Procurement, Contract Management, etc. in various regions such as Socialist Republic of Vietnam, Nigeria, Kingdom of Saudi Arabia, Afghanistan and Pakistan.



Mr. Muhammad Aslam General Manager (Oil & Gas)

Mr. Muhammad Aslam has joined BECL in 2024 as General Manager (Oil and Gas). Prior to BECL, he has served with various organizations like Oil and Gas Development Company Limited (OGDCL) and United Energy Pakistan (UEPL) Former British Petroleum. Aslam is Petroleum Engineer by profession through Pakistan Engineering Council (PEC) and member of Society of Petroleum Engineers (SPE) International USA and bears 16 years of field experience in oil and gas sector with 4 years of regulatory experience as Provincial Director- Balochistan at Director General of Petroleum Concessions, Petroleum House, Islamabad.



Mr. Abdul Ali Manager (HR/I.T./M&E)

Mr. Abdul Ali over 18 years of combined education, graduated in Computer Science from University of Punjab, Lahore and completed his MBA (HR) from BUITEMS, Quetta. He has proven professional working experiences of more than 15 years in the diversified fields specially focusing Monitoring & Evaluation, Information Communication Tech. and Human Resource. He has served in different projects; funded by international, national organizations like UNDP, USAID, World Bank, PCB, NRSP beside working with Government of Pakistan and Government of Balochistan. He has attended courses related Public Management, M&E, HR Management from LUMS, IBA for professional development. Mr. Ali joined BECL in November 2020 as Manager (HR/IT/M&E) and has since been dedicated to fulfilling the role's requirements, aligning with industry demands and driving success for BECL.



Mr. Shakeel Ahmed Manager (Finance)

The professional journey of Mr. Shakeel Ahmed Manager of Finance-BECL has exposed him to a variety of roles, from managing finances and coordinating projects to facilitating audits for reputable chartered accountant firms. His current position as Manager-Finance at Balochistan Energy Company Limited has enhanced his financial management skills, ensuring compliance with regulations and achieving strategic goals. He has been privileged to work with World Bank and United Nations Development Program-funded initiatives, contributing to financial compliance, reporting, and accountability. He has worked with the Semi-Government Program National Commission for Human Development as a focal person for six different districts of Balochistan. Mr. Shakeel joined BECL in November 2020.



Mr. Muhammad Ayub Khan Manager (Administration)

Mr. Ayub Khan has been serving with BECL as Manager Administration since October 2024. Before this, he worked with various INGOs in Balochistan & Sindh regions, and having extensive work experience in Supply Chain Management, HRM, Logistics and General administration.



Mr. Jahangir Khan Manager (Power)

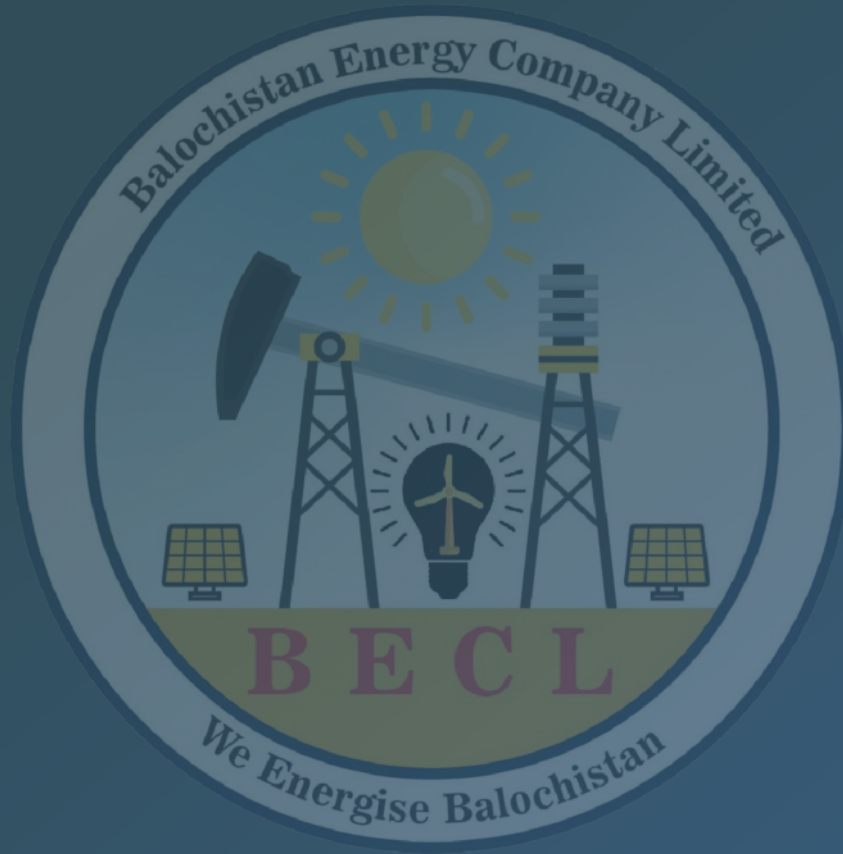
Jahangir Khan is Electrical (Power) Engineer having previous experience at Uch Power Plant, FAO and Agriculture University Quetta and currently he is on deputation as Manager Power at BECL. He is good in planning and execution of creative ideas, ability to work with people at different hierarchy level and demonstrated ability to handle multiple tasks simultaneously.



Mr. Shayan Ali Siddiqui Renewable Energy Engineer

Mr. Shayan Ali joined BECL in 2021 as Renewable Energy Engineer. He graduated from BUITEMS in BS Mechanical Engineering, having major areas of interest in renewable energy projects designing, maintenance planning and project management. Having previous experience as an intern at a combined cycle power plant. In BECL, Mr. Shayan has been involved in making Concept Papers for various RE Projects, dealing with Liquid Gases Projects and also handling day to day tasks of E&P Sector.





Editor, Progress: 2024

Manager (HR/I.T./M&E)
Balochistan Energy Company Limited,
67-A, Main Road Jinnah Town,
Quetta Balochistan. Pakistan
Website: www.becl.com.pk
UAN: +92(0) 2863711
e-mail: info@becl.com.pk

