

ENERGY & NATURAL RESOURCES

INDUSTRY REVIEW





Brockville Investments Advisory



Africa Energy & Natural Resources Review

Energy Transition in view :

Will Africa achieve a just transition?

ABOUT BROCKVILLE

BROCKVILLE
INVESTMENTS ADVISORY
Energy & Hatural Resources

Brockville is a research-based asset development & management firm. Our team comprises industry experts and advisors with deep knowledge & experience covering oil & gas, renewable energy, power, mining, agriculture, and financial services. We have access to data, expert opinions, and insights into essential industry trends and information vital to investment decision-making.



We work in all segments including Upstream, Mid Stream, and Downstream covering areas such as exploration, production, pipeline, transportation, trading, farming, exportation, and more.

MEET OUR TEAM

We offer end-to-end research & project development services in the energy and natural resources sector. We cover engineering, scientific, geoscience, commercial, economic, strategic & market analysis.



Olawunmi Olatunj CEO



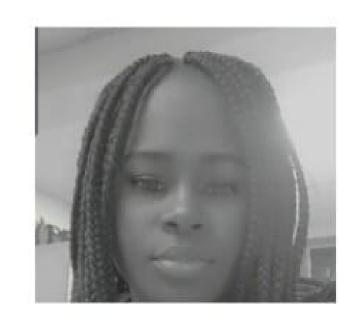
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Brockville Provides research insights to enhance business decision making

Africa is enriched with abundant natural resources, ranging from minerals and metals to forests and arable land. The Energy & Natural Resources sector in Africa is a diverse industry that includes a range of activities such as oil and gas exploration, mining, agriculture, forestry, management, and renewable water energy development. There is a massive potential for growth and development in this sector, evidenced by the significant investments and development in recent years by. The sector plays a pivotal role in the economies of many African countries, contributing extensively to job creation, foreign exchange earnings, and improved livelihood and economic growth. One of the notable trends was the increasing focus on gas as a transition fuel and on renewable energy as an energy source. Some African countries have set ambitious targets for renewable energy adoption.

For Africa, shifting to a lowcarbon economy in a way that is fair and equitable for all and sundry, including employees, communities, and at risk groups is a complex process

For Africa, shifting to a low-carbon economy in a way that is fair and equitable for all and sundry, including employees, communities, and at risk groups is a complex process. The complexity involves ensuring that the costs and benefits of the transition are distributed in a just manner, and that no group is extremely affected. idea of stabilising the need for economic growth and development with requirement to reduce carbon emissions and mitigate the impacts of climate change has to be rigorously evaluated because many African countries are heavily reliant on fossil fuels for their energy needs, but are also vulnerable to the impacts of climate change including droughtsJMffolds, and other extreme weather events.



Energy Sector Review

The energy sector in Africa is dominated by fossil fuels, with oil and gas accounting for a significant portion of the region's energy mix. According to the Europe Africa Foundation, in 2021 Fossil fuels played a prominent part in energy provision in Africa, with oil, gas and coal the three leading commercially traded fuels for electricity generation. Oil remains the primary energy source for Africa, followed by natural gas and coal. These three fossil fuels account for 90.5% of energy consumption in Africa. However, sector is undergoing gradual transformation, with increasing focus on renewable energy sources such as solar, wind, and hydropower. Despite the progress made in recent years, energy access remains a significant challenge in many African countries, with a large proportion of the population lacking access to reliable electricity.

Energy trends

Africa remains a region with a chronic lack of electricity supply. Despite being home to around 20% of the world's population, the continent generated only 3.1% of the global total electricity supply in 2020, with less than 900TWh produced. According to data from BP, this electricity production is concentrated in a few countries, with South Africa and Egypt generating more than half of the total amount.

The situation is particularly dire in sub-Saharan Africa, where less than half of the population had access to electricity in 2019, with only 27% in rural areas and 83% in urban areas. However, some North African countries and a few smaller economies with higher development levels, such as Mauritius, Seychelles, Egypt, and Tunisia, have achieved 100% electricity access. Among the largest economies, South Africa has an access rate of 85%, while Kenya and Nigeria are at 75.9% and 62%, respectively. In contrast, South Sudan has the lowest access rate of just 6.7%, with Chad following closely behind at 8.4%.

Renewable energy is an area of significant potential growth and opportunity in Africa. Many countries in the region have set ambitious targets for renewable energy adoption, and there have been significant investments in renewable energy projects in recent years. Solar energy is the most popular form of renewable energy in Africa, followed by wind and hydropower. The growing demand for renewable energy presents significant opportunities for investors and developers in the sector. Localized power systems such as Minigrids can operate independently of the main grid, and have emerged as a potential solution to this energy challenge.





These localized power systems can provide reliable and affordable electricity to remote and underserved areas, and there have been significant investments in mini-grid projects in recent years. Regulatory and policy developments are critical to the growth and development of the energy sector in Africa. Many countries have implemented policies and regulations to encourage investment in renewable energy and improve energy access, and there have been significant efforts to harmonize energy policies across the region. However, there is still a need for greater policy coordination and implementation to fully unlock the potential of the sector.

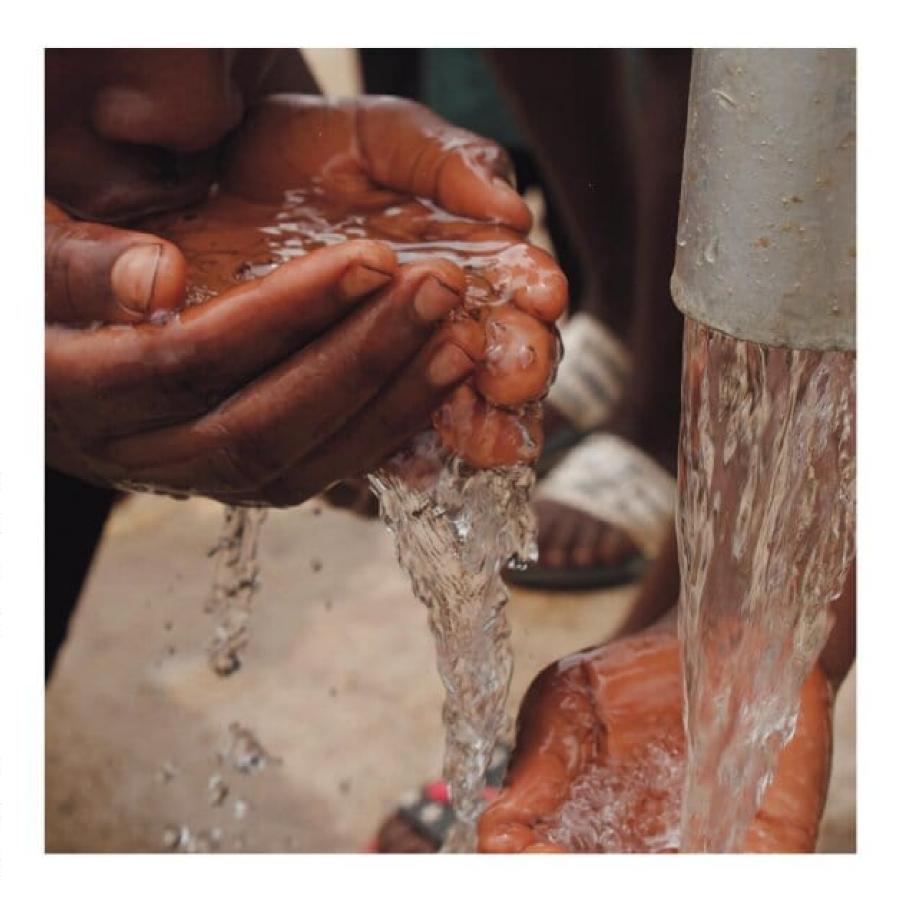
In Africa, the energy challenge can be solved with a robust mix of energy sources, including gas. Though the fossil fuel sector is facing challenges, including environmental concerns and subsequent access to funding. The sector still presents opportunities for investment and growth, particularly in countries with large reserves such as Nigeria and Angola. There is also increasing interest in developing natural gas resources in the region, which could provide a cleaner and more reliable source of energy than oil.

Natural Resources Sector Review

The natural resources sector in Africa is diverse and includes minerals, forests, land, and water resources. The sector is a significant contributor to many African economies, with mining and agriculture being the primary drivers of growth. Several African countries heavily rely on the natural resources sector as a significant contributor to their GDP.

Mining is a significant contributor to many African economies, with the region being home to some of the world's largest reserves of minerals and metals such as gold, platinum, and diamonds. The sector has undergone significant transformation in recent years, with increasing focus on value addition and beneficiation. There have also been significant investments in new mining projects, particularly in countries such as South Africa, Ghana, and Zambia. Democratic Republic of Congo (DRC) is a significant producer of minerals, including cobalt, copper, and diamonds. The country is a leading producer of platinum, gold, and chromium. Zambia is a significant producer of copper, which accounts for approximately 70% of the country's export earnings and about 10% of its GDP. The mining sector, particularly gold, is a significant contributor to Ghana's economy, accounting for about 5% of the country's GDP and over 90% of its mineral exports. However, the sector faces several challenges, including environmental degradation, inadequate infrastructure, and governance issues.

The energy transition is driving the adoption of new technologies in the mining sector, such as electric vehicles and renewable energy-powered equipment. This presents both challenges and opportunities for mining companies as they adapt to new technologies and find ways to integrate them into their operations. This shift to energy transition has also led to Increased demand for critical minerals. At the same time, the energy transition is expected to increase the demand for critical minerals such as lithium, cobalt, and rare earth elements, which are used in the production of renewable energy technologies like batteries, solar panels, and wind turbines. This could create new opportunities for mining companies that have access to these resources. With this increased demand also comes increasing pressure to reduce greenhouse gas emissions. The mining sector is a significant contributor to greenhouse gas emissions, primarily through the use of diesel-powered equipment and the energy required for mineral processing. As countries work towards decarbonization, there will be increasing pressure on mining companies to reduce their emissions and transition to more sustainable practices.





Brockville Provides research insights to enhance business decision making

Agriculture is also a significant contributor to the African economy, accounting for over 15% of the continent's GDP. The sector employs over 60% of the African population and is the primary source of income for many rural communities. Africa has vast agricultural potential, with its fertile land and favuorable climate. However, the sector faces several challenges, including poor infrastructure, low productivity, and climate change. Forestry and water management are also critical components of the natural resources sector in Africa.



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The energy transition is likely to have significant impacts on the agriculture sector, both in terms of opportunities and challenges.

The energy transition is driving increased demand for biofuels, which are derived from biomass such as crops or agricultural waste. This could create new markets for agricultural producers who can supply feedstocks for biofuel production.

The agriculture sector is a significant energy consumer, particularly in areas such as irrigation and transportation. The energy transition could drive the adoption of more energy-efficient practices and technologies, such as precision agriculture and electric vehicles

Investment Opportunities

Key investment opportunities in the sector include renewable energy, mining, and agriculture. Gas to power solutions and renewable energy presents a significant investment opportunity, with countries like Nigeria investing heavily in gas and renewable energy projects to meet growing energy demand and address environmental concerns. Mining and agriculture also present significant investment opportunities due to the abundance of natural resources in the continent. However, the sector faces several challenges, including inadequate infrastructure, political instability, and environmental degradation. These challenges can affect the profitability of investments in the sector, making it necessary for investors to carefully assess the risks and opportunities before investing. Financing and funding options in the sector include private equity, venture capital, debt financing, and project financing. Multilateral development banks and export credit agencies also provide funding for projects in the sector. Publicprivate partnerships (PPPs) play a crucial role in the energy and natural resources sector in Africa by providing a framework for collaboration between the public and private sectors to develop and finance projects. PPPs help to address some of the challenges facing the sector, such as inadequate infrastructure and financing. They also provide a platform for the transfer of knowledge and expertise, promoting sustainable development in the sector.

Conclusion

The Energy & Natural Resources sector in Africa has experienced significant growth and development in 2023, with renewable energy investments, mining, presenting agriculture significant investment opportunities. Regulatory and policy developments have also created an attractive investment climate in the sector. However, challenges such as inadequate infrastructure, political instability, and environmental degradation remain. Achieving a just transition in Africa is a critical issue that requires significant investment and collaboration among policymakers, industry leaders, and communities. African countries are highly vulnerable to the impacts of climate change and the transition to cleaner energy sources including gas as a transition fuel is necessary to mitigate these impacts. However, the transition must be done in a way that is fair and equitable for all stakeholders, including workers in the energy sector and communities that may be impacted by the transition. A just transition in Africa will require significant coordination and collaboration to ensure that the benefits of the transition are shared equitably among all stakeholders.



BROCKVILLE INVESTMENTS ADVISORY



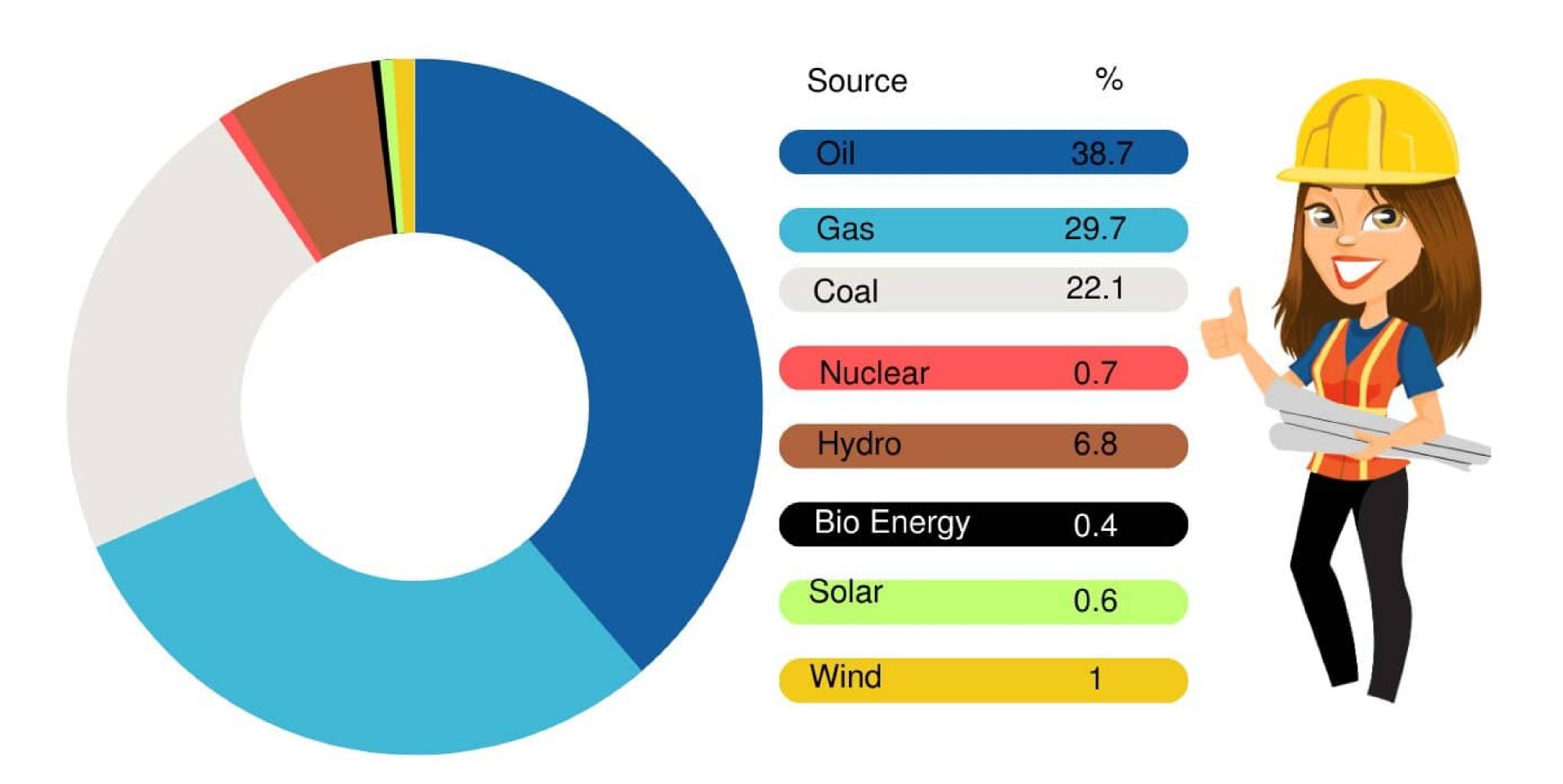
SECTOR HIGHLIGHTS





Energy Mix In Africa

In 2021 Fossil fuels played a prominent part in energy provision in Africa, with oil, gas, and coal the three leading commercially traded fuels for electricity generation. Oil remains the primary energy source for Africa, followed by natural gas and coal. These three fossil fuels account for 90.5% of energy consumption in Africa.



Africas Energy Generation Mix

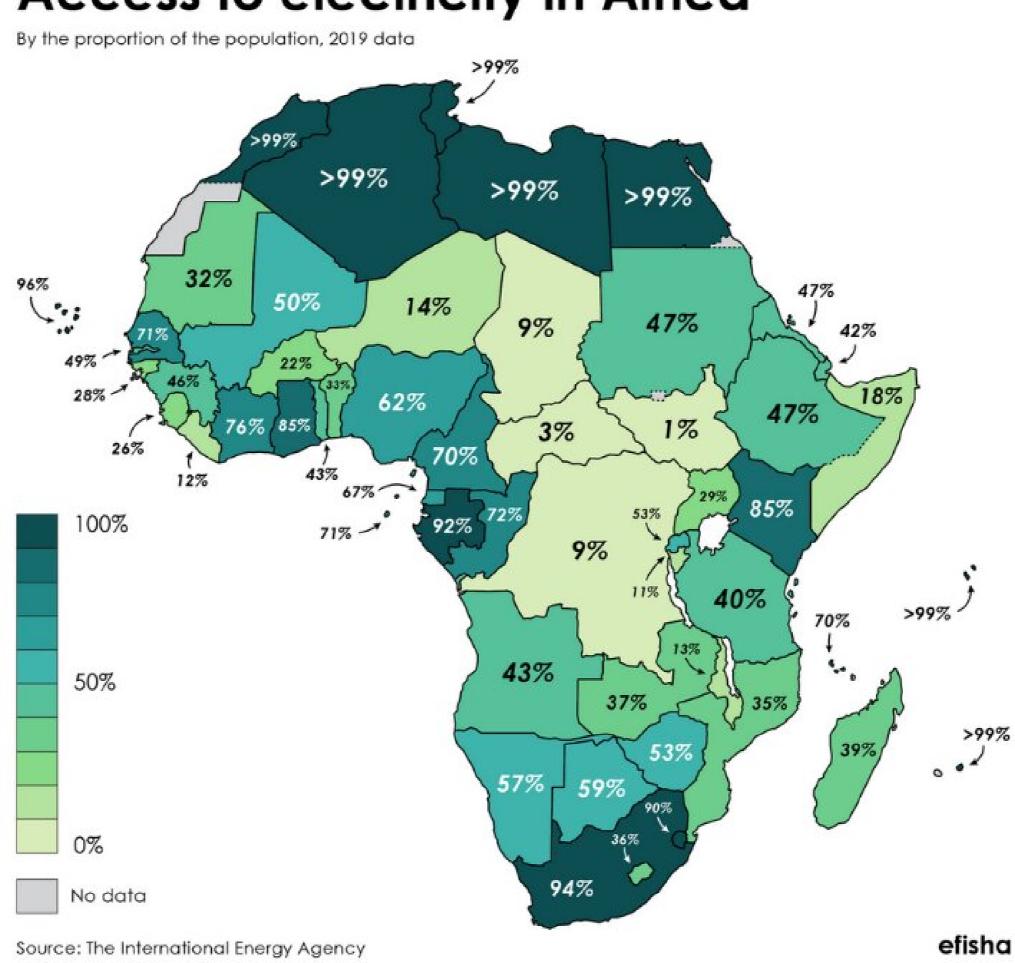
Adapted from BP Energy Outlook, 2020



Electricity Access In Africa

Despite the progress made in recent years, energy access remains a significant challenge in many African countries, with a large proportion of the population lacking access to reliable electricity. There are significant disparities between African countries.

Access to electricity in Africa



Country	% Access	Country	% Access
Algeria	99.9	Equatorial Guinea	41.9
Angola	43.9	Eritrea	22.9
Benin	67.9	Eswatini	42.9
Botswana	63.9	Ethiopia	45.9
Burkina faso	23.9	Gabon	87.9
Burundi	9.9	Gambia	38.9
Cabo Verde	74.9	Ghana	85.9
Cabo Verde	61.9	Guinea	33.0
Central African Republic	4.9	Guinea-Bissau	21.9
Chad	8.9	Kenya	75.9
Comoros	29.9	Lesotho	32.9
Congo, Democratic Republic of the	19.9	Liberia	3.9
Congo, Republic	28.9	Libya	100
Cote d'Ivoire	66.9	Madagascar	18.9
Djibouti	48.9	Malawi	11.9
Egypt	100	Mali	34.9

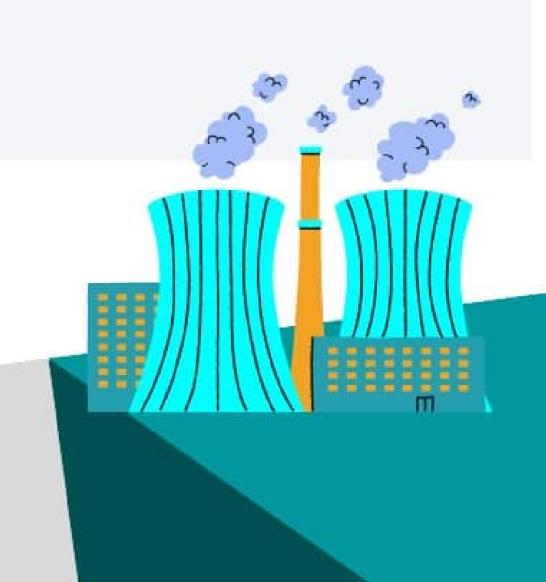
Country	% Access	Country	% Access
Mauritania	57.9	Togo	32.9
Morocco	99.9	Zambia	40.9
Mozambique	31.9	Zimbabwe	41.9
Namibia	48.9	Ethiopia	45.9
Niger	7.9	Gabon	87.9
Nigeria	64.9	Gambia	38.9
Rwanda	47.9	Ghana	85.9
Sao Tome and Principe	66.9	Guinea	33.0
Senegal	69.9	Guinea-Bissau	21.9
Seychelles	99.9	Kenya	75.9
Sierra Leone	15.9	Lesotho	32.9
Somalia	13.9	Liberia	3.9
South Africa	84.9	Libya	100
South Sudan	6.9	Madagascar	18.9
Sudan	36.9	Malawi	11.9
Tanzania	32.9	Mali	34.9



TOP 30 ONGOING POWER PROJECT IN AFRICA

TOP 30 ONGOING POWER PROJECT IN AFRICA	CAPACITY	CAPEX
Makambako Solar Project - Tanzania,	6 MW	\$16.5 million
Red Sea Wind Power Project - Egypt,	120 MW	\$400 million
Zina Solar Power Project - Niger,	130 MW	\$130 million
Malindi Solar Group Project - Kenya.	130 MW	\$155 million
Cascade Solar Power Project - Morocco,	150 MW	\$300 million
Nzema Solar Power Station - Ghana,	155 MW	\$400 million
Khoumagueli Solar Power Plant - Gabon,	70 MW	\$150 million
Senergy 2 Solar Power Project - Senegal,	160 MW	\$160 million
Alitar Solar Power Plant - Morocco,	170 MW	\$170 million
Djermaya Solar Power Plant - Chad.	32 MW	\$50 million
Bokpoort Concentrated Solar Power Plant - South Africa,	50 MW	\$260 million
Akuo Kita Solar Power Plant - Mali,	50 MW	\$80 million
Lambaréné Solar Power Plant - Gabon,	50 MW	\$65 million
Bongo Solar Power Plant - Togo,	50 MW	\$50 million
Katsina Solar Power Project - Nigeria,	50 MW	\$100 million
Sonabel PV Power Plant - Burkina Faso,	52 MW	\$60 million
Tomé Solar Power Plant - Guinea-Bissau,	50 MW	\$68 million
Bangweulu Solar Power Plant - Zambia,	54 MW	\$100 million
Duba Solar Park - Egypt,	200 MW	\$310 million
Tulu Moye Geothermal Power Project - Ethiopia,	520 MW	\$2.5 billion
Ouarzazate Solar Power Station - Morocco,	582 MW	\$3.9 billion
Kafue Gorge Lower Hydropower Project - Zambia,	750 MW	\$2 billion
Azura-Edo Gas Power Project - Nigeria,	461 MW	\$880 million
Kpone Thermal Power Station - Ghana,	450 MW	\$900 million
Engro Thar Block II Coal Power Project - Pakistan,	660 MW	\$1.1 billion
Olorunsogo II Power Station Expansion - Nigeria,	600 MW	\$450 million
Karuma Hydropower Project - Uganda.	600 MW	\$1.7 billion
Qua Iboe Power Plant - Nigeria,	540 MW	\$1.1 billion
Zungeru Hydroelectric Power Project - Nigeria,	700 MW	\$1.3 billion
Mambilla Hydropower Project - Nigeria.	3,050 MW	\$5.8 billion

Source: African Energy Live Data Platform (2022)





TOP 30 PLANNED POWER PROJECT IN AFRICA

TOP 30 PLANNED POWER PROJECT IN AFRICA	CAPACITY	CAPEX
Kenyatta University Solar Plant - Nairobi, Kenya	10 MW	\$14 million
Nigerian Solar City Project - Kano, Nigeria	10 MW	\$16 million
Benguela Solar Power Project - Benguela, Angola	100 MW	\$300 million
Djibouti Geothermal Power Project - Asal Rift, Djibouti	100 MW	\$500 million
Redstone Concentrated Solar Power Plant - Postmasburg, South Africa	100 MW	\$600 million
Katsina Wind Farm - Katsina State, Nigeria	100 MW	\$186 million
Lamu Coal Power Station - Lamu, Kenya	1,050 MW	\$2 billion
Itobe Coal Power Project - Kogi State, Nigeria	1,200 MW	\$4.4 billion
Abuja Smart City Project - Abuja, Nigeria	1,350 MW	\$4.5 billion
Akon City Solar Project - Mbodiene, Senegal	1,000 MW	\$6 billion
Lagos Island Smart City Project - Lagos, Nigeria	1,000 MW	\$5 billion
Bumbuna II Hydropower Project - Bumbuna, Sierra Leone	143 MW	\$486 million
Adama III Wind Power Project - Adama, Ethiopia	153 MW	\$345 million
Nkula A Hydropower Plant Expansion - Malawi	180 MW	\$300 million
Ayitepa Wind Power Project - Greater Accra, Ghana	225 MW	\$525 million
Rabai Gas Power Plant - Rabai, Kenya	231 MW	\$365 million
Soubre Hydroelectric Power Station - Soubre, Cote d'Ivoire	275 MW	\$571 million
Lake Albert Oil Field Project - Uganda	200 MW	\$3 billion
Nouakchott Solar Power Station - Nouakchott, Mauritania	30 MW	\$40 million
Tasiast Solar Power Plant - Tasiast, Mauritania	30 MW	\$40 million
Kinangop Wind Power Project - Kinangop, Kenya	60.8 MW	\$138 million
Lake Turkana Wind Power Project - Turkana, Kenya	310 MW	\$690 million
Cenpower Kpone Independent Power Project - Kpone, Ghana	340 MW	\$900 million
Gurara II Hydropower Project - Kaduna State, Nigeria	360 MW	\$1.2 billion
Olorunsogo II Power Station Expansion - Ogun State, Nigeria	600 MW	\$450 million
Karuma Hydropower Project - Karuma Falls, Uganda	600 MW	\$1.7 billion
Engro Thar Block II Coal Power Project - Tharparkar, Pakistan	660 MW	\$1.1 billion
Zungeru Hydroelectric Power Project - Niger State, Nigeria	700 MW	\$1.3 billion
Kafue Gorge Lower Hydropower Project - Kafue River, Zambia	750 MW	\$2 billion
Rusumo Falls Hydroelectric Project - Kagera River, Tanzania/Rwanda	80 MW	\$470 million
Tulu Moye Geothermal Power Project - Tulu Moye, Ethiopia	520 MW	\$2.5 billion
Mambilla Hydropower Project - Taraba State, Nigeria	3,050 MW	\$5.8 billion
Batoka Gorge Hydroelectric Scheme - Zambia/Zimbabwe	2,400 MW	\$4 billion
Grand Inga Dam Project - Congo River, Democratic Republic of Congo	40,000 MW	\$80 billion
Lubilia Kawama Hydropower Project - Lubilia, Congo	4,800 MW	\$14 billion

Source: Various



GREEN JOBS OF THE FUTURE

As the world transits to a green future, young people will need to develop skills for the green jobs of the future. This however can get tricky since the future is not yet here. A report published by Dell Technologies and the Institute For The Future (IFTF) 85 per cent of the jobs that will exist in 2030 haven't even been invented yet.



Sectors such as Farming and architecture will need new green skills according to the United

Nations Environment Programme. For a Just Transition to be possible, here are the skills young people in Africa will need for the green jobs of the future

Here are six key skill categories that can help you build a successful career in the future

Skill	Descritpion	Some Roles
Science	workers with a strong science background	environmental scientists, biologists, hydrologists and biochemists
Architectural and planning	energy efficient buildings, fewer resources used to construct and operate them	Architects and planners
Green engineering and tech	design and maintain solar panels, wind turbines, low emissions vehicles and other green economy technology.	Engineers in green sectors
Agriculture	sustainable farming organic farming, urban farming and precision agriculture	Data experts to measure and improve farming efficiency.
Environmental justice	intersection of human rights and environmental rights.	Environmental & human Right Lawyers
Systems	Design, operate and monitor a wide range of systems. skills in macroeconomics to build sustainability into long-term infrastructure projects.	System Analyst

COMMODITY PRICING

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. "				Jan-Dec	111100000000000000000000000000000000000	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jan	Feb	Mar
Commodity	Unit		2020	2021	2022	2022	2022	2022	2022	2023	2023	2023	2023
Energy	611	.1/20	00.0	400.4	044.0	040.0	050.0	440.0	070.4	007.0	040.0	007.5	4074
Coal, Australia **	\$/mt	a/	60.8	138.1	344.9	243.6	352.3	413.3	370.4	237.6	318.0	207.5	187.2
Coal, South Africa **	\$/mt		65.7	119.8	240.6	219.8	291.1	259.6	191.8	151.2	172.0	144.7	136.8
Crude oil, average	\$/bbl		41.3	69.1	97.1	96.6	110.1	96.4	85.3	79.0	80.4	80.3	76.
Crude oil, Brent	\$/bbl	a/	42.3	70.4	99.8	99.0	112.7	99.2	88.4	81.4	83.1	82.7	78.
Crude oil, Dubai	\$/bbl		42.2	68.8	97.0	96.5	108.9	98.3	84.6	79.6	80.0	81.2	77.
Crude oil, WTI	\$/bbl		39.3	68.0	94.4	94.5	108.7	91.8	82.9	76.1	78.1	76.8	73.4
Natural gas, Index	2010=100	1400120	45.5	130.7	281.6	221.8	251.8	396.8	255.9	125.1	149.4	120.0	105.
Natural gas, Europe **	\$/mmbtu	a/	3.24	16.12	40.34	32.63	31.64	60.16	36.93	16.84	20.18	16.54	13.8
Natural gas, U.S.	\$/mmbtu	a/	2.01	3.85	6.37	4.62	7.45	7.93	5.47	2.65	3.27	2.38	2.3
Liquefied natural gas, Japan	\$/mmbtu	a/	8.31	10.76	18.43	15.60	16.17	21.28	20.67	18.87	20.19	18.42	18.00
Non Energy Commodities Agriculture													
Beverages													
Cocoa	\$/kg	b/	2.37	2.43	2.39	2.49	2.38	2.29	2.41	2.68	2.62	2.65	2.75
Coffee, Arabica	\$/kg	b/	3.32	4.51	5.63	5.95	5.88	5.82	4.88	4.84	4.56	5.06	4.90
Coffee, Robusta	\$/kg	b/	1.52	1.98	2.29	2.38	2.28	2.36	2.12	2.25	2.12	2.29	2.3
Tea, average	\$/kg		2.70	2.69	3.05	2.75	3.06	3.34	3.05	2.72	2.77	2.70	2.7
Tea, Colombo	\$/kg	b/	3.40	3.13	3.87	3.49	3.77	4.24	4.00	3.95	4.04	3.96	3.8
Tea, Kolkata	\$/kg	b/	2.69	2.83	2.83	2.14	3.08	3.41	2.70	1.88	1.94	1.86	1.8
Tea, Mombasa	\$/kg	b/	2.01	2.11	2.45	2.65	2.34	2.36	2.44	2.34	2.33	2.29	2.40
Food													
Oils and Meals													
Coconut oil	\$/mt	b/	1,010	1,636	1,635	2,131	1,869	1,391	1,147	1,093	1,079	1,087	1,119
Fishmeal	\$/mt		1,433	1,481	1,596	1,463	1,629	1,609	1,682	1,754	1,780	1,762	1,720
Groundnuts	\$/mt		1,839	1,555	1,568	1,489	1,511	1,629	1,643	1,727	1,681	1,750	1,75
Groundnut oil **	\$/mt	b/	1,698	2,075	2,203	2,372	2,146	2,146	2,146	2,038	1,971	2,043	2,10
Palm oil	\$/mt	b/	752	1,131	1,276	1,548	1,634	997	925	955	942	950	972
Palmkernel oil	\$/mt	1,000	824	1,533	1,617	2,360	1,810	1,241	1,056	1,049	1,060	1,037	1,052
Soybean meal	\$/mt	b/	394	481	548	566	546	536	544	597	605	605	58
Soybean oil	\$/mt	b/	838	1,385	1,667	1,674	1,887	1,560	1,546	1,236	1,352	1,243	1,113
Soybeans	\$/mt	b/	407	583	675	663	727	671	640	635	627	651	62
MID-11994 COLO													
Grains													
Barley	\$/mt	b/	97.6	***	***	***							
Maize	\$/mt	b/	165.5	259.5	318.8	301.6	342.9	308.5	322.2	294.5	302.8	298.2	282.
Rice, Thailand 5%	\$/mt	b/	496.8	458.3	436.8	425.3	446.3	429.3	446.0	495.0	517.0	492.0	476.0
Rice, Thailand 25%	\$/mt		481.8	448.3	429.7	420.0	442.7	420.3	435.7	485.7	507.0	482.0	468.0
Rice, Thailand A1	\$/mt		474.6	436.1	417.7	405.4	426.5	413.9	425.2	471.5	484.6	469.0	460.9
Rice, Vietnam 5%	\$/mt		428.0	446.3	404.5	390.6	406.9	399.7	420.9	444.5	440.7	448.3	444.0
Sorghum	\$/mt	Ng cases	171.6	***	***	***		***		***	•••	***	
Wheat, U.S., HRW **	\$/mt	b/	231.6	315.2	430.0	417.0	492.4	394.8	415.7	381.7	380.4	394.8	369.9
Wheat, U.S., SRW **	\$/mt		227.7	281.7	381.9	370.4	415.2	316.7	***	298.3	***	311.9	284.
Other Food	(2024)												
Bananas, EU	\$/kg		0.90	0.92	0.94	0.95	0.96	0.89	0.98	1.09	1.07	1.10	1.1
Bananas, U.S.	\$/kg	b/	1.22	1.21	1.49	1.26	1.45	1.61	1.64	1.65	1.68	1.66	1.60
Beef	\$/kg	b/	4.67	5.39	5.78	6.14	6.06	5.73	5.18	5.18	4.86	5.08	5.59
Chicken	\$/kg	b/	1.63	2.26	3.35	3.02	3.68	3.39	3.31	3.32	3.31	3.31	3.3
Lamb **	\$/kg		7.83	11.55	11.94	13.01	12.69	11.32	10.75	10.55	10.75	10.69	10.2
Oranges	\$/kg	b/	0.60	0.65	0.92	0.76	0.92	0.90	1.09	1.23	1.09	1.30	1.2
Shrimp	\$/kg		12.67	13.70	13.51	14.87	14.99	12.73	11.46	11.18	11.46	11.06	11.00
Sugar, EU	\$/kg	b/	0.37	0.39	0.34	0.37	0.35	0.33	0.33	0.35	0.35	0.35	0.3
Sugar, U.S.	\$/kg	b/	0.59	0.74	0.79	0.79	0.80	0.77	0.79	0.82	0.80	0.81	0.84
Sugar, World	\$/kg	b/	0.28	0.39	0.41	0.41	0.43	0.40	0.40	0.44	0.42	0.45	0.45

SOURCE : World Bank Commodities Price Data (The Pink Sheet)

COMMODITY PRICING



			Ann	ual Avera	ages		Quart	Monthly Averages					
			Jan-Dec	Jan-Dec	Jan-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jan	Feb	Mar
Commodity	Unit		2020	2021	2022	2022	2022	2022	2022	2023	2023	2023	2023
Raw Materials													
Timber													
Logs, Africa	\$/cum		399.5	414.2	368.9	393.0	373.1	352.6	357.1	375.6	377.1	375.1	374.
Logs, S.E. Asia	\$/cum	b/	278.9	271.4	228.0	256.2	229.7	215.4	210.7	224.9	228.2	224.0	222
Plywood	¢/sheets		511.6	497.7	418.2	469.8	421.3	395.1	386.5	412.6	418.6	410.9	408
Sawnwood, Africa	\$/cum		615.2	659.3	593.0	643.2	602.6	564.0	562.2	582.1	585.2	579.5	581
Sawnwood, S.E. Asia	\$/cum	b/	699.7	750.0	674.5	731.6	685.5	641.5	639.4	662.1	665.7	659.2	661
Other Raw Materials													
Cotton	\$/kg	b/	1.59	2.23	2.86	3.02	3.48	2.74	2.22	2.17	2.21	2.19	2.
Rubber, RSS3	\$/kg		1.73	2.07	1.81	2.07	2.06	1.62	1.49	1.61	1.63	1.62	1.3
Rubber, TSR20 **	\$/kg	b/	1.33	1.68	1.54	1.77	1.65	1.45	1.30	1.39	1.41	1.40	1.:
Fertilizers													
DAP	\$/mt		312.4	601.0	772.2	794.9	860.1	761.8	671.9	616.5	631.0	612.5	606
Phosphate rock	\$/mt	b/	76.1	123.2	266.2	174.8	264.0	320.0	305.8	322.5	300.0	322.5	345
Potassium chloride **	\$/mt	b/	241.1	542.8	863.4	851.7	1,158.0	877.6	566.5	486.2	508.8	496.9	453
TSP	\$/mt	b/	265.0	538.2	716.1	715.6	804.5	715.9	628.1	551.5	569.4	547.5	537
Urea, E. Europe **	\$/mt	b/	229.1	483.2	700.0	821.0	774.2	623.4	581.5	371.6	443.8	357.5	313
Metals and Minerals													
Aluminum	\$/mt	b/	1,704	2,473	2,705	3,250	2,879	2,355	2,336	2,405	2,502	2,416	2,2
Copper	\$/mt	b/	6,174	9,317	8,822	9,985	9,521	7,758	8,025	8,944	9,038	8,937	8,8
Iron ore	\$/dmt	b/	108.9	161.7	121.3	142.5	137.7	105.7	99.2	126.1	122.2	127.6	128
Lead	\$/mt	b/	1,825	2,200	2,151	2,325	2,196	1,976	2,105	2,137	2,201	2,093	2,1
Nickel	\$/mt	b/	13,787	18,465	25,834	26,765	28,951	22,104	25,514	26,070	28,195	26,728	23,2
Tin	\$/mt	b/	17,125	32,384	31,335	43,242	36,773	23,722	21,604	26,339	28,154	26,863	24,0
Zinc	\$/mt	b/	2,266	3,003	3,481	3,727	3,914	3,273	3,012	3,137	3,310	3,134	2,9
Precious Metals													
Gold	\$/toz	c/	1,770	1,800	1,801	1,873	1,874	1,726	1,729	1,888	1,898	1,855	1,9
Platinum	\$/toz	c/	883	1,091	962	1,029	960	886	972	994	1,053	959	9
Silver	\$/toz	c/	20.5	25.2	21.8	24.0	22.7	19.2	21.3	22.5	23.7	21.9	22
World Bank commodity price	e indices for	low	and middl	e income	countries	(2010=100))						
Energy			52.7	95.4	152.6	140.5	163.4	167.6	138.8	111.1	119.3	110.5	103
Non Energy Commodities			84.1	112.5	124.4	131.4	134.8	116.8	114.4	116.3	117.4	117.1	114
Agriculture			87.1	108.3	122.7	124.9	132.0	118.2	115.8	116.0	115.9	117.0	115
Beverages			80.4	93.5	106.3	108.8	108.3	108.8	99.3	100.9	97.5	102.6	102
Food			93.1	121.8	143.7	144.2	156.5	137.2	136.9	136.1	136.0	137.5	134
Oils and Meals			89.8	127.1	145.2	156.3	162.9	133.0	128.6	128.4	129.4	129.8	126
Grains			95.3	123.8	150.4	143.5	163.9	143.8	150.3	143.4	146.5	145.5	138
Other Food			95.5	113.1	135.6	128.8	141.3	136.8	135.5	139.5	135.2	140.3	143
Raw Materials			75.8	82.9	80.3	86.4	84.7	76.9	73.2	74.9	76.3	74.6	73
Timber			86.4	90.4	80.1	87.5	81.2	76.0	75.5	78.7	79.3	78.3	78
Other Raw Materials			64.2	74.8	80.5	85.1	88.5	77.8	70.7	70.8	73.0	70.5	68
Fertilizers			74.6	152.3	235.7	237.7	268.9	234.2	202.1	165.6	174.7	164.0	158
Metals and Minerals		100	79.1	116.4	115.0	132.6	125.4	100.6	101.5	111.5	114.0	112.0	108
Base Metals		d/	80.2	117.7	122.4	140.7	132.6	107.1	109.3	117.3	121.0	117.8	113
Precious Metals			133.5	140.2	136.8	143.6	142.3	129.5	131.8	143.1	144.9	140.3	144

Notes and Abbreviations:

a/ Included in the energy index; b/ Included in the non-energy index; c/ Included in the precious metals index; d/ Metals and Minerals exluding iron ore.

continued on next page

SOURCE: World Bank Commodities Price Data (The Pink Sheet)

^{\$ =} U5 dollar bbl = barrel cum = cubic meter dmt = dry metric ton kg = kilogram mmbtu = million British thermal units mt = metric ton toz = troy oz .. = not available ** = see next page "Changes in the recent issues"

COMMODITY PRICING-LOCAL



FEBRUARY 2022 MARKET PRICE UPDATE

			PRICE/TON	
COMMODITY	MARKET	STATE	(N) DATE	
Maize White	Muna	Borno	270,000	14/02/2022'
Maize Yellow	Muna	Borno	270,000	14/02/2022'
Cowpea Brown Big	Muna	Borno	550,000	14/02/2022'
Cowpea White Big	Muna	Borno	525,000	14/02/2022'
Cowpea Brown Iron	Muna	Borno	555,000	14/02/2022'
Groundnut Shelled	Muna	Borno	560,000	14/02/2022'
Millet Gero	Muna	Borno	270,000	14/02/2022'
Sorghum Red	Muna	Borno	280,000	14/02/2022'
Sorghum White	Muna	Borno	278,000	14/02/2022'
Maize White	Dawanau	Kano	215,000	18/02/2022'
Maize Yellow	Dawanau	Kano	215,000	18/02/2022'
Sorghum White	Dawanau	Kano	215,000	18/02/2022'
Sorghum Yellow	Dawanau	Kano	215,000	18/02/2022'
Millet Gero	Dawanau	Kano	225,000	18/02/2022'
Millet Maiwa	Dawanau	Kano	225,000	18/02/2022'
Soyabeans	Dawanau	Kano	405,000	18/02/2022'
Groundnut Bargo	Dawanau	Kano	610,000	18/02/2022'
Groundnut Dakar	Dawanau	Kano	615,000	18/02/2022'
Groundnut			600,000	
Bahausa/Kampala	Dawanau	Kano	720,000	18/02/2022'
Sesame Clean	Dawanau	Kano		18/02/2022'
Sesame Unclean	Dawanau	Kano	680,000	18/02/2022'
Cowpea White Big	Dawanau	Kano	430,000	18/02/2022'
Cowpea White Small	Dawanau	Kano	430,000	18/02/2022'
Cowpea Brown Big	Dawanau	Kano	440,000	18/02/2022'
Cowpea Brown Small	Dawanau	Kano	440,000	18/02/2022'
Sesame unclean	Doma	Nasarawa	630,000	16/02/2022'
Melon unshelled	Doma	Nasarawa	550,184	16/02/2022'
Groundnut unshelled	Doma	Nasarawa	229,591	16/02/2022'
Soyabeans	Doma	Nasarawa	270,000	16/02/2022'
White Maize	Doma	Nasarawa	185,527	16/02/2022'
Rice Paddy	Doma	Nasarawa	200,108	16/02/2022'
Rice Milled	Doma	Nasarawa	365,000	16/02/2022'
Maize White	Illela	Sokoto	235,000	13/02/2022'

SOURCE: NIGERIA COMMODITY EXCHANGE, 2022



WORLD WIDE OIL RIG COUNT

2023	Latin Americ	Europe	Africa	Middle East	Asia Pacific	Canada	U.S.	Total World
Jan	170	117	92	318	204	226	772	1899
Feb	181	111	94	327	202	248	758	1921
Mar	183	118	97	323	209	196	753	1879
Apr								
May								
Jun								
Jul								
Aug								
Sep								
Oct								
Nov								
Dec								
Avg.	178	115	94	323	205	223	761	1900
2022	Latin Americ	Europe	Africa	Middle East	Asia Pacific	Canada	U.S.	Total
Jan	158	111	86	289	197	190	601	1632
Feb	153	102	81	287	190	220	636	1669
Mar	160	78	87	303	187	185	661	1661
Apr	163	81	78	300	184	107	690	1603
May	155	79	76	314	193	93	718	1628
Jun	160	87	78	303	196	143	739	1706
Jul	163	87	78	309	196	186	756	1775
Aug	172	104	77	308	199	201	764	1825
Sep	180	106	80	308	205	211	763	1853
Oct	188	107	84	326	206	214	768	1893
Nov	185	102	91	330	202	201	779	1890
Dec	173	115	92	323	197	155	779	1834
Avg.	168	97	82	308	196	176	721	1747

SOURCE : Baker Huges Rig Count





Market Research

Our market research services are designed to help clients better understand the demand for their products or services. Our approach involves conducting in-depth surveys, analyzing market trends and data, and providing actionable insights and recommendations that enable our clients to make informed business decisions. Our market research helps clients understand the competition, customer needs, and regulatory environment, and identify opportunities for growth. We also identify gaps in the market that can help them develop new products and services that meet the needs of customers.



Feasibility Studies

With feasibility studies, we help clients to determine the viability of new projects or investments. Our team of experienced consultants conducts a rigorous analysis of technical, economic, and regulatory factors, as well as identifies potential risks and opportunities, to provide our clients with comprehensive feasibility reports that inform their decision-making. We also identify the infrastructure requirements, including location, capacity, and cost, and develop a plan for infrastructure investment.



Capital Raising

Our capital-raising consulting services are designed to help clients successfully raise capital and navigate the complex regulatory environment surrounding fundraising in various sectors, including oil, gas, power, energy, mining, climate, construction, manufacturing, plastic recycling, agriculture, and more. We analyze laws and regulations, identify areas of regulatory risk, and provide practical recommendations. Our experienced team helps clients identify investors, evaluate funding options, negotiate terms, and provide ongoing support to achieve successful fundraising outcomes.



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Other Services Include:

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- Resource& Reserve Estimation
- Stakeholder engagement

Other Services Include:

- Business planning
- Financial & Economic Modelling
- · Policy & Regulatory analysis



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