



WHO WE ARE





WHO WE ARE, WHERE WE ARE FROM, WHAT WE DO...

The Copperbelt Energy Corporation PLC (CEC) is an independent power transmission, distribution and generation company with interests in closely linked businesses in Zambia and the African region, including optic fibre based telecommunications. Listed on the Lusaka Stock Exchange and a member of the Southern African Power Pool, CEC has a deep insight into the mining industry, having reliably met the industry's unique power requirements for more than 60 years, among them some of the world's wettest. CEC provides quality electricity and other power products and services to mines in Zambia and the Democratic Republic of Congo. CEC owns and operates more than 1000km of primary transmission lines, 540km of which are embedded with optic fibre, and accounts for about 50% of Zambia's national power consumption. CEC has its sights on becoming the leading Zambian investor, developer and operator of energy infrastructure in Africa by providing innovative solutions and building strategic partnerships through committed professional teams.



CEC IS ABOUT... **INNOVATION**



INNOVATION

The very existence of CEC is founded on innovation – the vision to provide innovative solutions for powering the lucrative copper mining industry in Zambia’s Copperbelt province gave birth to the Rhodesia Congo Border Power Corporation, to be known many years later as the Copperbelt Energy Corporation Plc.

For the visionaries behind the Company, it was not enough that each mining operation could meet its powering needs at the time; rather, they sought to make power supplies more secure and less costly, improving the quality of supply and interconnecting not only the local mines’ power systems but also national electric grids through transmission interconnection between countries – giving birth to Africa’s first cross-country transmission line and enabling the creation, later, of a common market for electricity trade in Southern Africa. The Zambia – [Democratic Republic of] Congo interconnector, commissioned in 1956 has, 60 years later in 2016, been updated, increasing its carrying capacity from 250MW to 550MW firm.

When we are presented with a challenge, we provide ways to not only circumvent that hurdle but also to do things differently and better, going forward. Our ability to anticipate enables us to create new opportunities, growing the business and increasing its value.

INNOVATIVE TECHNOLOGY

At the heart of CEC operations is the Control Centre, which has never lagged behind in terms of technology. The CEC Control Centre has technologically evolved at different periods of the Company's life to ensure that the safety, availability and reliability of power supply that CEC prides itself in are never compromised.

Ultra-modern with efficient automated controls, the Control Centre is operated on a 24-hour cycle, monitoring and controlling the Copperbelt power grid and enabling quick response to abnormalities and emergencies that may affect the grid.

Serving a customer base of 11 mining operations, through a network comprising over 1,000 high voltage transmission lines, 41 substations and 80MW of embedded thermal generation at strategically located sites on the Copperbelt, the CEC Control Centre is on top of things.





CEC IS ABOUT... DIVERSITY

The penchant to innovate results in a continuous creation of new opportunities for business growth and expansion. From a single entity operating in the Copperbelt region of Zambia, the Company now has a portfolio of assets, diversified in geography and industry. In power, CEC operates across the entire value chain – from generation to transmission and distribution. Generating energy from hydro, thermal and renewable sources; and developing, financing and operating power assets in Africa, CEC is an indigenous African power infrastructure developer and a dedicated contributor to the continent's future, true to its vision of becoming a leader in the African energy space.





GENERATION

Through its subsidiary, CEC Africa Investments Limited, CEC contributes to Nigeria's generation capacity through the 600MW Shiroro Hydroelectric Power Plant.

In Zambia, CEC generates 80MW from diesel plants strategically located at four sites on its network; and is developing the Kabompo Gorge hydroelectric power plant - its first hydroelectric plant – which will contribute 40MW to the Zambian grid when commissioned.



TRANSMISSION AND SUPPLY

CEC is a supplier of choice to Zambia's mining industry, having a deep insight into the needs of this power-intensive industry through more than 60 years of providing electricity and related services to mining operations in Zambia and the Democratic Republic of Congo (DRC). Using its robust and expansive transmission network, the Company provides local and international transmission services for the national utilities of Zambia and the DRC.



DISTRIBUTION

CEC handles more than 1300MW through its network in Zambia and Nigeria, distributing power to customers across all consumer categories. The Abuja Electricity Distribution Company, in which CEC has an indirect interest covers four states, including the Federal Capital Territory of Abuja, and a population of more than 10.5 million people.



TELECOMMUNICATIONS

Unleashing the potential of Africa through the power of connectivity is the driving force behind CEC's investments in telecoms. By building fibre optic networks that connect Zambia in-country and to Africa and beyond and providing telecommunications services that enable commerce and ingenuity, CEC is contributing to the transformation and industrialization of Africa, and to the continent's economic growth and development.



RENEWABLE ENERGY

The world's energy needs are limitless, however not all energy sources possess the same limitless quality, neither are all energy sources good for our environment. What we do today affects tomorrow and the quality of life for future generations. At CEC, renewable energy is not a byword but practical and tangible actions to achieve energy sustainability. CEC produces, from its 900,000 litres per annum plant, biodiesel using biodegradable, non-toxic plant material. This environmentally friendly fuel is an alternative to fossil fuel.

CEC is developing a 20MW solar PV plant in Zambia, boosting the country's desire to develop as much of its solar potential as is possible. Collecting free energy from nature using 80,000 photovoltaic panels, the project will contribute to the grid 20MW of energy converted from the sun.



CEC IS ABOUT...
DIVERSITY



CEC IS ABOUT... **SOCIAL** CONSCIOUSNESS



Our business is connected to people and communities and vice versa. We are aware of the needs of the business just as we appreciate those of the communities around us and we are an active participant in community life. We get involved with causes and projects that make a difference – from seeing to their health needs to educating the children; empowering them with knowledge for more sustainable livelihoods to financing and providing social infrastructure; ensuring our operations and business activities are environmentally sustainable; partnering with others to leverage on resources and skills to providing facilities and resources for positive recreation and development through sport, CEC's corporate citizenship has never been in doubt.

WHERE WE ARE GOING...

CEC is in Africa and for Africa, our goal is to contribute to lighting up Africa by developing energy infrastructure that helps unlock the immense potential for power that is in Africa. By making investments that matter where it matters, CEC finds solutions to the energy needs of its customers and creates opportunities for the business and others connected to it to do more.

A TRADITION OF FIRSTS

CEC is not satisfied with good but strives for exceptional performance and achievement. Small wonder, then, that the Company has scored so many firsts in the history of its existence, starting with its birth. From being the first power utility in Zambia and Africa's first privately run electric utility, CEC has through a life of more than 60 years now set trends and blazed the trail for others to follow.

OPERATIONAL MILESTONES

Began to wholesale optic fibre based internet/telecoms services
Formed CEC Liquid Telecoms, a joint venture with Liquid Telecommunications

1st power utility to list on the Lusaka Stock Exchange (LuSE)
28% floated to the public and employees

1st private developer of mid-sized hydropower plant in Zambia
Awarded rights to develop greenfield 40MW Kabompo Gorge Hydroelectric Power Project, the first hydropower plant in North-Western Province

1st utility to install optic fibre on transmission lines
embedded optic fibre on its own electricity network

1st corporate entity licensed to offer commercialized optic fibre telecommunications
Granted license to provide optic fibre telecommunications services to licensed users

1st to own and operate an interconnector in Southern Africa
Pioneered interconnection of regional power systems with the line between Zambia (Rhodesia then) and DRC (Belgian Congo then)

1953

1st power utility in Zambia
CEC's forerunner, Rhodesia Congo Border Power Corporation, was established to service Rhodesia's Copperbelt Province

2013

1st Zambian power utility and SAPP member to invest outside its own country
Acquired controlling interest in Abuja Electricity Distribution Company in Nigeria
Acquired an interest in Nigeria's generation market through the North South Power Company

2011

Entered retail internet services market using optic fibre technology
Formed joint venture with RTAA (Realtime, now Hai Telecommunications)

2009

1st private utility to become full member of the Southern African Power Pool (SAPP)
CEC was the first independent power company to be admitted to full SAPP membership

2008

2005

1st commercial operator of optic fibre based telecommunications
Began to provide last mile connectivity to customers

2002

1997

1st private power utility in Zambia & Southern Africa
Following privatization of the Power Division of ZCCM, CEC became the first privately owned electric utility in Zambia and the SADC region

1956



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