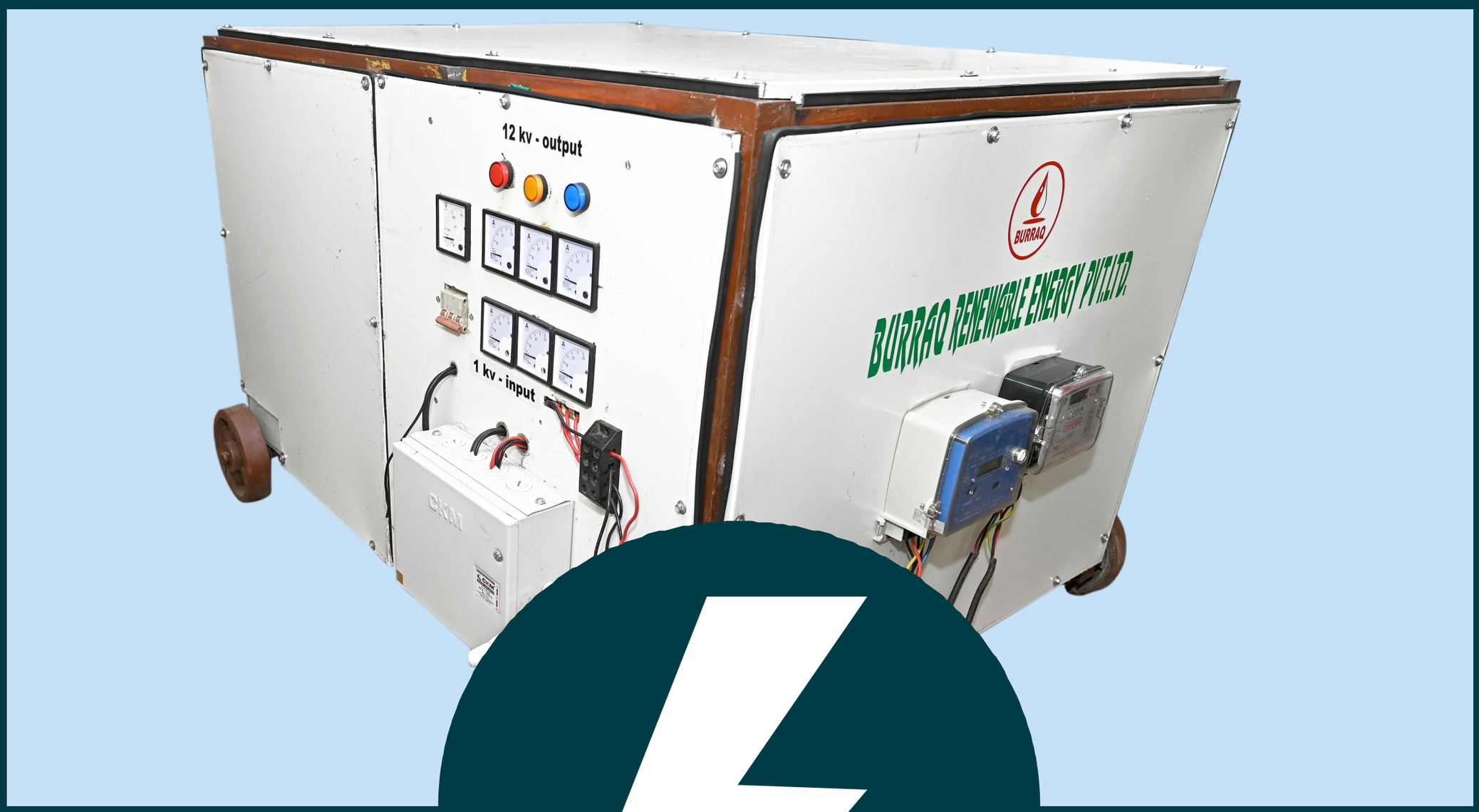


BURRAQ

RENEWABLE ENERGY

POWERING THE FUTURE

HISTORY OF ELECTRICITY

Electricity is an essential part of our daily lives, and we often take it for granted. However, the history of electricity is an exciting and fascinating tale of human ingenuity, experimentation, and innovation.

The story of electricity began with the ancient Greeks, who observed static electricity from rubbing fur on amber. However, it was not until the 17th century that the first significant discoveries in electricity were made. In 1600, William Gilbert discovered that the Earth was itself a giant magnet. This discovery paved the way for further experiments and discoveries.

In the 18th century, Benjamin Franklin conducted his famous kite experiment, demonstrating the connection between lightning and electricity. This experiment led to the invention of the lightning rod, which is still used today to protect buildings from lightning strikes.

BENJAMIN FRANKLIN
(1706-1790)

THE LIGHTNING ROD

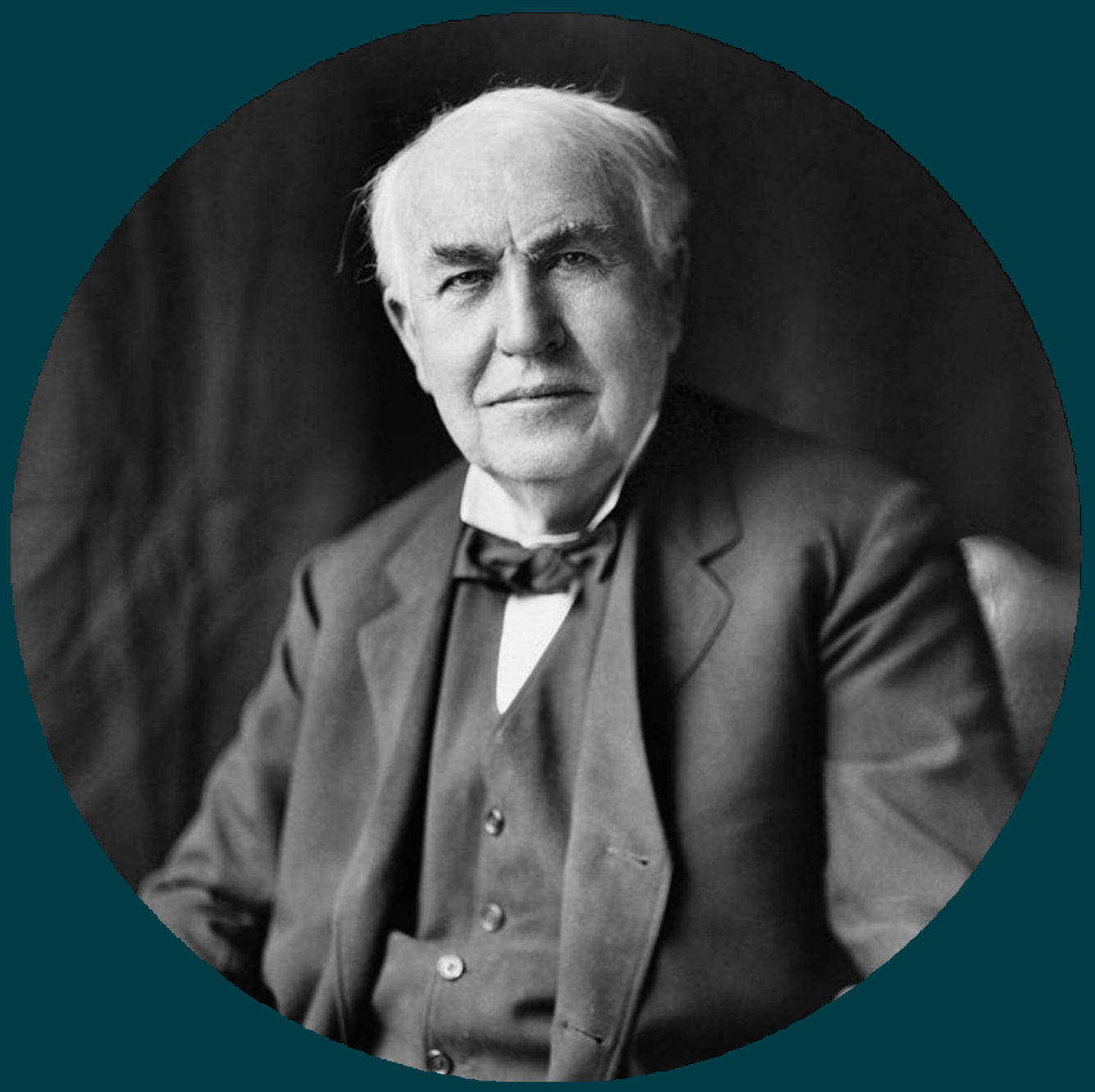
The latter part of the 18th century saw Italian scientist Alessandro Volta invent the first battery, which produced a continuous flow of electricity. This breakthrough was the first step toward developing electrical technology and opened up new possibilities for human progress.

ALESSANDRO VOLTA
(1745-1827)

FIRST ELECTRIC

BATTERY

Electricity became more accessible to the general public only in the 19th century. Thomas Edison developed the first practical incandescent light bulb, revolutionizing our lives and work. The invention of the electric motor and the development of electrical power distribution systems also marked significant milestones in the history of electricity.

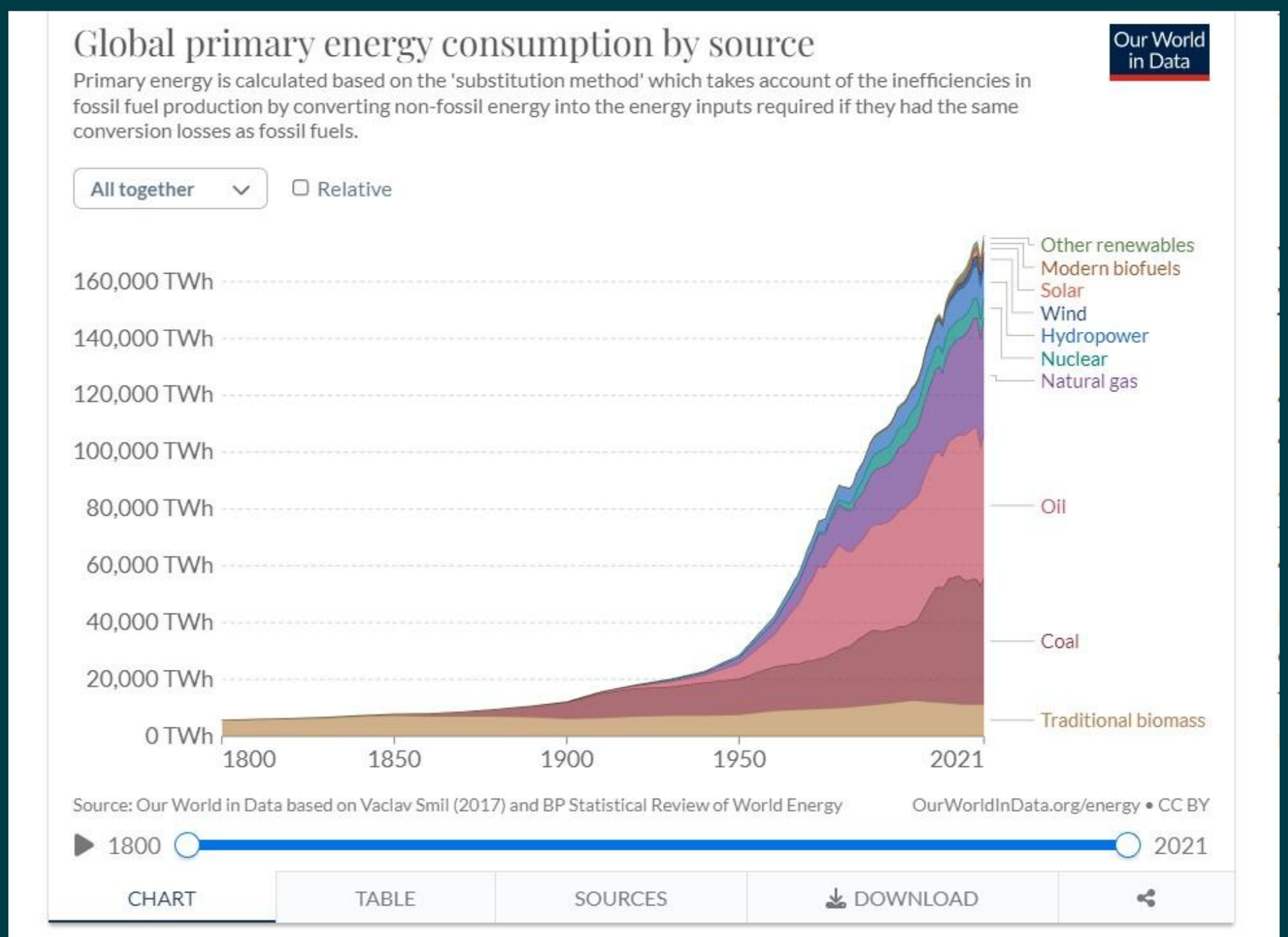


THOMAS EDISON
(1847-1931)

In the 20th century, electricity played a crucial role in human progress. The development of electronics led to the creation of computers, which have transformed every aspect of modern life. Today, we use electricity for everything from powering our homes and workplaces to charging our mobile devices and driving our cars.

ELECTRICITY DEMAND IN THE 21ST CENTURY

In the 21st century, electricity has become essential to modern life. From powering our homes and workplaces to driving our cars and charging our smartphones, the demand for electricity has continued to grow at an unprecedented rate. Here are some relevant facts and figures that illustrate this trend.



THE GLOBAL STORY

According to the International Energy Agency (IEA), global electricity demand has increased by over 4% annually since 2000. This growth is driven by a combination of factors, including population growth, urbanization, and the increasing use of electronic devices.

The IEA also reports that in 2020, despite the COVID-19 pandemic, global electricity demand still increased by 1.5%. This demand is expected to continue to grow in the coming years, with the IEA forecasting a 2.5% annual increase in global electricity demand until 2040.

THE INDIA STORY

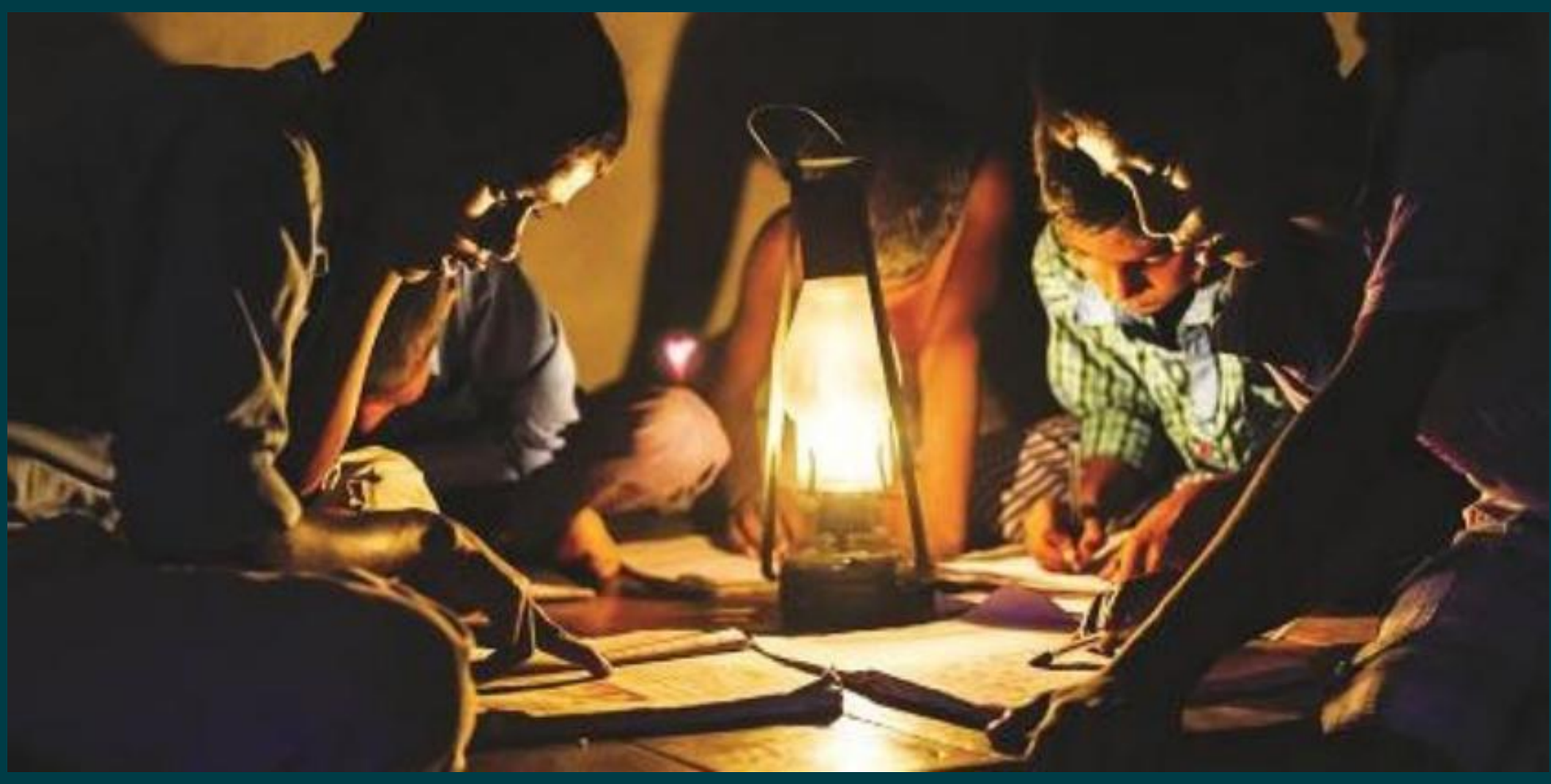
Electricity demand in India has been rapidly increasing due to factors such as population growth, urbanization, and industrialization. According to the Central Electricity Authority (CEA), India's electricity demand is projected to grow at an average annual rate of 5.7% until 2040.

In 2020, the total electricity consumption in India reached approximately 1,230 TWh, a significant increase from previous years. The surge in electricity demand has necessitated substantial investments in power generation capacity and infrastructure development.

The Indian government has set ambitious targets to increase the share of renewable energy in the country's electricity mix. As of 2021, renewable energy accounted for around 25% of India's total installed power capacity, with a goal to achieve 450 GW of renewable energy capacity by 2030. These measures aim to meet the growing electricity demand, ensure energy security, and foster sustainable development in India.

SCARCITY OF ELECTRICITY IN INDIA AND THE WORLD

The rising demand for electricity in India and the world has led to an increasing scarcity of this precious resource. In India, the demand for electricity has steadily increased in recent years, driven by a growing population, urbanization, and industrialization. According to the Central Electricity Authority (CEA), the demand for electricity in India is expected to grow at 5.7% per year until 2040.



India's electricity scarcity poses significant challenges for industries. According to the World Bank, 240 million people in India lack access to electricity. The Central Electricity Authority reports a peak power deficit of 0.5% in 2020-2021, affecting industries' operations and productivity. Frequent power outages and high energy costs hinder business growth and competitiveness.

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Dark summer nights: India faces high risks of power cuts after years of coal, hydro power neglect

Reuters • Last Updated: Mar 08, 2023, 09:11 PM IST

Thursday, May 25, 2023
EPAPER | TODAY'S PAPER

The Indian EXPRESS
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Power shortage: Grid managers brace for 18 'alert days' in April

India's vast fleet of coal-fired thermal power plants of 200 MW series are more than 25 years old, run on old technology and do not promise robust reliability.

Written by Anil Sasi Follow
New Delhi | Updated: March 22, 2023 07:19 IST

The situation is not much different in the rest of the world. According to the International Energy Agency (IEA), over 600 million people worldwide still lack access to electricity. Additionally, the IEA reports that power shortages and blackouts are becoming increasingly common in many parts of the world.

The growing scarcity of electricity results from several factors, including inadequate investment in new power generation capacity, aging power infrastructure, and an increasing reliance on intermittent renewable energy sources such as wind and solar power.

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Technology

A massive power transformer shortage is wreaking havoc in the US

A nationwide shortage of power grid transformers is causing delays across the US for everything from infrastructure for electric vehicles to new homes

By Jeremy Hsu

11 March 2023

RISING COSTS OF ELECTRICITY AND ITS ADVERSE EFFECTS ON BUSINESSES

Rising electricity costs have become a significant concern for businesses worldwide, with adverse effects on their profitability and ability to compete in the global marketplace. Here are some relevant facts and figures that illustrate this trend.

According to a report by the National Renewable Energy Laboratory (NREL), the average commercial electricity rate in the United States increased by 14% between 2007 and 2018, with many states seeing even larger increases.

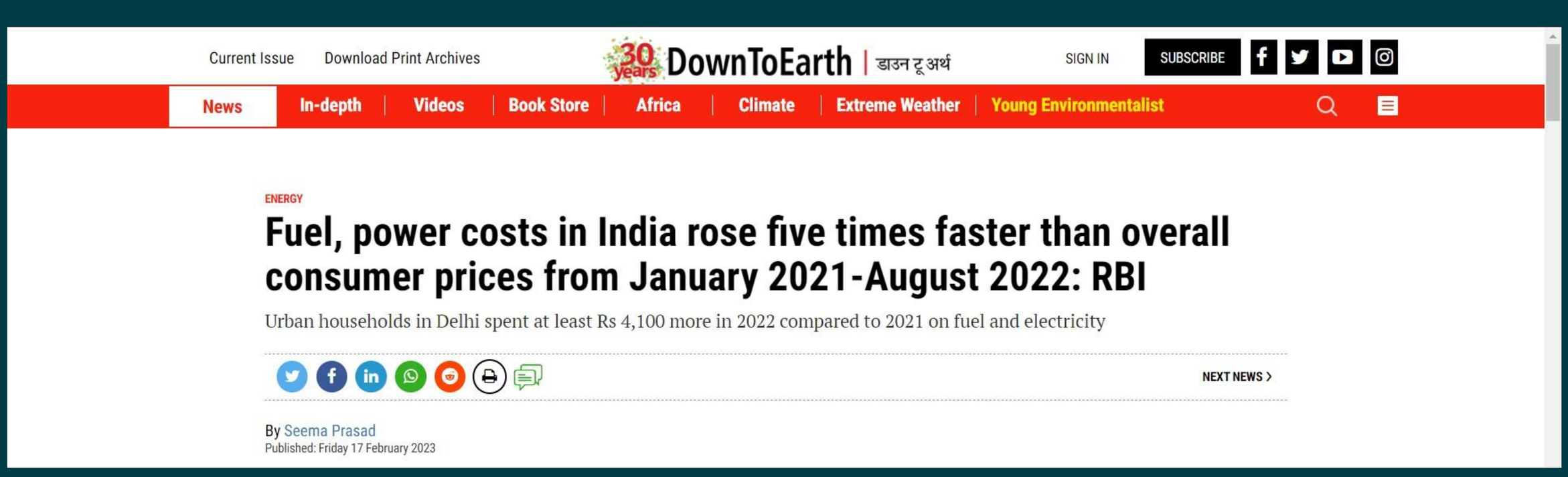
Rising electricity costs have had a significant impact on businesses, particularly small and medium-sized enterprises (SMEs). According to a report by the Small Business Administration (SBA), energy costs are one of the most significant expenses for SMEs, accounting for up to 7% of their total operating costs. According to a

report by the Small Business Administration (SBA), energy costs are one of the most significant expenses for SMEs, accounting for up to 7% of their total operating costs.

Another study by the National Bureau of Economic Research (NBER) found that between 2000 and 2010, rising electricity costs caused more than 4,000 manufacturing plants in the United States to shut down or relocate, resulting in the loss of over 200,000 jobs.

India, too, is facing a somewhat similar problem.

Just between January 2021 - August 2022, power prices rose five times faster than overall consumer prices.



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By Seema Prasad
Published: Friday 17 February 2023

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Somit Sen / TNN / Updated: Jan 24, 2023, 04:39 IST

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A SOLUTION FOR THE GLOBAL ELECTRICITY CRISIS

Burraq Renewable Energy is excited to announce the development of a revolutionary machine that has the potential to solve the global industrial shortage of electricity.

Our cutting-edge technology can generate an incredible 20kv of output with just 5kv of input, providing unprecedented energy efficiency and cost savings for businesses worldwide.

Our invention is designed to help power-intensive businesses reduce their electricity costs and optimize production. With this technology, businesses can finally break free from the constraints of expensive electricity bills and focus on expanding their operations and increasing their profitability.

If 12kv output sounds good, how does 100kv sound? What about 500kv? Yes, you've read it right! Burraq Renewable Energy is currently working on prototypes that would let you generate up to 500kv power for your energy needs with effectively 1kv of input.

The prototype is currently in the testing phase, and we're awaiting the final results. Once the machine is ready, it will disrupt the commercial energy sector not only in India but across the globe.

We are at the door of the biggest electricity revolution since the very invention of it.

TRANSFORMING INDIA'S ENERGY SECTOR

We are particularly proud of the impact our invention will have on India's energy sector. By providing a self-reliant energy solution, our machine will help Indian businesses gain a distinct advantage and compete globally. Our vision is to support the growth and development of the Indian industry, creating a more sustainable and prosperous future for all.

We are confident that our inventions will transform the energy landscape and revolutionize how businesses operate. With this technology, we can pave the way toward a more sustainable and prosperous future for all.

Join us on this exciting journey toward innovation and progress. Invest in our groundbreaking technology today and become a part of the solution to the global energy crisis.

BURRAQ

RENEWABLE ENERGY

HAKIM SALIM AHMED CHAWLA

A VISIONARY INNOVATOR

Hakim Salim Ahmed Chawla was born and raised in Delhi in a family of generational Hakims. Carrying the family tradition forward, Mr Chawla became an accomplished Unani medicine practitioner, earning the title of Hakim and founded Burraq Herbal. At his heart, however, Hakim Salim Chawla has always been an innovator, a visionary, and a seeker of excellence.

His thirst for excellence was conjoined with his love for the nation and humanity. Mr Chawla has thrived all his life to solve the problems facing India and humankind, which led him to disrupt the Unani medicine industry through Burraq Herbal. His organization produces herbal medicine backed by years of research and ancient medicinal texts, making Unani medicine accessible to people nationwide.

Burraq Herbal has been a successful venture with a pan-India clientele. However, Mr Chawla's thirst for excellence and habit of finding solutions to complex problems led him to shift his focus to the basic necessity of trade and industry in the 21st century - *electricity*. He realized that the scarcity of electricity fueled by rising costs prevented Indian industries from competing with global players. This was the pressing issue that Mr Chawla set out to solve. And by God's grace, he's been more than successful.

Hakim Salim Chawla, now a renowned name in the field of Unani medicine, founded Burraq Renewable Energy Pvt Ltd, a company poised to disrupt electric power generation. After years of research and development, Mr Chawla and his team of experienced engineers achieved the unthinkable. And now, Hakim Salim Chawla has once again realized his dream of serving the nation by presenting novel solutions.

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