

# FORTUNE

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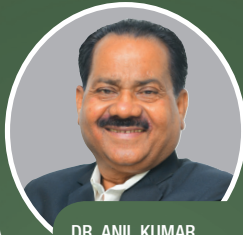
INDIA  
—exchange  
NEWS, EVENTS, PROMOTIONS + IDEAS



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TRUST IS THE COLLAGEN IN THE BODY OF YOUR RELATIONSHIPS. IT GIVES THEM  
STRUCTURE AND STRENGTH...IT KEEPS THEM SUPPLE AND PROTECTED FROM THE  
WEAR AND TEAR THEY ENCOUNTER OVER TIME

# Providing More Heft to India's Bid for Energy Self-Reliance

As one of the fastest-growing major economies, India plays a pivotal role in the global energy transition. Its energy demand is expected to grow at the fastest rate among major economies, driven by sustained economic growth



**Dr. ROGER KUMAR**  
*Founder, Managing Director,  
Case Group*

**T**he burgeoning speed at which India is tackling the need to become more self-reliant in the energy space has witnessed a compelling scenario unfold in corporate India. Surging opportunities are being created by the government's focus on energy self-sufficiency and reducing imports. It is a tipping point for companies such as the Case Group who see this as a collective responsibility and now aim to leverage indigenous resources and reduce exposure to volatile oil markets. India's power sector is among the most diversified in the world, with generation from conventional sources like coal, gas, hydro, and nuclear, as well as renewable sources such as solar, wind, biomass, and small hydro.

Steered by the visionary Founder-Managing Director, Dr. Roger Kumar, the Case Group aims to play a pivotal role in India's quest for energy independence. India imports over 75% of its energy needs, largely in the form of crude oil and natural gas. This results in putting a huge strain on the nation's economy, and leaves India vulnerable to global price volatility and geopolitical risks.

The Case Group's contribution to reducing these risks is its cutting-edge coal gasification technology. India has over 300 billion metric tons of coal reserves, making coal gasification a potential game-changer for reducing dependence on imported fuels like crude oil and natural gas while enhancing energy security.

## A CASE FOR COAL GASIFICATION

Coal gasification is a viable and sustainable alternative, which enables India to capitalise on its abundant domestic coal reserves while continuing on its path for self-reliance.

Coal gasification, for the uninitiated, is a highly sophisticated process that converts coal into syngas—a mixture of hydrogen, carbon monoxide, and other useful gases. Syngas' versatility allows for the production of: Thermal energy for industrial heating; Hydrogen for fuel cells and clean mobility solutions; Synthetic fuels such as diesel and aviation turbine fuel and Chemical feedstocks like ammonia, urea, and methanol, etc.

## ACHIEVEMENTS

The Case Group's burgeoning footprint in the energy space is illustrated through the over 200 coal gasifiers it has installed across various industrial sectors across the country. Additionally, it has enabled industries to replace expensive imported fuels with cost-effective domestic energy. These endeavours have helped save substantial amounts of foreign exchange and improved the balance of payments. Case is actively committed to support the Government's vision to gasify 100 million tons of coal by 2030. The outcomes of Case's key operations have been: helping industries lower operational costs,

improve competitiveness, and strengthen their resilience against global fuel price fluctuations.

## TWIN ENGINES OF SUSTAINABILITY & INNOVATION

With the twin-engines of sustainability and innovation Case ensures it delivers more environmentally-responsible and cleaner energy solutions. These efforts are defined by:

- Capturing CO<sub>2</sub> emissions from gasification to produce methanol and urea, moving toward carbon-neutral operations.
- Producing Hydrogen from coal gasification; it costs nearly one-fourth of green hydrogen, making it a more economical option during the energy transition period.
- Pursuing Build-Own-Operate (BOO) projects in Africa with the backing of India's EXIM Bank, allowing India to export technology while earning foreign currency.

In pursuance of its goals to deliver viable solutions to India's independent energy agenda the Case Group remains focused on core factors such as strengthening energy security and national resilience; enhancing industrial competitiveness with stable, affordable energy supply; protecting the economy from abnormal and unfair global tariff wars; and providing support to India's goal of achieving carbon neutrality by 2070. ■

