



**TRANSFORMING
ENERGY RESPONSIBLY
TO SECURE INDIA'S
HYDROCARBON FUTURE**

VISION

Contribute 50% of India's domestic oil and gas production

Cairn Oil & Gas, part of Vedanta Limited, is India's largest private oil and gas exploration and production company, contributing about a quarter of India's domestic crude oil production and driving energy security for India in a sustainable and responsible way.



62 Blocks
spread over
60,000 sq.km 2P and
2C of 1.4 Bn BOE



~25%
contribution to
India's crude oil
production



50+
Discoveries made
to date



435 wells
drilled and 340
wells hooked up
in the last 8 years.

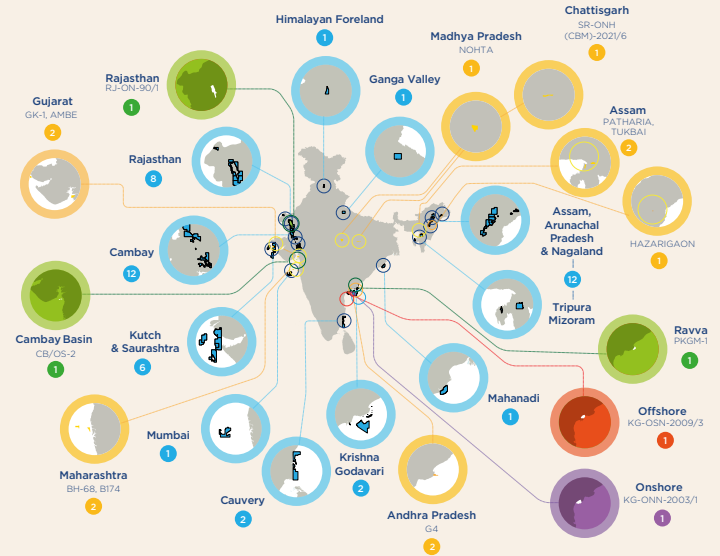


~\$40 bn
contributed to
exchequer in the
last 30 years



~194 mn
lives transformed
in the last five
years

DIVERSIFIED ASSET PORTFOLIO



Largest private oil & gas acreage holder in the country **62 blocks** / **~60,000 sq. km.**

OALP Blocks	DSF & CBM Blocks	Producing Operated Blocks	Discovered NELP Block	Producing Non-operated Block
46	11	3	1	1

*Block boundaries are for graphical representation only.

EXPLORING AND PRODUCING FROM FOUR FRONTIER BASINS

I. BARMER IN RAJASTHAN: LARGEST OIL AND GAS PRODUCING ASSETS, ENERGISING INDIA FOR TWO DECADES

- Rajasthan block, RJ-ON-90/1, is spread **over 10,000 sq km** in the Barmer district of Rajasthan.
- Mangala, Bhagyam, and Aishwariya (MBA) are the three largest finds in the prolific Rajasthan block. Discovered in 2004, Mangala is the largest onshore find in India.
- Other than MBA, Saraswati and Raageshwari are other key producing fields. To date, **41 discoveries** have been made in this block.
- After processing, the crude oil is transported to refineries through the world's longest and continuously heated and insulated pipeline to the Gujarat coast on the East Coast of India travelling across **~705 km** to the coastal facility in Bhogat.



II. CAMBAY AND JAYA, GUJARAT: DEVELOPING GAS TO OIL FIELDS

Offshore Producing Asset: Cambay

- Located in the offshore areas of the Cambay block – CB/OS-2; Cairn operates Lakshmi and Gauri oil and gas fields in the region.
- Gas production commenced in Lakshmi field in 2002, and Gauri field in 2004.
- Cambay has produced **~50 million barrels** of crude oil and **~256 billion cubic feet** of natural gas to date.

First FDP Submitted in OALP Block: Jaya Onshore

- Notified gas and condensate discovery of Jaya, CB-ONHP-2017/2 in onshore OALP block in the Bharuch district of Gujarat in August 2021.
- First-of-its-kind facility where sales through a CNG cascade system are being done by an E&P operator from an exploration well; minimising gas flaring.



III. RAVVA IN ANDHRA PRADESH: BEGINNING OF CAIRN'S 30 YEARS JOURNEY

- Cairn's journey started 30 years ago in 1994, with the redevelopment project in Ravva - the shallow offshore area of Krishna Godavari Basin in Andhra Pradesh on the East Coast of India.
- Over the years, Ravva block has produced **~316 million barrels** of crude oil, and **~385 billion cubic feet** of natural gas, representing close to **54.5% recovery** till FY24.
- A 225-acre onshore processing facility at Surasaniyanam processes natural gas and crude oil from the Ravva field.
- 8 operational unmanned offshore platforms.
- Field's direct operating cost is **one of the industry lowest**.
- Pioneered **many operational firsts in India**, such as the time-lapse (4D) seismic technology and using an Ocean Bottom Cable (OBC) seismic survey.

IV. NORTHEAST: DEVELOPING AS INDIA'S NEXT HYDROCARBON HUB

- Located in the Arakan Basin of Assam, Cairn holds 7650 km² of acreage with 12 Open Acreage Licensing Policy (OALP) blocks and 3 Discovered Small Fields (DSF) blocks.
- Identified **~540 MMboe** prospects of hydrocarbon resources with a potential of **~1400 MMboe**.
- Commenced test production in the Hazarigaon field in Assam, contributing to the state's clean energy initiative.
- The gas cascading system will enable gas from Hazarigaon to be a prime contributor in fueling 100 CNG buses, plying in Guwahati as part of the clean energy initiative of the Government of Assam.
- Cairn has been supplying gas to the tea estates from its Hazarigaon well site since 2023 giving a boost to tea production in the region and enabling farmers to switch cleaner sources of energy.



EXPLORE INDIA WITH CAIRN



LARGEST ONGOING EXPLORATION PROJECT IN INDIA WITH 46 SIMULTANEOUSLY EXPLORED BLOCKS

Recovery Enhancement through ASP

R&R of 570 mmboe at Rajasthan fields namely Mangala, Bhagyam, Aishwarya (MBA). These fields are producing on polymer flood and have present recovery factor of ~40%, ~14% and ~23% respectively. These fields have proven potential of producing 300 mmboe by leveraging ASP injection.

Ramp-up Production from Tight Oil Reservoirs

~1 bboe of hydrocarbon in place for tight oil reservoirs namely Aishwariya Barmer Hill (ABH), Mangala Barmer Hill (MBH), Vijaya & Vandana (V&V) and DP field. With limited development in tight oil reservoirs, currently producing from 60 tight oil wells. Plan to develop and exploit tight oil assets to ramp up production to 100 kboepd

Maximising Reserves and Production of Shale fields via technology

Prospective potential of ~500 MMboe of hydrocarbon in shale fields/ reservoirs namely Kaam, V&V, GSV and Mangala. Shale has great potential to add reserves and production upto 100 Kboepd. Plan to develop shale fields in Rajasthan by adopting US technology and development model for maximising reserves and production.




Monetise Deep water block development in KG Basin

Offshore deepwater blocks of 4616 km² on the East Coast with water depths ranging from 500m to 2500m. The block currently has 4 gas discoveries, 2000 km² of block is covered with 3D seismic, 3-4 prospects have been identified with R&R of 5 TCF which are yet to be drilled.

Monetising the first DSF block

~35 km off the Indian West Coast in Gujarat, the Ambe Block (CB-OSDSF-AMBE/2021) marks the first shallow water project in a Discovered Small Field (DSF). Cairn is introducing technologies such as CSPs and employing the scalable 'Design One, Build Many' approach.

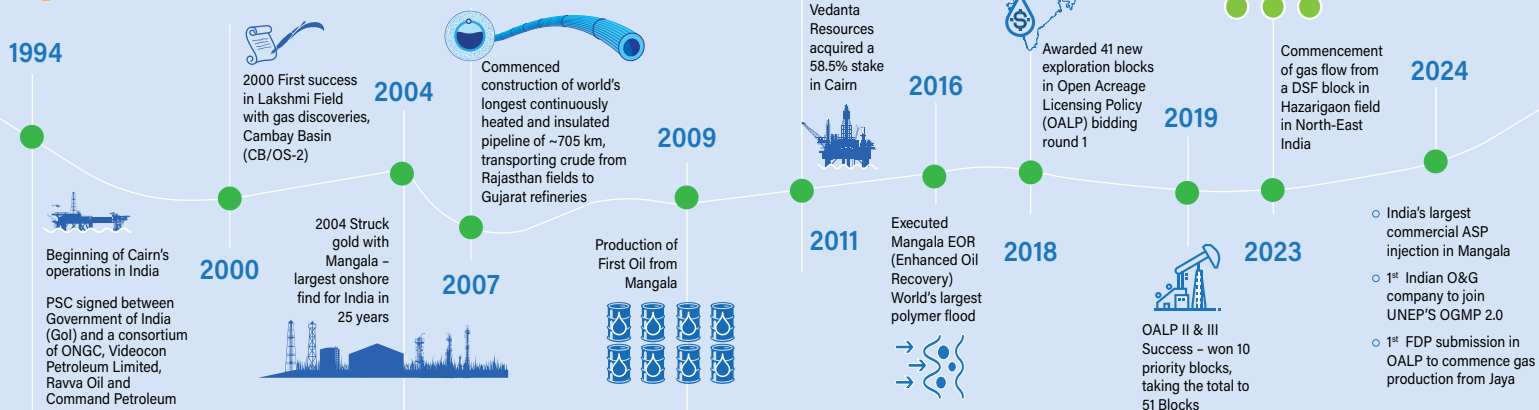
ESG COMMITMENTS

Pillars	Transforming the Planet	Transforming Communities	Transforming the Workplace
Commitments	<ul style="list-style-type: none"> Achieving Net Zero Carbon by 2030 Sustain Net Water Positive impact Planting 2 million trees by 2030 Protecting and enhancing biodiversity 	<ul style="list-style-type: none"> Positively impact 1 million people by 2030 through sustainable livelihood opportunities Educating ~9 million students by 2030 through digital education programs Uplifting 20 million women and children through Education, Nutrition, Healthcare and Welfare 	<ul style="list-style-type: none"> Prioritising safety and health of all employees and business partners Promote gender parity, diversity and inclusivity Align with global standards of corporate governance 

LEVERAGING OPERATIONAL EXCELLENCE THROUGH ADVANCED TECHNOLOGIES

- Executed the world's largest jet-pump operation
- World's largest Enhanced Oil Recovery (EOR) polymer flood project
- World's longest continuously heated and insulated pipeline
- World's largest jet-pumping network
- Longest horizontal well in India
- First 4D seismic in India
- India's largest Alkaline Surfactant Polymer (ASP) flooding project
- First-of-its-kind petro-technical cloud project, adopting and implementing its own cloud platform for upstream interpretation
- First in India to apply Micro Seismic Hydrofrac Monitoring Technology

30 YEARS OF ENERGISING INDIA





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