



**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.



**44 Blocks**

spread over  
47,000 sq. km  
2P and 2C of 1.4bn boe



**~25%**

contribution to  
India's crude oil  
production



**50+**

Discoveries made  
to date



**850+ wells**

wells drilled since  
start of operations



**\$41 bn**

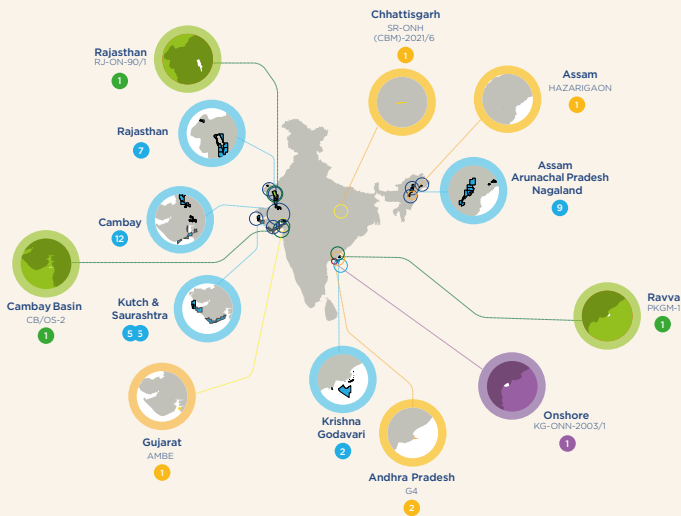
contributed to  
exchequer till  
FY'25



**~200 mn**

lives transformed  
in the last five  
years

# DIVERSIFIED ASSET PORTFOLIO



Large acreage holding for oil & gas exploration & production: **44 blocks, Acreage > 47,000 sq. km.**

<span style="color: blue;">■</span> <b>OALP Blocks</b> 35	<span style="color: orange;">■</span> <b>DSF &amp; CBM Blocks</b> 5	<span style="color: green;">■</span> <b>Producing Operated Blocks</b> 3	<span style="color: purple;">■</span> <b>Producing Non-operated Block</b> 1
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\*Block boundaries are for graphical representation only. Some block holdings are subject to statutory approvals. For details, visit [www.cairnindia.com](http://www.cairnindia.com)

# DIVERSE EXPLORATION AND PRODUCTION CAMPAIGN

## I. RAJASTHAN ONSHORE

- 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 oil producing field 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.
- Rajasthan Block has produced **736 million barrels** of crude oil and **269 cubic feet** of natural gas till FY'25.





## II. WEST COAST

### 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 and Gauri fields in 2002 & 2004.

### 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 2021.
- First-of-its-kind facility to supply through **CNG cascade system** by an E&P operator from an exploration well; minimising gas flaring.

### Shallow Water Development in Ambe

- Cairn installed **India's first Sub-Sea Template (SST)** in Ambe block in the West Coast, forming a key component of a **Conductor Supported Platform (CSP)** for offshore drilling and production.
- SST supports efficient **shallow-water field development** demonstrating a flexible and optimised installation approach suited for Indian offshore conditions.



### III. EAST COAST

- Cairn's journey started in 1994, with the redevelopment project in Ravva - the shallow offshore area of Krishna Godavari (KG) Basin in Andhra Pradesh on the East Coast of India.
- Over the years, Ravva block has produced **318 million barrels** of crude oil, and **454 billion cubic feet** of natural gas, representing close to **58% recovery** till FY'25.
- A 225-acre onshore processing facility at Surasaniyanam processes natural gas and crude oil from the Ravva field.
- **Eight** operational unmanned offshore platforms.
- Field's direct operating cost is **one of the lowest in the industry**.
- Pioneered **many operational firsts in India** - time-lapse (4D) seismic technology and using an Ocean Bottom Cable (OBC) seismic survey.
- Executed **India's one-of-the-first 3D Controlled Source Electromagnetic (CSEM) survey** for its deepwater exploration programme in the KG basin.

#### IV. NORTH EAST

- Located in the **Arakan Basin of Assam**, Cairn holds 5634 km<sup>2</sup> of acreage with 9 Open Acreage Licensing Policy (OALP) blocks and 1 Discovered Small Fields (DSF) block.
- Identified **~540 MMboe** prospects of hydrocarbon resources with a potential of **~1400 MMboe**.
- Contributing **~\$9 million to Assam exchequer till FY'25**.
- Producing from the Hazarigaon field in Assam, first DSF block in Northeast and contributing to the state's clean energy initiative.
- **Rudra - 1 discovery** from Naginijan in Assam in 2025.
- In 2024, **signed a Gas Sales Agreement with Assam Gas Company Ltd. (AGCL)** for 3.5 MMSCFD from Hazarigaon.
- Supplying **gas to tea estates and fueling 100 CNG buses** in Guwahati, under Assam's clean energy initiative.



# EXPLORE INDIA WITH CAIRN



## LARGEST ONGOING EXPLORATION PROJECT IN INDIA

- **Recovery Enhancement through ASP**

R&R of **570 mmboe** at Rajasthan fields namely Mangala, Bhagyam, Aishwarya (MBA). These fields are producing polymer flood with present recovery factor of **~40%, ~14% and ~23%** respectively. 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 explore tight oil assets to ramp up production to 50 kboepd.



- **Maximising Reserves and Production of Deep Gas**

Prospective potential of ~500 MMboe of hydrocarbon in deep gas reservoirs namely Kaam, V&V, GSV and Mangala. Great potential to add reserves and production upto 100 Kboepd. Plan to develop fields in Rajasthan by adopting proven technology and development model for maximising reserves and production.




- **Monetise Deep water block development in KG Basin, East Coast**

Offshore deepwater blocks of 4616 km<sup>2</sup> on the East Coast with water depths ranging from 500m to 2500m. The block currently has **4 gas discoveries**, 2000 km<sup>2</sup> of block is covered with 3D seismic, 3-4 prospects have been identified with R&R of 5 TCF, drilling to commence.

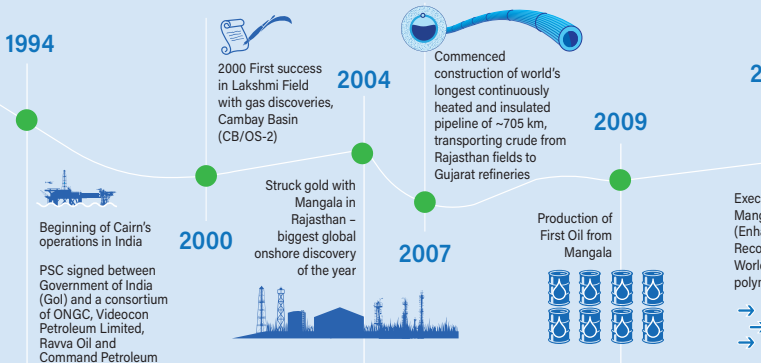
- **Monetising the first DSF block in West Coast**

~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)** block. Cairn has installed India's first Sub-Sea Template to support shallow water drilling and development. With SST in place, drilling operations currently underway.

# ESG COMMITMENTS

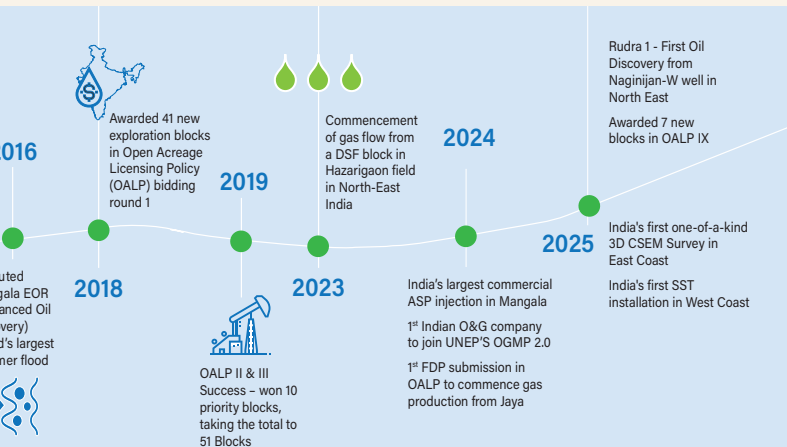
Pillars	Transforming the Planet	Transforming Communities	Transforming the Workplace
Commitments	<ul style="list-style-type: none"> <li>Achieving Net Zero Carbon by 2030</li> <li>Sustain Net Water Positive impact</li> <li>Planting 2 million trees by 2030</li> <li>Protecting and enhancing biodiversity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

# ENGINEERING GROWTH



# 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 commercial Alkaline Surfactant Polymer (ASP) flooding
- 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
- Conducted 3D CSEM Exploration Survey for Deepwater in KG Basin
- India's first Sub-Sea Template installation in Ambe block, West Coast



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