

# Fossil fuels and green energy from the same block could soon become reality

**IN THE WORKS.** ONGC is testing well in Cauvery Basin; DGH seeks RE Ministry's cooperation

**Richa Mishra**  
Hyderabad

Cauvery Basin may give India its first composite energy block and public sector giant ONGC seems to be the chosen one.

Theoretically speaking, a composite energy block is a block in which exploration for both hydrocarbon and harnessing renewable energy can be carried out simultaneously.

The Cauvery Basin extends over three States — Tamil Nadu, Karnataka, Kerala — and the Union Territory of Puducherry.

According to sources in the Directorate General of Hydrocarbons (DGH), the concept of composite energy block exploration will be unique as it needs coordination from other Ministries.

Though the concept is yet to be recognised by the government, the DGH has requested cooperation from the Ministry for New & Renewable Energy (MNRE) team on new energies. The DGH itself has created a 'Hydrocarbon Efficiency and New Energy Department' within the organisation.

An official said, "As differ-



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ent ministries are involved in composite blocks, like geothermal and offshore winds, coordination and dialogues are needed between them to work out the strategy to develop these blocks."

"On composite blocks, the initial thought is to combine oil and gas block with geothermal exploration in the awarded acreages. But geothermal is under the MNRE; hence, DGH is having preliminary discussions with the MNRE on this issue," the official told *businessline*.

In fact, sources said, there are some exploration areas offshore which have been identified by the MNRE as

having wind energy potential. Besides, on composite blocks for oil, gas and geothermal, the primary targets are onshore areas which are easier to develop, according to the official.

Besides, for offshore geothermal, experts want to do an in-depth study of the potential. "Offshore oil and gas blocks can be developed with offshore wind if those areas have proven wind speed for running turbines," the official added.

## BIG PLAYER

The ONGC is one of the dominant players in the Cauvery Basin. Its block CY-UDWHP-2019/1, in Cauvery offshore Bay of Bengal which

it won under the Open Acreage Licensing Policy (OALP) – V bid round, may also have potential for some other sources.

At present, the licence is only for the exploration and production of hydrocarbons. ONGC is still testing the well in Cauvery offshore and the initial results are encouraging, sources said, adding, "ONGC might announce discovery once tests are over."

The well Chola-1 was successfully drilled up to target depth of 5225m (MD). Four promising reservoirs zones were identified.

Testing of two zones showed encouraging results — gas at the rate of 2,95,490 cubic metres per day and condensate at 17.8 cubic metres per day. In the second zone, there is potential for gas at the rate of 5,17,425 cubic metres/day and condensate at the rate of 58.5 cubic metres/day.

The remaining zones are in the process of testing, the source said, adding, "This discovery has been notified to DGH as CHOLA."

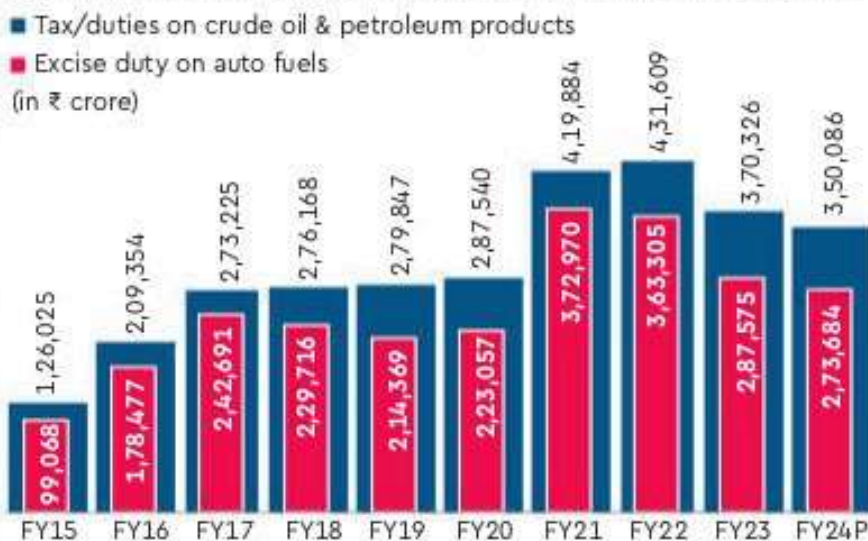
## businessline.

**Disclaimer:** Readers are requested to verify & make appropriate enquiries to satisfy

# Govt receipts from oil sector strong despite excise cuts

**THE CENTRE'S REVENUE** from various excise duties—primarily cesses, which do not form part of the divisible pool—peaked at ₹3.73 trillion in FY21, providing crucial support for funding pandemic-related welfare measures, reports **Saikat Neogi**. However, these collections have since declined, along with the total indirect tax revenues from the petroleum sector. The introduction of windfall taxes on upstream and downstream companies has had a limited impact, as these taxes have been relatively mild and subject to frequent readjustments. In contrast, direct tax revenues from the sector—specifically corporate tax and dividend distribution tax—have remained strong, as have non-tax revenues, including dividend receipts. Since 2014, the Centre raised the excise duty on petrol from ₹9.48 to ₹32.98 per litre, and on diesel from ₹3.56 to ₹31.83 per litre.

## Contribution of Petroleum Sector to Centre's Exchequer



## Dividend, corporation tax, dividend distribution tax etc.



## Contribution to states (sale tax, VAT etc.)



Source: PPAC

# India ramped up Russia oil imports in Q1

Growth set to build on June qtr's \$14.7 bn oil inflows amid competition from UAE, Iraq

**SUBHAYAN CHAKRABORTY**  
New Delhi, 25 August

India imported crude oil worth \$14.7 billion from Russia in the June quarter (Q1), according to government data. This was 25 per cent more than the same period last year, with higher availability and India's growing appetite for Russian crude vis-à-vis other countries playing a part in this growth story.

Shipments carrying Russian crude worth \$4.6 billion landed in June, lower than the \$5.8 billion in May, data from the Commerce Department showed. Despite this, Russia held 36.6 per cent share in Indian crude imports by value in Q1, up slightly from 35.8 per cent in the same quarter last year. The share rose every month in Q1, rising from 32.5 per cent in April to 36.6 per cent in May, and finishing at 41.2 per cent in June.

In May, industry sources had told *Business Standard* that crude oil purchases in Q1FY25 would remain tilted towards Russia if Brent crude prices remained above \$81 per barrel. Prices remained above that level for almost the entirety of April and May, and most of June.

In Q1, India's overall crude oil imports rose 22.3 per cent to \$40.2 billion, up from \$33 billion in Q1FY24. Crude from 22 countries reached India, compared to 24 countries in the year-ago period. Industry sources said imports from Russia are set to rise in the coming months even though Russian refiners are set to ramp up domestic fuel produc-



## RISING SHARE

Crude oil import (\$ bn)

From Russia Total



Source: Commerce dept

tion. However, Russian shipments would face tough competition from crude supplies coming from United Arab Emirates and Iraq, which have risen by 90 per cent and 13.5 per cent, respectively, on a volume basis in the first quarter of FY25.

While official figures are not available, the share of Russian crude in India's imports stood at 40 per cent in July, according to estimates made available by London-based commodity data analytics provider Vortexa, which tracks ship movements to estimate imports.

# ONGC begins oil production from KG basin project

New Delhi, Aug. 25: State-owned Oil and Natural Gas Corporation (ONGC) on Sunday said it has opened another well on its flagship deep-sea project in Krishna Godavari basin in Bay of Bengal, which will help augment production of crude oil and natural gas.

In January this year, ONGC had started producing oil, which is converted into fuels like petrol and diesel in refineries, from the KG-D5 block.

"On August 24, 2024, ONGC marked a significant milestone by starting production from its fifth oil well in the Block KG-DWN-98/2 Cluster-2 asset," the firm said in a stock exchange filing on Sunday.

"Leveraging the floating production, storage, and offloading (FPSO) vessel, ONGC has begun transporting and sale of associated gas, all the while underscoring its commitment to achieving zero gas flaring."

It, however, did not state how much the new well was producing.

With this, ONGC also successfully commissioned its gas export line from the offshore-to-onshore terminal.

"Earlier in January, oil production commenced from the same asset, with 4 of 13 wells already flowing. Gas production is also advancing, with 3 of 7 wells online," it added.

The block, which sits next to Reliance Industries' KG-D6 block in the KG basin, has a number of discoveries that have been clubbed into



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Located 35 kilometres off the coast of Andhra Pradesh in water depths ranging from 300-3,200 metres, the discoveries in the block are divided into Cluster-1, 2 and 3. Cluster 2 is being put to production first.

In January, ONGC had stated that peak or maximum production from the field is expected to be 45,000 barrels of oil per day (bopd) and over 10 million standard cubic meters per day (mmscd) of gas.

Earlier, ONGC director (Finance) Vivek Tongaonkar had stated that the firm was producing 12,000 bopd and 0.4 mmscmd of gas from eastern offshore block.

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# ONGC opens another well in KG field to hike oil production

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## OUR CORRESPONDENT

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## Highlights

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As per original plans, oil production from Cluster-2 should have begun by November 2021, but was delayed because of the Covid pandemic.

Thereafter, ONGC set May 2023 as the first Cluster-2 oil production deadline but then extended it to August 2023 and thereafter extended the flow of first oil every month, with the last deadline announced being December 2023. Oil started flowing from January 7, 2024.

At the time of start of production in January, ONGC had stated that peak or maximum production from the field is expected to be 45,000 barrels of oil per day (bopd) and over 10 million standard cubic meters per day (mmscd) of gas which is used to make fertilisers, generate electricity, turned into CNG for use as fuel in automobiles and piped to household kitchens for cooking.

In an investor call on August 6, ONGC Director (Finance) Vivek Tongaonkar had stated that the firm was producing 12,000 bopd and 0.4 mmscmd of gas from the eastern offshore block. This production was from four wells and one more well was planned to be opened in August, he had said.

This well would not just raise the oil production but also help increase the amount of natural gas which flows out with oil, to 1.5 mmscmd. "And subsequently, from the third quarter (October-December 2024), we expect to open further wells, which would add to our oil production as much. So, from the third and fourth quarter (January-March 2025), we expect to have a production rate of about 30,000 bopd plus as the wells open up."

The envisaged peak of 45,000 bopd was likely in subsequent quarters, he had said. Gas output is expected to reach 6 mmscmd by March 2025. ONGC has drilled 26 wells on the field. Out of these, 13 are oil producing and seven gas producing. The firm expects to open all 13 oil producing wells plus six gas wells by the end of March.

ONGC has hired floating vessel Armada Sterling-V, owned 70 per cent by SPOG (Shapoorji Pallonji Oil & Gas) and 30 per cent by Malaysia's Bumi Armada, for producing oil from below seabed. The FPSO (floating production, storage and offloading vessel), Armada Sterling-V, had been waiting to receive oil since January 2, 2023, after she was hooked up on December 27, 2022.

In the KG-D5 block, Cluster-1 consists of three discoveries. FDPs (field development plans) of 2 discoveries were approved in 2019. This project is currently in the development stage. In Cluster-3, there is one ultra-deep water gas discovery which would be the second deepest hydrocarbon discovery in the world, when monetised. The FDP is scheduled to be submitted by January 2026.

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**PRESS TRUST OF INDIA**  
New Delhi, August 25

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**PTI**

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## ओएनजीसी ने तेल उत्पादन बढ़ाने के लिए कुआं खोला

सार्वजनिक क्षेत्र की कंपनी तेल एवं प्राकृतिक गैस निगम (ओएनजीसी) ने रविवार को कहा कि उसने बंगाल की खाड़ी में कृष्णा गोदावरी बेसिन में अपनी प्रमुख गहरे समुद्र की परियोजना का एक और कुआं खोला है। कंपनी ने कहा कि इससे उसे कच्चे तेल और प्राकृतिक गैस का उत्पादन बढ़ाने में मदद मिलेगी। इस साल जनवरी में, ओएनजीसी ने केजी-डीडब्ल्यूएन-98/2 या केजी-डी5 ब्लॉक से तेल का उत्पादन शुरू किया था। इसे रिफाइनरियों में पेट्रोल और डीजल

जैसे ईंधन में परिवर्तित किया जाता है। कंपनी ने रविवार को शेयर बाजार को बताया, '24 अगस्त, 2024 को ओएनजीसी ने ब्लॉक केजी-डीडब्ल्यूएन-98/2 संकुल-2 परिसंपत्ति में अपने पांचवें तेल कुएं से उत्पादन शुरू करके एक महत्वपूर्ण मील का पत्थर हासिल किया।' सूचना में आगे कहा गया कि फ्लोटिंग उत्पादन, भंडारण और ऑफलोडिंग जलयान का लाभ उठाते हुए, ओएनजीसी ने संबद्ध गैस का परिवहन और बिक्री शुरू कर दी है।

भाषा

## ओएनजीसी ने तेल उत्पादन बढ़ाने के लिए केजी फील्ड में कुआं खोला

नई दिल्ली, 25 अगस्त (भाषा)।

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## ओएनजीसी ने तेल उत्पादन बढ़ाने के लिए केजी फील्ड में कुआं खोला

नई दिल्ली (भाषा)।

सार्वजनिक क्षेत्र की कंपनी तेल एवं प्राकृतिक गैस निगम (ओएनजीसी) ने रविवार को कहा कि उसने बंगाल की खाड़ी में कृष्णा गोदावरी बेसिन में अपनी प्रमुख गहरे समुद्र की परियोजना का एक और कुआं खोला है। कंपनी ने कहा कि इससे उसे कच्चे तेल और प्राकृतिक गैस का उत्पादन बढ़ाने में मदद मिलेगी।

इस साल जनवरी में, ओएनजीसी ने केजी-डीडब्ल्यूएन-98/2 या केजी-डी5 ब्लॉक से तेल का उत्पादन शुरू किया था। इसे रिफाइनरियों में पेट्रोल और डीजल जैसे ईंधन में परिवर्तित किया जाता है। कंपनी ने रविवार को शेयर बाजार को बताया, '24 अगस्त, 2024 को ओएनजीसी ने ब्लॉक केजी-डीडब्ल्यूएन - 98/2 संकुल-2 परिसंपत्ति में अपने पांचवें तेल कुएं से उत्पादन शुरू करके एक महत्वपूर्ण मील का पत्थर हासिल किया।' सूचना में आगे कहा गया कि फ्लोटिंग उत्पादन, भंडारण और ऑफलोडिंग (एफपीएसओ) जलयान का लाभ उठाते हुए, ओएनजीसी ने संबद्ध गैस का परिवहन और बिक्री शुरू कर दी है।

ओएनजीसी ने हालांकि यह नहीं बताया कि नया कुआं कितना उत्पादन कर रहा है। कंपनी ने अपतटीय से तटीय टर्मिनल से गैस निर्यात लाइन को भी चालू कर दिया।

# पेट्रोल-डीजल से छुटकारा दिलाएगी ग्रीन हाइड्रोजन घटेगा कार्बन उत्सर्जन, सुधरेगा मौसम का मिजाज

हरिभूमि न्यूज रायपुर

भारत हर साल ऊर्जा प्राप्त करने के लिए 12 लाख करोड़ रुपए आवंटित करता है, जिसमें से अधिकतर हिस्सा जीवाश्म ईंधन के नाम जाता है, जैसे- पेट्रोल, डीजल और कोयला। इससे कार्बन उत्सर्जन बढ़ता है, जलवायु गर्म होती है, मौसम बदलता है और फिर ढेरों आपदाएं आती हैं। ग्रीन हाइड्रोजन से जीवाश्म ईंधन की खपत कम होगी और धीरे-धीरे मौसम का मिजाज सुधरेगा, साथ ही गर्मी कम होती चली जाएगी।

पूरी दुनिया को पता है कि पानी में दो कण हाइड्रोजन के हैं और एक हिस्सा ऑक्सीजन का है। इन्हें इलेक्ट्रोलाइजर से अलग कर दें, तो जो हाइड्रोजन बचेगा, वह है ग्रीन हाइड्रोजन। इलेक्ट्रोलाइजर वह धातु (मेटल) है, जो बिजली का करंट पैदा करके अणुओं (मॉलिक्यूलस) को तोड़ने का काम करता है।

भारत ने नेशनल हाइड्रोजन मिशन बनाया है, ताकि टारगेट जल्दी पूरा किया जा सके। कैसे प्रोडक्शन होना है, कहां होना है, कितना एक्सपोर्ट करना है, इसकी मदद से जमीन का सही इस्तेमाल कर सोलर और विंड एनर्जी की तैयारी करना है, क्योंकि इन्हीं मदद से ग्रीन



हाइड्रोजन बनाने में मदद मिलेगी। मिशन स्वच्छ ऊर्जा के माध्यम से भारत के आत्मनिर्भर बनने के लक्ष्य में योगदान देगा। यह मिशन डीकार्बनाइजेशन, जीवाश्म ईंधन आयात पर निर्भरता को कम करने और भारत को ग्रीन हाइड्रोजन में टेक्नोलॉजी और मार्केट लीडरशिप संभालने में सक्षम करेगा। इस मिशन से 2030 तक प्रति वर्ष 5 एमएमटी ग्रीन हाइड्रोजन उत्पादन क्षमता विकसित होने की उम्मीद है। अनुमान है कि ग्रीन हाइड्रोजन के लक्षित मात्रा के उत्पादन, उपयोग के माध्यम से प्रति वर्ष लगभग 50 एमएमटी कार्बन डाइऑक्साइड के उत्सर्जन को रोका जा सकता है। देश में इलेक्ट्रोलाइजर्स के निर्माण के लिए स्ट्रैटेजिक इंटरवेंशन फॉर ग्रीन हाइड्रोजन ट्रांजिशन योजना के तहत बड़े स्तर पर किया जा रहा है। अदाणी एंटरप्राइजेज समेत 13 कम्पनियां इस प्रोजेक्ट पर काम कर रही हैं।

## इलेक्ट्रोलाइजर्स के लिए है ये रणनीति

अदाणी का लक्ष्य है 2030 तक 1.0 एमएमटीपीए जीएच2 के पहले फेज के लिए ग्रीन हाइड्रोजन के इकोसिस्टम को तैयार करना, साथ ही परफॉर्मेंस में सुधार लाने के लिए इलेक्ट्रोलाइजर टेस्टिंग लैब की स्थापना और पीएलआई योजना के तहत 198.5 मेगावाट क्षमता हासिल की। इसके अलावा इलेक्ट्रोलाइजर के 90% स्वदेशीकरण के लक्ष्य को हासिल करने सप्लाई चैन विकसित महत्वपूर्ण है, जिसके लिए कैवेंडिश रिन्यूएबल टेक्नोलॉजी और हाइडेप इलेक्ट्रोलाइजर टेक्नोलॉजी प्रोवाइडर्स के साथ हाल मिलाया है।



## रूस से तेल आयात 25 फीसदी बढ़ा

शुभायन चक्रवर्ती  
नई दिल्ली 25 अगस्त

रूस से कच्चे तेल का आयात मौजूदा वित्त वर्ष की पहली तिमाही (अप्रैल-जून) में बढ़कर 14.7 अरब डॉलर पहुंच गया है, जो पिछले साल की समान अवधि के 11.83 अरब डॉलर की तुलना में 25 फीसदी ज्यादा है।

हालांकि, वाणिज्य विभाग के आधिकारिक आंकड़ों के मुताबिक जून में भारत ने 4.6 अरब डॉलर का रूसी कच्चा तेल खरीदा है, जो मई के 5.8 अरब डॉलर की तुलना में कम है। मूल्य के आधार पर देखें तो भारत के कच्चे तेल के आयात में रूस की हिस्सेदारी पहली तिमाही में 36.6 फीसदी रही है, जो वित्त वर्ष 2024 की पहली तिमाही के 35.8 फीसदी से थोड़ा अधिक है। हालांकि पहली तिमाही में हर महीने हिस्सेदारी बढ़ी है और जून में यह 41.2 फीसदी पर पहुंच गई, जो मई के 36.6 फीसदी और अप्रैल के 32.5 फीसदी से ज्यादा है।

उद्योग से जुड़े सूत्रों ने बिजनेस स्टैंडर्ड से कहा कि वित्त वर्ष 2025 की पहली तिमाही में तेल की खरीद रूस की ओर झुकी रही क्योंकि कच्चे तेल की कीमत 81 डॉलर



वित्त वर्ष 2025 की पहली तिमाही में भारत का कुल मिलाकर कच्चे तेल का आयात 22.3 फीसदी बढ़कर 40.2 अरब डॉलर हो गया, जो वित्त वर्ष 2024 की पहली तिमाही में 33 अरब डॉलर था

प्रति बैरल के ऊपर बनी रही। अप्रैल और मई महीने और जून में भी ज्यादातर समय कीमत इस स्तर से ऊपर रही है।

वित्त वर्ष 2025 की पहली तिमाही में भारत का कुल मिलाकर कच्चे तेल का आयात 22.3 फीसदी बढ़कर 40.2 अरब डॉलर हो गया, जो वित्त वर्ष 2024 की पहली तिमाही में 33 अरब डॉलर था। भारत में 22 देशों से कच्चा तेल आया है, जबकि एक साल पहले 24 देशों से आया था।

उद्योग के सूत्रों का कहना है कि रूस से आयात आने वाले महीनों में बढ़ने की संभावना है, भले ही रूस के रिफाइनर घरेलू ईंधन का उत्पादन बढ़ा रहे हैं। हालांकि, रूस के

शिपमेंट को कच्चे तेल की आपूर्ति में संयुक्त अरब अमीरात और इराक से कड़ी प्रतिस्पर्धा का सामना करना पड़ेगा, जहां से वित्त वर्ष 2025 की पहली तिमाही में मात्रा में आयात क्रमशः 90 फीसदी और 13.5 फीसदी बढ़ा है। जुलाई में आयात के आधिकारिक आंकड़े उपलब्ध नहीं हैं, लेकिन लंदन की क्मोडिटी डेटा एनालिटिक्स प्रोवाइडर वोटैक्स के अनुमान के मुताबिक भारत के आयात में रूस के कच्चे तेल की हिस्सेदारी 40 फीसदी रही है। यह इसके पहले के महीने में 42 फीसदी थी। मार्च में 28 फीसदी के निचले स्तर पर पहुंचने के बाद रूस के तेल की हिस्सेदारी अब तुलनात्मक रूप से स्थिर है।