

# **Kinsale energy gas storage**





## Overview

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The Kinsale Head gas field is a depleted offshore in the , located 50 km (31 mi) off the southern coast of , . Discovered in 1971 near the , it met Ireland's gas needs until 1996. The gas field is located in a water depth of 100 metres and 1,000 metres below the seabed. The field extends over Blocks 49/16, 48/20, 48/25, 49/21. The reservoir is a Lower Cretaceous s.

The gas reservoir is in the Upper Cretaceous sandstones covering an area of 1,200 hectares in size, 800 meters below the sea bed. The field was redeveloped in October 2001, whereby gas could be taken from nearby offshore gas fields and put into storage in the Southwest Kinsale reservoir. How much gas does Kinsale Energy Store?

The storage capacity of the gas store was 230 million cubic meters (1 cubic meter of gas is equivalent to about 10 kW-hrs of energy). GAS STORAGE Kinsale Energy previously operated, in the Southwest Kinsale reservoir, Ireland's only gas storage facility and this facility ceased operation in April 2017.

Who makes Kinsale gas?

Home PSE Kinsale Energy Limited, (formerly Marathon Oil Ireland Limited), produced natural gas from its facilities off the Old Head of Kinsale since 1978, up to Cessation of Production in July 2020. The company was acquired by PETRONAS in April 2009 and operated the Kinsale Head, Ballycotton and Seven Heads Gas Fields in the Celtic Sea.

What is redeveloping the decommissioned gas reservoirs in the Kinsale area?

We (ESB, dCarbonX and Bord Gáis Energy) are proposing to redevelop the decommissioned gas reservoirs in the offshore Kinsale area gas fields for large-scale energy storage of renewable gas and green hydrogen with provision of storage of natural gas until large volumes of these gasses are available for storage.

Will Kinsale gas storage reservoir reopen?

Picture: Maxwells The reopening of the Kinsale gas storage reservoir would



require "major investment" to be viable, a Government report on energy security has found. The Department of the Environment, Climate and Communications on Monday launched a consultation of a review of the energy security of Ireland's gas and electricity systems.

Where is the Kinsale Head gas field?

The Kinsale Head gas field is a depleted offshore natural gas field in the Celtic Sea, located 50 km (31 mi) off the southern coast of County Cork, Ireland. Discovered in 1971 near the Old Head of Kinsale, it met Ireland's gas needs until 1996. The gas field is located in a water depth of 100 metres and 1,000 metres below the seabed.

Are Kinsale Head reservoirs safe?

Dr John O'Sullivan, COO of dCarbonX, said: "The Kinsale Head reservoirs hosted safe, secure and reliable offshore natural gas subsurface energy storage for many years, underpinning Ireland's security of gas supply."



## Kinsale energy gas storage



### NATURAL GAS

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### Kinsale Head gas field

Kinsale Energy Limited Field history Discovery 1971 Start of production October 1978 Peak year (discovered 1991), Southwest Kinsale (1999) and Seven Heads (2003). Southwest Kinsale was later used for gas storage, primarily for the winter months. [1] [12]



#### INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT



### Reopening of Kinsale gas storage reservoir would require 'major ...

The reopening of the Kinsale gas storage reservoir would require "major investment" to be viable, a Government report on energy security has found. The Department of the Environment, Climate and

### GAS PRODUCTION

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### Energy trio plan EUR500m hydrogen storage facility at ...

Energy trio plan EUR500m hydrogen storage facility at Kinsale gas field Tony O'Reilly jr firm has formed a consortium with ESB and Bord Gáis Energy to develop mammoth project at decommissioned gas site LATEST ...

### Kinsale set for new green energy project , Cork Independent

When a gas field has been depleted, what can you do with it? Well a new project aims to develop large-scale storage for green hydrogen off the coast of Cork. Last Thursday ESB and dCarbonX launched Green Hydrogen @ Kinsale. This project - pending licence



### Kinsale gas field has 'huge potential' for energy storage, says ESB

Kinsale gas field has 'huge potential' for energy storage, says ESB The government is preparing to launch its new energy security framework, which will propose solutions to Ireland's gas security issues LATEST NEWS 13:24 Live News: Taxis for Ireland Coalition to meet with NTA over taxi shortages; Grand Social in Dublin sold to owners of Bad Ass Café



## Kestrel Project

The Kestrel Project We (ESB, dCarbonX and Bord Gáis Energy) are proposing to redevelop the decommissioned gas reservoirs in the offshore Kinsale area gas fields for large-scale energy storage of renewable gas and green hydrogen with provision of storage of



## Bord Gáis Energy joins the Kestrel Energy Storage Project , News

The Kestrel Project is focussed on the proposed re-development of the decommissioned gas reservoirs at the Kinsale Head gas field for large-scale green hydrogen energy storage, initially ...

## ESB/dCarbonX welcome BGE into the Kestrel Energy Storage ...

Project focussed on development of decommissioned reservoirs at Kinsale Head gas field for storage of green hydrogen Project represents unique opportunity to support Ireland's Net Zero ambition while delivering large-scale security of supply Issued: 9am, Sunday



## GAS STORAGE

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## Bord Gáis Energy joins the Kestrel Energy Storage Project , News

Bord Gáis Energy joins ESB and dCarbonX in large-scale energy storage project offshore in Cork Project focussed on development of decommissioned reservoirs at Kinsale Head gas field for storage of green hydrogen Project represents unique opportunity to support



## Kinsale Gas field closes after 42 years - TheCork.ie (News

10 July 2020 By Tom Collins tom@TheCork.ie The final commercial volumes of indigenous Irish gas flowed through the Inch terminal in County Cork last week as PSE Kinsale Energy Limited (KEL) ceased production after 42 years of service and almost two trillion cubic feet of natural gas - double the original reserve estimate.

## Kestrel Project

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## Kinsale field offshore Ireland under review for green hydrogen ...

CORK, Ireland - ESB and dCarbonX have initiated the Green Hydrogen Kinsale project to develop large-scale storage for green hydrogen off the coast of County Cork, ...



## ESB and dCarbonX launch Kinsale Head Hydrogen Storage project

Transforming sites - such as the recently decommissioned gas reservoirs at Kinsale Head - and repurposing reservoirs for green hydrogen can deliver large-scale ...

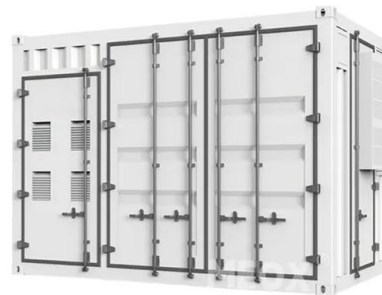


### Decommissioning

Decommissioning PSE Kinsale Energy Limited, (formerly Marathon Oil Ireland Limited), produced natural gas from its facilities off the Old Head of Kinsale since 1978, up to Cessation of Production in July 2020. The company was acquired by PETRONAS in April 2009 and operated the Kinsale Head, Ballycotton and Seven Heads Gas Fields in the Celtic Sea.

### Kinsale gas field has 'huge potential' for energy ...

Kinsale gas field has 'huge potential' for energy storage, says ESB. The government is preparing to launch its new energy security framework, which will propose solutions to Ireland's gas security issues. Daniel Murray. ...



### Press Release: Kinsale Gas Pipeline age not an excuse to ignore ...

Kinsale Gas Pipeline age not an excuse to ignore reuse options for energy security Government must take a more pragmatic approach to decommissioning key energy infrastructure until all options for re-purposing have been properly presented The age of the Kinsale Gas Pipeline should not be a determining factor for disregarding its potential reuse options including offshore ...



### Former Kinsale Head Gas Field Assessed for Hydrogen Storage ...

Transforming sites - such as the recently decommissioned gas reservoirs at Kinsale Head - and repurposing reservoirs for green hydrogen can deliver large-scale sustainable energy storage for homes and businesses in the future.



### ESB and dCarbonX expand Irish offshore energy storage ...

Dublin, September 4, 2022 ESB and dCarbonX have signed a joint venture agreement that will allow the companies to progress large-scale energy storage projects off the coast of Ireland. Since Q2 2021, ESB and dCarbonX, (an affiliate of Snam, Europe's largest gas

### Bord Gáis Energy joins ESB and dCarbonX on green hydrogen storage

Bord Gáis Energy, part of Centrica plc, has joined ESB and dCarbonX on the Kestrel project which proposes the re-development of decommissioned gas reservoirs at the Kinsale Head gas field offshore Ireland for large-scale green hydrogen storage. ESB and



### [Kinsale Energy: Solutions that Run the Gamut](#)

Kinsale's Energy Division provides insurance for businesses throughout the oil and gas lifecycle, including exploration and production, Transmission, distribution, and storage Pipelines and pipeline terminals (ownership, operation, and contractors) Refining and



## Home

GAS PRODUCTION. Gas was produced from the Kinsale Head area in the Celtic Sea from 1978 until 2020. Kinsale Gas enabled Ireland to be self-sufficient in gas supply until 1995, and was instrumental in the development of the national ...



## HISTORY

The Southwest Kinsale Field was redeveloped as Ireland's first offshore gas storage facility and operated from 2001 to 2017. The company was acquired by PETRONAS from Marathon Oil Company in 2009. PETRONAS is a major Fortune 500 oil and gas company, with extensive world-wide gas and LNG operations.

## Ireland should store gas in disused Kinsale Gas Pipeline

Mag Mell Energy Ireland Ltd is seeking to create an ambitious floating LNG storage and regasification project in the Celtic Sea close to the now depleted Kinsale Head Gas Field of the south coast of Ireland. The project is also designed to include strategic LNG



## ESB and dCarbonX launch Kinsale Head Hydrogen Storage project

Transforming sites - such as the recently decommissioned gas reservoirs at Kinsale Head - and repurposing reservoirs for green hydrogen can deliver large-scale sustainable energy storage for homes and businesses in the future. We look forward to working with





## PSE Kinsale Energy Applies To Leave Gas Pipelines Lying On The Seabed

Kinsale gas field's owner, PSE Kinsale Energy sent an application seeking government approval to leave its gas pipelines in their wells as part of their decommissioning program following gas supplies depletion in the Celtic Sea. The depletion leading to a ...



## Reopening of Kinsale gas storage reservoir would ...

The Southwest Kinsale reservoir, Ireland's only gas storage facility at the time, ceased operation in April 2017. Last year, the owner of the Kinsale gas fields sought Government approval

## dCarbonX

d Carbon X is a pioneering GeoEnergy company established to develop subsurface assets that facilitate the Energy Transition. Based in London & Dublin, d Carbon X uses its proprietary knowledge base to originate and build a portfolio of high-value Energy Transition assets offshore Ireland & the UK with a focus on energy storage (natural gas & hydrogen) and carbon capture ...



## PSE Kinsale Energy Ltd

PSE Kinsale Energy Ltd , 1,445 followers on LinkedIn. PSE Kinsale Energy Limited, (formerly Marathon Oil Ireland Limited), has been producing natural gas from its facilities off the Old Head of Kinsale since 1978. The company was acquired by PETRONAS in April 2009 and currently employs 59 people. We operate the Kinsale Head, Ballycotton and Seven Heads Gas Fields in ...



### [Welcome to the Kestrel Project Website](#)

The Kestrel Project is focused on the proposed re-development of the decommissioned gas reservoirs in the offshore Kinsale area gas fields for large-scale energy storage. Kestrel will set Ireland on a course for a sustainable future with a secure energy system driven by renewables and green hydrogen.



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