

THE OFFSHORE OIL AND GAS EXPLORATION, PRODUCTION, UNLOADING AND STORAGE (ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2020

Project Summary – Regulation 11(2)

Developer: NEO Energy (ZEX) Limited (NEO Energy), as operator on behalf of itself and Jersey Petroleum Ltd.

Project: Buchan Redevelopment

Environmental Statement dated January 2024

Reference Number: ES/2023/007

Proposed Location of the Project

The proposed project involves the redevelopment of the Buchan Horst field, in the Outer Moray Firth in UKCS Blocks 20/05a and 21/01a c. 115 km northeast of the Aberdeenshire coastline and c. 103.5 km west of the UK/Norway median line.

Proposed Activities

For the purposes of the above-mentioned Regulations, this project should be considered a new development.

The field was originally named Buchan and produced from 1981 to 2017 when the then-operator Repsol Resources UK Limited (formerly known as Repsol Sinopec Resources UK Limited) ceased production due to certification limitations related to the offshore production facilities.

The proposed Buchan Redevelopment Project will comprise the drilling of up to five production wells and two water injection wells, across two drill centres located within a single 500 m zone. The wells will be tied-back to the redeployed Western Isles seven type Floating Production Storage and Offloading (FPSO) located approximately 1.5 km from the drill centres. Oil will be exported via shuttle tanker whilst gas will be export via a new pipeline tied into either the SAGE (Scottish Area Gas Evacuation) pipeline system or the Frigg UK Association (FUKA) pipeline system. Note the Western Isles FPSO is currently located at the Barra and Harris fields, however is due to come off field imminently.

The proposed Buchan Redevelopment Project can be summarised as follows:

- The drilling and completion of up to five production wells and two water injection wells at the Buchan Horst Field;
- Installation of the repurposed Western Isles FPSO;

- Installation of subsea infrastructure (production, water injection and gas lift flowlines and an umbilical) to support tie-back of the wells to the repurposed Western Isles FPSO;
- Installation of a gas export pipeline tied back to either the SAGE pipeline system or to the FUKA pipeline system. Tie-in to the SAGE pipeline system would occur at the existing Ettrick Pipeline End Manifold (PLEM) whilst tie-in to the FUKA pipeline system would occur at the existing Tweedsmuir subsea manifold;
- Production over the repurposed Western Isles FPSO, export of gas via the gas export pipeline and export of oil via shuttle tanker.
- Production will be supported with water injection and gas lift.

Upgrades to the Western Isles FPSO will include making it electrification ready for when a 3rd party power source becomes available.

The processing facilities on the FPSO will separate gas and produced water from the oil, which is stored on the FPSO for export to visiting shuttle tankers. Produced water is returned to the subsea wells for reinjection into the reservoir. Gas is used to artificially lift the production wells, while excess gas is exported via a new subsea pipeline.

Proposed Timeline for Activities

The planned schedule of activities is as follows:

Activities	Date
Drilling of wells	Q2 2025 – Q4 2026
Sevan FPSO modifications and upgrades (in port)	Q4 2024 – Q2 2026
Subsea Installation, Sevan FPSO hookup and commissioning	Q2 2026 - Q4 2026
First Oil	Q4 2026