



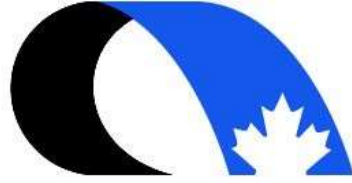
CNR International

# UK Operations Environmental Performance



*Annual Report 2023*

SHE-REP-226



# CNR International

**SHE-REP-226**

## **UK Operations Environmental Performance Annual Report 2023**

<b>Date</b>	<b>Issue Description</b>	<b>Rev.</b>	<b>Originator</b>	<b>Checked</b>	<b>Approved</b>
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## 1 INTRODUCTION

This is the annual environmental statement for CNR International Limited (CNRI) it shows CNRI's commitment to the OSPAR Convention. The OSPAR Convention from 1992 is the instrument guiding international cooperation on the protection of the marine environment of the North-East Atlantic. To implement its Strategy, the OSPAR Commission adopts a recommendation to promote the use and implementation of Environmental Management Systems (EMS) by the offshore oil and gas Industry.

CNRI's Environmental Management System (EMS) is designed to achieve:

- The environmental goals of protection and conservation of the marine biosphere against the adverse effects of offshore operations; and
- Continual improvement in environmental performance; and
- More generally, to achieve the objectives of the OSPAR Offshore Strategy

This environmental statement describes the annual environmental performance of:

- Operated assets in the UKCS;
- The environmental management system, values and policies; and
- The extent to which CNRI are meeting environmental objectives measured against internal targets and legislative requirements.

CNRI in conjunction with others in the oil & gas industry, and key stakeholders including governmental agencies and consumers are contributing to a reduction in their impact on climate change and their GHG related emissions and are committed to achieving national emissions reduction targets and the drive to reach net zero.

CNRI conducts our operations in a safe, responsible way with care for the environment. We are continually striving to identify ways to improve our performance while simultaneously preventing pollution and minimising environmental impacts.

The Offshore Oil and Gas Industry Strategy of the OSPAR Commission sets the objectives of preventing and eliminating pollution and taking the necessary measures to protect against the adverse effects of offshore operations so as to safeguard human health, and conserve marine ecosystems and, when practicable, restoring marine areas which have been adversely affected. The recorded number of unplanned hydrocarbon releases to the marine environment by CNRI was 0 in 2023 maintaining 2022 performance (Page 16).

Emissions performance continues to be an area of importance to CNRI as a responsible operator of mature oil and gas assets functioning conscientiously through the transition period and considering the fluctuating societal attitudes to oil and gas production. CNRI aims to continue production safely while reducing emissions, thereby contributing to UK national emissions targets. CNRI successfully reduced our greenhouse gas intensity over the last year from 0.096 (tonnes CO<sub>2</sub>/BOE) in 2022 to 0.085 (tonnes CO<sub>2</sub>/BOE) in 2023.

We welcome any comments and suggestions from members of the public and regulators in relation to this document, which should be sent to:

**SHE Manager**  
**CNR International (UK) Ltd**  
**St Magnus House**  
**Guild Street**  
**Aberdeen**  
**AB11 6NJ**

## 2 CNRI'S OPERATIONS

Canadian Natural Resources Limited (CNRL) is an independent oil and gas exploration and production Company with operations in core areas located in Western Canada, the U.K. sector of the North Sea, and offshore West Africa. CNRL's headquarters are in Calgary, Canada, with international operations (CNRI) based in Aberdeen, Scotland.

During 2023, CNRI's North Sea operations focused in the following areas: Ninians and T-Block, decommissioning activities on Banff and Kyle (B&K) and preparation for future decommissioning activities. CNRI operates its fields with a majority working interest.

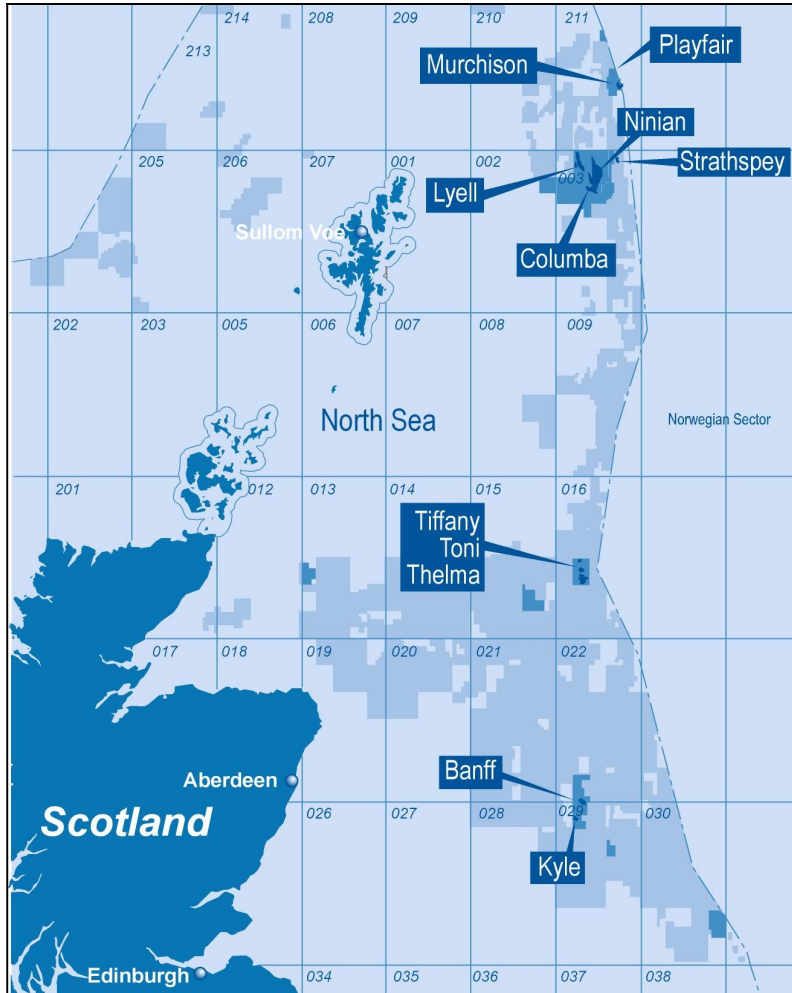


Figure 1 Location of CNRI's operations in the North Sea

The **Ninian** Field hub consists of two fixed platforms (**Ninian Central** and **Ninian Southern**) in the Northern North Sea, with the **Columba** field developed as extended reach wells and the **Lyell** and **Strathspey** fields as subsea tie-backs. A third-party subsea tie-back to Ninian Central, Orlando Field, commenced production in March 2019. Crude oil from the Ninian and associated fields is exported through the Ninian Pipeline to the Sullom Voe Terminal.

The **T-Block** in the Central North Sea consists of three oil and gas fields **Tiffany, Toni** and **Thelma**. The Tiffany Field is developed from a traditional fixed steel jacket platform. Toni and Thelma are developed from subsea templates tied-back to the Tiffany platform. Crude oil from the fields is exported via the Brae/Forties pipeline through the Forties Pipeline System to the INEOS-operated terminal facilities at Cruden Bay. Natural gas is exported through the Scottish Area Gas Evacuation (SAGE) pipeline terminating at St Fergus.

## 2.1 DECOMMISSIONING OPERATIONS

The **Ninian Northern** platform, which ceased production in May 2017, was removed between Q3 2021 and Q2 2022, leaving only the jacket footings decommissioned *in situ* in accordance with the approved decommissioning programme. Following completion of onshore recycling and disposals in Q1 2023, the Decommissioning Close Out Report was submitted to OPRED in October 2023.

The **Banff** and **Kyle** Fields, located in the Central North Sea, were produced via subsea manifolds to the Petrojarl Banff Floating Production Storage and Offloading vessel (FPSO), which was operated by Teekay Petrojarl Production. Following approval of the field decommissioning programme removal of subsea infrastructure is progressing and will continue through 2024.

The planning work for the Decommissioning Programmes for the **Ninian** Field hub began in 2023. This consists of two Decommissioning Programmes for each of the fixed platforms (**Ninian Central** and **Ninian Southern**) to address the topside removal and jacket footings. The subsea fields (**Columba, Lyell** and **Strathspey**) will form a separate Decommissioning Programme.

Decommissioning planning for **Ninian Southern** is progressing with pre-decommissioning Environmental Baseline Surveys completed in Q1 2024 and development of Decommissioning Programmes for the topsides and jacket progressing towards submission for public consultation later in 2024.

**Ninian Central** and the subsea fields pre-decommissioning Environmental Baseline Surveys will be scheduled in 2025 / 2026.

**Strathspey** is a subsea tie-back to Ninian Central, located in the Northern North Sea, close to the UK/Norway boundary. The Cessation of Production Application was accepted by the North Sea Transition Authority (NSTA, formerly the OGA) in Q1 2022, with CNRI to confirm CoP date. The works for the Decommissioning Programme commenced in Q3 2021. A pre-decommissioning Environmental Baseline survey took place in the Strathspey field in June 2022. The Decommissioning Programme for Strathspey field is expected to be submitted to the Regulator in 2025 in conjunction with further decommissioning activities associated with the Ninian field.

### 3 CNRI'S SHE MANAGEMENT SYSTEM

CNRI operates an integrated Safety, Health and Environmental Management System (SHEMS). The scope of the SHEMS includes offshore oil and gas exploration, production, drilling and decommissioning activities, with associated onshore support mechanisms. The SHEMS assists CNRI to:

- comply with Safety, Health and Environmental (SHE) legislation and industry standards;
- manage SHE risks in the business; and
- monitor and deliver continuous improvement in SHE performance.

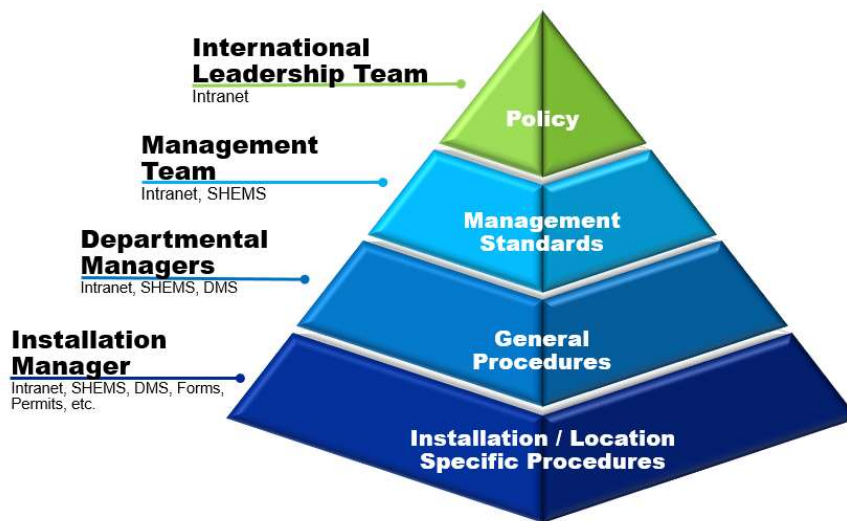
The system structure conforms to the broad principles of the HSE publication Managing for Health and Safety HS(G)65 and meets the requirements of general and offshore installation-related regulations.

In the North Sea, CNRI's directly operated installations (Ninian Central, Ninian Southern and Tiffany) are certified to ISO14001:2015 by ERM CVS, who are UKAS accredited verifiers of management systems. The subsea infrastructure associated with the Banff and Kyle fields are also included in the scope of our EMS certification.

#### 3.1 SHE MANAGEMENT SYSTEM STRUCTURE

The SHE Management System implemented on CNRI's offshore installations and within the onshore support organisation can be represented as a pyramid consisting of four levels:

- Policy
- Management Standards
- General Procedures
- Installation/Location Specific Procedures



#### 3.2 SHE POLICY

CNRI's top level policy for its operations in the UK is the Corporate Major Accident Prevention Policy (CMAPP) which states the Company's commitment to preventing major accidents, and outlines how this is achieved.



## **CORPORATE MAJOR ACCIDENT PREVENTION POLICY (CMAPP) STATEMENT**

Canadian Natural Resources International (CNRI) is committed to the prevention of Major Accidents which arise from offshore operations in the United Kingdom Continental Shelf.

CNRI's commitment to major accident prevention will be incorporated into the business activities through the following guiding principles:

- Maintain the Safety, Health and Environmental Management System (SHEMS) and ensure, on a continual basis that it is operating as intended throughout all operations in the UK Sector.
- Maintain a formal command and control system involving Senior Management for the control of all work activities and the management of Major Accidents Hazard (MAH) including Major Environmental Incident (MEI).
- Promote an effective safety culture by encouraging workforce involvement and recognising and rewarding positive behaviours.
- Ensure the competency of the workforce through training, continuous improvement and appraisal systems.
- Set clear expectations, goals, and targets relating to control of MAHs.
- Comply with relevant statutory provisions and incorporate statutory duties into operating procedures whilst continually monitoring for regulatory changes.
- Employ suitable hazard identification and risk management processes and assigning appropriate barriers to prevent unplanned escape of hazardous substances.
- Implement inspection and maintenance activities to achieve the required level of integrity and assurance for all safety and environmental critical systems.

CNRI's management is committed to the reduction of Major Accident Hazard risk, including Major Environmental Incidents, through continuous improvements to maintain risks ALARP.



Mike McKenzie  
Director Production Operations



Next Review Date: August 2024

SHE-POL-005 Issued – Rev 6 – 30/08/23

CNRI takes all reasonable precautions to achieve the goal of harm-free operations. Our SHE Policy is a public commitment to conducting business in a manner that protects the health and safety of people and preserves the integrity of the environment within which CNRI operates. CNRI's SHE Policy is embedded in CNRI's Corporate Statements on Environmental Management (see below), Health and Safety, and Asset Integrity Management.



## Corporate Statement on Environmental Management



Environmental stewardship is a fundamental value of Canadian Natural Resources Limited (Canadian Natural). The Company recognizes that every employee and contractor has a vital role to play in identifying, minimizing and mitigating environmental impacts from our operations to improve environmental performance. Canadian Natural's commitment to responsible environmental management will be incorporated into business activities through the following guiding principles:

- Ensure all employees and others engaged on Canadian Natural's behalf are aware of the commitment to improve environmental performance of Canadian Natural's operations;
- Provide strong leadership and promote a participative culture to proactively identify, assess and manage environmental risks and associated impacts;
- Strive to reduce the impacts of our activities through adaptive management while considering social and economic factors;
- Reduce the environmental footprint of our activities by continually improving energy efficiency, managing greenhouse gases, air emissions, water use and other resources; reduce and recycle waste materials and preserve and restore natural biodiversity through closure planning and reclamation;
- Identify significant changes affecting environmental management systems, listen to and respond appropriately to stakeholder issues and concerns and provide a mechanism for feedback;
- Ensure that effective emergency response measures are in place and provide prompt, effective and efficient response to any emergency situation;
- Investigate environmental incidents effectively to prevent recurrence, and communicate and implement lessons learned across all parts of the organization, including those from the experiences of others;
- Engage and communicate with the public regarding Canadian Natural activities;
- Manage tailings and mine waste structures, including water retention structures, safely and responsibly from design to closure; and
- Ensure that Canadian Natural operations comply with government regulations, industry guidelines and company policies and procedures concerning environmental management.

Canadian Natural's Management is responsible for developing specific operational procedures and standards that are consistent with this policy and are accountable for the maintenance, regular review and interpretation of this policy. Canadian Natural expects its suppliers, partners and business associates to have compatible environmental procedures and values.

Canadian Natural's Management is committed to achieving continual improvement in environmental performance through annual environmental objectives, targets, monitoring and measurement. Performance is reviewed and corporate status reports are presented regularly to Management and the Board of Directors.



Tim McKay  
President



Scott Stauth  
Chief Operating Officer  
Oil Sands



Trevor Cassidy  
Chief Operating Officer  
Exploration & Production

### **3.3 SHE MANAGEMENT STANDARDS**

CNRI uses ten management standards to support the SHE Policy. The standards describe the performance expectations and requirements in relation to key aspects of SHE management. They allow for some flexibility in terms of SHEMS implementation, so that different parts of the Company can meet these expectations in different ways, depending on their particular legal and other business drivers.

The ten management standards are:

1. Leadership and Commitment
2. Performance Management
3. Managing SHE Risks
4. Competence and Personal Development
5. Communication and involvement
6. Working with Third Parties
7. Change Management
8. Information and Documentation
9. Emergency Preparedness
10. Incident Reporting, Investigation and Analysis

### **3.4 GENERAL AND INSTALLATION SPECIFIC PROCEDURES**

General Procedures support specific Management Standards and, where a documented procedure is required, these describe the arrangements in place to meet the appropriate standard, for example incident investigation or oil spill response. These procedures provide consistency across the organisation: they are applicable to any operation and are generally not specific to any one location or installation.

Installation and location specific procedures are specific to an operation or activity; they define the arrangements that CNRI has determined are required to conform to General Procedures and thus meet the spirit and intent of the Management Standards.

## **4 CNRI'S SIGNIFICANT ENVIRONMENTAL ASPECTS**

CNRI's SHE Management System requires identification of the elements of activities that can interact with and therefore have an effect on the environment (called 'aspects' in ISO14001 standard terminology). This is to ensure that controls to minimise any potential negative environmental effects can be implemented.

In common with most offshore oil and gas Operators, CNRI has identified the following significant environmental aspects of its operations:

- Atmospheric emissions, in particular of carbon dioxide;
- Oil discharged to the marine environment;
- Solid waste generation and disposal;
- Chemical use and discharge; and
- Accidental releases (oil and chemical).

CNRI routinely monitors and reports its emissions performance and discharges as required by UK legislation and the internal SHE Management System. This information is reported via the Environmental Emissions Monitoring System (EEMS), which is a database of environmental information that is accessible by Oil and Gas Operators and by the regulator BEIS (Department of Business, Energy and Industrial Strategy). We also regularly report our SHE performance via monthly and quarterly internal reports, annual SHE performance review and contribute to Canadian Natural's corporate annual Stewardship Report to Stakeholders (available via [www.cnrl.com](http://www.cnrl.com)).

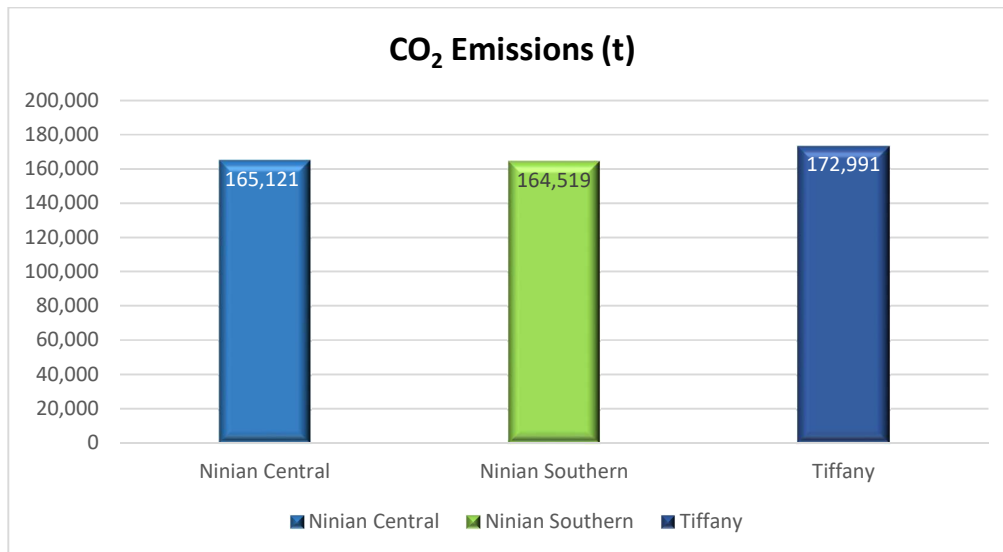
## 5 ENVIRONMENTAL PERFORMANCE

The environmental performance charts below have been compiled using EEMS data to ensure consistency of reporting, with the exception of the CO<sub>2</sub> Emissions, which shows verified Emissions Trading Scheme data.

### 5.1 ATMOSPHERIC EMISSIONS

The majority of power generated on CNRI’s offshore installations is from gas-fired turbines, with diesel utilised as a stand-by fuel. Diesel is also used for discrete applications such as fire-pumps, emergency generators and cranes. CNRI continues to examine identified emissions reduction opportunities using installation specific energy assessments, as well as emissions reduction opportunities identified by both onshore and offshore personnel.

CNRI is a member of the UK Emissions Trading Scheme, which actively seeks to reduce CO<sub>2</sub> emissions using a ‘cap and trade’ system. During 2023, emissions of CO<sub>2</sub> from CNRI installations increased to 0.50 million tonnes (*Figure 2*), compared to 0.49 million tonnes in 2022. The increase in emissions was a result of increases in operational and production stability on the Ninian Central and Tiffany platforms.



*Figure 2 Total carbon dioxide emissions in 2024<sup>1</sup>*

CNRI limits the flaring of gas wherever possible by using it in a variety of ways: produced gas is used for fuel, used for artificial lift to production wells, and exported as sales gas on Tiffany. Installations need to maintain a minimum level of flaring for safety reasons. The amount of gas flared in 2023 and associated CO<sub>2</sub> emissions were again higher than in 2022. A total of 0.13 million tonnes of CO<sub>2</sub> were emitted (*Figure 3*), compared with 0.12 million in 2022 and 0.15 million tonnes in 2021. The main reductions identified on Ninian Central Platform were as a result of the quantification and subtraction of cold flaring from the flared gas total.

Reductions in CO<sub>2</sub> emissions from both fuel gas and diesel use were identified over those in 2022. A total of 0.30 million tonnes of CO<sub>2</sub> from fuel gas were emitted in 2023, compared with 0.31 in 2022. A total of 0.05 million tonnes of CO<sub>2</sub> was emitted from diesel use in 2023, compared with 0.07 in 2022.

<sup>1</sup> Numbers are rounded

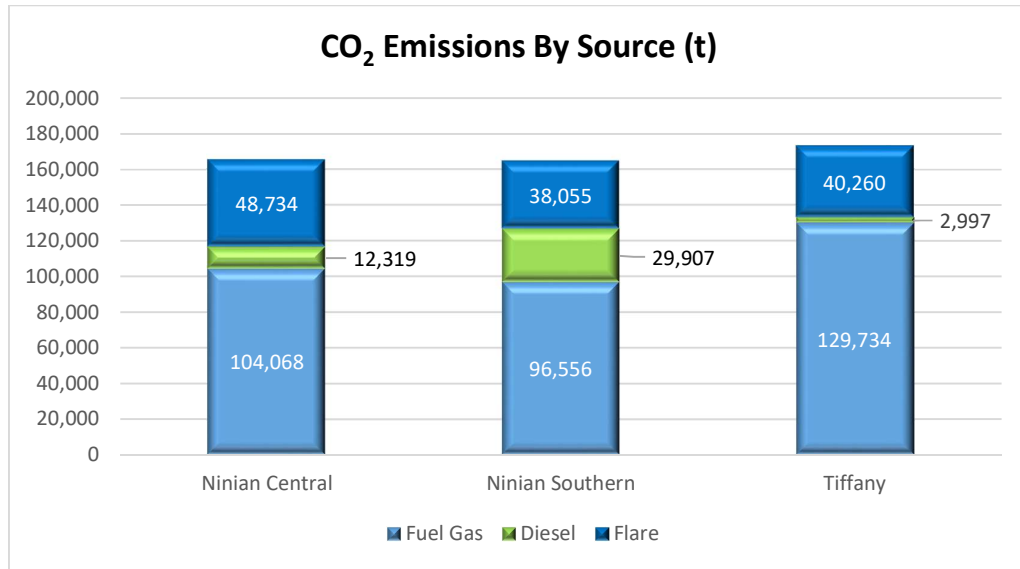


Figure 3 Sources of carbon dioxide emitted during 2023<sup>2</sup>

In addition to CO<sub>2</sub>, ranges of other atmospheric emissions are regulated under the Pollution Prevention and Control (PPC) Regulations. Figure 4 shows our performance in 2023. The majority of these emissions are derived from power generation on the installations.

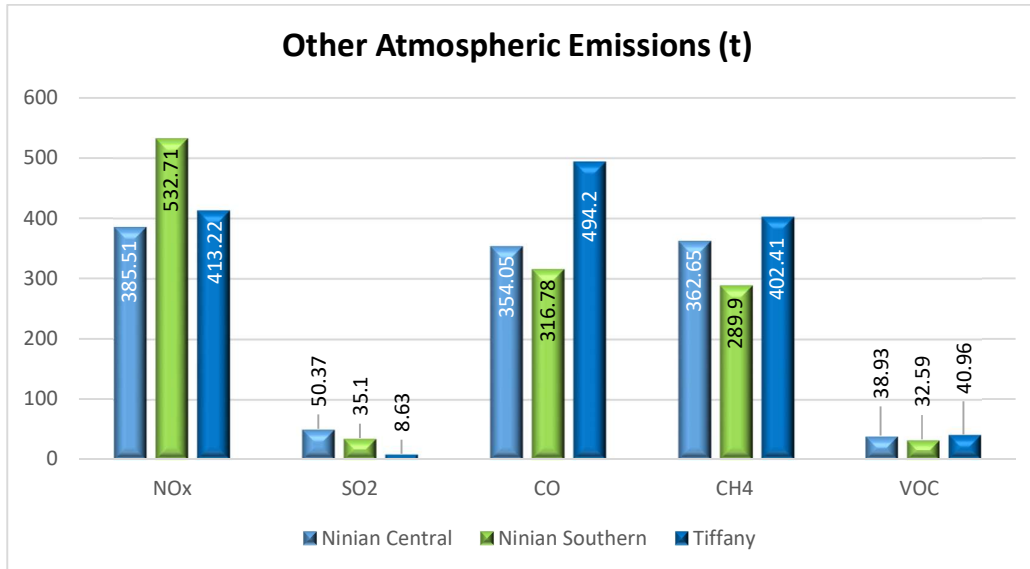


Figure 4 Other atmospheric emissions during 2023

<sup>2</sup> Numbers are rounded

## 5.2 OIL DISCHARGED IN PRODUCED WATER

Oil and gas reservoirs have a natural water layer (called formation water) that, being denser, lies under the hydrocarbons. As reservoirs become depleted of oil and gas, inhibited seawater can be injected into the reservoirs to support hydrocarbon recovery. Both formation and injected waters are eventually produced along with the hydrocarbons and, as an oilfield matures, the volume of produced water tends to increase as the reservoir fills with injected seawater. The ‘water cut’ or amount of water in produced fluids from wells on mature assets can be >95% by volume compared with the oil content.

On CNRI’s offshore installations, produced water is separated from hydrocarbons in gravity separators and treated to remove as much oil as possible before it is discharged to sea. Because produced water contains traces of oil, its discharge to sea is strictly controlled by the Offshore Petroleum Activities (Oil Pollution Prevention and Control) Regulations 2005, which define the average oil content of the water that may be discharged and limits the total amount of oil that may be discharged.

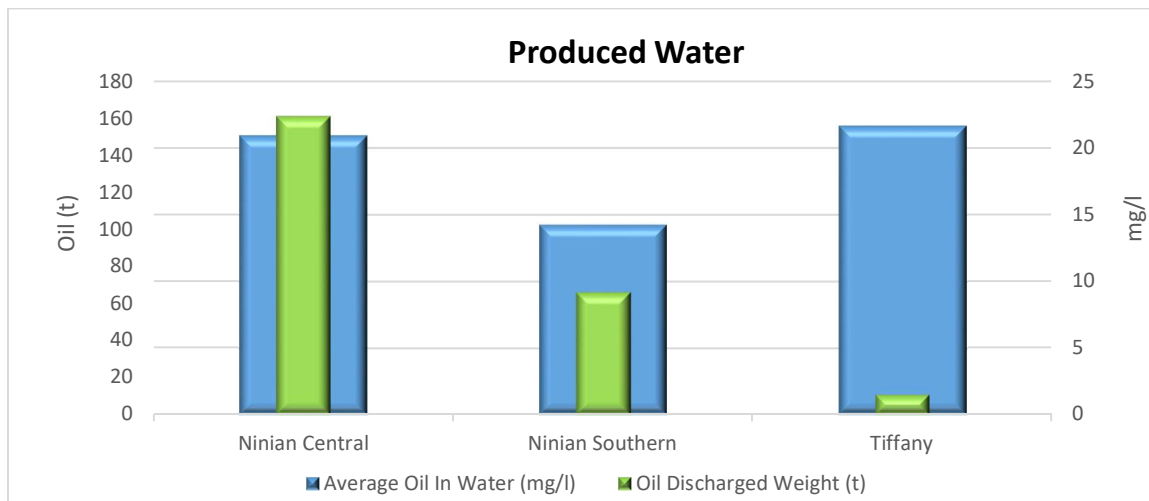


Figure 5 Average oil in water quality and oil discharged in 2023

Average quality of produced water discharged in 2023 across all CNRI UK assets was 18.92 mg/l a rise from 2022 (18.25mg/l). A total of 13 million cubic metres of produced water was discharged in 2023, a decrease when compared to the previous two years average. The total amount of oil discharged in produced water (238 tonnes) has increased slightly when compared to 2022. Increases are primarily due to process upsets on Ninian Central during Strathspey and Orlando start-up. Produced water quality on each platform over the year remained well below the legal limit of 30 mg/l for the monthly average set by the Regulator.

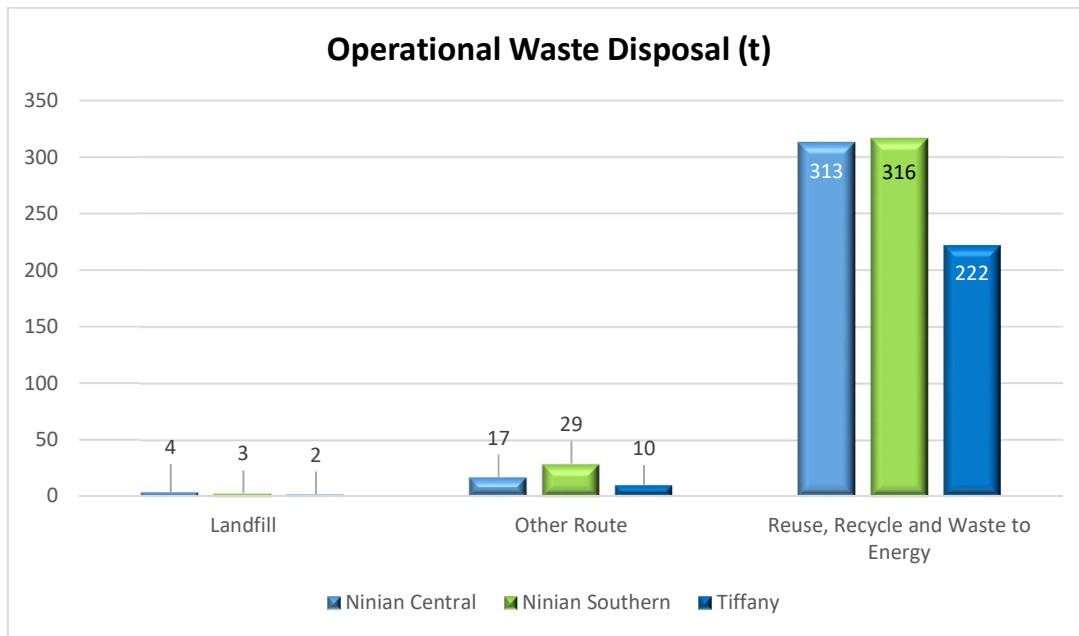
## 5.3 SOLID WASTE GENERATION AND DISPOSAL

CNRI has a duty to ensure that the segregation, transportation and eventual disposal of waste generated during operations is managed in accordance with legislative requirements. The Environmental Protection Act 1990 introduced the ‘Duty of Care’ with which all waste producers must comply. Hazardous waste that might be harmful to human health or the environment (also known as Hazardous or Special Waste) is governed by specific legislation, which includes strict handling and disposal requirements.

The offshore industry as a whole recycles a large proportion of its waste and CNRI works closely with its waste management contractors to identify recycling routes to maximise recycling. CNRI currently recycles metal, wood, paper and cardboard, glass, plastics, aluminium cans and empty oil/chemical drums. CNRI is also working to reduce the volume of waste generated offshore, especially of hazardous wastes such as oil-contaminated rags and other similar items. CNRI’s waste management contractor conducts regular random skip audits and provides monthly lists of ‘observations’ which allow focus on improvements in offshore waste management.

Operational waste excludes all drilling-related waste (i.e. drill cuttings and tank washings) and decommissioning waste.

In 2023, 916 tonnes of solid operational waste (Figure 6) were generated (compared with 1055 tonnes in 2022, and 862 tonnes in 2021). CNRI has worked closely with the waste contractor to identify opportunities for reducing our environmental footprint. Diverting wastes from landfill was a key metric introduced in 2018, and a total of 93% of the waste generated in 2023 was routed to recycling, waste to energy and reuse. The amount of waste sent to landfill was 9 tonnes, down from 135 tonnes last year and a further 56 tonnes were routed to other disposal routes (for example incineration of clinical wastes).



*Figure 6 Operational waste generated and disposed of during 2023*

Drilling waste is primarily made up of drill cuttings and tank washings. In 2023 no drilling waste was sent to shore for disposal as cutting reinjection facilities are present on both the Ninian Central and Ninian South Platforms.

## 5.4 CHEMICAL USE AND DISCHARGE INTO THE MARINE ENVIRONMENT

All chemicals used offshore during oil and gas production must be approved by the Centre for Environment, Fisheries and Aquaculture Science (CEFAS), and their use and discharge is controlled under the Offshore Chemicals Regulations 2002. Each chemical used must be risk assessed by the Operator as part of the permitting process, and any chemical which has particular hazardous properties (such as low biodegradability or high toxicity) requires additional justification for its use.

Production chemicals have a number of functions, including corrosion, scale and hydrogen sulphide inhibitors and biocides to prevent microbial souring of reservoirs. Also deoilers and demulsifiers to help to separate oil from produced water. When compared to 2022, the total amounts of production chemicals used during 2023 (Figure 7) increased.

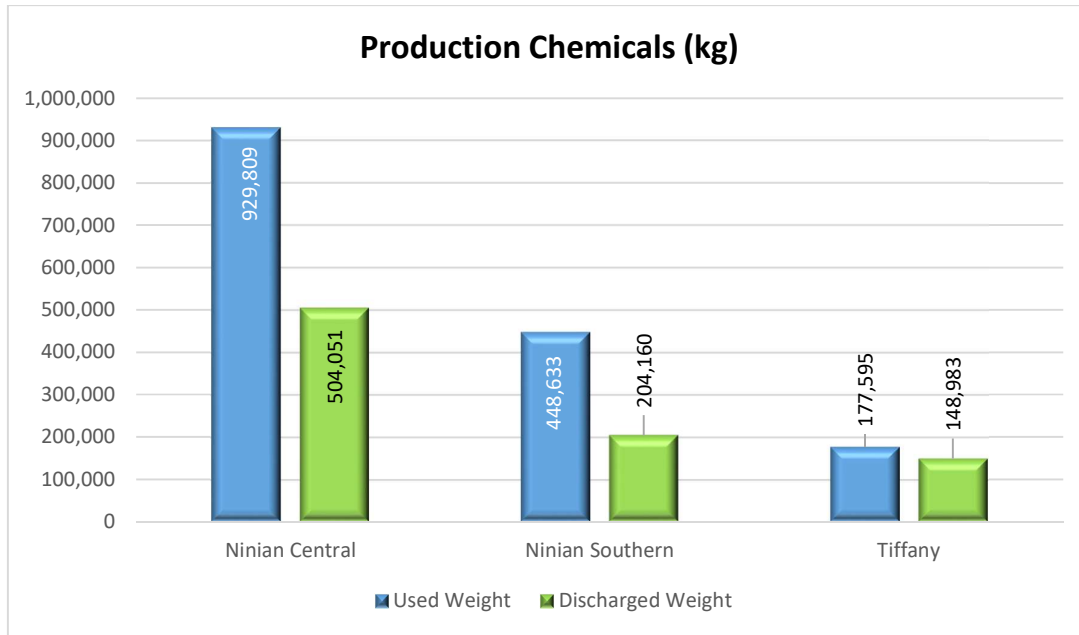


Figure 7 Production chemical usage and discharge during 2023

A wide range of chemical products are used during drilling operations, including complex fluids known as drilling muds. These are used to cool and lubricate the drill bit, to remove rock cuttings from the well bore, to prevent the hole from collapsing, to cement casings and clean wells. Chemicals are also used during intervention and workover operations, including during emergencies, for example to prevent losses of drilling fluids to the formation.

The chemicals used and discharged during drilling and intervention operations are a reflection of activity during the year.



There were no chemicals used or discharged from drilling activity in 2023. As well as platform intervention operations, well interventions were performed by the Well Enhancer, resulting in the use and discharge of chemicals as shown below.

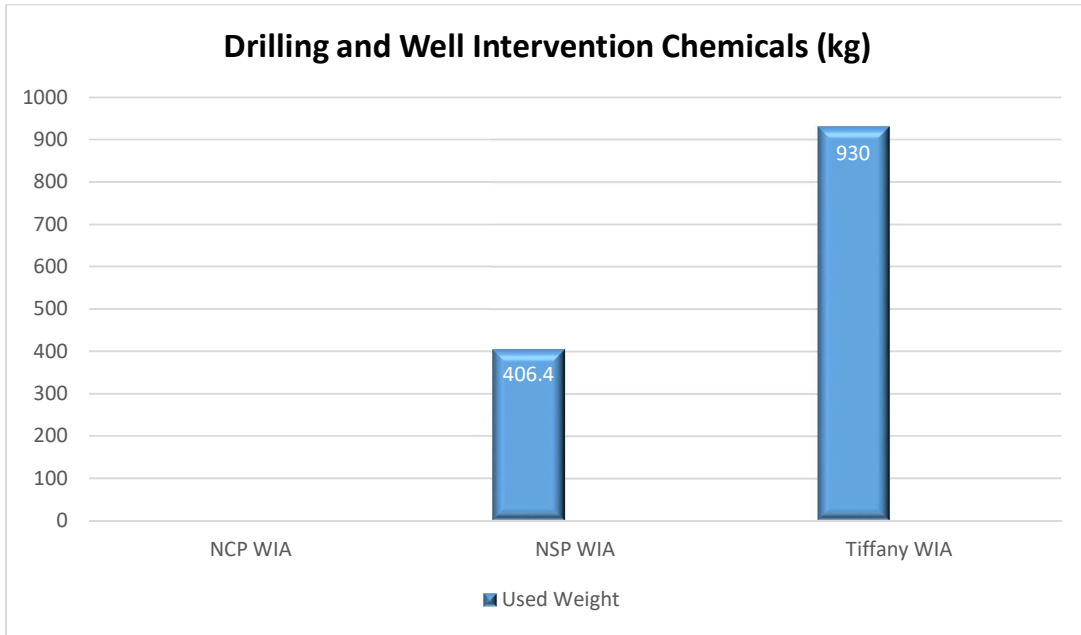


Figure 8 Drilling and Well Intervention chemical usage during 2023

The figure below shows the total use and discharge of chemicals during 2023.

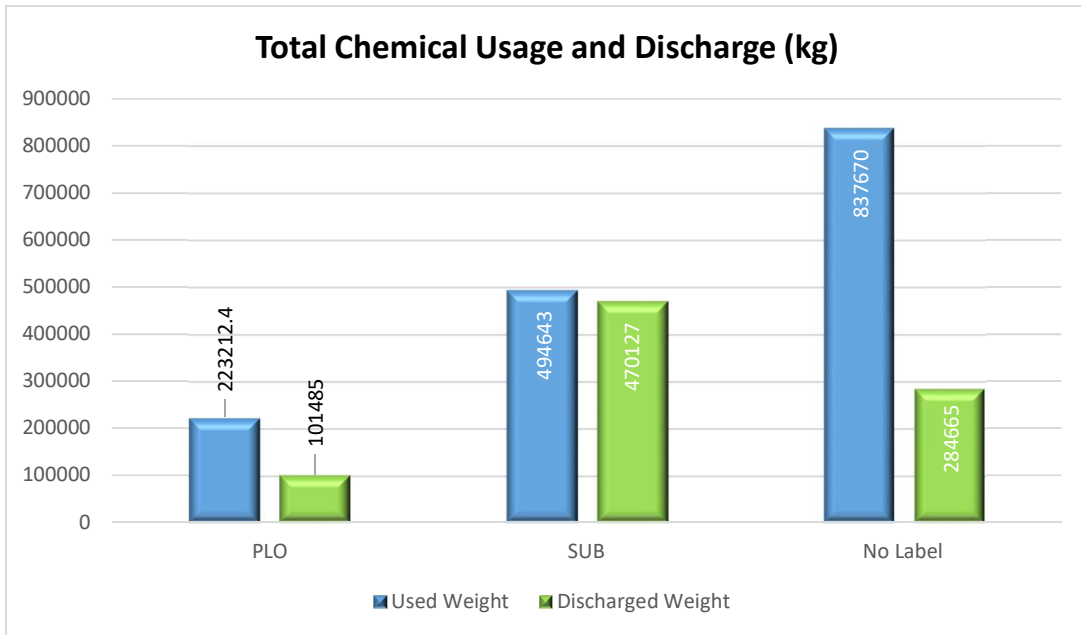


Figure 9 CNRI's chemical usage by CEFAS label during 2023 (all operations)

### 5.5 ACCIDENTAL RELEASES AND PERMIT NON-CONFORMANCES

All discharges of oil to sea, other than those regulated under an OPPC Permit, must be reported to the relevant authorities, regardless of volume. These reports are made on an ePON1 (Electronic Petroleum Operations Notice 1) form, and include notification of accidental releases of oils and chemicals to sea.

CNRI takes its responsibility to prevent accidental discharges of oil and chemicals to sea very seriously. Procedures are in place to prevent spills (during chemical or diesel handling for example) and our Integrity Management System is designed to ensure that hydrocarbons remain securely within the process envelope.

CNRI investigates all accidental releases to sea and permit non-conformances to ensure that lessons are learned and actions are identified and implemented to prevent reoccurrence. Government approved Oil Pollution Emergency Plans (OPEPs) are in place for all offshore installations and CNRI is a member of Oil Spill Response Limited, the world’s largest spill response organisation.

There were no oil or chemical spills recorded in 2023. CNRI submitted 23 non-compliances related to Oil Discharge Permits issued under the Oil Pollution Prevention and Control (OPPC) Regulations in 2023, which remains consistent with the 22 recorded in 2022, CNRI are consistently working to reduce this.

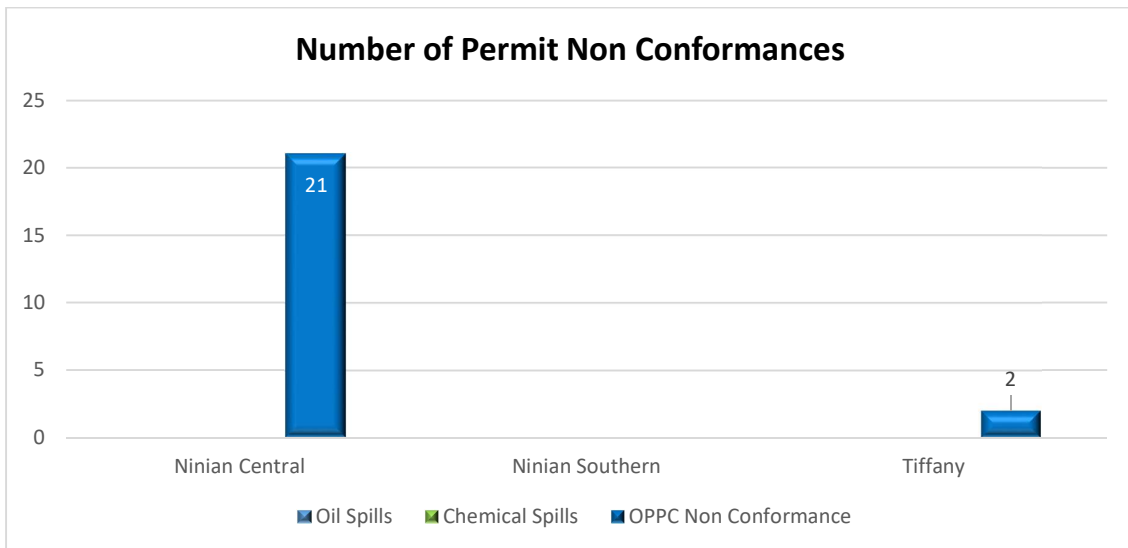


Figure 10 Oil and chemical spills during 2023

## 6 2022 ENVIRONMENTAL TARGETS

CNRI develops an annual SHE Improvement Programme for all of its operations. This programme includes targets for a series of leading and lagging performance indicators and sets out the means by which these are to be achieved, as well as improving Company SHE performance in general.

For 2023, four specific environmental targets were set, based on the historical performance of CNRI's operations in both UK and West Africa:

- To have fewer than 0.13 reportable spills per million barrels of oil equivalent production (BOE)
- To spill less than 0.02 tonnes of oil per million BOE
- To achieve an average oil in produced water concentration of 17.20 mg/l
- To emit no more than 0.054 tonnes of carbon dioxide per BOE

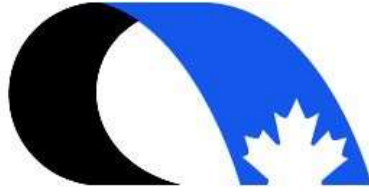
### How did we perform against these targets?

- ✓ Reported 0 oil spills per million BOE
- ✓ Spilled 0 tonnes of oil per million BOE
- ✗ Achieved average oil in produced water concentration of 18.32 mg/l
- ✓ Emitted 0.052 tonnes of carbon dioxide per BOE

2023 was a successful if challenging year, with reductions in line with most of the KPI targets the exception being produced water concentration.

The 2023 SHE Improvement Programme for the UKCS includes key performance indicators for oil discharged in produced water, the number and volume of reportable spills and leaks. Performance against these targets will be reported in the 2024 Environmental Performance Annual Report.





# CNR International

**THE PREMIUM VALUE** DEFINED GROWTH INDEPENDENT

