Annex B6.4

Open House Meeting Posters

Open House Meeting – October 2018

Welcome

to all interested and affected parties

Thank you for taking the time to attend this Open House Meeting.

This event is to share information about the exploration drilling within Block ER236, off the East Coast of South Africa, to answer questions and to hear your views

Project Proponent: Eni South Africa BV (Eni)

Environmental Assessment Practitioner: Environmental Resources

Management Southern Africa (Pty) Ltd

Declaration of Independence:

ERM is a privately owned company registered in South Africa. ERM has no financial ties to, nor is ERM a subsidiary, legally or financially, of Eni. Remuneration for the services by the Proponent in relation to this report is not linked to an approval by the decision-making authority.

Please ensure that you register, ask questions, and record your comments in one of the ways provided.

Thank you for your participation, your inputs are important!



Open House Format

This event is for you to learn more, ask question and share your views about the project and its possible impacts. Please:

- View the posters which highlight information on the project.
- Watch the background presentation.
- Speak to members of the project team at your convenience.
- Record your comments / views on a comment sheet, or share them with one of the facilitators. All comments will be addressed in the Comments and Response Report.
- The ERM project team will assist you in ensuring that your comments are captured.
- If you need further assistance with a local translator, kindly inform the project team.

The following posters are displayed which provide extensive background information:

- 1. Welcome and Independence
- 2. Code of Conduct
- 3. EIA Process
- 4. Project Description
- 5. Project Logistics
- 6. Impacts to Marine Ecology Study
- 7. Impact to Fisheries Study
- 8. Other Impacts

- 9. Unplanned Events
- 10. Oil Spill Modelling Results
- Oil Spill Risk Prevention and Response Measures
- 12. Summary of Key Mitigation Measures
- 13. Eni Sustainable Approach and Business Model*

The overall Draft EIA Report is available on the **project website**: <u>www.erm.com/eni-exploration-eia</u> and at the following public locations:

- Durban Central Lending Public Library
- Richards Bay Library
- Port Shepstone Library
- East London Central Library
- Nelson Mandela Bay Municipality Linton Grange Library
- ERM offices, Suite S005, 17 The Boulevard, Westway Office Park, Westville

Stakeholders are invited to submit comments on the Draft EIA Report to ERM. There are various ways for you to do this: ask a facilitator to write your comment down, or write it down yourself at a dedicated desk, or via email: eni.offshore.eia@erm.com

*Note: content for "Eni sustainable approach and business model" has been provided by the proponent Eni SA BV



Meeting Etiquette

This Open House event is an opportunity for participants in the process, and for stakeholders to gain knowledge and clarification from the presentation material and facilitators

1. Please respect all participants and facilitators.

If you have any questions, please ask to a facilitator or member of the Project team.

All participants should have the same opportunity to record their views, provide questions and receive answers from the Project team.

The Project team's role is to provide explanations of the presentation material, to answer questions and to hear your comments.

If the facilitator is already busy answering to other participant, please be patient and wait your turn.

2. Please allow everyone to participate in a fair and respectful way.

Facilitators and translators are available to share information and to hear your views. If you need further assistance in your local language (isiXhosa or isiZulu), please don't hesitate to ask for it.

Please note:

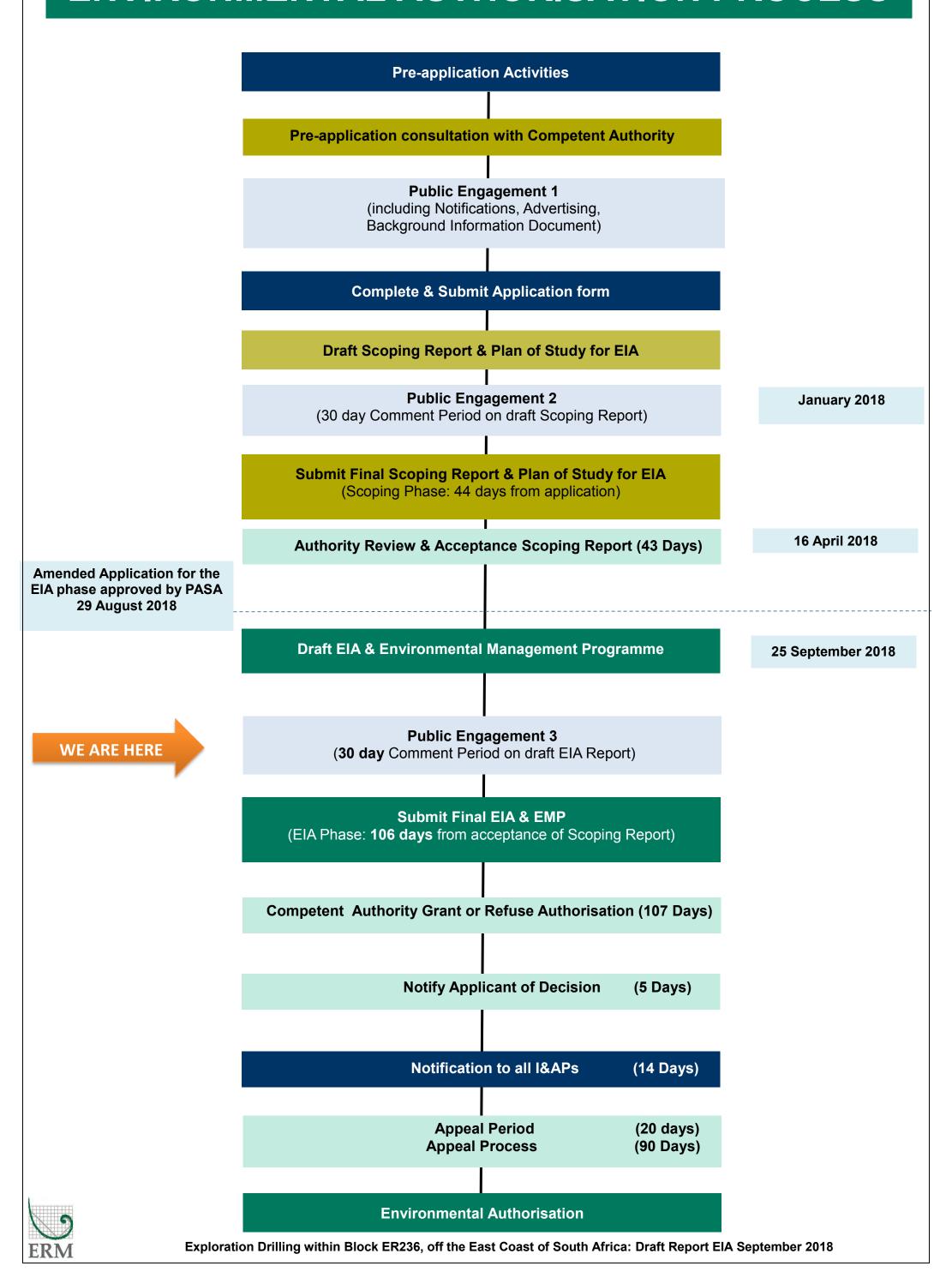
3. We want to hear your views.

Make sure that your views are recorded. There are various ways for you to do this: ask a facilitator to write your comment down, write it down yourself at a dedicated desk, or send by email: eni.offshore.eia@erm.com

Finally, once you have completed your review and discussion of the material, move through the room to allow others to do the same.



ENVIRONMENTAL AUTHORISATION PROCESS



PROJECT DESCRIPTION

INTRODUCTION

Eni South Africa BV (Eni) and Sasol Africa Limited (Sasol) hold an Exploration Right Block ER236 (12/3/236).

Eni and Sasol are considering conducting an exploration drilling programme in Block ER236 located off the East Coast of South Africa to work out if there is any gas and/or oil.

The Project requires Environmental Authorisation (EA) from the National Department of Mineral Resources (DMR), through the Petroleum Agency South Africa (PASA).

PROJECT BACKGROUND AND MOTIVATION

The South African government promotes the sustainable exploration and development of oil and gas reserves through Operation Phakisa.

Improvements in exploration technology and the need for South Africa to diversify its energy mix has resulted in increased interest in exploration activity offshore.

PROJECT CONTEXT

- Eni is considering drilling one well in late 2019/ early 2020
- One well will be completed in two months
- The success of the first well will determine whether or not subsequent wells are drilled (up to 5 additional wells)

MAIN PROJECT COMPONENTS

- Drilling exploration well offshore
- Deep water drillship
- Logistic base (Richard's Bay or Durban Port)
- Supply vessels, standby vessels and helicopters

South Africa Richards Bay Put emantabuty Port Shepstone N Northern Area of Interest for exploration Southern Area of Interest for exploration N NORTHERN AREA OF INTEREST SOUTHERN AR

Source: ERM, 2018

DEEP WATER DRILLING OPERATIONS : >1,500m water depth

NO VISUAL IMPACT FROM THE SHORE: +60 km beyond the horizon



Source: Shutterstock, 2017

PHASES AND METHODOLOGY

Jetting or 42" Hole 24" Hole 24" Hole 20" casing strings + cement 20" casing 16" Hole 13" 3/8 casing 9" 5/8 casing Open Hole or 7" liner (contingency)

I) MOBILISATION & PRE- DRILLING PHASE

- Mobilisation of the drillship in deepwater
 - 1500-2100m in Northern area
 - 2600-3000m in Southern
- Pre-drilling survey activities and positioning
 - Seabed survey with Remote Operated Vehicle (ROV) to confirm location
 - Dynamic positioning system

II) DRILLING PHASE

- From seabed, drilling well 1500-2500m with sea water/mud in different steps
- Run casing and cement job to secure/ seal the hole
- A blowout preventer (BOP) will be installed at the wellhead during drilling to avoid uncontrolled release of hydrocarbons
- Real time monitoring to guarantee safety

III) WELL EVALUATION & TESTING

- Continuous monitoring and evaluation of drilling parameters, formation and cuttings with analysis carried throughout operations
- Well completion and well testing options to be conducted only in future appraisal well if hydrocarbons are found

IV) DECOMMISSIONING (PLUG & ABANDON) & DEMOB PHASE

- The well is plugged and abandoned by setting cement plugs inside the wellbore
- Plugs tested for integrity to prevent leaks
- Final ROV survey to be performed to record seabed and the remaining wellhead status
- Demobilisation of the drillship and vessels
- End of operations

LOGISTICS

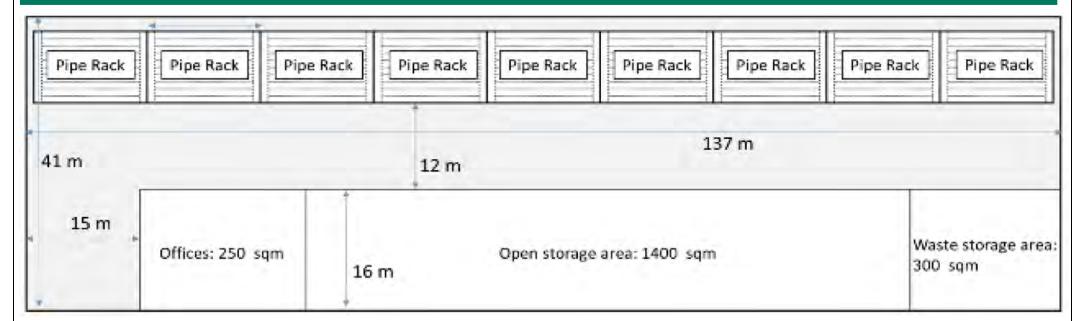
INTRODUCTION

The onshore impact from the project include mobilization and demobilization of goods, materials, personnel from and to onshore logistic base and offshore drilling site.

ONSHORE LOGISTICS BASE

The onshore logistics base will be located in Richards Bay or Durban, on an existing brownfield site (previously developed land) within the Port or the Industrial Development Zone (IDZ). It will include the following facilities:

- An open storage area with a pipe rack yard for drilling equipment: up to 6000 m²;
- A covered warehouse for drilling material and other minor equipment: up to 500 m²;
- A shelter for storage of consumables (cement, barite, bentonite): up to 100 m²;
- Temporary confined storage for waste (hazardous and not hazardous) prior of delivery to waste treatment and disposal facilities;
- Temporary mud plant and storage tanks for brine and mud: around 80 m3;
- A crane for heavy lift and forklift for internal movements;
- Temporary offices for logistic base personnel.



OFFSHORE LOGISTICS

Source: Eni, 2015 and Saipem, 2017

- 500 m Exclusion Zone
- Movements of materials and drilling fluids (mud, industrial water, waste) by dedicated supply vessels
- Transport of personnel (around 200 people will work offshore) to the drillship will probably be by helicopter

Drillship:

It is a self-propelled vessel used to drill wells in deepwater with the flexibility to move from location to location. Its navigation equipment will keep the ship stable above the well location through all over operations.

Standby vessel:

Used to patrol the area surrounding the drillship 24/24h 7/7 days to provide assistance in case of emergency and reinforce 500 m exclusion zone. It will support contingency operations in case of spill.

Supply vessel:

Used to transport materials and goods, including tubulars, wellhead, chemicals and drilling fluid (mud, industrial water), fuel, food, waste. In case of emergency or spill it will support contingency operations (e.g. booms deployment, skimmer installation, capping system).

Helicopters:

Used to transport crew from land airport to the drillship during crew change and medical evacuation

DRILLSHIP SPECIFICATIONS

Principal Dimen Parameters	sions / Operating	Storage Capaciti	es	
Length	228 m	Active mud	2 000 bbl	
Breadth	42 m	Reserve mud	10 000 bbl	
Depth	19 m	Brine water	3 000 bbl	
Operational draft	12 m	Base oil	3 000 bbl	
Transit draft	13 m	Bulk mud/cement	34 500 bbl	
Maximum water depth	3 658 m	Drill water	18 000 bbl	
Maximum drilling depth	10 660 m	Fuel oil	50 000 bbl	
Moonpool	25.6 m x 10.26 m	Personnel On Bo	pard	
Main generator sets	6 x diesel generators, 9, 900 HP each	Available Accommodation	200 People	

Source: Eni, 2015 and Saipem, 2017



IMPACTS TO MARINE ECOLOGY STUDY

INTRODUCTION

Purpose of the Study: To determine potential impacts on marine ecology generated by the exploration drilling activities including the disposal of drilling muds and cuttings to the seafloor.

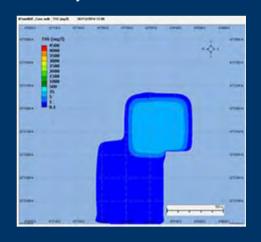
This poster summarizes the impacts from planned activities that were assessed as **Minor**, **Moderate** or **Major** prior to mitigation. Refer to **Other Impacts Poster** for other impacts to marine ecology.

Study completed by: Dr. Andrea Pulfrich of Pisces Environmental Services

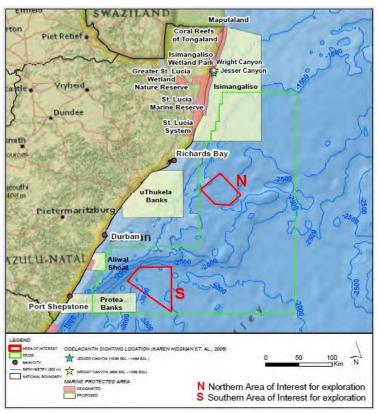
KEY FINDINGS

Impacts related to drilling cuttings and muds on normal and sensitive benthic communities from smothering and bioaccumulation of Non-Aqueous Drilling Fluid (NADF)

- The disposal of drill cuttings and muds to the seabed could cause smothering of sensitive sessile benthic fauna, if present, such as deepwater corals and physical alteration of the benthic habitat <200m from the well
- In order to avoid impacts to sensitive habitats Eni will conduct a pre-drilling ROV survey to determine if there are any sensitive habitats present on the seabed and position the well at least 500 m from the sensitivity.
- Areas of deposition of <5mm thickness will be mainly isolated to within a 100m radius of the wellhead
- Discharged cuttings will contain less than 5% of drilling fluid by weight. The adoption of dryer system will minimize the presence of residual NADF mud adhered to cuttings.
- The overall footprint deposition, > 1 mm, impacts a maximum area of 7km² around the well site.
- Mobile benthos will recolonise the impacted area relatively quickly



Source: ERM, 2018



Source: ERM, 2018

Impacts of helicopter noise associated with drilling on marine fauna and seabirds

- Noise generated by helicopters undertaking crew transfers between helipad and the drillship could affect seabirds in breeding colonies and roosts on the coast. Negative effects of disturbance to seabirds by aircraft include reduction of usable habitat, increased energy expenditure, reduced food intake and resting time and ultimately affect breeding success.
- Reactions to aircraft flyovers vary both within and between species, and range from no or an observable behavioral response

Impacts of underwater noise generated by drilling and vessels on marine fauna masking behaviour

- The sound level generated by drilling operations and vessels fall within the 120 to 190 dB re 1 μPa range, comparable with common noise range of shipping and commercial vessels
- The underwater noise generated by drilling operations falls within the hearing range of most fish and marine mammals
- Noise impacts could result in localised behavioral changes or masking of biologically relevant sounds in marine fauna.
 Marine fauna may either respond by retreating from the noise or could be attracted to the source.
- The species most vulnerable to noise disturbance in the project area are turtles, pelagic seabirds, large migratory pelagic fish and both migratory and resident cetaceans.

FINDINGS OF IMPACT ASSESSMENT FOR PLANNED ACTIVITIES AND KEY MITIGATION MEASURES

Impact Description	Pre-mitigation Significance	Key Mitigation	Post Mitigation Impact
Direct physical impact of disposal of muds and cuttings at the seabed on sensitive benthic fauna	Moderate	Ensure drill site is located more than 500 m from any identified vulnerable habitats with a pre-drill ROV survey.	Minor
Biochemical impacts related to cuttings discharge with NADF adhered mud residuals to marine fauna present in the water column and seabed	Minor	 Eni's specifications, based on international good practice, for discharge of NADF retained on drill cuttings includes: Discharge of cuttings at more than 15m below the sea surface Only discharging cuttings overboard in water depth greater than 30m Maximum residual non-aqueous phase drilling fluid 5% (C16-C18 internal olefins) or 9.4% (C12-C14 ester or C8 esters) on wet cuttings Mercury (Hg): max 1 mg/kg dry weight in stock barite. Cadmium (Cd): max 3 mg/kg dry weight in stock barite. Ship-to-shore if the above are exceeded. 	Negligible
Disturbance of marine fauna by the masking of biologically relevant sounds by underwater noise associated with drilling operations	Minor	Vessels engine and drillship dynamic positioning system should undergo regular maintenance regime to reduce noise, which includes the cleaning of propeller and underwater hull.	Minor
Impacts of helicopter noise associated with drilling on marine fauna.	Moderate	Avoid extensive low-altitude coastal flights (<914 m and within 2 km of the shore) to minimize impact on birds and marine fauna at sea surface.	Minor

IMPACT TO FISHERIES STUDY

INTRODUCTION

Purpose of the Study is to determine whether the proposed project activities, including the presence of a 500m exclusion zone, and the abandonment of the wellhead on the seafloor could have an **impact on the fisheries industry**.

Study completed by Dr David Japp and Sarah Wilkinson of Capricorn Marine Environmental

DEFINITIONS

EEZ: Exclusive Economic Zone.

Exclusion Zone: the 500m safety zone around the drillship

Demersal fish: fish that live on or close to the seabed

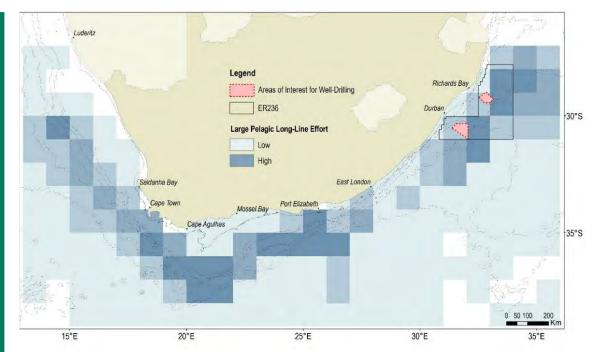
Pelagic fish (e.g. tuna and swordfish) live and feed in the Ocean,

in the middle zone of the water column

KEY FINDINGS

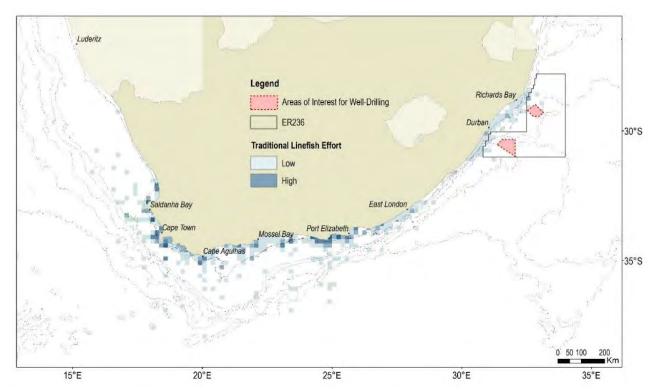
PELAGIC FISHING:

- The fishery operates extensively within the South African EEZ, primarily along the continental shelf break and further offshore
- There are currently 30 commercial large pelagic fishing rights issued and 21 vessels active in the pelagic fishery
- Areas with medium effort for Pelagic longline fishery overlap with the drilling areas of interest
- During drilling operations **no fishing is allowed within the exclusion zone** (500 m radius around drillship)
- The impact was considered be local in extent (limited to the area of interest) and of short-term duration (up to two months)
- The scale of the impact is determined to be small.



Source: Capricorn Marine Environmental (Pty) Ltd, 2018

SPATIAL DISTRIBUTION OF NATIONAL FISHING EFFORT EXPENDED BY THE LONG-LINE SECTOR TARGETING LARGE PELAGIC SPECIES IN RELATION TO ER236 AND THE DRILLING AREAS OF INTEREST



NEARSHORE (COASTAL) FISHING:

- The KwaZulu-Natal (KZN) prawn trawl fishery lies 30-35km inshore of the northern and southern drilling areas of interest, respectively
- The KZN line-fish fishing effort lies at least 10km and 35km inshore of the northern and southern drilling areas of interest, respectively
- The KZN line-fish and prawn trawl fishery partially overlap with the Block but no areas overlap with drilling area of interest
- During drilling operations there will be no impact to the linefish and crustacean trawl fisheries

Source: Capricorn Marine Environmental (Pty) Ltd, 2018

SPATIAL DISTRIBUTION OF TRADITIONAL LINE-FISH SECTOR SHOWING THERE IS NO INTERACTION WITH ER236 AND THE DRILLING AREAS OF INTEREST

FINDINGS OF IMPACT ASSESSMENT FOR PLANNED ACTIVITIES AND KEY MITIGATION MEASURES

Impact Description	Pre-mitigation Significance	Key Mitigation	Residual Impact
Impacts related to the 500 m exclusion zone around drillship that restricts access to fishing grounds	Minor	Affected stakeholders to be notified of the location, duration and timing of drilling activities	Minor



OTHER IMPACTS FROM PLANNED ACTIVITIES

INTRODUCTION

An impact of **Negligible significance** is an impact where a resource/receptor (including people) will not be affected in any way by a particular activity or the predicted effect is deemed to be "imperceptible" or is "indistinguishable" from natural background variations.

WASTEWATER DISCHARGES ON MARINE FAUNA

Assessment

- Turtles pelagic seabirds, large migratory pelagic fish and marine mammals are vulnerable to marine pollution
- Limited operational discharges from vessels and rapid dispersion

Key Mitigation Measures

- Compliance with MARPOL 73/78 Annex I, Annex IV, Annex V
- Separation of waste at source
- Recycling of wastes where possible

NEGLIGIBLE IMPACT

PRE- DRILLING AND DRILLING OPERATIONS ON SEABED SEDIMENTS & BENTHIC FAUNA

Assessment

- The benthos around wellhead will be disturbed during drilling. The seabed area that will be disturbed is 0.91m².
- Smothering of sessile benthic and physical alteration of the benthic habitat is expected <200m distance from the wellhead
- Areas of deposition of <5mm thickness were mainly isolated to within a 100m radius of the wellhead
- ROV thrusters during survey could temporarily stir up the soft or silty sediments when operating close to the seabed
- Rapid recolonisation of benthic fauna is expected at the end of operations

Key Mitigation Measures

 Avoid drilling in the canyons and ensure drill site is located more than 500m from any identified vulnerable habitats

NEGLIGIBLE IMPACT

PROJECT GREENHOUSE GAS EMISSIONS ON CLIMATE CHANGE

Assessment

- Vessel consumption similar to commercial vessel of same dimension
- Limited climate change implications from the burning of fossil fuels by the project vessels offshore

Key Mitigation Measures

 Compliance to MARPOL 73/78 Annex VI regulations regarding the reduction of NOx, SOx and GHG emissions from vessel engines

NEGLIGIBLE IMPACT

LIGHT FROM PROJECT VESSELS ON MARINE AND AVIAN FAUNA

Assessment

- Pelagic seabirds and other marine fauna may be attracted by the light
- Use of 24/24 hours lights is an important safety requirement on board of drillship

Key Mitigation Measures

 Lighting on drilling vessels to be orientated to minimise lighting impact but still ensuring safe operations

NEGLIGIBLE IMPACT

MARITIME HERITAGE FROM DRILLING OPERATIONS

Assessment

- As the water depths are more than 1,500m deep, there is no likelihood of any submerged prehistoric archaeological sites or material being encountered
- There are no known or recorded shipwrecks within the two drilling areas of interest

Key Mitigation Measures

 Perform a ROV survey to ground-truth seabed conditions prior to start any operations.

NEGLIGIBLE IMPACT

ABANDONED ("DECOMMISSIONED") WELLHEAD ON MARINE BASED ACTIVITIES

Assessment

- The abandoned wellhead would be located at a water depth of between 1,500m and 2,100m in the northern, and between 2,600m and 3,000m in the southern areas of interest
- No demersal fishing activities overlap in the Block

Key Mitigation Measures

 The abandoned wellhead location must be surveyed and accurately charted with the HydroSAN Office.

NEGLIGIBLE IMPACT



Source: Eni, 2017

CREATION OF LOCAL EMPLOYMENT OPPORTUNITIES

Assessment

 The project employment opportunities from the exploration phase are limited (five to ten at most).

Key Mitigation Measures

 Eni will establish a recruitment policy which prioritises the employment of South African and local residents, where possible

NEGLIGIBLE IMPACT

Refer to the Eni sustainability poster for future opportunities if the exploration phase is successful



Exploration Drilling within Block ER236, off the East Coast of South Africa: Draft EIA Report September 2018

UNPLANNED EVENTS

INTRODUCTION

An **unplanned/ accidental event** is a foreseeable unlikely incident with a very low probability of occurrence.

Such unwanted events, that are not anticipated to occur as part of the project must be considered and analysed in the EIA assessment.

MODELLING CONDUCTED

Three accidental spill scenarios events were assessed in the EIA Report to predict their consequences:

- Accidental oil spill due to a vessel collision;
- Accidental oil spill due to a blowout; and
- Emergency release of Non-Aqueous Drilling Fluid (NADF) due to the emergency disconnection of the riser.

The simulations have been performed without the response and mitigation measures applied. This is an <u>unrealistic situation</u> with no mitigation and response actions.

In reality Eni and its contractor will immediately <u>activate the</u> <u>Contingency Plan to promptly react</u> to the emergency, limit the environmental impacts and solve the emergency situation.

LIKELIHOOD / PROBABILITY OF A SPILL

- The **probability of a blowout is very low** where the frequency of occurrence is 2.5 × 10⁻⁴, **1 case in 4,000 drilled wells** (OGP Report, 2010)
- Eni assesses the risk of a well blowout, from the geological factors, tools reliability and human errors, during the well design phase and considers the use and development of new technology to minimize the risk. This results in a **reduction of the blowout frequency** from 10⁻⁴ down to 10⁻⁶, **1 case in 400,000 drilled wells**.



RISK SIGNIFICANCE ON MARINE & COASTAL

I) HABITATS AND SPECIES

- A slick resulting from all 3 scenarios would spread in a southwesterly direction and would be unlikely to reach the shore
- Dissolved aromatic hydrocarbon concentrations may persist in the top few meters of the water column beneath the slick from a blowout potentially resulting in toxicological effects in marine fauna coming in contact with the slick for extended periods.

II) LIVELIHOODS, FISHING, TOURISM

- Result of the modelling indicates that **no significant shoreline oiling would occur**, and it is therefore, unlikely that the unplanned release of hydrocarbons would affect the operations of the nearshore fisheries
- Extent of loss of livelihood would depend of the severity of the spill and how long clean-up operations take to complete
- In a vessel to vessel collision there is a risk of injury or fatalities to crew or passengers on other vessel and loss of work
- Disturbances and damages to fishing/tourism would result in the temporary stand-by and loss of access during the implementation of the oil spill contingency plan.

UNPLANNED EVENTS POST MITIGATION MODERATE ALARP RISK SIGNIFICANCE

IMPACT

Based on above 3 defined unplanned emergency scenario,

Oil or Diesel or drilling fluid (NADF mud) spills could impact on:

- Offshore and coastal marine and avian fauna and seabirds
- tourism
- small-scale subsistence fisheries
- pelagic longline fisheries

KEY MITIGATION/MANAGEMENT MEASURES

- Prior to operations, Eni shall define and implement, in case of spill, the Oil Spill Contingency Plan (OSCP) and Emergency Response Plan (ERP) for each well.
- Prior to drilling operations, Eni will adopt several control measures, starting from the well design and engineering phases
- During drilling operations, formation and drilling parameters are monitored in real-time to early detect possible anomalies and control the well
- Eni will develop a Communication Plan to be implemented in event of an accidental oil spill

Vessel collision on community health and safety

- Eni shall distribute a Notice to Mariners prior to the commencement of the drilling operations to inform them of drilling activities, including timing and location
- Project vessels to inform other ships and boats by radio announcements of the location
- Project vessels to use signals, lights and markings to increase visibility
- Project vessels to enforce a 500m radius safety/exclusion zone



OIL SPILL MODELLING RESULTS

INTRODUCTION

Purpose of the Study: the oil spill modelling is to identify the consequences of different unwanted spill scenarios in case of VERY **UNLIKELY** accident, during drilling an exploration well.

The model identified the probability of oil impacting the surface water, the coastline or nearshore receptors and will **support the planning** of avoidance, reduction and mitigation actions.

Study completed by:

Michael Fichera, William Schew and Shwet Prakash, Environmental Resources Management

THRESHOLDS APPLIED TO **MODELLING**

- Significant slick thickness: 1 µm minimum thickness threshold for smothering of aquatic organisms and wildlife
- Significant shoreline mass flux: 100 g oil/m² threshold for shoreline oiling, provides a lowerlimit to delineate significance for injuring wildlife making contact with shoreline deposits
- Dissolved Aromatic Hydrocarbon (DAH): highly conservative 5 parts per billion (ppb) threshold, indicates that there is no observable effects on organisms in terms of narcosis from aromatic hydrocarbons content within an oil spill.

RISK OF A SPILL

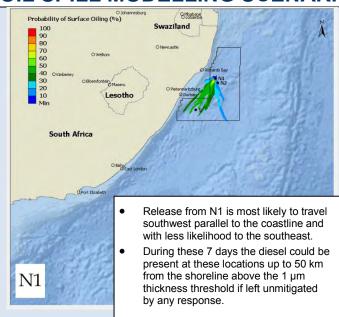
The probability of a blowout is **very low** where the frequency of occurrence is 2.5×10^{-4} , 1 case in 4,000 drilled wells (OGP Report, 2010).

Eni has implemented the following measures to reduce the risk associated with geological factors, tools reliability and human errors

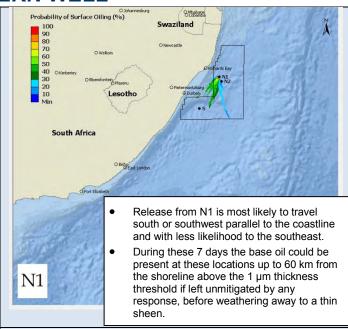
- Well design
- Adopting mitigation and preventing actions and procedures.
- Advanced planning and development of contingency plan
- Use of performance tools, real time monitoring technologies. This is necessary to significantly reduce the risk associated with geological factors, tools reliability and human errors.

Eni's adoption of top industry and development of new technologies, the adherence and respect of international best practice, standard and procedures, reduces the risk of the blowout frequency from 10⁻⁴ down to 10⁻⁶, risk associated with geological factors, tools reliability and human errors.

OIL SPILL MODELLING SCENARIOS AND RESULTS OF THE NORTHERN WELL



Release from N1 is most likely to travel southwest and south. During these 34 days it is highly likely that such a spill with thickness above the N1 minimum smothering thickness (1.0 µm) would remain out to sea before weathering away into a thin sheen or



Scenario 1: Vessel Collision Diesel Spill

The figure shows the probability of oil being present at a location on the water surface from a very unlikely diesel oil spill due to a vessel collision.

Scenario 2b: 20-Day Crude Oil Blowout

degrading within the ocean.

The figure shows the probability of oil being present at a location on the water surface from a very unlikely crude oil spill due to a blowout | unlikely oil spill due to a riser disconnect and No being stopped by the installation of a capping | Aqueous Drilling Fluid (NADF) dispersion. system after 20 days of release.

Scenario 3: NADF Mud Release

The figure shows the probability of oil being present at a location on the water surface a very

The colored contours depict the probability of oil's presence at a location at least once out of 120 spill simulations with spill release dates starting twice monthly over a five years period.

This is an unrealistic condition based on no intervention measures being undertaken.

By adopting standard intervention measures after the spill event, the probability is expected to be significantly reduced.



RISK PREVENTION & RESPONSE MEASURES

INTRODUCTION

To prevent an unwanted oil spill, Eni has defined number of mandatory responses, control and management measures, that will be implemented prior to and during drilling operations. Including:

- Advanced planning of the drilling activity
- Optimization of the well design, geological and drilling programs
- Use of safety devices and reliable drilling tools, (e.g. logs to monitor hydrocarbon presence and drilling parameters)
- · Selection of skilled and trained personnel
- Rig crew and relevant personnel will be certified to early detect possible anomalies during the drilling and promptly manage an
 unwanted hydrocarbon spill event in order to limit its severity and duration, and reduce/mitigate the spill consequences.

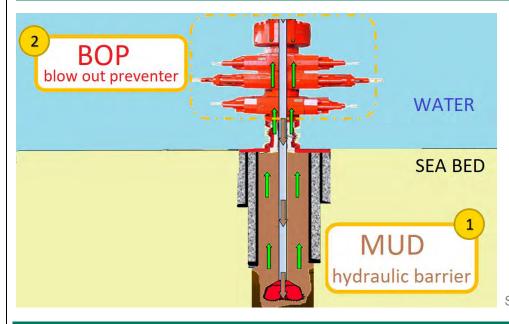
SHUT IN OF WELL IN CASE OF EMERGENCY

In case of an emergency when all prevention and well control actions are not sufficient, different mechanical tools can be used to shut in the well, such as:

- Flow-back prevention valve inside the drilling string
- Subsea BOP (Blowout Preventer).

The BOP rapidly seals the well (or "shut in") and its use is mandatory to **avoid** an unwanted release of hydrocarbon to surface, also called "blowout". The BOP will be regularly pressure and function tested as per ISO/API standards.

Recent development of new technologies allows the availability of a back-up tool: the **capping stack system**.



Source: website WWC, 2018 modified



THE CAPPING STACK WILL BE MOBILISED FROM THE SHORE BASE IN THE VERY UNLIKELY EVENT OF BOP Source: ENI, 2018 FAILURE TO CLOSE, I.E A BLOWOUT EMERGENCY EVENT

AVOIDANCE AND PREVENTATIVE MEASURES

- Eni and its contractors have competent, certified and qualified staff.
- Adoption of highest industry standard, for well design, material and equipment selection, drilling procedures and operations to guarantee integrity and provide multiple barriers (adoption of dual barrier principle). For instance:
 - Casings and equipment selection designed to withstand a variety of forces, such as collapse, burst or tensile failure & chemical aggression
 - Weighted mud properties selection and control: to guarantee wellbore stability and bottom hole pressure balanced, controlling its properties and using downhole/surface sensors for monitoring
 - **Blowout prevention**: presence of certified safety critical equipment, e.g. BOP Preventer Stack, to control pressure anomalies.
- Drilling program revised by Eni HQ drilling technical authority.
- Preparation and approval of an Emergency Response and Oil Spill Contingency Plans

REDUCTION AND RESPONSE MEASURES

- In case of an unwanted emergency, Eni will implement the contingency plans to react immediately and reduce effects. The presence and application of the Oil Spill Contingency Plan is mandatory. It is based on 3 principle components:
 - Crisis management and control;
 - Spill response, containment and clean-up; and
 - Well control.
- BOP immediate closure and sealing of well; in case of BOP failure, mobilisation and installation of capping system.
- Deployment and use of offshore containment equipment including booms, skimmers, tanks, dispersants.
 - Eni will provide primary response equipment on board of vessels; additional will be mobilised from onshore.
- Onshore mobilisation and installation of containment, absorbent and clean-up equipment in case of spill approaching the shore.



Environmental Management Programme

INTRODUCTION

Purpose of the EMPr: The EMPr details the mitigation measures, which must be implemented during the project and assigns responsibilities for specific tasks.

It is applicable to all work activities during the planning, mobilisation, drilling and demobilisation of the proposed activities.

SPECIFIC MANAGEMENT PLANS TO BE DEVELOPED BY ENI

Emergency Response Plan

• Prepare and respond to process unwanted, accidental, and emergency situations in a manner appropriate to the operational risks, and to prevent/limit their potential negative consequences.

Oil Spill Contingency Plan

- Drafted prior to the commencement of drilling activities
- The plan includes all resources and actions required to manage different levels of severity (Tiers) of oil spill
- To be reviewed by PASA and the DEA, where the pollution certificate is issued by SAMSA prior to start of drilling.

Waste Management Plan

- Establishes the procedures adopted for the management of waste for both offshore and onshore operations (drilling, vessels, onshore support facilities)
- It will cover the waste collection, transport, storage, treatment, recycle/reuse, discharge, disposal, and data reporting
- It will comply with applicable National Law and International Conventions for the Prevention of Pollution from Ships (MARPOL 73/78).

Communication Plan

- · Tailored to allow the effective communication
- Includes a grievance mechanism to receive and facilitate grievances and communication.

ROLES AND RESPONSIBILITIES

Eni's primary responsibility to meet environmental and safety commitments with application and respect of international best practise and standards, top industry technology and with the presence of dedicated competent, skilled and trained personnel that will manage and oversee all the Environmental, Health and Safety (EHS) aspects throughout the project life cycle.



Source: Eni, 2018

Acronyms

- **DEA**: Department of Environmental Affairs
- PASA: Petroleum Agency of South Africa
- EHS: Environmental, Health and Safety
- **SAMSA**: South African Maritime Safety Authority
- MARPOL: International Convention for the Prevention of Pollution from Ships

KEY MITIGATION MEASURES TO BE IMPLEMENTED

Pelagic longline fishery

- Presence of 500 m Exclusion Zone around vessels
- Affected stakeholders to be notified of the location, duration and likely implication of drilling activities

Air & GHG emissions on climate change

- Compliance to MARPOL 73/78 Annex VI regulations regarding the reduction of greenhouse gas (GHG) emissions from vessel engines.
- All diesel motors and generators will undergo routine inspections and receive adequate maintenance to minimise soot and unburnt diesel released to the atmosphere

Wastewater discharges on marine fauna

 Compliance with MARPOL 73/78 Annex I, Annex IV, Annex V standards for all project vessels

Seabed and benthic fauna sensitivities

 Ensure drill site is located more than 500m from any identified vulnerable habitats

Discharge of drilling cuttings and mud

- Use high efficiency solids control equipment to minimize liquid content on cuttings, maximize reuse and recycle of drilling mud and minimise the final residual spent mud
- Perform regular test prior of discharge to guarantee respect of limits and in compliance with good international practice.

Noise

- · Regularly maintain vessels to reduce noise
- Avoid extensive low-altitude coastal flights from helicopters (<914 m and within 2km of the shore)

Lights from project vessels

 Lighting on drilling vessels to be oriented and reduced but to be always compatible with safe operations

Damage to marine cultural heritage

 Review data demonstrated no evidence of shipwrecks. Perform a ROV survey prior to operations.

Local employment creation

 Eni will establish a recruitment policy which prioritises the employment of South African and local residents, where possible.



A responsible and sustainable approach

Eni's business model is focused on creating long-term value for both company and stakeholders

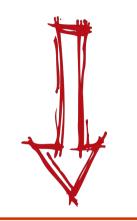
Eni's distinctive mark has always been its willingness to meet the development needs of the Countries of presence through concrete actions realized in collaboration with local Authorities and stakeholders in order to create long-term value. In particular, with its business, Eni aims to extend access to energy in an efficient and sustainable way also to reduce socio-economic gaps. Fighting energy poverty is the first step towards meeting the primary needs associated with education, health and economic development, areas in which Eni realizes specific initiatives. These initiatives are planned in accordance with the Country Development Plans, the UN 2030 Agenda and the National Determined Contributions (NDC - COP21), with the public/private partnerships perspective.





COOPERATION MODEL

- Access to energy
- Economic diversification
- Local development (education, access to water and sanitation, health)
- Local content





Employment and diversity

MODEL

- People's safety and asset integrity
- Occupational health and local communities health
- Reduction of environmental impacts (protecting water resources, biodiversity, oil spills)
- Circular economy and waste
- Human rights
- Integrity in business management (transparency anti-corruption)





PATH TO DECARBONIZATION

- Combatting climate change: reduction of GHG emissions, energy efficiency, promotion of natural gas and renewables, biofuels and green chemistry
- Technological innovation

Access to energy: the issue of access to energy has always been one of Eni's priority commitments and this is clearly reflected in Eni's mission. Energy is a central element for almost the major challenges and opportunities that the world is facing today. Whether it is work, safety, climate change, food production or increasing income, access to energy is essential.

The strategy to reduce social and economic gaps by developing energy sources is an integral part of the business model. In this regard, Eni invests in building infrastructures for the production and transport of gas for both export and local consumption for electricity generation. This aims at developing local markets, aware that growing together reinforces the company's credibility and opens new business opportunities as well as consolidates the link with Countries. This has allowed Eni to reach new local markets and guarantee Countries energy independence, which is necessary for economic growth



1.1 BILLION PEOPLE DO NOT HAVE ACCESS TO ELECTRICITY

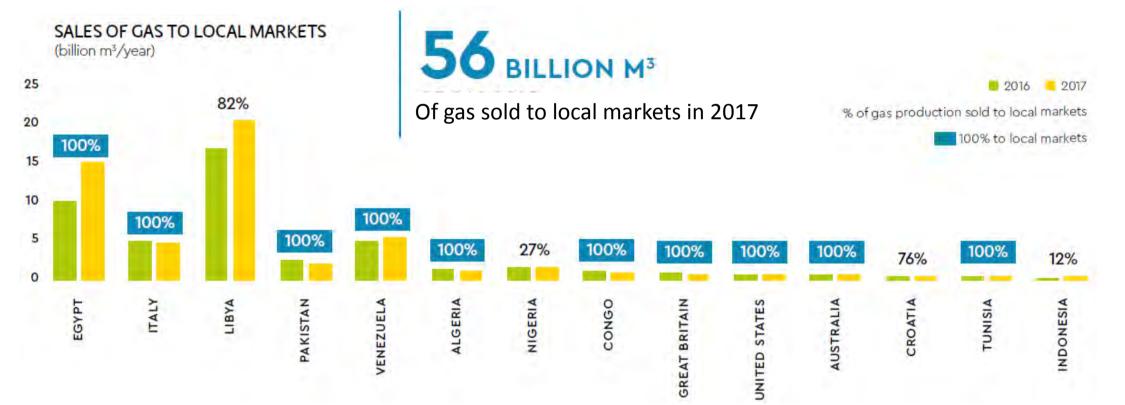
. 600 million people in Sub-Saharan Africa do not have access to electricity. · Average per capita consumption of 200 kWh in Sub-Saharan

Africa, 5,900 kWh in Europe, 13,000 kWh in the USA.



2.8 BILLION PEOPLE DO NOT HAVE ACCESS TO CLEAN COOKING

· 850 million people in Sub-Saharan Africa. • 1.8 billion people in Asia do not have the resources to keep their homes sufficiently warm or cook in a not harmful way for the health and the environment.



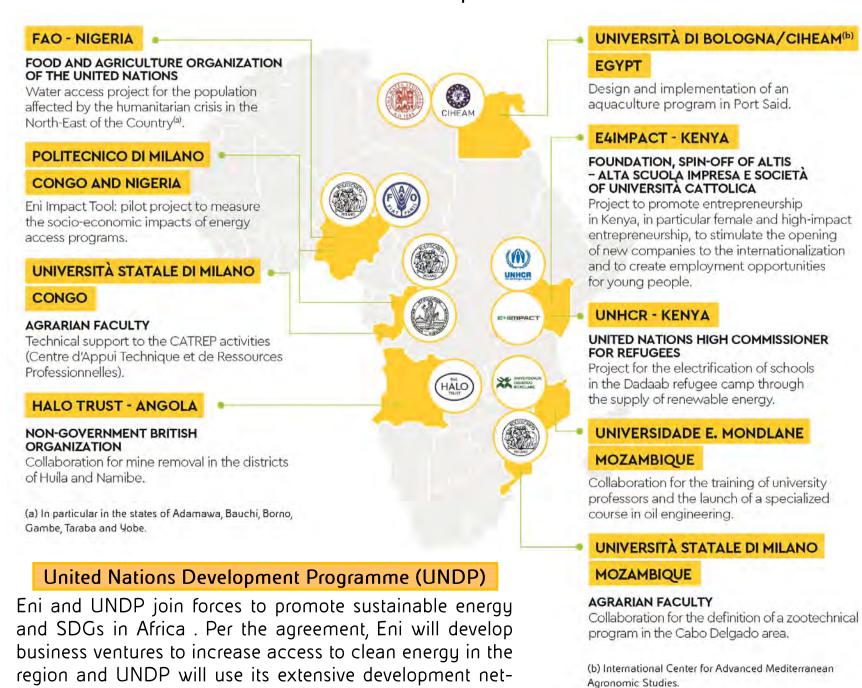


Focus on Zohr: Zohr is the largest gas discovery ever made in Egypt and in the Mediterranean Sea and will be able to satisfy a part of Egypt's natural gas demand for decades to come. Eni has produced its first gas from the supergiant Zohr field in a record time for this type of field, less than two and a half years from the discovery.

Local development projects: the cooperation model is based on the "dual flag" approach, which means that Eni cooperates with host Countries, interacting on an continuous basis with local institutions and stakeholders in order to identify the necessary interventions to respond to the needs of local communities.

Public-Private Partnership (PPP)

Definition of PPP with different kinds of organizations to pool together resources, not just economic resources but also in terms of ability, know-how and experiences. In particular, strategic partnerships have been formed with national and international organizations and institutions and other local cooperation agencies/bodies, such as the collaboration with the International Finance Corporation (IFC), which allowed Eni to adopt procedures in line with the international best practices.



work in over 170 countries to foster an enabling environment to implement the partnership and assess its sustaina-

ble impact in local communities

Community Investment

Definition of interventions to support local development which are not only located in the areas of Eni's operations, but are designed with a broader scope and aligned to national development plans. Better living conditions in the Countries where Eni operates can also contribute to the creation of a dignified life and reduce migrant flows.

Pakistan

Access to water in Bhit and Badhra Objectives: ensuring access to clean water for local communities. Results: to date 19.000 people have access to 20-25 liters of water per person per day, less than 10m from their homes





Italy

Objective schools in Gela Objective: implementing an integrated plan of comprehensive education initiatives.

Results: over 270 students involved in the School-work alternation projects, 22 students hired under 1st level apprenticeship contracts, pilot projects have been launched to counteract dropping out of school and to assign scholarships to deserving students and initiatives in primary schools concerning biodiversity





Eni's Climate Strategy

Energy companies need to look to the future, not just thinking about themselves, but saying:

'We are company, we have resources, we have technology, we have brains and we have responsibilities'

CEO Claudio Descalzi, 'Each of Us'

Making a positive difference to society



The consequences of climate change affect everyone's daily lives. They have an impact on our choices: what we eat, how we move around and how we heat our homes.

As an energy company we are aware that we have an important role to play in fighting climate change.

Eni acknowledges the scientific evidence on climate change produced by the Intergovernmental Panel on Climate Change (IPCC), and was one of the signatories of the Paris Pledge, which supports the goals in the Paris Agreement.

On 24 September 2018, in New York, along with the 12 other companies that are part of the Oil and Gas Climate Initiative (OGCI), we set the first target for reducing the intensity of methane emissions in Upstream operations, signed a Memorandum of Understanding with the United Nations Development Programme (UNDP) and we have been recognized as

Global Compact LEAD by United Nations' corporate sustainability initiative.

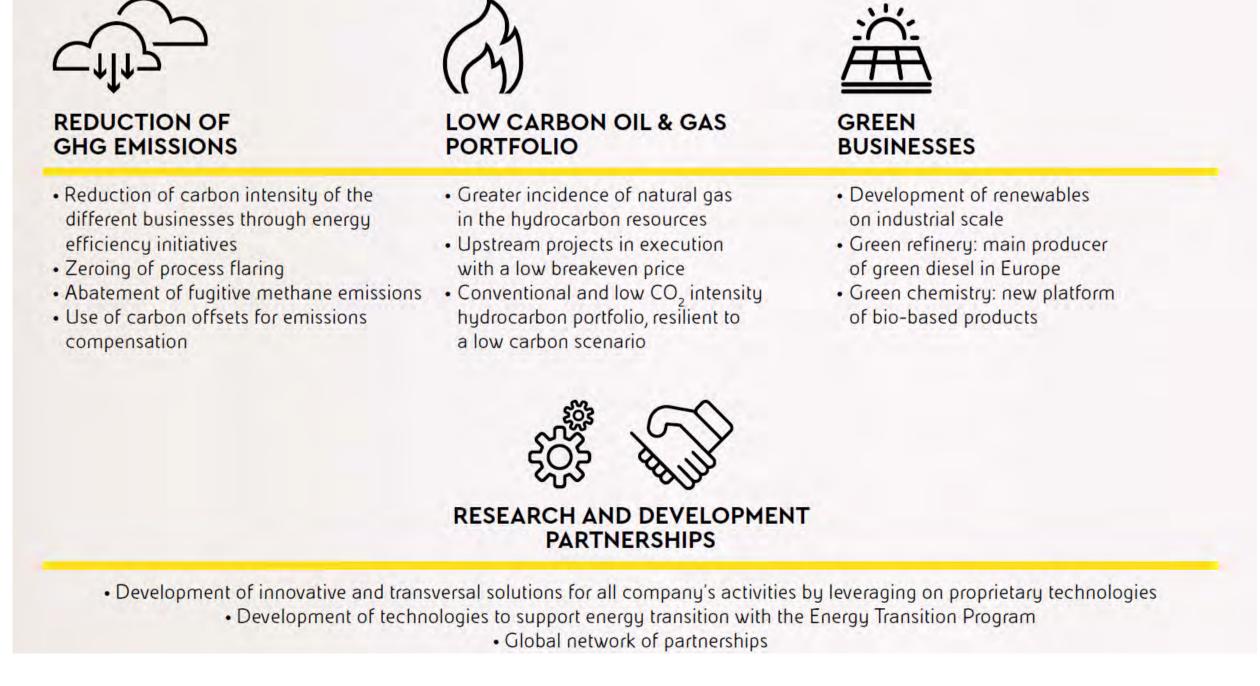






Working together for a low-carbon future

Our strategy is based on the following pillars: Reduction in direct GHG emissions, Low carbon Oil & Gas portfolio, Green business development and Commitment to scientific and technological research a fundamental and transversal element in all Eni activities to achieve maximum efficiency and to favour the energy transition.





Annex B6.5

Attendance Registers

Eni Offshore Drilling on Block ER 236 off the East Coast of South Africa EIA Phase – Open House Meeting Boardwalk Hotel, Port Elizabeth 3 October 2018

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Eni Offshore Drilling on Block ER 236 off the East Coast of South Africa EIA Phase – Open House Meeting Gooderson Tropicana Hotel, Durban 9 October 2018

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Annex B6.6

Open House Meeting Observations



Suite S005 17 The Boulevard Westway Office Park Westville, 3635 Durban, South Africa Telephone: +27 31 265 0033 Fax: +27 31 265 0150

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Observations of Eni Public Participation Open-House in Port Elizabeth (PE) and East London (EL)

9

Date: 03 October 2018 (PE) & 4 October 2018 (EL)

Time: 15h00 – 18h00

Location: The Boardwalk Hotel, Summerstrand PE & The Beach Hotel, Beacon Bay EL

Subject: Open-House - Exploration Drilling within Block ER236, off the East Coast of

South Africa

Eni Team: Nicola Salmaso (NS) – Managing Director, Eni South Africa

Nicole Lomberg (NL) - HSE & Sustainability Coordinator, Eni South Africa

Marco Pelucchi (MP) – Environmental Engineer, Eni SpA Luca Cassina (LC) – Emergency Liaison Specialist, Eni SpA Fabrizio Pecoraro (FP) – Sustainability Manager, Eni SpA

ERM Team: Vicky Stevens (VS) – Project Manager

Khosi Dlamini (KD) – project Assistatant

Ingeborg McNicoll (IM) (PE only) – Partner in Charge

Amy Barclay (AB) - Project Assistant

Facilitator: David Shandler (DS) - Facilitator

- The venue was prepared upon arrival and staff were on-site to provide assistance.
- One (1) isiXhosa translator was present for the duration of the meeting.
- The PE venue had an open lobby area outside the room where refreshments were placed. For EL, the refreshments area was situated on the hotel's patio/ adjacent room.
- Registration desks were positioned at the entrance of the rooms. Two participants registered in PE and 4 registered in EL.
- 10 Chairs were made available for participants to allow for easy flow and movement across the room following an open house meeting format. The EL venue had a patio adjacent to the room which offered more seating should it be required.
- The poster stands arrived at 13h30 in PE. The stands were assembled and positioned in the conference room. The posters were stuck onto poster stands attached to the walls in EL.
- ERM representatives were stationed at the posters to provide additional information and explanations to participants.

Page 1 of 3

- A safety briefing audio was provided by the hotel in PE, whereas a representative of the staff briefed VS on the health and safety procedures in EL. VS then proceeded to brief the rest of the team accordingly.
- DS provided an overview of the day's proceedings.
- IM and VS provided an overview of the duties of the team members.
- The open-house event commenced at 15h00.
- Participants arrived at approximately 16:00.
- Participants were provided with English and isiXhosa non-technical summaries upon registration.
- Participants were guided through the open-house process.
- Concerns and questions were relayed to representatives stationed at the posters.
- General comments were noted on post-its where the stakeholders did not want to formally register their comments.
- The open-house meeting concluded at 18h00.

A summary of the general comments made by participants are presented below:

- Clarification on the location, timing, and numbers of wells to be drilled and whether Eni
 would be authorized to drill anywhere inside Block ER 236.
- How do the noise impacts of drilling affect marine mammals and fish.
- Impacts of light on marine ecology.
- Participants were concerned as to how people will know not to fish within the 500 m exclusion zone.
- Concerns about tourism in Durban and whether the project will affect it (participants understood that tourism in the Eastern Cape would not be affected by the Project).
- Concerns that if oil/ gas is found Eni will be allowed to extract and produce the wells immediately.
- Clarification if the oil and gas, upon production would be for the South African market
- Participants were curious as to where the drilling vessels would be sourced from.
- Questions related to how they will transport and store oil and gas in the production phase
- · Concerns of the impact of an oil spill on the marine environment
- Questions related to whether monitoring would be applied at the well locations once they have been plugged and abandoned.

- Participants were concerned as to whether marine seasons would be considered during the drilling phase
- Concerns related to the time it will take to set up the operation after authorisation is granted.
- There were a few questions related to where Eni operates in other countries and whether they have lodged any other applications in South Africa besides this one
- Concerns about SA's capability to respond to a spill.
- Clarification on how many jobs will be created by the project.
- Participants suggested that the posters are shared with the public.



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Observations of Eni Public Participation Open-House in Richards Bay

Date: 08 October 2018

Time: 15h00 – 18h00

Location: Premier Hotel, 3 Hibberd Dr, Meer En See, Richards Bay

Subject: Open-House - Exploration Drilling within Block ER236, off the East Coast of

South Africa

Eni Team: Nicola Salmaso (NS) – Managing Director, Eni South Africa

Nicole Lomberg (NL) - HSE & Sustainability Coordinator, Eni South Africa

Marco Pelucchi (MP) – Environmental Engineer, Eni SpA Luca Cassina (LC) – Emergency Liaison Specialist, Eni SpA Fabrizio Pecoraro (FP) – Sustainability Manager, Eni SpA

Mluleki Caluza (MC) - Senior Contracts Engineer, Eni South Africa

Marilia Cioni (MC) - Regional External Communication Advisor, Eni Sub Saharan

Sasol Team: Matebello Motloung (MM) – Specialist, Media Relations

Andrew Acker (AA) - Senior SHE Manager: E&P Technical Solutions

ERM Team: Vicky Stevens (VS) – Project Manager

Khosi Dlamini (KD) – Project Assistant Ingeborg McNicoll (IM) – Partner in Charge Reinett Mogotshi (RM) – Project Assistant Amishka Mothilal (AM) – Project Assistant

Facilitator: David Shandler (DS) -

- The venue was prepared in advance and staff were on-site to provide assistance.
- Three (3) isiZulu translators were present for the duration of the meeting.
- The refreshments area was situated in the foyer of the venue.
- The registration desk was positioned at the entrance of the conference room.
 Approximately 76 participants attended the event and registered.
- 10 Chairs were available in the conference room to allow for the easy movement of participants following an open house meeting format.

Page 1 of 4

- The poster stands arrived at 14h00. The stands were assembled and positioned in a crescent to allow for easy movement.
- ERM representatives were stationed at the posters to provide additional information and explanations to participants.
- A health and safety briefing was conducted by a representative of the hotel.
- DS provided an overview of the day's proceedings.
- Ingeborg introduced the ERM team and provided an overview of the duties of the team members.
- Participants arrived at the venue an hour early at approximately 14h00. They were requested by ERM to wait outside in the foyer and were provided with refreshments while they waited.
- The open-house event commenced at 15h00.
- Participants were provided with English and isiZulu non-technical summaries upon registration.
- The open-house format was explained to participants upon registration.
- A leader from the South Durban Community Environmental Alliance (SDCEA), interrupted the open-house proceedings and requested for a formal presentation to be made. SDCEA members tried to remove the posters and get Eni, Sasol and ERM to stand on the stage.
- DS informed participants that the event was an open-house event thus there will be no formal presentation. Participants were encouraged to move through the posters and ask team members any questions or clarifications
- 10 chairs provided for the elderly were not sufficient. Participants requested additional chairs to allow the elderly and other members to be seated during the question and answer session. DS explained that limited chairs were provided to allow people to walk around the room and look at posters. More chairs were made available.
- Participants thereafter demanded a question and answer session with Eni and Sasol
 and the majority of the participants moved to the centre of the room where they aired
 their grievances and sang struggle songs. DS facilitated the question and answer
 session in the middle of the room between participants, Eni and Sasol with the aid of the
 isiZulu translators.
- ERM staff continued with the open house for other participants who were interested in the project.
- Desmond D'Sa and other members from the South Durban Community Environmental Alliance (SDCEA) requested the complete EIA report to be translated into isiZulu. Sasol and Eni agreed to provide a translated document.
- Participants stated that an extended period of time is required to read the translated EIA report.

- Participants requested a hard-copy of the EIA report be provided to them.
- A hard-copy of the complete EIA report was provided to Billy Mnqado and signed for it upon receipt.
- The open-house meeting concluded at 18h00.

A summary of the general comments received are presented below:

- Participants do not want any oil and gas exploration to occur in KwaZulu-Natal (KZN).
- Participants are under the impression that the drilling will destroy the marine environment in KZN.
- Clarification requested on the location, timing, and numbers of wells to be drilled and whether Eni would be authorized to drill anywhere inside Block ER 236.
- Clarification requested on some of the terminology and the unit of measures used on posters.
- Request for confirmation of location and concern about anchoring interfering with Telekom's internet cables in the area.
- How do the noise impacts of drilling affect marine mammals and fish.
- Impacts of light on marine ecology.
- Concerns regarding the changing currents and the implications of climate change on these currents which can potentially increase the risk of a spill.
- Concerns that if oil/ gas is found Eni will be allowed to extract and produce the wells immediately.
- Concerns related to whether the oil/gas will be used for the South African market.
- Questions regarding where the drilling vessels will be sourced from.
- Questions related to how they will transport and store oil and gas in the production phase.
- Concerns of the impact of an oil spill on the marine environment.
- Questions related to how the transportation and storage of oil and gas during the production phase.
- Concerns of the impact of an oil spill on the marine environment.
- Concerns regarding South Africa's capability to respond to a spill.
- A request that meetings be scheduled to occur on weekends to allow working members of the public to participate.
- Clarification requested on how many jobs will be created by the project.

ERM	
	Page 4 of

 Locality of the onshore base and will it lead to increased opportunities for hotels, procurement and services.



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Observations of Eni Public Participation Open-House in Durban

Date: 09 October 2018

Time: 15h00 – 18h00

Location: Gooderson Tropicana Hotel, 85 OR Tambo Parade, South Beach, Durban

Subject: Open-House - Exploration Drilling within Block ER236, off the East Coast of

South Africa

Eni Team: Nicola Salmaso (NS) – Managing Director, Eni South Africa

Nicole Lomberg (NL) - HSE & Sustainability Coordinator, Eni South Africa

Marco Pelucchi (MP) – Environmental Engineer, Eni SpA Luca Cassina (LC) – Emergency Liaison Specialist, Eni SpA Fabrizio Pecoraro (FP) – Sustainability Manager, Eni SpA

Mluleki Caluza (MC) – Senior Contracts Engineer, Eni South Africa

Marilia Cioni (MC) - Regional External Communication Advisor, Eni Sub Saharan Africa

Sasol Team: Matebello Motloung (MM) – Specialist, Media Relations

Andrew Acker (AA) - Senior SHE Manager: E&P Technical Solutions

ERM Team: Vicky Stevens (VS) – Project Manager

Khosi Dlamini (KD) – Project Assistant
Ingeborg McNicoll (IM) – Partner in Charge
Reinett Mogotshi (RM) – Project Assistant
Amishka Mothilal (AM) – Project Assistant
Stephanie Gopaul (SG) - Technical Consultant
Lindsey Bungartz (LB) – Social Specialist

Facilitator: David Shandler (DS) - Facilitator

- The venue was prepared in advance and staff were on-site to provide assistance.
- Three (3) isiZulu translators were present for the duration of the meeting.
- The refreshments area was situated in the hotel's business lounge.
- The registration desk was positioned in the foyer of the venue.
- 10 Chairs were available in the conference room to allow for the easy movement of participants following an open house meeting format.

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- The poster stands arrived at 13h30. The stands were assembled and positioned on the periphery of the venue to allow for easy movement
- ERM representatives were stationed at the posters to provide additional information and explanations to participants.
- A health and safety brief was conducted by a representative of the hotel.
- DS provided an overview of the day's proceedings.
- IM introduced SG and LB and provided an overview of the duties of the team members.
- A large group of participants gathered outside the hotel in large groups and wore t-shirts that stated they were anti Exxon, Shell, Sasol and Eni and oil in gas in general.
- Participants entered the hotel at approximately 14h45 and were guided into the refreshments area.
- The open-house event commenced at 15h00.
- Participants were provided with English and isiZulu non-technical summaries upon registration. Approximately 154 participants registered and attended the event.
- IM explained the open-house format to participants upon registration.
- For the first 20-30 minutes of the meeting, a number of participants went around the room and asked questions of ERM experts in front of posters. Desmond D'Sa, and other representatives of the South Durban Community Environmental Alliance (SDCEA), interrupted the open-house proceedings and requested a formal meeting to be conducted.
- Desmond D'Sa demanded additional chairs and a bigger meeting venue. The hotel manager informed participants that there were no bigger conference rooms available in the hotel. Desmond D'Sa liaised with participants from an alternate meeting room to obtain chairs.
- Additional refreshments were provided by the project team and given to participants.
- DS, with aid of the isiZulu translators facilitated the question and answer session with the project team.
- Participants were requested to ask their questions or make statements one at a time and then ERM, Eni and Sasol were going to answer these questions and respond to statements. However, due to constant interruptions (dancing, singing of struggle songs, and voicing of the participants objections to oil and gas development in general) ERM, Eni and Sasol were given limited opportunities to answer these questions or respond to statements.
- Participants requested the following:
 - Posters and the Environmental Impact Assessment (EIA) Report to be translated into isiZulu.

- The presence of members of the Department of Environmental Affairs and Petroleum Agency South Africa at public participation meetings.
- Hard-copies of the translated EIA report to be provided to them.
- Timing of the response to the request for translation and availability of the translated EIA report.
- The CEO of Sasol to be present at meeting.
- The presence of peer reviewers and specialists at the meeting.
- Posters to present more information, however, in a less technical language.
- Posters to be placed on the project website.
- The project to go back to scoping, as stakeholders were not satisfied with the baseline studies initially presented.
- Participants requested that each member of the project team introduce themselves, stated their nationality (i.e. South African, Italian, British or other) and stated their rank in the organisation. This took quite some time as participants would talk over and shout inappropriate remarks at members of ERM, Eni and Sasol. Sasol and Eni representative agreed to provide the isiZulu translated EIA Report as soon as practically feasible.
- At approximately 17:15, the participants started singing struggle songs and threatened
 to hurt the project team members. They then proceeded to tear up the non-technical
 summaries, stomp on water bottles and sing struggle songs. After which, they left the
 room reiterating that they wanted no oil and gas development to proceed in KwaZuluNatal (KZN).
- The open-house meeting concluded at 18h00.

A summary of the general comments made by participants is presented below::

- Participants do not want any oil and gas exploration to occur in KZN.
- Participants are under the impression that the drilling will destroy the marine environment in KZN.
- Participants believe that the project will have a detrimental effect on subsistence fishers, as it will destroy fish stocks.
- Concerns regarding oil spills in other countries were voiced.
- Concerns over impacts of oil and gas operations in Nigeria. Participants feared that a similar occurrence to Macondo would happen in South Africa.
- Concerns over the absence of former Eni South Africa Managing Director, Alessandro Gelmetti, and John Harris, Sasol Chief Executive Officer (CEO) at the meeting.

- Participants claimed that ERM did not respond to the 20 questions that were written up during the previous meeting in Durban.
- Participants stated that they think the EIA process is just a tick box exercise and the impacts are pre-determined.
- Participants raised concern that they felt that ERM was not independent.
- Participants question the EIA process and the stringent timeframes. They are concerned that not enough time is provided for understanding the project and raising concerns
- Concerns that if oil/ gas is found Eni will be allowed to extract and produce the wells immediately.
- Questions related to how Eni will transport and store oil and gas in the production phase.
- Concern on direct and indirect Green House Gas Emissions and global warming effect
- Concerns over why NGOs were not in attendance at the open house meetings.
- A request that the Remotely Operated Vehicle data is reviewed independently.
- Concerns over the use of coral-draw for maps by specialist.
- Concerns about SA's capability to respond to a spill.
- Concern that the presence of deep water corals on the seabed is unknown at this stage.
- Clarification on how many jobs will be created by the project.
- Locality of the onshore base if it will it lead to increased opportunities for hotels, procurement and services
- Participants stated that the spill modelling data is cherry-picked and the modelling is fundamentally flawed.
- Concern that inconsistent and incorrect metocean data for oil spill simulation was used, which does not represent a typical picture of the Agulhas current stream and the effect of oil spills on the shoreline.



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Observations of Eni Public Participation Open-House in Port Shepstone

Date: 10 October 2018

Time: 15h00 – 18h00

Location: Venture Inn, 366 Commercial Rd, Umtentweni, Port Shepstone

Subject: Open-House - Exploration Drilling within Block ER236, off the East Coast of

South Africa

Eni Team: Nicola Salmaso (NS) – Managing Director, Eni South Africa

Nicole Lomberg (NL) - HSE & Sustainability Coordinator, Eni South Africa

Marco Pelucchi (MP) – Environmental Engineer, Eni SpA Luca Cassina (LC) – Emergency Liaison Specialist, Eni SpA Fabrizio Pecoraro (FP) – Sustainability Manager, Eni SpA

Mluleki Caluza (MC) - Senior Contracts Engineer, Eni South Africa

Marilia Cioni (MC) - Regional External Communication Advisor, Eni Sub Saharan

Sasol Team: Andrew Acker (AA) - Senior SHE Manager: E&P Technical Solutions

ERM Team: Vicky Stevens (VS) - Project Manager

Khosi Dlamini (KD) – Project Assistant Ingeborg McNicoll (IM) – Partner in Charge Reinett Mogotshi (RM) – Project Assistant Amishka Mothilal (AM) – Project Assistant

Stephanie Gopaul (SG) – Technical Consultant

Lindsey Bungartz (LB) - Social Specialist

Facilitator: David Shandler (DS).

- The venue was prepared upon arrival and staff were on-site to provide assistance.
- Three (3) isiZulu translators were present for the entire duration of the meeting.
- The refreshments area was situated on the hotel's patio.

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- Registration desks were positioned at the entrance of the patio and at the hotel reception area. Approximately 57 participants registered and attended the event. Two participants removed their names from the attendance register after the open house had been interrupted by a leader of the South Durban Community Environmental Alliance (SDCEA). SDCEA representatives wanted the ERM and Eni representatives who were stationed at the posters to move and group in the middle of the venue to address the concerns of interested and affected parties. the meeting was not disrupted as some stakeholders continued to move through the posters and were provided the opportunity to engage with ERM and Eni on the project.
- Chairs were available for participants in the refreshments area and the open house meeting venue.
- The poster stands arrived at 13h30. The stands were assembled and positioned in the conference room.
- ERM representatives were stationed at the posters to provide additional information and explanations to participants.
- A health and safety brief was conducted by IM.
- DS provided an overview of the day's proceedings.
- IM provided an overview of the duties of the team members.
- Participants arrived at approximately 14h45 and were guided into the refreshments area.
- The open-house event commenced at 15h00.
- Approximately 47 participants registered and received a copy of the English/isiZulu nontechnical summary.
- Participants were informed of the structure of the open-house and guided through the order of the posters.
- Participants moved through the posters and were provided the opportunity to engage with ERM and Eni at each poster.
- ERM and Eni personnel were stationed at the posters to provide information and insight on the project to attendees.
- Concerns and questions were relayed to representatives stationed at the posters.
- Comment sheets were provided to attendees to relay
- The open house proceedings had limited interruptions and participants had sufficient time to liaise with the relevant personnel stationed at the posters.
- The open-house meeting concluded at 18h00.

A summary of the general comments or clarifications received are presented below:

- Participants do not want any oil and gas exploration to happen in KZN.
- Participants believe drilling will destroy the marine environment in KZN.
- Desmond D'Sa and other members from the South Durban Community Environmental Alliance (SDCEA) requested the complete EIA report to be translated into isiZulu.
 However, other participants felt that it was not necessary as they are English speakers.
- Participants highlighted that the library copy of the report had been misplaced during the library renovations and requested that hard copies of the report be sent to them directly.
- Participants were concerned that the project would authorize fracking in the area.
- Participants were concerned about the impact of the project on tourism in particular scuba diving
- Participants were concerned about impact of the project on fish and catch rates.
- Participants were concerned about the independence of ERM.
- Clarification requested on the location, timing, and numbers of wells to be drilled and whether Eni would be authorized to drill anywhere inside Block ER 236.
- Clarification requested of the well drilling sequence..
- Clarification requested of the logistics base characteristics..
- Clarification requested of drilling rig and supply vessels characteristics.
- Participants requested clarification on the impacts of drilling cuttings on the seabed.
- Participants were concerned about the project affecting fish catch rates and ultimately their livelihoods.
- How do the noise impacts of drilling effect marine mammals and fish.
- Impacts of light on marine ecology.
- Concerns that if oil/ gas is found Eni will be allowed to produce the wells immediately.
- Participants requested clarification on the associated time frames from the exploration phase to the production phase.
- Concerns regarding the production phase. Participants were concerned about the job opportunities the production phase would have for the locals.
- Questions related to how they will transport and store oil and gas in the production phase.
- Concerns of the impact of an oil spill on the marine environment.
- Concerns about South Africa's capability to respond to a spill.
- A request that meetings should not be on week days but on weekends to allow people to participate.

- How many jobs will be created from the project.
- A request to research the impact of Mossel Bay, Mossgas Gas Field Project.
- Tsunamis and earthquake impacts on the environment due to the project.
- Concerns regarding the EIA process and that there is not enough time provided to go through material.
- Comments that the open house meetings were not sufficiently advertised were relayed.
 Participants claimed not to have received notification of the meeting and the EIA Report being available.
- Participants were interested in knowing about the appeal process to contest this project.
- Participants raised concerns that the King of Zululand was not informed of the project.
- Some participants expressed fear for their personal safety having voiced criticism to the project, and referred to killings related to opposition to mining projects in the area.