



TotalEnergies EP South Africa B.V.

**ENVIRONMENTAL AND SOCIAL IMPACT
ASSESSMENT (ESIA) FOR THE OFFSHORE
PRODUCTION RIGHT AND ENVIRONMENTAL
AUTHORISATION APPLICATIONS FOR BLOCK
11B/12B - REF NO: 12/4/13 PR**

Draft Environmental and Social Impact
Assessment Report



CHAPTER 14



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Draft Environmental and Social Impact Assessment Report

PUBLIC

PROJECT NO. 41105306

OUR REF. NO. REPORT NO: 41105306-358669-10

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WSP





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The referenced used to inform the compilation of this ESIA report is as follows:

- ACO Associates cc. (2023). *Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B - Maritime Heritage Impact Assessment Report*.
- Anchor Environmental Consultants. (2023). *Marine Ecology and Fisheries Impact Assessment Study for the Proposed Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B*.
- Bamford, M. (2023). *Palaeontological Impact Assessment for the proposed Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B, Mossel Bay to Gqeberha, adjacent to Western and Eastern Cape Provinces*.
- Boswell, M. J. (2023). *Cultural Heritage Impact Assessment for Block 11B/12B*.
- Benthic Solutions Limited. (2023). *Environmental Baseline Survey: Block 11B/12B: Environmental Baseline and Habitat Assessment Survey Report*. Norfolk, United Kingdom.
- Department of Energy. (2016). *Government Gazette 40445: Integrated Energy Plan*.
- Department of Energy. (2019). *Government Gazette 42778: Integrated Resource Plan 2019*.
- Department of Environmental Affairs. (2000, March 17). Integrated Pollution and Waste Management Policy for South Africa. *Government Gazette No. 20978, Notice No. 227*. Pretoria, Gauteng, South Africa: South Africa: Government Printing Works.
- Department of Environmental Affairs. (2017). *Public Participation guideline in terms of NEMA*.
- Department of Environmental Affairs. (2017). *Guideline on Need and Desirability*, Department of Environmental Affairs (DEA), Pretoria, South Africa
- Department of Environmental Affairs and Development Planning. (2021). *Western Cape Climate Change Response Strategy – Vision 2050: A Vision for a Resilient Western Cape*.
- Department of Environmental Affairs and Tourism. (2002). *Screening, Information Series 1 - Department of Environmental Affairs and Tourism*. Pretoria.
- Department of Forestry, Fisheries and the Environment. (2002). *Fisheries Management*. <https://www.dffe.gov.za/branches/fisheriesmanagement>. [Accessed: 2023/02/24].
- Department of Forestry, Fisheries and the Environment. (2020). *2019/20 - 2023/24 Strategic Plan and 2020/21 Annual Performance Plan*.
- Department of Mineral Resources and Energy. (2020). *Strategic Plan 2020-2025*.
- Department of Mineral Resources and Energy. (2021). *Gas Master Plan 2022 – Base Case Report: Stakeholder Consultation*.
- Department of Mineral Resources and Energy. (2022). *Draft South African Renewable Energy Masterplan*.
- Department of Planning, Monitoring and Evaluation. (2014). *South Africa's Ocean Economy*.
- DHI Water & Environment, Inc. (2023). *Oil Spill Modelling at Cape South Coast Licence Block in South Africa*. Ontario.



- Garden Route District Municipality. (2022). *2022-2027 Integrated Development Plan*.
- Government of South Africa. (2020). *The South African Economic Reconstruction and Recovery Plan*.
- Government of South Africa. (2021). *South Africa – First Nationally Determined Contribution under the Paris Agreement. – 2020/21 Update*.
- H-Expertise Services S.A.S. (2021). *TEP South Africa. Block 11B12B – Discharge Point 1: Oil Spill Drift Modelling Technical Report*.
- H-Expertise Services S.A.S. (2021a). *TEP South Africa. Block 11B12B – Discharge Point 1: Oil Spill Drift Modelling Technical Report*.
- H-Expertise Services S.A.S. (2021b). *TEP South Africa. Block 11B12B – Discharge Point 2: Oil Spill Drift Modelling Technical Report*.
- International Association of Oil & Gas Producers. (2019). *Risk Assessment Data Directory – Blowout Frequencies*. IOGP Report 434-02.
- International Institute for Sustainable Development. (2022). *Gas Pressure: Exploring the Case for Gas-Fired Power in South Africa*.
- International Energy Agency. (2019). *The Role of Gas in Today's Energy Transitions*.
- International Energy Agency. (2021). *Net Zero by 2025 – A Roadmap for the Global Energy Sector*.
- International Finance Corporation. (2007). *Stakeholder Engagement: A Good Practice Handbook for Companies Doing Business in Emerging Markets*.
- National Business Initiative. (2021). *Just Transition and Climate Pathways Study for South Africa*.
- National Planning Commission. (2013). *National Development Plan 2030: Our Future – Make it Work*.
- Petroleum Agency of South Africa. (2016). *Guidelines: Consultation with Interested and Affected Parties*.
- Petroleum and Gas Corporation of South Africa. (2013). *Environmental Management Programme Report for FA-Platform and Associated Production Areas*.
- SigmaQuadrant. (2023). *Glossary of Drilling Operations*. <https://www.sigmaquadrant.com/glossary-of-drilling-operations/>. [Accessed: 2023/05/06].
- Sintef Ocean AS. (2023). *Simulations of Spreading and Deposition from Drilling Discharges from Block 11B/12B Offshore South Africa*.
- SLR Consulting (South Africa) (Pty) Ltd. (2021). *Environmental and Social Impact Assessment for Additional Exploration Drilling and Associated Activities in Block 11B/12B off the South Coast of South Africa*.
- South African Heritage Resources Agency. 2022. *Annual Report 2021/2022*.
- The World Bank. (2019). *Consultation Guidelines*.
- Total. (2010, June). Group Directive - Total Group Health Policy. *DIR-GR-HSE-006*.



- Total. (2014, August 22). Group Directive - Health, Safety, Societal and Environmental Requirements for Industrial Projects. *DIR-GR-HSE-004*.
- TotalEnergies. (2022a). *Health, Safety and Environment Policy*.
- TotalEnergies. (2022b). *Universal Registration Document 2022, including the Annual Financial Report*.
- TotalEnergies EP South Africa B.V. (2022). *TTE plug and abandonment criteria and processes to demonstrate compliance*.
- Total S.A. (2014, December). Safety, Health, Environment and Quality Charter.
- Total S.A. (2015a, May). General Specification: Environment - Environmental Requirements for Projects Design and Exploration and Production Activities. *GS EP ENV 001*.
- Total S.A. (2015b, May). General Specification: Sustainable Development - Social Baseline Study. *GS EP SDV 101*.
- Total S.A. (2015c, May). General Specification: Sustainable Development - Social Impact Assessment. *GS EP SDV 102*.
- Total S.A. (2017, January). General Specification: Environment - Environmental Baseline and Monitoring Studies in Offshore and Coastal Waters. *GS EP ENV 112*.
- Total S.A. (2019, December). General Specification: Environment - Environmental Impact Assessment of Exploration and Production Activities. *GS EP ENV 120*.
- Urban-Econ Development Economists (Pty) Ltd. (2023). *Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B - Economic Impact Report*.
- University of Cape Town. (2021). *South Africa's NDC Targets for 2025 and 2023*.
- WSP Group Africa (Pty) Ltd. (2023a). *Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B - Air Quality Impact Assessment*.
- WSP Group Africa (Pty) Ltd. (2023b). *Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B - Climate Change Impact Assessment Report*.
- WSP Group Africa (Pty) Ltd. (2023c). *Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B - Closure Plan*.
- WSP Group Africa (Pty) Ltd. (2023d). *Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B - Marine Acoustics Technical Report*.
- WSP Group Africa (Pty) Ltd. (2023e). *Offshore Production Right and Environmental Authorisation Applications for Block 11B/12B - Social Impact Assessment*.
- WWF SA. (2023). *MPA Forum South Africa: Marine Protected Areas*.
<https://mpaforum.org.za/marine-protected-areas/>. [Accessed: 2023/06/04].



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