

# Expertise in Climate Change

*EOH COASTAL & ENVIRONMENTAL SERVICES (CES) has been involved in many climate change related projects. Climate change is one of the major challenges facing the globe.*

Recent Intergovernmental Panel on Climate Change (IPCC) reports indicate that climate change impacts will probably be more severe than initially expected, and will persist for millennia into the future, while Africa will be particularly vulnerable to climate change impacts.

The climate change manifestations of increased temperatures, changes in rainfall patterns, increased storm events and sea-level rises will have further secondary and cumulative impacts. Some of these impacts include reduced viability of animal and crop farming due to increased diseases and droughts, vulnerability of coastal infrastructure as a result of sea-level rises, storms and tidal surges, and loss of biodiversity due to change in climatic conditions.

All sectors of civil society (public and private sectors) need to consider both adaptation to and mitigation of climate change in their respective project implementation programmes and future planning strategies. The risks associated with climate change should be incorporated into planning programmes and strategies to avoid or minimise vulnerability or adapt to predicted impacts. With regard to mitigation, opportunities should be explored to reduce reliance on energy or other processes consuming fossil fuels, avoid land-uses that result in the loss of sequestered carbon and identify opportunities to increase carbon sequestration.

EOH CES has been involved in climate change issues for over 15 years, and has been actively promoting awareness of climate change and advising of the associated risks among public and private sector clients.

For more information see [www.cesnet.co.za](http://www.cesnet.co.za)

## Selected Environmental Projects Specific to Climate Change

- 2016 – Involved in the development of a web-based climate change response monitoring and evaluation system for South Africa

- 2011 -2015: Developed climate change strategies for two district municipalities and a metropolitan municipality in the Eastern Cape Province of South Africa
- 2010: Specialist carbon stock and greenhouse gas emissions impact and life cycle assessment as part of the Environmental, Social and Health Impact Assessment (ESIA) for a proposed sugarcane-to-ethanol project in Sierra Leone, and a proposed Jatropha Biodiesel Project in Mozambique
- 2010: Eastern Cape Provincial Government (South Africa). Developed the Eastern Cape Province Climate Change Strategy
- 2009: Conducted a climate change risk assessment for all South African commercial ports for the Transnet National Ports Authority
- 2009: Participated in the development of a renewable energy strategy for the East London Industrial Development Zone (ELIDZ) and the Eastern Cape Government (South Africa)
- 2010 - 2014: Conducted carbon credit (Clean Development Mechanism - CDM) feasibility assessments for a variety of renewable energy projects ranging from biogas to solar PV
- 2010: Prepared a carbon footprint assessment for Kenmare Resources Moma heavy mineral sands mine in Mozambique
- 2010: Grown Energy Zambeze. Prepared a carbon footprint assessment for the proposed Sugarcane-to-Ethanol Biofuel Project in Mozambique

## EOH Coastal & Environmental Services

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