



Bright Green Solutions (Pty) Ltd & CES South Africa (Pty) Ltd

Carbon and Energy Specialist Consultants to companies and plant-owners

At Bright Green Solutions (Pty) Ltd (BGS) and CES South Africa (Pty) Ltd (CES) we recognize the importance of viewing a business' energy consumption profile in context with its carbon footprint. BGS and CES offer integrated carbon and energy solutions, strategically designed to: reduce costs; enhance energy supply security; and address your company's carbon footprint responsibilities.

Our areas of expertise include:

Energy

- Energy assessments including energy consumption data analysis and interpretation
- Strategic energy baseline establishment (SANS 50010)
- Identification of energy savings opportunities including demand-reduction and energy efficiency interventions
- Measurement and verification of energy savings (SANS 50010)
- Preparation and submission of energy efficiency tax allowance claims
- Eligibility and financial viability assessment of available incentives for your project (e.g. 12B, 12L, 12I of the Income Tax Act No. 58 of 1962; Green Fund)
- Development and implementation of energy management systems (ISO/SANS 50001)
- Utility tariff evaluation

Carbon

BGS and CES' services cover the entire spectrum of elements involved with the development of a climate change strategy and custom-made to best suit your company's individual needs, including:

- Assessment of operational risks relating to climate change
- Carbon footprint assessments in accordance with the Greenhouse Gas (GHG) Protocol Corporate Accounting and Reporting Standard and ISO 14064-1:2006
- Custom designed carbon emissions data management systems and reporting templates
- Establishment of carbon emissions reduction targets
- Identification and implementation of carbon emissions reduction opportunities
- Monitoring and measurement of greenhouse gas emissions reductions for verification and certification of carbon credits generated
- Development and registration of carbon-credits- and carbon-offset-projects under globally recognised carbon standards including CDM, VCS and Gold Standard
- Emissions trading advisory services

Compliance and reporting

- Carbon Tax liability assessment and solutions to minimize associated costs
- Mandatory emissions reporting to the NAEIS (National Environmental Management: Air Quality Act, 2004)
- Submission of energy consumption data requirements (National Energy Act, 2008)
- Sustainability reporting following the GRI's G4 Sustainability Reporting Framework
- Carbon Disclosure Project (CDP) response submissions

Business performance can be vastly improved by taking steps to effectively measure, manage, and reduce your company's carbon emissions – while at the same time cutting energy costs, improving operational efficiencies, minimizing environmental risks and improving investor confidence and shareholder value.

We believe in turning challenges imposed by a changing climate into opportunities for your business to gain competitive edge in a carbon-constrained economy.



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Our experience includes:

BGS and CES have a team of friendly experts and professionals that are happy to assist you along your journey to adapt your business-processes to a low carbon and resource efficient economy.

Carbon Credits – auditing experience

Our professionals and associates have audited numerous carbon credit-projects against requirements laid down by internationally recognised carbon offset standards including: CDM, VCS and Gold Standard:

- 25 MW grid connected solar park programme – CDM (PoA) validation
- 50 MW Grid connected concentrated solar thermal power plant (CSP) – CDM validation
- 4,4 MW hydroelectric power plant – CDM (PoA) validation
- Water purification project, Kenya – Gold Standard validation
- Improved energy efficient woodstoves, Kenya – CDM (PoA) validation
- Efficient cook stove project, Kenya – VCS verification
- Landfill gas recovery and utilisation, Windhoek – CDM validation

Carbon Credits – project development and management

We have experience in delivering carbon- and energy- solutions including the development, monitoring and managing of carbon credit – generation projects:

- Capturing, flaring and utilisation of mine-methane, Gauteng - CDM
- Landfill gas capturing and flaring, Gauteng - CDM
- Landfill gas capturing and utilisation, Cape Town – CDM (PoA)
- 95 MW Windfarm, Eastern Cape – CDM (PoA)
- Captive rooftop-solar PV plant – CDM (PoA)

Energy Efficiency Assessments

Thorough understanding of where to look for the most cost-efficient energy savings opportunities among a business' assets and processes was accumulated through delivery of numerous energy assessments and energy management solutions to small- medium- and large customers in the manufacturing-, mining-, construction-, waste-, food- and commercial- sectors.

Strategic

- Strategic (energy) management system advisory (ISO 50001, integrated with ISO 14001 and ISO 9001)
- Compliance- (NEMA, Energy Act, Air Quality Act) and risk- management services
- Carbon Disclosure Project Response submissions
- Feasibility studies for waste-to-Energy projects

Certification

- Certified Measurement & Verification Professional (CMVP)
- ISO 9001:2008 (Certificate Number ACA080)
- ISO 14001:2004 (Certificate Number 19.03.12.191)



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