



CarbonOptics

VISION • ANALYTICS • NET ZERO

**SUPPORTING
THE PATH TO
NET ZERO EMISSIONS**

 www.carbonoptics.co

|  talktous@carbonoptics.co



About CarbonOptics

CarbonOptics is a joint venture created by Elite Energy Consultants (<https://ei-cs.com/>) and Nexia Edwards Marshall (<https://www.nexiaem.com.au/capabilities/emissions-tracking/>), designed to support the energy industry's transition to Net Zero. Our mission is to provide innovative and comprehensive emissions tracking and management services, helping companies meet the challenges of compliance, transparency, and sustainability in today's rapidly evolving regulatory landscape.

Elite Energy Consultants ('Elite') is the leading Platinum Reseller of EnergySys (<https://www.energysys.com/>) and brings over a century of industry experience and a strong reputation for delivering production excellence through adaptable, engineering-led, and IT-driven solutions. Together with Nexia Edwards Marshall ('NEM'), a firm recognised for its expertise in emissions consulting services, we have developed a unique application framework that empowers operators to monitor, report, and optimise their carbon footprint effectively.

At CarbonOptics, we leverage the technical capabilities and industry insights of both parent companies to offer clients a complete solution for emissions monitoring, compliance management, and legislative reporting. This partnership reflects our shared values and commitment to meaningful change, supporting operators as they strive to achieve their sustainability targets and succeed in a cleaner, greener energy landscape.

CarbonOptics Services

At CarbonOptics, we offer a range of expert services designed to help clients manage and reduce their carbon footprint while ensuring compliance with ever-evolving regulations. Our services are tailored to meet the specific needs of the energy and industrial sectors, with a focus on emissions tracking, reporting, and sustainability.



GHG Application Framework

The GHG Application Framework provides a structured approach to greenhouse gas emissions calculation and reporting.

Adaptable for multi-jurisdictional settings, the framework has the objective to inspire innovative thinking and stimulate discussions on client specific GHG configuration, ensuring the proposed solution aligns precisely with the client's operational and system requirements.

Scope 3 Emissions Framework



Our Scope 3 emissions application is instrumental in providing companies with comprehensive visibility over their greenhouse gas (GHG) emissions, encompassing Scope 1, 2, and Scope 3 emissions. With the reporting landscape for Scope 3 emissions rapidly evolving, it is imperative for companies to adopt a robust Scope 3 strategy.



Emissions as a Service

For many years we have advised clients on the design & implementation of emissions calculation & reporting IT systems as well as providing support services for daily emissions reporting and emissions forecasting.

Utilising our GHG applications we provide an in-house emission as a service offering enabling clients to utilise our experience and skills in a low-cost setting.



Carbon Capture and Storage

Our GHG Application Framework has been used to implement Carbon Capture and Storage (CCS) calculations including abatement calculations for carbon offset compliance reporting.

In the Australian context we have provided advice regarding compliance and the calculation of emissions for CCS projects under the Emissions Reduction Fund & Carbon Farming Initiative Schemes.

Our publication of a technical paper on Carbon Capture and Storage for the Australian Energy Producers conference for their technical journal (<https://www.publish.csiro.au/EP/EP23095> - Contact us to get a copy of the paper).

Climate Change Reporting



We provide advisory services in relation to the:

- Business readiness and preparation for Climate Related Financial Disclosures.
- Calculation of GHG metrics and targets and review of accuracy of emissions disclosures in climate change reports.

Our GHG and Scope 3 Application Frameworks have the capability to calculate, store and report data to meet Climate Related Financial Disclosure requirements.



Australian NGER and SGM Advisory

We have advised clients on the NGERs (National Greenhouse and Energy Reporting Scheme) since 2010, including detailed emissions calculations for annual reporting on the NGERs & assistance with Basis of Preparation development.

We have experience in SGM (Safeguard Mechanism) application preparation, baseline calculations and compliance since SGM commencement. This has also included participation in industry advocacy regarding SGM scheme reform.

Emissions Assurance, advisory and studies



We have skills and experience in emissions assurance and advisory services including:

- 3rd party emissions validation.
- Carbon footprint studies.
- Targeted advisory in areas such as emissions apportionment to contracts and carbon cost pass through.



Leadership



Mr Brett Morkunas

has been involved in emissions compliance, assurance and the broader resources industry for over 20 years. Brett is a Registered Greenhouse and Energy Auditor and a Registered Company Auditor. Prior to returning to professional practice, Brett worked at Santos Limited for more than 10 years in various roles in finance and production allocation and has been directly involved in the implementation of greenhouse gas reporting systems and other significant IT projects. Brett regularly advises on NGER, Safeguard Mechanism and carbon compliance.

brett.morkunas@carbonoptics.co



Dr Fabio Terzini

has been supporting the delivery of specialised engineering and IT projects around the globe for over 10 years. Dr Terzini is a chemical engineer and holds a PhD in reservoir engineering from The University of Queensland in Australia. Dr Terzini has been involved in the implementation of hydrocarbon accounting, production forecasting and greenhouse gas applications. Prior to joining Elite Energy, Dr Terzini worked with Worley and Advisian on various large-scale projects in Australia, New Zealand and Brazil.

fabio.terzini@carbonoptics.co



CarbonOptics

— VISION • ANALYTICS • NET ZERO —



www.carbonoptics.co