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Locations: Brisbane QLD - Mission Beach QLD - Darwin NT - Newcastle NSW

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Overview

Footprint Energy is an Australian-owned, innovative, and solutions-focused advisory business, specialising in the delivery of environmental and social sustainability solutions. We prepare and implement environmental management and sustainability strategies, including streamlined and compliant measures for your projects or operations.

At a strategic level, we assist business managers in understanding and anticipating the impacts of continuously changing environmental, social responsibility, and technological scenarios, including renewable energy and nuclear energy industries.

One of our strengths is our community engagement and support, including awareness and engagement, for projects involving environmental, cultural, social/community, sustainability, and resilience and empowerment components.

At a tactical level, our staff have collective global experience across a wide range of sectors including resources (mining, oil, and gas), land development, renewable energy, defence, aerospace, telecommunications, radio broadcast, government/non-government, commercial and residential buildings, and construction/maintenance.

We are passionate about making a difference to people and planet, and we take pride in our ethical approach. We have a track record of achieving impactful outcomes for our clients.

Footprint Energy Services & Core Competencies

Environmental/Sustainability

- Environmental impact assessment & management planning, and design and project implementation
- Environmental legislation compliance and auditing
- Preparation and management of required documentation for plans, approvals, licences, and certification – building and land development projects
- Resource Efficiency assessments and action plans (waste, water, and energy efficiency) – audits, improvement loop & cost benefit analysis
- Carbon Accounting – greenhouse gas emissions (GHG) - Scopes 1, 2 and 3
- Life cycle planning, costing and implementation of environmental programs
- Trouble-shooting complex environmental and system issues
- Position papers - the potential environmental benefits and impacts of new technologies.

Social

- Community consultation and stakeholder engagement. We apply our nine-point Customer Engagement and Social Research Process utilising Quantitative and Qualitative methodologies to research topical and sensitive issues on behalf of our clients.
- Indigenous community awareness and engagement, including cultural heritage assessment
- Human rights, fair labour, supply chain and procurement assessment
- Sustainability reporting - including guidance on environmental risk, materiality, ISO 26000 (social responsibility) & ISO 24000 (sustainable procurement)), building performance and net zero strategies.
- Preparation and delivery of environmental education programmes.
- Definition and promotion of initiatives aimed at achieving convergence of contrasting positions held by environmentalists, communities and business, regarding complex environmental issues.

- Detailed analysis of “unprecedented” environmental issues using reasoning from first principles.
- Staff training and development – systems, environmental, cultural and sustainability/resource efficiency topics.

National Australian Built Environment Rating System (NABERS) & Commercial Building Disclosure (CBD), Australia

- Our NABERS and CBD Assessors are nationally accredited to prepare base and whole building ratings, with extensive experience conducting ratings for a range of building types.

Complex Systems – Planning, Design, Integration & Implementation - examples

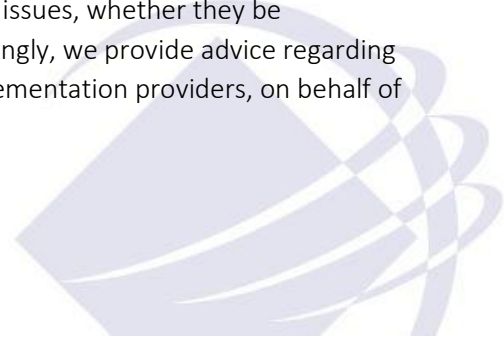
- Jackson Oil Fields (Qld) – Microwave communications including passively-cooled equipment shelters and solar-powered repeater sites.
- Radio Vanuatu (South Pacific) – Civil, building, structural and electronic infrastructure and relocation of Broadcast transmitter site
- Submarine telecommunications cable installations Lake Burley Griffin (ACT), Lake Macquarie (NSW)
- Telecommunications civil and electrical infrastructure installation and maintenance (Saudi Arabia) and (Nigeria – West Africa)
- Motor vehicle telematics system development (Germany)
- Aircraft Microwave Landing System development (NSW)
- ABC (Australian Broadcasting Corporation) - studio digital console system development and implementation (NSW)
- Mount Newman Mining railway communications (WA)
- Department of Defence – Tindal Air Base (NT) Airfield Surveillance Radar tower and Air Traffic Control communications implementation.

Educational – staff training and innovation

- Training program delivery - business sector (banking, commercial development) on ‘Behavioural Change for Sustainable Waste Practices’ in collaboration with environmental psychology company AWAKE (Sydney, NSW)
- Staff training of small businesses engaged under the NSW Gov’s Bin Trim Program (business waste).

International Consulting and Solutions

- Individual members of the Footprint Energy team bring a comprehensive international experience and knowledge set to the Footprint Energy international services portfolio. Footprint Energy is equipped to provide services to the Pacific, Asia, African and Middle-East regions.
- Footprint Energy is able to identify the drivers and sensitivities of regional issues, whether they be Environmental, Social, Technological, Economic or a Complex mix. Accordingly, we provide advice regarding solution paths, and subsequently, identify and engage the necessary implementation providers, on behalf of our client.



Care of the Outer Space Environment

- The “Care Outer Space” program aims to raise awareness within the Outer Space community of the emergent need to raise questions and issues regarding care of the outer space environment, so that these questions and issues can be identified, analysed, prioritized and mitigated in a timely manner, before any criticality is reached.
- Program categories include Risk Management Register, Contamination Risks, Geo-Political-Industrial Risks, and Register of Benefits to planet Earth.
- Web-site: <https://www.careouterspace.org/>

Snapshot – Footprint staff projects / Footprint case studies

Environmental – assessments, compliance, strategy

- Biodiversity assessments – environmental legislation compliance, extension and education, including knowledge of the key federal government *Environmental Protection and Biodiversity Conservation Act* (EPBC Act). Local and state experience addressing environmental, Indigenous and heritage legislative requirements.
- Onshore & offshore wind farm feasibility, assessment, and stakeholder engagement (NSW) – strategic assessment for offshore and impact assessment of onshore, in role as federal government engaged advisory role (EPBC Act).
- Assessment and auditing of mine site operations as NTG mine site auditor (NSW, NT)
- Resource efficiency assessments for manufacturing, commercial and industrial business clients (energy efficiency and waste management) : NSW and Australian Government grants programs rollout (Government-appointed assessors)
- Decarbonisation pathway strategy preparation, carbon accounting calculation, and emission reduction strategies for food and beverage manufacturing clients (AFGC - National)
- Waste management education programs/advisory – commercial, residential and general community (National, State)
- Darwin (NT) International Airport environmental audit and compliance – formerly DoTARS (currently Air Services Australia)
- Darwin Liquefied Natural Gas (LNG) Production Facility - environmental & cultural impact assessment – Conoco Phillips/Bechtel
- Department of Defence – Tindal Air Base (NT) environmental impact assessment.
- BHP Billiton (Newcastle, NSW) environmental assessment, compliance and reporting - Hunter River Remediation Project (NSW)
- Preparation of NT Government Guidelines – erosion & sediment / vegetation management



Qualifications / Training / Accreditations held by Footprint Energy staff

Environmental & Social

- Graduate Certificate Sustainable Practice (business sustainability and renewables)
- Graduate Certificate International Relations (law, environment)
- Bachelor of Applied Science (Environmental and Cultural Heritage Management)
- Master Environmental Management and Sustainability
- PhD - Doctorate (Science, Ethics, Education and Environment)
- Environmental and quality management, internal auditing and risk assessment – ISO 14001/9001 (Accredited Auditor)
- Certificate IV Business Sustainability Assessment - Sustainability Assessments (energy, waste, water consumption, minimisation and efficiency (residential & commercial))
- NSW Government POEO (1997) environmental incidence reporting
- OHS General Induction (white card)
- Recent Footprint staff education/site visits and project manager liaison including:
 - Current environmental projects and their updates e.g. Kidson Pumped Hydro project (world's largest pumped hydro scheme under construction)
 - Great Barrier Reef education - social and scientific knowledge and research
 - Wind farm developments in Northern Queensland and significance of future development
 - Understanding of Eco Tourism and environmental effects e.g. Tullaroo Hot Springs redevelopment and its environmental and cultural impacts
 - 2032 Brisbane Olympics supplier session and Premier Breakfast information sharing

Business & Education

- Business Management, policy and procedure development, and process improvement
- Graduate Diploma Business.
- Bachelor of Education.
- Graduate Diploma PE and Health.
- Master of Business (Marketing)
- Trade Qualifications – Building management/maintenance.

Engineering & Project Management

- Bachelor of Engineering (Civil & Systems)
- Project Management Professional (PMP) (PMI-PMBOK) (2001-2018)
- Prince2 Practitioner

Short courses

- Agile Project Management Short Course (2015- Charles Sturt University)
- Scrum vs Lean: Agile Project Management Short Course (2015- Charles Sturt University)
- Digital Marketing Short Course (2015- Charles Sturt University)
- Introduction to Complexity Certificate Course (2017 – Santa Fe Institute)
- Life Cycle Assessment (LCA) (Building Council of Australia, 2021)
- Creating Shared Value/Building & Implementing CSR strategies (CSR Asia, Kuala Lumpur 2015)
- Cross Cultural awareness and communication (NT and Federal Governments 2021)



Professional / Industry Awards - Footprint Energy staff – Sustainability, Systems & Engineering

- Outstanding Sustainable Business Contribution Award over 5 years (NSW Government) - Energy Efficiency Sustainability Business Program - Joanne Sedman (PM)
- Winner - Australian Design Award by Standards Australia. Awarded to the ABC for the Virtual Console (John Lee - Project Manager (PM))
- Winner - Engineering Excellence Award in the “Innovation” Category. Awarded by the Sydney Division of the Institution of Engineers, Australia to the ABC – John Lee (PM) D-RADIO Project
- Winner - National Engineering Excellence Award. Awarded to the Australian Broadcasting Corporation with John Lee (PM)
- Winner of a Special Award by the Powerhouse Museum (Sydney) for the Virtual Console of the D-RADIO system, for its contribution to technology history - John Lee (PM)
- The TSK Project for the ADAC – German Automobile Club, awarded the Winner in the annual Victorian Design Awards hosted by the Design Institute of Australia, - John Lee (PM)

Affiliations

- IE Aust (Institution of Engineers - Australia)
- AAAS (American Association for the Advancement of Science)
- UN Sustainable Development Goals (UNSDG)
- NT and QLD Chambers of Commerce
- National Space Society of Australia (NSSA)
- Project Management Institute (PMI)
- EIA NZ

