



BG Group
ENGINEERS



Alternative Energy

www.bgggroup.com.au

Integrated Sustainable Design

BG Group offer Integrated Sustainable Design (ISD), looking at sustainability solutions at the very beginning of a project.

ISD considers multiple sustainability factors based around four key areas;

- Build Costs
- Running Costs and Energy Consumption
- Ongoing Maintenance Costs
- Environmental Impact

When applied early on and correctly, ISD can reduce construction cost as well as whole of life costs for the client, fundamental when there is a long-term view on an asset, ideal for owner operators.

Whilst ISD is a tailored approach to individual projects, the process considers multiple solutions where appropriate, including but not limited to;

- Water and Sub-Meters
- Solar Photovoltaic and Battery Storage

- Rain water harvesting
- High efficiency air conditioning (Heat Recovery)
- Geothermal heating and cooling
- Solar thermal water heating
- High efficiency lighting and controls
- Strategic Facility Management solutions
- Electric Vehicles and Solar Charging Stations



Geothermal Technology



Geothermal energy is thermal energy generated and stored in the Earth. Thermal energy is the energy that determines the temperature of matter. BG Group can provide design solutions and associated cost analysis for Geothermal Cooling and heating solutions as alternatives to traditional solutions.

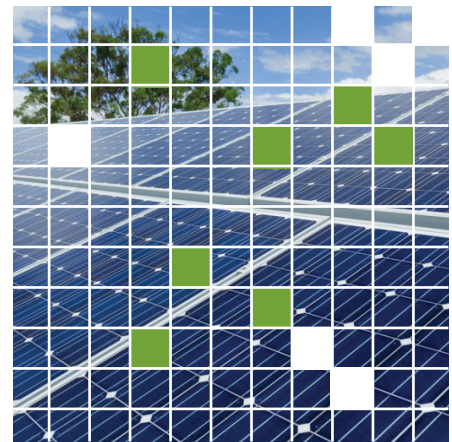
Geothermal has been used across Australia for cooling, with results showing a coefficient of performance (COP) of up to 7:1, compared to a traditional cooling system of 3 or 4:1.



Solar Technology

Solar is not new, however it has traditionally been installed retrospectively. BG Group can offer Solar at design stage, using integrated products and solutions in lieu of traditional materials.

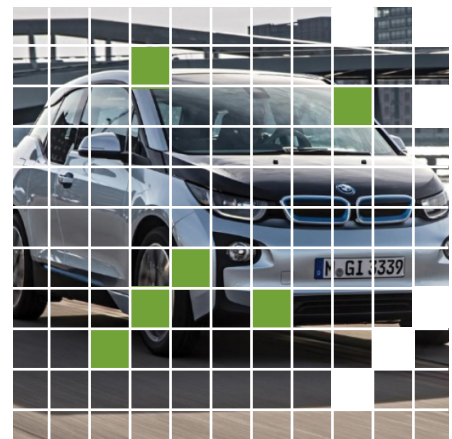
By having solar at the beginning of a project rather than later, the focus shifts from return on investment to capital growth whilst the benefit of reduced energy costs can be maximised from day one.



Sola-Drive[®]

Working in conjunction with Sola-Drive[®], BG Group can offer solutions for Electric Hybrid Vehicles as well as Solar Charging Stations, all via agreements with global manufacturers. BG Group can work with our clients to offer the solar, vehicle, charge station, infrastructure, installation and capital finance.

SOLADRIVE



Capital Offset and Power Purchase Agreements

Through associations with financial partners, have the operational capability, systems, people and funding to provide Solar Power Purchase Agreements (SPPAs) and early stage project financing to the solar market. These combined skills sets are enabling the development and commercialisation of solar projects, (large and small), across Australia.

We provide the design and partner to provide the capital, equipment and overall expertise

to help development partners get their solar projects built.

Power Purchase Agreements are simple, and flexible. This allows projects of all shapes and sizes to be structured with a cost effective PPA for our partners and their clients.

Our goal is to help our partners construct that solar system or plant or farm, and ultimately deliver cleaner cheaper power.

Who We Are

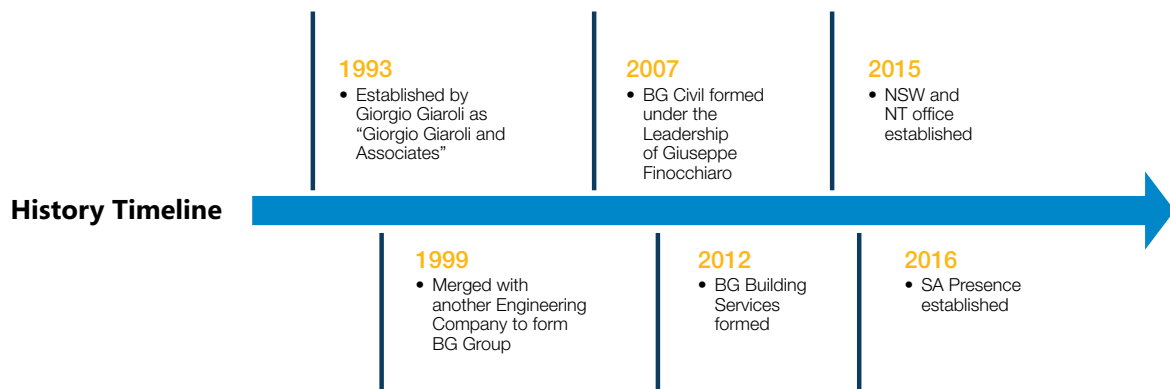
Established in 1993, BG Group is a multidisciplinary design consultancy located across four states and territories with a philosophy focused on client relationships and a high level of expertise. Since our foundation we have built and developed a strong loyal client base built on trust, integrity and personal service. BG Group offers Civil, Structural, Building Services and Energy Engineering along with Asset Management services utilising

leading edge modern technology and software, embracing Building Information Modelling (BIM) whilst ensuring the highest standards under our ISO9001 certification.

Our management have both Australian and International experience and work together seamlessly, regularly improving systems and processes and reinvesting in the company. We are more than an enthusiastic and proactive team of specialist engineers. We are outcome focused

and consider the bigger picture to deliver tailored solutions that add value both now and over the lifecycle of the asset. Today the founding director is ever present, offering leadership, expert advice and mentoring across the group maintaining the company culture and work ethic.

Our staff have worked on multiple projects across different states and territories, providing design on civil engineering, structural engineering, mechanical and electrical services.



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