

## Greenplate Solar Standalone Off-Grid Electric BBQ System Proposal

### Key Features:

- DDA Compliant cabinet options available
- Compatible with all Greenplate BBQ cabinet ranges
- System is retrofittable to existing public BBQ cabinets
- Equipped with Greenplate's DC Series Inbench Electric Barbecues with adjustable temperature up to 320°C.
- Patented 24V DC heating element
- Seat accommodates 1 x power supply - 24V DC 1000AH Gel Type Battery Bank
- Seat includes lockable top with easy lift gas strut
- Shelter lighting options available

### Proven Sustainability

Tested and trusted, the Greenplate Solar Standalone Off-Grid Electric BBQ System delivers a 100% carbon-neutral open space cooking solution. It's a testament to our commitment to preserving the environment while still catering to public needs..

### Beyond BBQ: Powering Possibilities

Our expansive battery system isn't limited to just BBQs. It can extend its power to illuminate your surroundings with lighting, driving pumping systems, keep you connected with WIFI and provide wireless charging solutions, turning your outdoor space into a multifunctional oasis.

### Solar Array

These solar power arrays can be customised to integrate with existing or new roofing structures, including nearby amenity blocks or shelters.

### Installation

Greenplate's Standalone Solar BBQ System arrives almost fully assembled, requiring only minimal setup. The sole installation involves placing the battery system within the seat enclosure, with all connections thoughtfully designed for straightforward integration. The solar array is provided with pre-wired looms and cabling, while the cooking plate is pre-installed within the BBQ cabinet for ease and efficiency in setup.

Experience the future of sustainable, off-grid outdoor cooking with Greenplate. Whether its in remote locations, eco conscious communities or anywhere in between, our Solar Standalone Off-Grid Electric BBQ System ensures you enjoy safe and reliable cooking facilities, all while being environmentally conscious.



**Greenplate Double Solar BBQ System with Equal Access Cabinet & Gossi Shelter**

**FULLY AUTONOMOUS AND RENEWABLE**

This self-sustaining system operates entirely on renewable energy sources. A solar array charges a pre-configured battery bank. This energy reservoir then powers our patented

DC Series Inbench Electric Barbecue Hotplate, ensuring a continuous supply of energy for public cooking requirements.



# Cost Saving Analysis

**Solar Standalone BBQs**

- Powered by solar energy, Greenplate's solar BBQs operate independently from the grid, drastically reducing energy costs. Once installed, these systems draw energy from the sun and store it for later use, ensuring reliable cooking power at no additional energy expense.
- Cost Savings: Eliminates ongoing electricity or gas costs entirely, providing free, sustainable energy for the BBQ's operational lifetime.
- Estimated Savings: Councils typically see an annual savings of up to \$500-\$1000 per BBQ unit in electricity costs alone compared to grid-connected electric units, depending on usage frequency and local energy rates.

**Gas BBQs**

- While gas BBQs are off-grid, they require regular gas refills and maintenance, leading to ongoing operational costs.
- Ongoing Costs: Requires regular fuel purchase, delivery, and refilling, adding logistical complexities and costs.
- Environmental Impact: Combustion of gas releases CO<sub>2</sub> emissions, contributing to the carbon footprint.

**Traditional Electric BBQs**

- Relies on grid power, much of which is still derived from fossil fuels, leading to indirect carbon emissions.
- Environmental Drawbacks: Higher carbon footprint compared to solar-powered options.

**Gas BBQs**

- Burns natural gas or propane, directly emitting CO<sub>2</sub> and other pollutants into the atmosphere.
- Environmental Drawbacks: Directly contributes to greenhouse gas emissions and pollution, with a higher environmental impact than electric BBQs.

**Sustainability & Environmental Impact**

**Solar Standalone BBQs**

- Designed with sustainability as a core value, solar BBQs leverage renewable energy, eliminating the reliance on fossil fuels and reducing carbon emissions.
- Environmental Benefits: Fully renewable, zero-emission energy source, contributing to a cleaner, greener public space.
- Community Image: Adopting solar BBQs demonstrates a council's commitment to sustainability, improving community engagement and eco-friendly reputation.



**Maintenance & Operational Benefits**

**Solar Standalone BBQs**

- Designed for minimal maintenance, Greenplate's solar BBQs are equipped with durable components, reducing servicing frequency and operational costs.
- Reduced Maintenance: Fewer parts needing repair and no reliance on fuel sources, reducing downtime and operational expenses.
- Reliability: Battery storage ensures consistent performance, even during low sunlight periods, Greenplate utilize safe and efficient long lasting 12 x 2V 100Ah Batteries that provide a 15-year design life expectancy.
- Power Stability – Mains power can be prone to fluctuations and brownouts, which place stress on 240V electrical appliances. In contrast, a battery bank provides a stable and consistent power supply with minimal fluctuations. This stable power source increases the reliability of the appliance, reducing the likelihood of damage and, consequently, lowering maintenance requirements.

**Traditional Electric BBQs**

- Requires regular grid maintenance, checks, and repair for electrical systems, which can lead to higher maintenance costs over time.
- Vulnerable to Power Outages: Dependent on the grid, electric BBQs may face downtime during outages or peak loads.

**Gas BBQs**

- Requires frequent gas replacement and annual Gas certification test.
- Safety Concerns: Gas storage, handling, and leak management introduce additional risks and safety protocols for maintenance staff.

# SOLAR STANDALONE OFF-GRID ELECTRIC BBQ RANGE

## KEY FEATURES

- DDA Compliant cabinet options available
- Compatible with all Greenplate BBQ Cabinet Ranges
- System is retrofittable to existing public BBQ Cabinets
- Equipped with Greenplate's DC Series Inbench Electric Barbecues
- Seat Accomodates 1 x Power Supply - 24V DC 1000AH Gel Type Battery Bank
- Seat includes lockable top with easy lift gas struts
- Shelter lighting options available

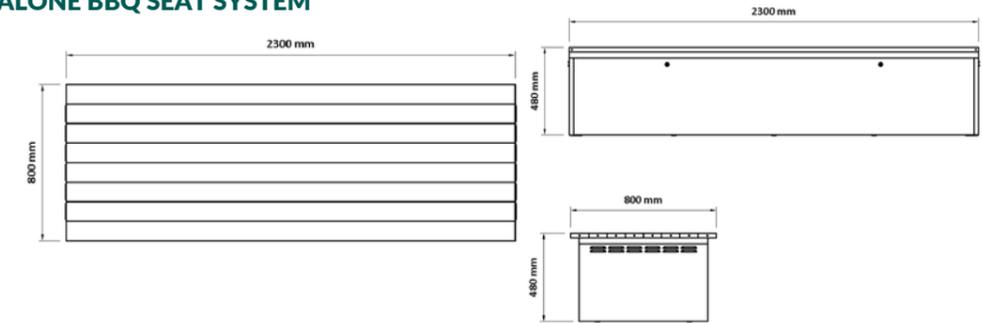
## WARRANTY

- Electrical Components - 2 Years
- Heating Element - 5 Years
- Battery Bank - 2 Years (Design Life 15 Years)
- Solar Modules - 30 Year Output Warranty (Conditions Apply)
- All Stainless Steel Components - Lifetime Structural Warranty



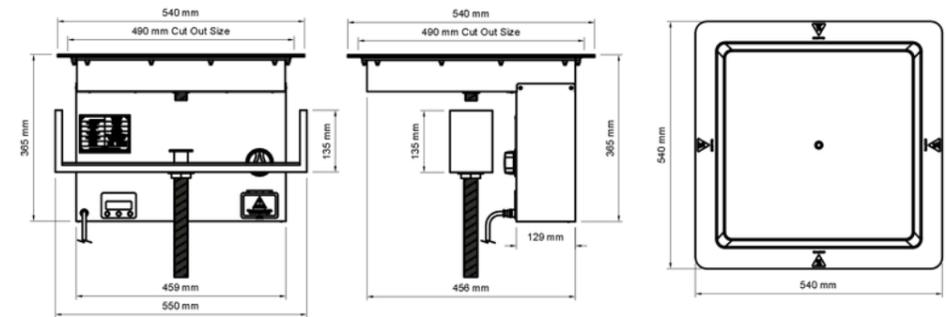
## Solar Electric BBQ Product Drawings

### SOLAR STAND ALONE BBQ SEAT SYSTEM



Product Code: 30121

### DC SERIES INBENCH ELECTRIC BBQ



Weight: 25kg\*

Product Code: 30000DC

### BENCH OPTIONS

Customers can combine the above products with any of the Greenplate Bench Ranges or retrofit with existing BBQ cabinets.

### SEAT OPTIONS

Wood finish as pictured is available on request.

Anodised aluminium/powdercoated options available.



## Optional BBQ & Bench Accesories

### STAINLESS STEEL SINKS



### BAFFLE TYPE FAT BIN



### POWDER COATING OPTIONS AVAILABLE FOR CABINETS P.O.A



### HINGED BBQ COVER



### ABOVE BENCH HOUSING

