

Greenplate Smart BBQ Management System Benefits

Greenplate are a manufacturer of public electric BBQ's and solar BBQ products. These are typically installed in open spaces and public parklands across the country. Maintaining and servicing these public BBQs are a large cost to local government organizations. Greenplate looked at the best way to minimize these ongoing costs and by using our extensive industry knowledge were able to identify key areas where a cloud based IOT system would help reduce those costs.

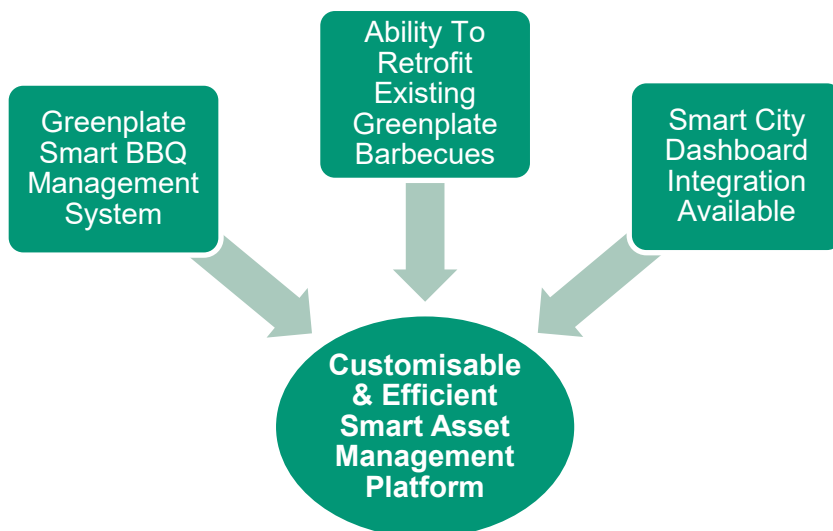
Greenplate's research and development team worked extensively on developing a system that would monitor and control the following parameters of the Greenplate BBQ's whilst reporting this information onto a dashboard.



Features & Benefits

BBQ Fault Detection	• <i>Notifies Owners of issues with the BBQ</i>
Fat Bin Level	• <i>Detects the level of the fat bin and displays as a % also notifies when the bin is full</i>
Tripped Breaker Alert	• <i>A battery backup allows the system to send an alert making the asset owner aware of the issue</i>
BBQ Usage Display	• <i>Usage Counter and Power Consumption of the BBQ</i>
Remote Shutdown of BBQ	• <i>Disable the BBQ Unit, useful during events or shutdown of parks for maintenance or lockdowns</i>
Remote On / Off times for BBQ	• <i>Can be adusted through the dashboard</i>
Remote Temperature Adustment	• <i>Be able to remotely change the temperature of the BBQ from the dashboard</i>
Door Open / Close Notifications	• <i>Displays the door state either open or closed and records the time it was opened</i>
Email notifications	• <i>Each BBQ can be assigned an email address for alerts to be sent to</i>

A specific project design requirement was that the device could be retrofitted into existing Greenplate BBQs. This was to reduce the outlay of forcing customers to purchase a new BBQ if wanting to take advantage of the Smart BBQ Management System. The system was also designed so that it could be integrated into existing customers Smart City Dashboards allowing for the combination of smart assets onto a single operating platform.



The result has been the innovation of Greenplate's Smart BBQ Management System for the Greenplate BBQ unit. The system reduces BBQ down times and increases efficiencies around servicing and maintaining the public BBQ asset with the ability to retrofit into older BBQs or supplied with new BBQ systems.

Greenplate's Smart BBQ Management System is not only available for new Greenplate BBQs but has also been developed to be retrofitted to existing BBQ's. There are thousands of Greenplate BBQs in public parks across Australia and New Zealand with the potential for adoption of this technology.

Greenplate have begun retrofitting existing BBQs in the Moreton Bay Regional Council area with the Smart BBQ Management System. The BBQs were retrofitted in early June 2021 with the data being integrated into the councils existing API.

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Sydney Olympic Park Authority Project
Newington Armory Wharf Smart BBQ Management System Retrofit

A recent application of the technology is through Sydney Olympic Parkland Authority who have purchased 51 Smart BBQ Management Systems in conjunction with 51 new Greenplate BBQs.

Greenplate Smart BBQ Management Systems have also been deployed in Ballina Shire Council, City of Charles Sturt, and Sunshine Coast Regional Council. These BBQs are currently being reviewed for the effectiveness of the system and how a large-scale deployment of this technology will benefit the asset owner.

Although the adoption of this technology is only new, the scalability is quite large with well over 50000 public BBQs currently in open spaces in Australia alone. All of these are being regularly maintained by councils and government organizations with the potential for integration of the Smart BBQ Management System technology.

The Smart BBQ Management System has been designed to reduce downtime and increase efficiencies around BBQ Asset Management. The fault detection not only notifies the user of a fault but diagnoses the part that needs replacing. This eliminates unnecessary travel; with the system the electrician can order the part and repair the BBQ without the initial service call to diagnose the fault. Saving both on BBQ downtime, costs for servicing and environmental impact from vehicle travel and more.

Reduces Downtime



Increases Efficiency



Transparent Monitoring



Usage Reporting



Cost Effective

Another feature of the system is the usage reporting. The system monitors both the number of times the BBQ has been used and the amount of power kWh. This allows asset owners to make informed decisions on how the BBQ is being used. Low usage assets can be moved to higher demand locations. Power usage is also important, so owners are aware of the ongoing costs associated with the asset.

The Fat Bin Sensor and alert triggers a notification when the waste bin reaches a certain % level. This is sent to the cleaners who then change the bin. Currently cleaners regularly drive and check these bins manually resulting in lost productivity. The system eliminates this loss by cleaners being alerted when the specific BBQ fat bin requires emptying. Remote management allows full control over the unit in the event of COVID-19 lockdowns or events where the unit would normally rely on physical shutdowns. Dashboard integration significantly reduces these associated manual and travel costs.

The door open sensor alerts owners if the BBQ door has been left open. This is a liability if people gain access to the inside of the cabinet and injure themselves. The maintenance team can then quickly respond and make sure the cabinet is secure.

The Greenplate Smart BBQ Management System provides a substantial impact on the public BBQ market. The technology offers a great advantage and cost savings over the current way these BBQs are being serviced and maintained. By alerting maintenance teams of when to service the units significantly reduces the financial outlay on maintaining the assets. A respond when needed approach can be implemented opposed to the daily manual checks that currently occur with public BBQs.

This system has now been installed across three states and is being trialled in several different Local Government Areas. Results from the BBQs provide councils with comprehensive data to understand usage trends in the parks. This is just one of the examples of data that can be taken from the system and used for decision making purposes in future public space projects.

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