

BlueSG - Singapore

Overview

BlueSG provides a new environmentally friendly, electric car sharing service in Singapore. It is a sustainable mode of transport that reduces carbon footprint as it has zero-emission of CO₂, odour and produces less noise. Earmarking 500 charging stations and 2000 charging points by 2020, BlueSG is different from existing car-sharing services as drivers' need not return the car back to its origin. It provides the ability to drop the car off at another location as charging stations can now be easily found at housing development multi-story carparks, commercial buildings, and roadside open carparks. It eliminates the need for citizens to own a physical car, and diminishes the responsibility of topping up gas, covering insurance, parking fees or taxes. As drivers are charged by the minute, BlueSG is a simple, convenient and affordable alternative mode of transport for Singapore citizens.

Challenge

BlueSG aims to add additional stations to achieve more than 300 stations by end of 2019 to enable better access to charging points for their increasing fleet of electric vehicles across Singapore. The challenge of the project would be to complete the sites within timelines, delivering an estimated 16 charging stations per month.

The sites also have varying site profiles, with different requirements, considerations and limitations for construction. For example, open carparks face the risk of adverse weather conditions where no work can be done when it rains. At times like this, the project could be delayed due to bad weather conditions. The construction of stations also requires specific civil engineering works for connecting to the electrical grids and telecommunications network. This requires close collaboration with telecommunication service providers and ensuring that the development is in accordance to Singapore Power and BlueSG technical guidelines.

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Solution

Arcadis' prime responsibility is to deliver project management services to BlueSG, ensuring that we meet the target timelines given, and deliver project excellence with quality and accurate work. Due to the challenges, scheduling contractors, telecommunication service providers and other stakeholders must be coordinated in a productive and efficient manner with limited room for error.

Arcadis works closely with architects to ensure that issues are addressed early to prevent any delays for contractors. We conduct pre and post-site assessments to all sites and help to give value-added solutions when problems arise.

In terms of managing the different site profiles, Arcadis' project management team does an in-depth study on each site and makes a conscious effort to have a good mix of site types at a given point of time. This is to ensure that we can deliver 16 stations each month and are not delayed by bad weather.

The construction progress of charging stations is also recorded real-time on Google Drive where all stakeholders including client, contractor, architect and service providers input progress updates. Utilizing Google allows the client to monitor site progress easily and provided work transparency among all stakeholders.

Impact

Through Arcadis' project management expertise and services, we managed to meet the targeted numbers of stations by a specified timeline provided by the client. For example, they set a target of 150 stations to be completed by end of 2018, and we managed to complete the work before the target. Overall, the BlueSG projects helps support the Singapore government's Smart Nation and car-lite vision, improving mobility and connectivity for citizens in Singapore.