



Electric Vehicle Charging in Strata – Project Overview

Study conducted in association with:









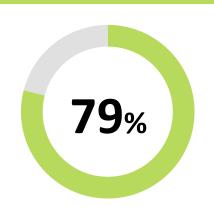


Scope of the project

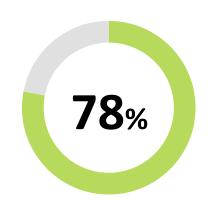
- 80 strata schemes within the City of Sydney **registered interest**
- Conducted surveys of over 700 residents in strata schemes within the City of Sydney
- **20 strata schemes** of different age, size, energy consumption and location were selected for site visits and detailed reports to assist in preparation for electric vehicle charging infrastructure
- Engagement with:
 - strata committee members
 - strata managers
 - building managers
 - charge station vendors
 - electrical contractors
 - energy companies
 - car share operators
 - property developers

- electric vehicle manufacturers and dealers
- City of Sydney transport and sustainability teams
- NSW Department of Industry
- Department of Planning, Lands & Heritage (Western Australia)
- City of Melbourne, North Sydney Council,
 Kuring-gai Council
- Media e.g. Inside Strata, Fifth Estate

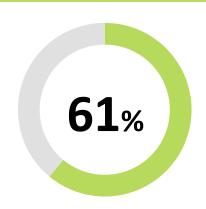
Some key findings



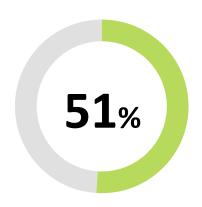
Favoured a **user pays** charging system



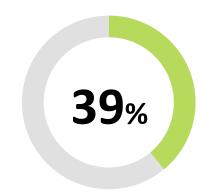
Were in favour of **installing charging systems now**



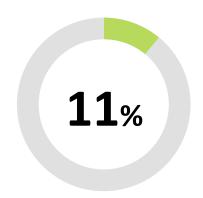
Favoured charging in their individual lot carspaces



Expressed **no preference** of hybrid electric vehicles over electric vehicles



Of vehicles in strata are family cars, which is the most common type of vehicle



Knew the location of the nearest public charging station

Some participating strata schemes











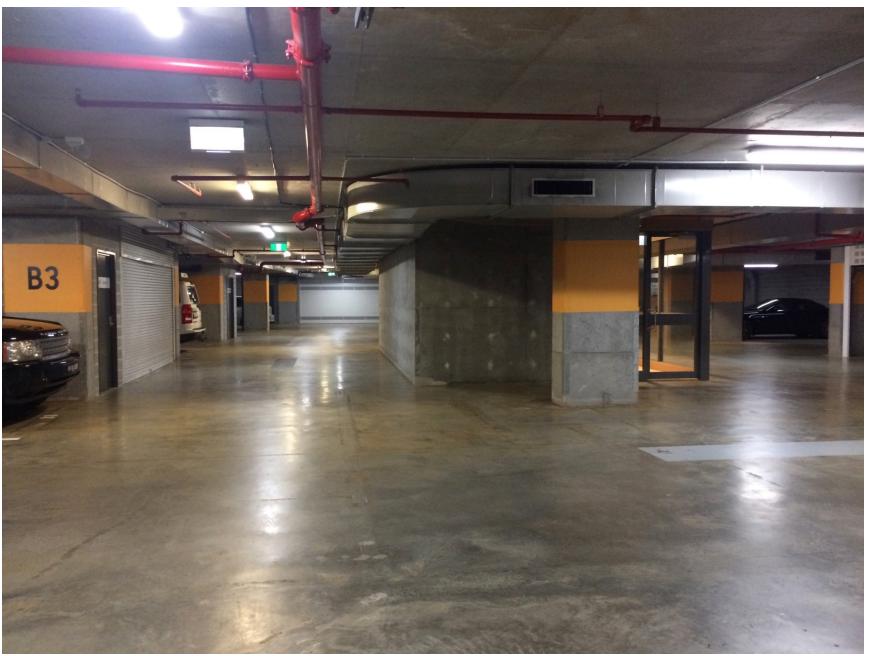




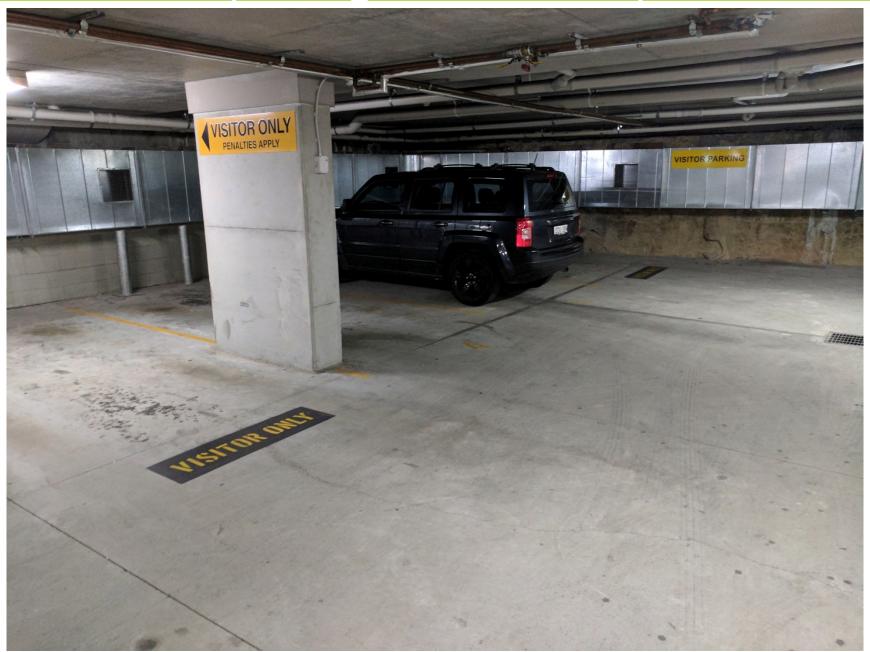




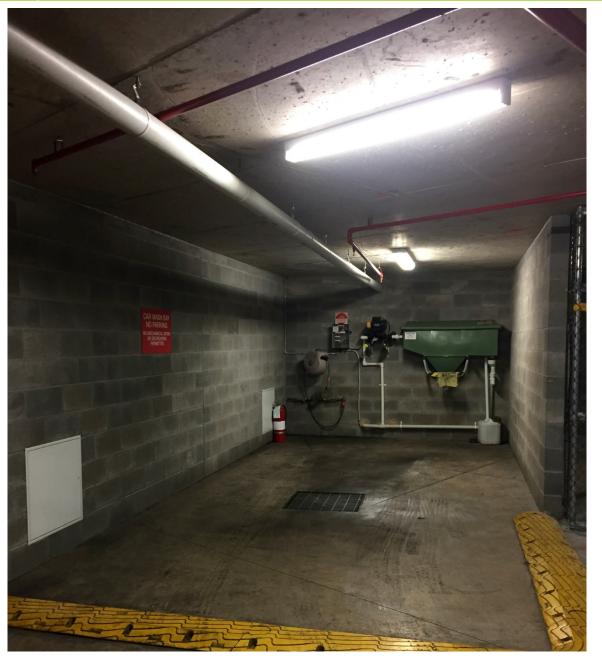
Strata buildings have extensive basement carparks



Visitor parking is scarce and policed



Car wash bays are not ideal for electric vehicle charging



Loading bays are better for charging (after hours)



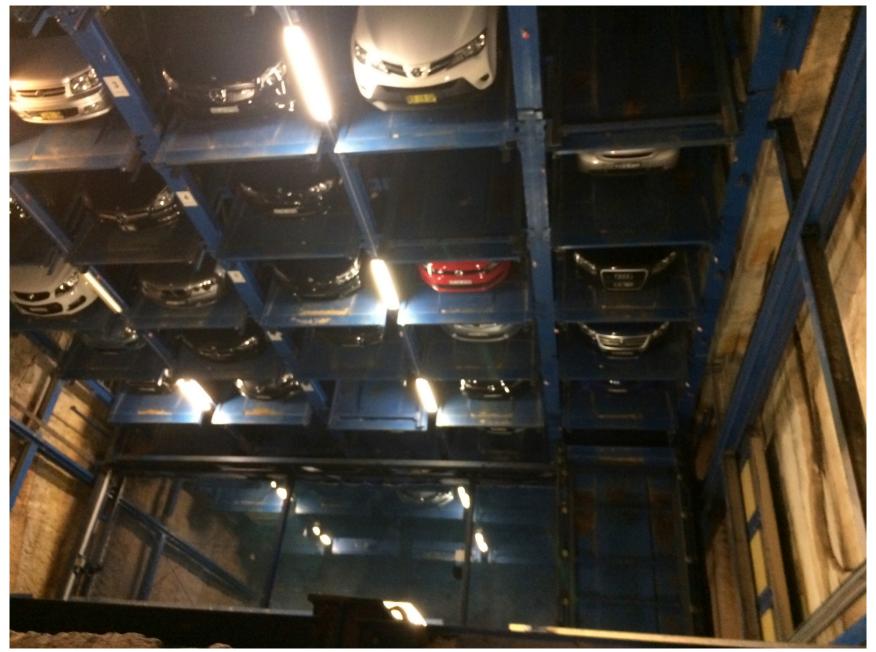
EV's in carshare spots in strata are a possibility



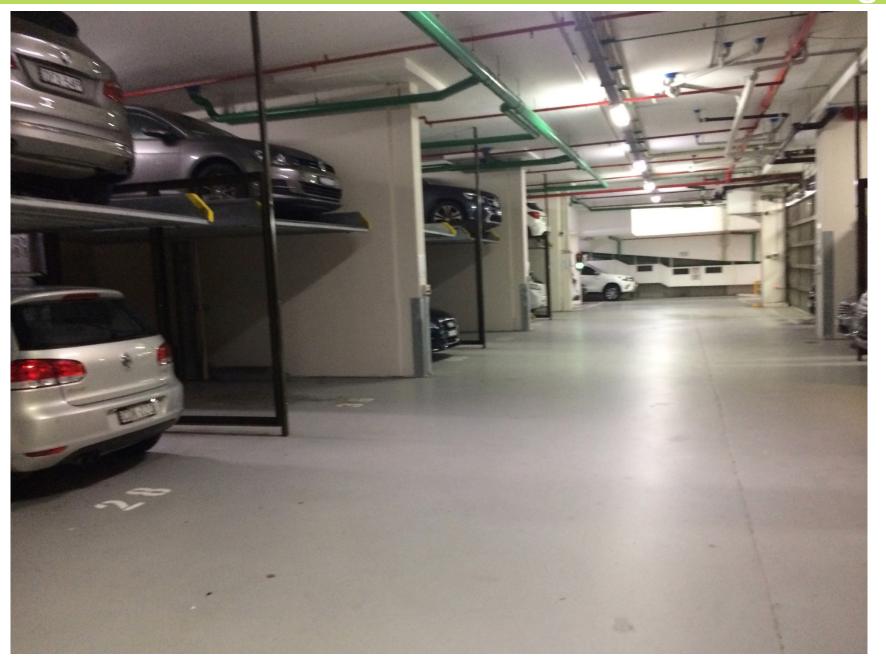
City of Sydney land in strata carparks could be used



Large car stackers make EV charging difficult



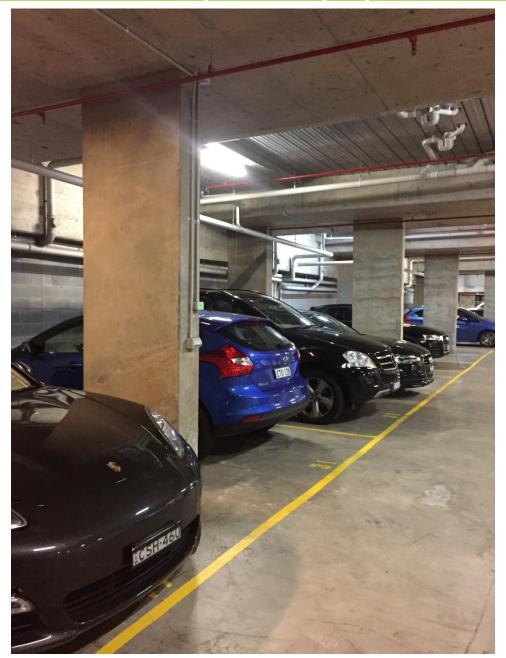
Individual lot car stackers can be retrofitted with charging



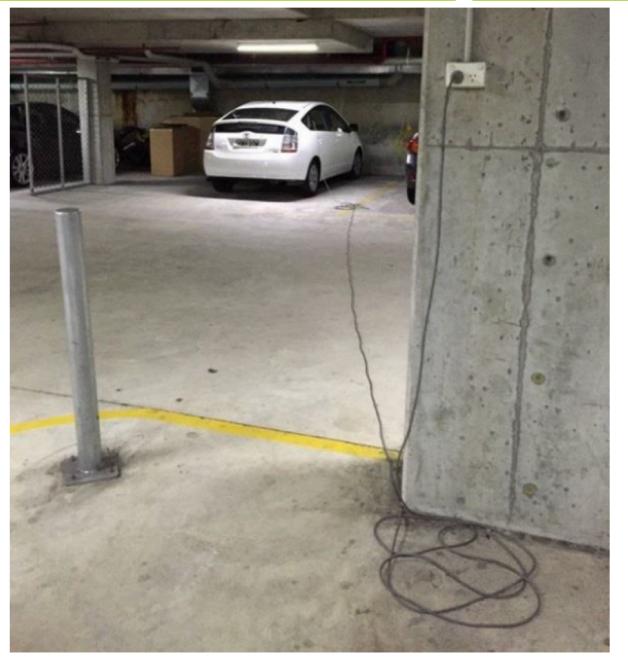
Hybrid electric vehicles are getting more popular



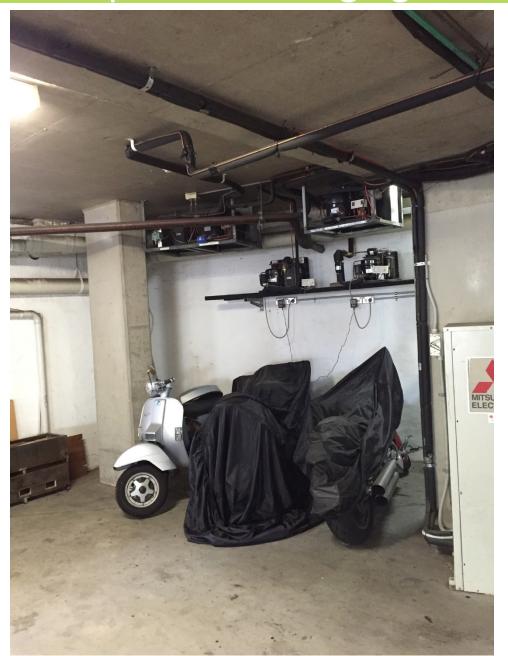
General power outlets (10amps) are in some stratas



Today, hybrid vehicles are stealing common power



Similarly, electric mopeds are charging on common power



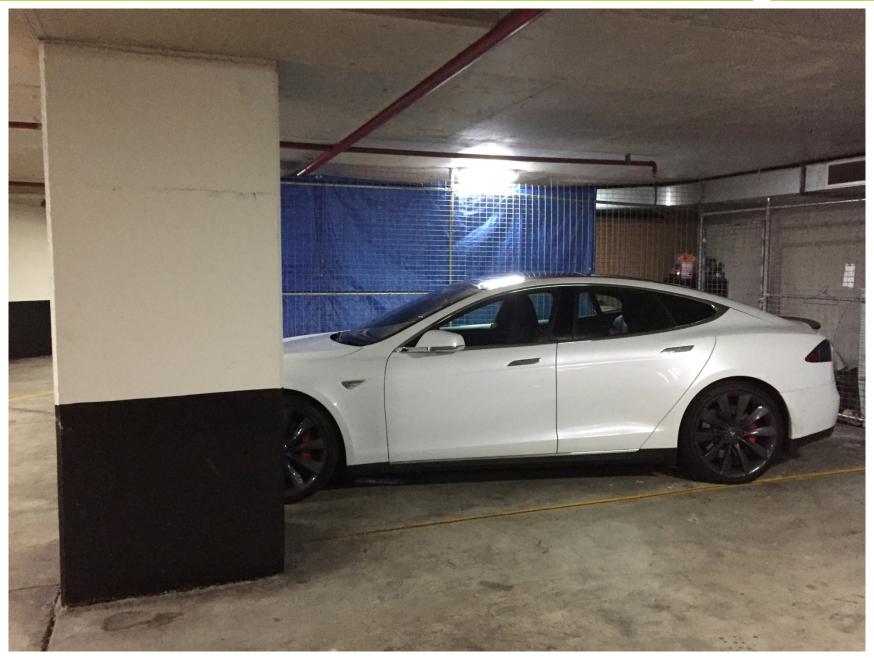
Full electric vehicles are charging slowly...



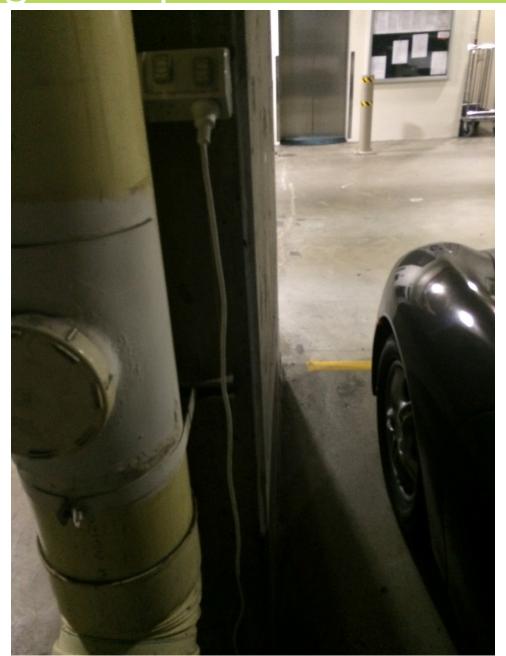
...with power cable going to 10amp power outlet on roof



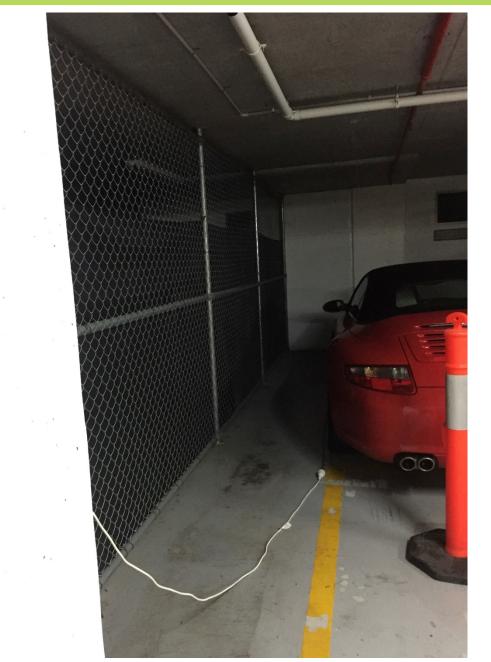
Electric vehicles are often unable to charge at all



A metered general power outlet can be installed



...but extension leads on the floor are unsafe



EV owners need to charge outside their strata



Early adopters charge at 40amps, limiting resources



Some existing switchboards will need upgrading



Developers need to put cable trays in strata carparks



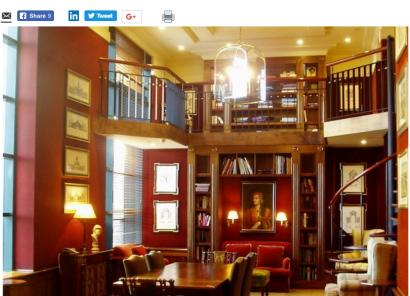
Building Managers are on board



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Age no barrier as Observatory Tower outperforms younger buildings



Willow Aliento | 9 November 2017

Age is no barrier when it comes to improving multi-residential building performance. When smart management works with a committed owners corporation, major gains can be made without breaking the capex budget, as one premium Sydney apartment building has shown.

Glen Webber has been the building manager of Observatory Tower in Millers Point for the past 17 years. The multi-residential building comprises 199 apartments, 60 per cent owned by owner-occupiers.

The tower was originally the 20-storey IBM commercial office building, and was refurbished and extended 21 years ago into a 27-storey apartment tower with a retail courtyard at ground level.

When he first took over the management, Webber says the property had many opportunities to improve on its energy performance.



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Some property developers are on board



Focused on Sustainability

Genesis Shepherds Bay values and has put emphasis on being a truly sustainable development. The development will have a focus on energy efficiency, renewable energy, water efficiency and communal green roof at the core of its design. Whilst developing a sustainable building is important for the environment it also has direct benefits to the owners with 'green buildings' enjoying lower operating costs which drives additional value into the units.

Some key elements of sustainability at Genesis Shepherds Bay are:

- A community solar system which can share solar power inside individual apartments
- · Smart metering allowing all residents to bulk-buy electricity together, saving money
- Ready for electric vehicle recharging
- Carbon emissions reduction equivalent to planting over 2,000 trees, 7 times the national target for 2020
- Wattblock 5-Star energy rating

Click here to download the full WattBlock Building Report



The study went national

115 apartment blocks have participated so far.

900+ residents within those apartment blocks have participated.

Participants from:

- Sunshine Coast
- Brisbane
- Gold Coast
- Sydney
- Melbourne
- Perth (coming soon!)

Provided input to:

- City of Melbourne
- City of Perth
- North Sydney Council
- Kuring-Gai Council
- NSW Department of Industry
- Department of Planning, Lands & Heritage (Western Australia)



More information



Brent Clark

Director, Wattblock

0414 900 515

brent.clark@wattblock.com.au

wattblock.com/publications

Twitter @wattblock

