EV CHARGING GUIDE FOR STRATA

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Middy's Electrical lead the way in new technology and energy efficiency products.

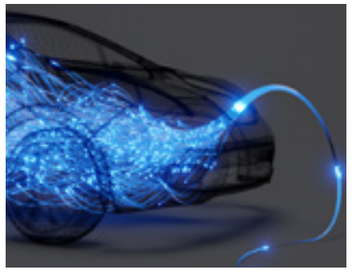
Our focus on ensuring customers have access to quality products and the right solutions has resulted in Middy's partnering with the market leading suppliers in Electric Vehicle (EV) charging technology.

We have trained specialists throughout our national branch network who can assist with your current and future needs on e-mobility. The Middy's team will assist your customer to understand factors that need to be considered when deciding on the right EV Charging solution for STRATA.

EV charging within a STRATA complex provides unique challenges that need to be considered and decided on early within the buildings e-mobility transition to ensure the best value solution from both a user and financial standpoint are delivered.

Some of the key things are:

- Energy usage and cost recovery
- Potential EV uptake amongst tenants
- Software requirements for load management and user authentication



Approach considerations when connecting EV supply equipment

There is no single approach, but the following considerations can help you select the right strategy for your building.

	Individual approach No existing EV charging infrastructure	**Individual approach** Use existing circuits and meter	**Shared common property car spaces approach**	**Modular approach**	**Whole of building**
When is it appropriate?	Charging left to owners, and no distribution box or meter is adjacent to car spaces.	Charging left to owners, and distribution boxes and meter are adjacent to the car space.	OC is willing to assign shared common property car spaces for EV charging.	OC wants a planned collective approach for EV charging that is developed in stages.	OC wants to retrofit the building to be ready for all owners having EVs.
How does it work?	Electric Vehicle Charger is in individual lots. Owner installs and owns EV charging infrastructure and Electric Vehicle Charger.	Owner installs and owns Electric Vehicle Charger and uses existing electrical circuits. Owner may have to pay for interlock switches to share existing circuits.	OC assigns some common property car spaces for shared EV charging. Requires a scheduling system to manage resident use of the EV charging station.	Electric Vehicle Charger is in individual lots. EV charging infrastructure consists of modular EV readiness box(es). Each box supports charging for 6 EVs.	Electric Vehicle Charger is in individual lots. EV charging infrastructure is installed with the capability to service at least one existing resident car space per apartment. Some common property car spaces may be assigned for shared EV charging.
EV supply equipment (EVSE)	Owned by resident and installed in their individual lot.	Owned by resident and installed in their individual lot.	Installed in common property car spaces, called an EV charging station and owned by the OC.	Owned by resident and installed in their individual lot.	Owned by resident and installed in their individual lot. Could include EVSE in common property car spaces and owned by the OC.
Charging level and speed	Level 1 - Up to 10km per hour of charge. Level 2 - Up to 40km per hour of charge.	Level 1 - Up to 10km per hour of charge. Level 2 - Up to 40km per hour of charge.	Level 2 - Up to 100km per hour of charge. Level 3 - Up to 250km per hour of charge (based on 50kw Charger and dependent on the building electrical capacity).	Level 2 - Up to 40km per hour of charge.	Level 2 - Up to 40km per hour of charge.
Recommended load control	None.	None.	None.	Yes - Managed output based on time of use.	Yes - Managed output based on time of use.
Payment and usage billing options	Resident Responsibility.	Resident Responsibility.	Managed by OC or outsourced. Can be recouped from users.	Billing feed from readiness box. Managed by OC. Operational charges recouped from users.	Billing feed from system. Managed by OC or outsourced. Operational charges recouped from users.
Funding – capital cost	Owner pays.	Owner pays.	OC pays. May recover costs via access fee.	OC pays. May recover cost over time from users. Owner pays for connection and EVSE.	OC pays. May recover cost over time from users. Owner pays for connection and EVSE.
Cost estimate including installation Note: Installation costs vary significantly between buildings	$2,000 to $20,000 including Electric Vehicle Charger.	$2,000 to $10,000 including Electric Vehicle Charger.	$20,000 to $50,000 including Electric Vehicle Charger.	$5,000 to $7,000 per box for the EV charging infrastructure. $2,000 to $3,000 per connection, including Electric Vehicle Charger.	$75,000 to $200,000 for the EV charging infrastructure. $2,000 to $3,000 per connection, including Electric Vehicle Charger.

For info on EV Solutions to submit an inquiry to our expert team visit: **middys.com.au/ev-solutions**