



# Electric Vehicles & Active Travel



# Health and Economy





**Central Location!**





Stenhousemuir

Carron

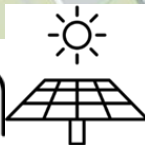
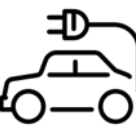
Falkirk

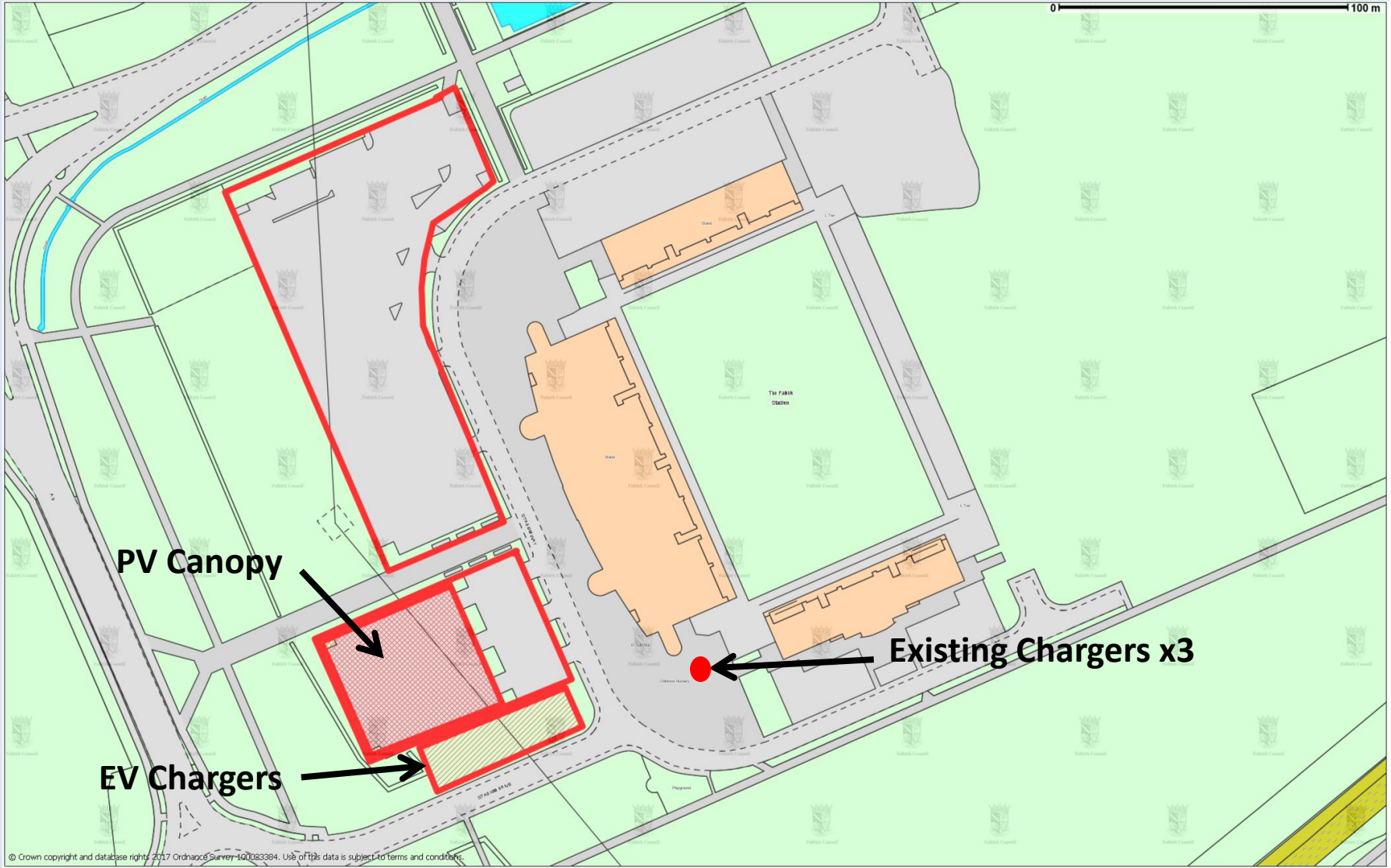
Grangemouth

Westquarter

Redding

Polmont





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# EV Hub Design Components

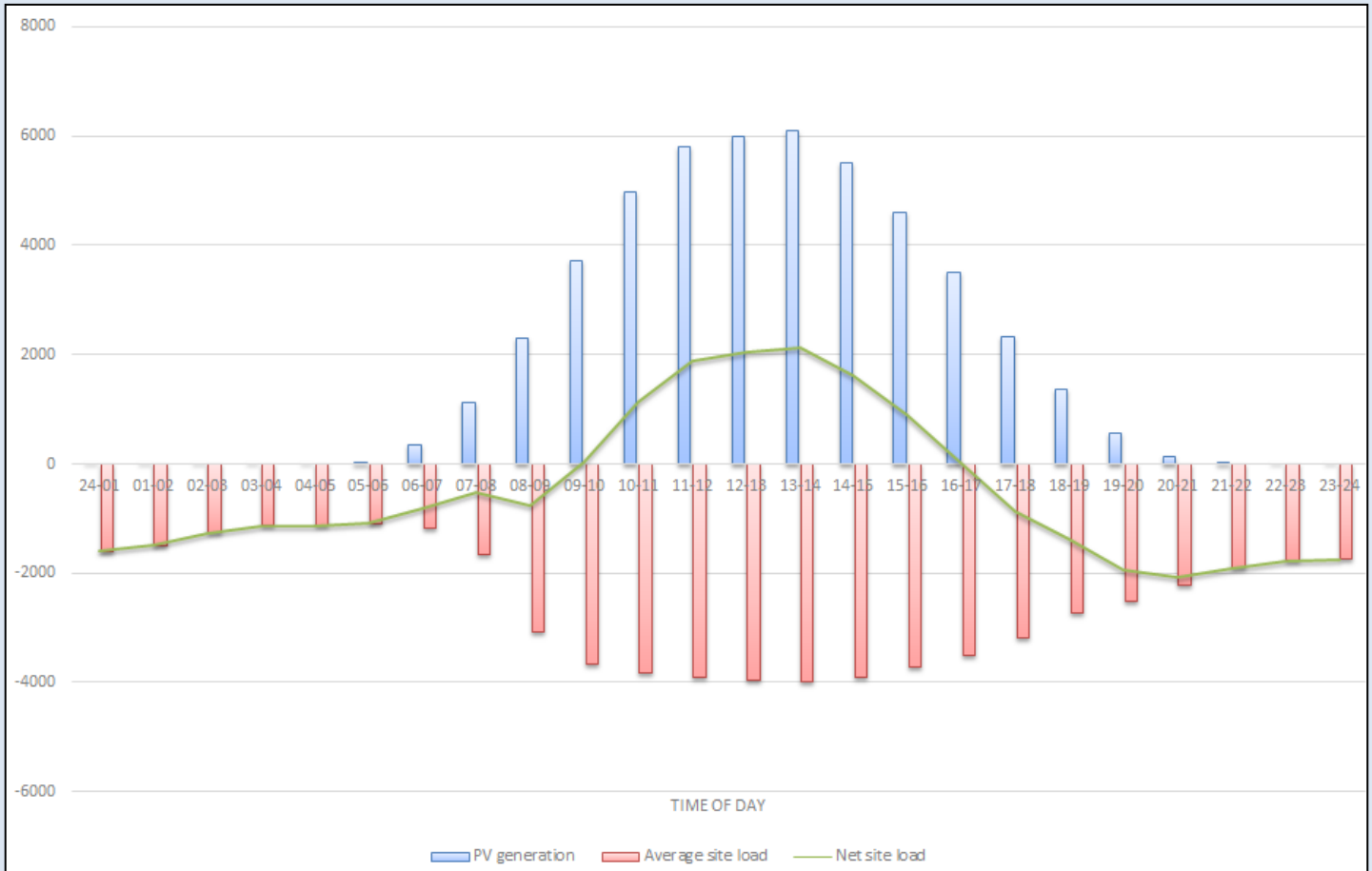
- Solar Canopy to generate
- Battery to store
- Local Connection to cut bills
- Grid Connection to export
- Charging points (10 double)
- Bays for parking (20)



# Instant Parameters

Peak output from canopy	371kW
Peak demand (all bays full on charging)	504kw
Battery Output	max 132 kWh
Battery Capacity	180kWh
PV canopy	156 Bays / 2300m <sup>2</sup>
Rapid Chargers	50kW
Fast Chargers	22kW

# June – Demand Red PV Gen Blue kWh





# Jan – Demand Red PV Gen Blue kWh



# Annual Parameters

Yr1 Capex	£741,000
Operating costs	£9,000 pa
Demand Assumptions	- low 10 per day / 170,000 kWh pa - high 19 per day / 390,000 kWh pa
Canopy production	300,000 kWh pa
Baseload of stadium complex	800,000 kWh pa
Cost of imported electricity unit	10.8p
Value of exported electricity unit	6.8p
Annual net benefit	£60-80K

# Active Travel Hub

- Best Practice led – National exemplar in Stirling
- Location – high street location
- Multifunction location



# Developing the message right

- Cycling is easy and walking is even easier
- Cycling & walking can save you money
- Active Travel is good for your health and that of other people
- Driving an electric vehicle isn't a game of chance
- Electric Vehicles can be affordable (car clubs, leased batteries)
- Electricity is cheaper than petrol / diesel (or free)
- Cycling and walking from the Kelpie and Wheel visitor attractions to the town centre is easy
- We're working to add more facilities



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