

Case study - Inchcape UK



A solar PV system for BMW dealership

Client: Inchcape are one of the leading franchised retailer groups in the UK, partnering with many of the world's leading brands including, Audi, BMW, Jaguar, Land Rover, Mercedes-Benz, Toyota and Volkswagen.

Requirement/Challenge: In line with their sustainable development strategy, which aligns with their ambitious objective of reducing global CO2 emissions by 46% by 2030, Inchcape has pledged to boost the proportion of electricity derived from renewable tariffs. They also intend to install and measure peak power output from on-site renewable sources such as solar photovoltaics (PV), ground- and air-source heat pumps, and implement energy-efficient measures to reduce overall electricity consumption wherever possible. Inchcape commenced the process by introducing three initial test sites, each necessitating the installation of a solar array.



Outcome: Following a robust tender process, Geo Green Power was entrusted with the initial three project roll-out, starting with the BMW Norwich Dealership (a bustling BMW and Mini car dealership that sells new and used cars and provides servicing). The installation was finished within two weeks, and included **526 panels**, four inverters, and all necessary cabling and mounting. This system is estimated to generate approximately **180,000kWh** of electricity annually and save over **60 tonnes** of CO2 each year.



Sector: Retail



System size: 200kWp



Electricity generation: 180,000kWh



CO2 savings: 63 tonnes



Savings: £1,521,210.00



Payback period: 4 Years

"The installation process was absolutely spot on – from start to finish. Before the install a representative came over to our site and talked me through the process explaining all of the timescales in terms of when the install would take place and how long the team would be on site... from start to finish – it went very smoothly and there was no impact to us whatsoever."

MARK AMES | HEAD OF BUSINESS



David Tyler, Director of Estates and

Facilities commented: "Following the tender process we were delighted to award our initial contract to Geo Green Power for our trial sites. The process was incredibly smooth from start to finish and our first sites are now enjoying free, green electricity, protecting them against the huge increase in electricity costs that we are seeing. The obvious next step was to crack on and get the same solution installed at more sites."

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All sites completed for Inchcape

Inchcape dealership	Installed kWp	Output kWh	Expected Consumption kWh
Merc Derby	138	114,956	86217
Audi Hyde	49.5	38,066	28549.5
Audi Macclesfield	94.5	69,364	52023
Audi Stockport	243	135,432	101574
Audi Tetbury	102.75	89,148	66861
BMW Chelmsford	49.5	40,836	30627
BMW Mini Ipswich	50.25	42,510	31882.5
Bravoauto Stoke	75	61,800	46350
JLR Derby	237.75	200,106	150079.5
Lexus Derby	73.92	59,688	44766
Merc Liverpool	140.25	110,484	82863
Merc Cheshire Oaks	171.75	138,344	103758
Merc Coventry	240	200,232	150174
Merc Nottingham	120	97,320	72990
Merc Warrington	197.25	94,735	71051.25
Porsche Bournemouth	34.5	31,354	23515.5
Toyota Burton	49.5	40,316	30237
Toyota Derby	114	91,088	68316
Toyota Nottingham	63.75	49,152	36864
Toyota Sandhurst	91.5	73,892	55419
VW Stockport	50.02	135,432	101574
VW Wirral	49.5	39,080	29310
JLR Chester	123.375	93,720	70290
VW Telford	99	81,996	61497
BMW Norwich	200	179,880	134910
Mercedes Oxford	228	231,408	173556
Porsche Portsmouth	76	70,604	52953
Bravoauto derby	54	45,414	34060.5
Bravoauto Halifax	70.5	51,095	38321.25
Mercedes Loughborough	51	41,506	31129.5
Audi Swindon	118.9	102,849	77136.75
VW Bolton	50	41,524	31143
VW Exeter	50	48,560	36420
VW Chester	400	291,664	218748
BMW Mini Reading	112.34	102,375	76781.25
Toyota Basingstoke	131.2	111,912	83934

