

32,147.30 miles converts to 12.65 tonnes co2 - Business Land Travel (0.30945) + WTT (0.08405) - conversion factors based on medium sized petrol vehicles

Offsetting Grey Fleet

Solar PV Impact : Offsetting Grey Fleet (staff & Councillor own car use for business travel)

System Sizing by Area

Area required	225 m2
Estimated capacity	45.00 kWp

System Capacity & Export

PV system chosen capacity	45 kWp
Solar collection factor (shading)	100 %
Current electricity tariff	15.9 p/kWh
kWh used on-site (offset)	100 %
Deemed export rate	0 %

Exported Generation

Bonus for exported units	5.5 p/kWh
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Generation Breakdown

- Annual Generation	40,500 kWh
- Offset units	40,500 kWh
- Exported units	0 kWh

Annual Revenue Breakdown

Export bonus payment	£	-
Potential Import savings	£	6,419
Total Benefit	£	6,419

Economics

Full installed COST	£	36,000
Cost per kWp	£	800
Basic ROI		17.8%
Simple Payback		5.6 years

Panel Data

Panel type	Mid Performance
Specific peak output	200 W/m2
Annual output	900 kWh/kWp

Scenario Details

Scenario	T/CO2e	Equiv Elec kWh
Projected 2030 emission factor	3.88	
2019 emission factor	12.65	40,034

Likely Installed Costs (excl. any necessary infrastructure costs)

Solar PV - 25kW+	£	1,000 /kWp
Solar PV - 100Kw+	£	800 /kWp
Solar PV - 250kW+	£	700 /kWp