Offsetting Water

Solar PV Impact : Offsetting Emissions from Water consumption

System Sizing by Area

Area required	40 m2
Estimated capacity	8.00 kWp

System Capacity & Export

System Capacit	y & Export
PV system chosen capacity	8 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	5 5 n/k\\/h
exported units	5.5 p/kWh

Generation Breakdown

Generation breakdown		
- Annual	7,200	kWh
- Annual Generation	7,200	KVVII
- Offset units	7,200	kWh
- Exported units	0	kWh

Annual Revenue Breakdown

Potential Import savings Total E 1,14	· ·
Potential Import	14
Potential Import	41
payment	11
Export bonus payment £ -	•

Economics

Pavback	7.0 years	
Simple	7.0	
Basic ROI	14.3%	
Cost per kWp	£ 1,000	
Full installed COST	£ 8,000	

Panel Data

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

CO2e Off-set Scenario

Scenario (Highlighted in Bold & Underlined)	T/CO2e	Equiv Elec kWh
Projected 2030 emission factor	0.64	
2019 emission factor	6.92	6,582

Likely Installed Costs (excl. any necessary infrastructure costs)

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