

Harnessing community energy

Ali Abbas

GM Community Renewables

Alison Brittle

Saddleworth Hydro

John Corrigan

Diocese of Salford



GM Community Renewables

Ali Abbas

COMMUNITY ENERGY



OUR PARTNERS



COMMUNITY BENEFITS

Solar power
generated:
2,000 MWh[^]

[^] Enough to make
over 100 million
cups of tea

Carbon
savings:
740 tonnes*

* Equivalent to
driving a petrol car
3.7 million miles

Bill
savings:
£184,000

Community
fund:
£60,000

Saddleworth Hydro Alison Brittle

Saddleworth Community Hydro



Approximate
position of
Turbine and
power house

Head: (pressure in metres) Effective head 28m,
Available 90% of the time.

Flow: UU must provide compensation of
185 litres/ sec to Chew Brook.

Generates average 40kW - about 120 homes



What are our aims?

- To generate sustainable energy
- To reinvest surplus income into community projects
- To promote sustainable energy



How did we do it?

- An Inconvenient Truth 2008
- Influential Supporters
- Steering Committee
- Finance
- Dogged persistence with UU
- Shareholders must have money they can afford to lose.
- Volunteers maintain turbine, do admin, allocate grants.

Diocese of Salford

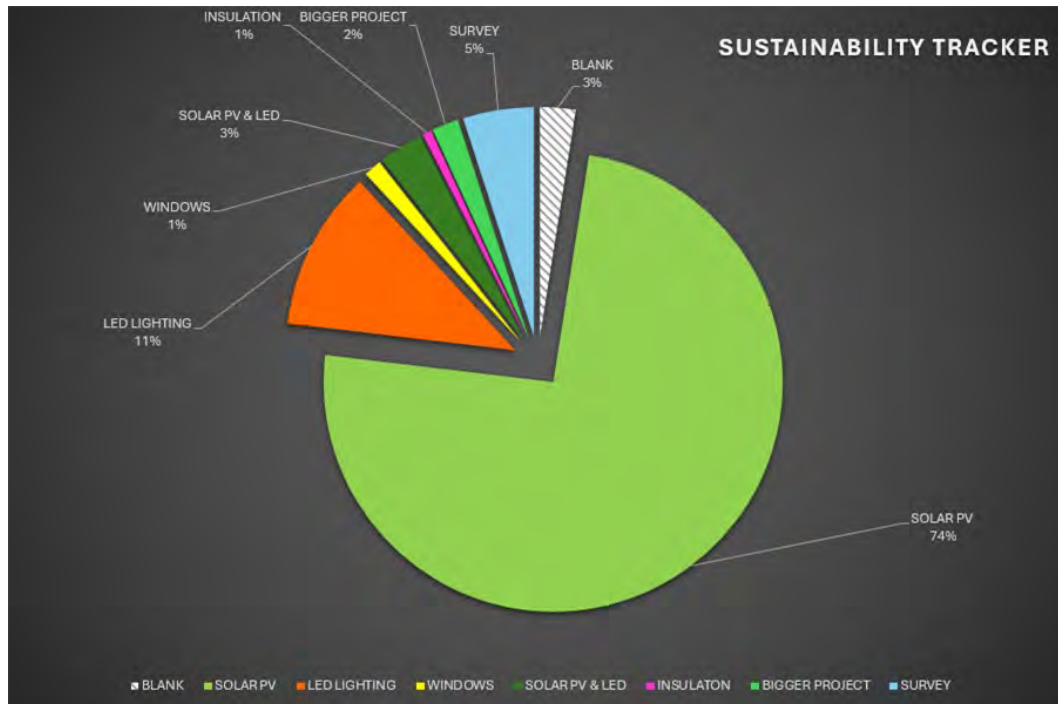
John Corrigan

Sustainability Project

- To install Solar PV across our school estate
- Piloting monitoring at one high school
- Finalising a SEG with SSE
- Installed meter online at over 70 schools
- Working with Manchester innovation agency to look at new technologies - Passiv Glas; Cork Sol and other tech.



Sustainability



Total Allocation	Spent to date		
£3,262,910.29	£3,084,843.68		
UNSPENT/UNALLOCATED	£178,066.61	BLANK	4
% SPENT/ALLOCATED	94.54%	SOLAR PV	119
		LED LIGHTING	18
		WINDOWS	2
		SOLAR PV & LED	5
		INSULATION	1
		BIGGER PROJECT	3
		SURVEY	8
		TOTAL	160



- Installed 127 solar PV arrays
- Total Install circa 2 Megawatts
- Total yield since first install (Easter 2023) circa 1.5 Gigawatts
- Current saving to schools circa £337,500
- CO2 avoided 1500 tonnes
- Equivalent of circa 800 trees planted

Thank you

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