



AgroRES
Interreg Europe



European Union
European Regional
Development Fund

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J & M Dairies Solar PV Installation

Problem addressed

Significant electricity costs for pumps, lighting and cooling systems:

- >€6,000 per year
- Milking 130 cows twice daily, washing out milking machines

Dairy farm sites and buildings are often well suited to solar energy, but owners require trusted and independent guidance to explore the appropriate options.

Sought support from 3 Counties Energy Agency (3CEA) – assessed the electricity profile and proposed a 10kW Solar PV solution.



J & M Dairies Solar PV Installation

Renewable Energy Solution

9.54kW Solar PV array. The installed system provides approx. 40% of the total electricity demand for the farm:

- Annual energy generated = 10,499 kWh
- Annual savings = € 1,889.76
- Annual CO2 savings = 4.3 tonnes
- Public intervention: 30% grant for capital costs from the SEAI Community Grant scheme (<https://www.seai.ie/grants/community-grants/>)



Polecat Springs Group Water Scheme Solar PV

Problem addressed

The GWS Water Treatment Plant consumes approx. 120,000 kWh of electricity each year:

- Pumping treated water to reservoir
- Distance 7.5km
- Lift 78m
- Volume 450 m³/day (average)



Polecat Springs Group Water Scheme Solar PV

Renewable Energy Solution

50kW Solar PV array (Data for first 7 months, Dec 2019 – June 2020):

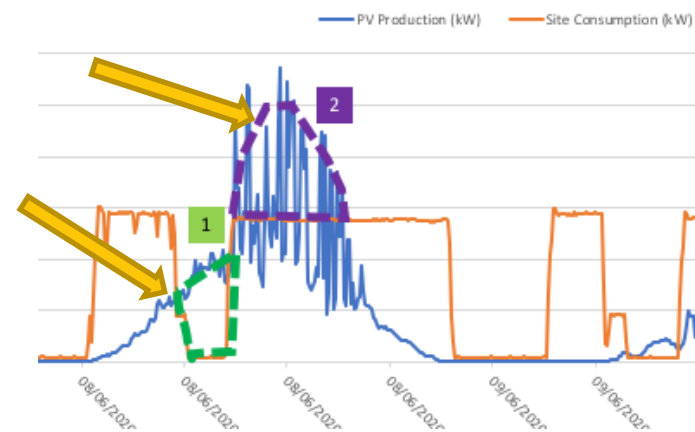
- 27,000 kWh
- 8,900 tonnes of CO2 avoided
- Public intervention: 30% grant for capital costs from the SEAI Community Grant scheme

(<https://www.seai.ie/grants/community-grants/>)



Challenges & next steps

- No revenue for excess electricity – optimise on-site use
- Explore increase to community owned grid scale generator C. 3MW)





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Thank you!

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Questions welcome



Project smedia