

Overview: Community-led renewable energy project



Involves building a small renewable energy generation facility with a Maximum Export Capacity (MEC) between 0.5 MW – 5 MW.



Incentivises community involvement in the energy transition.



Well-suited in rural areas, delivering on national policy goals of climate action, rural regeneration, social cohesion, capacity-building and community development as well as ensuring that local communities benefit.

Government support schemes

- Small-scale Renewable Electricity Support Scheme (SRESS)
 - Provide a simpler route to energy market for community-led projects.
 - Provide end-to-end support to create a community energy sector.
 - Provide capital grants for 2 categories of small-scale users:

 - Community/Local/SME projects between 1MW-6MW renewable energy projects.

Support Scheme for Renewable Heat (SSRH)

- Fully incentivise the development and supply of renewable heat.
- 2-way support namely:
 - Operational-aid (for use of biomass and biogas for heating systems).
 - Installation grant (for investment in heat pumps).

Tier	Lower Limit (MWh/yr)	Upper Limit (MWh/yr)	Biomass Heating Systems Tariff (c/kWh)	Anaerobic Digestion Heating Systems (c/kWh)
1	0	300	5.66	2.95
2	300	1,000	3.02	2.95
3	1,000	2,400	0.50	0.50
4	2,400	10,000	0.50	0.00
5	10,000	50,000	0.37	0.00
6	50,000	N/A	0.00	0.00

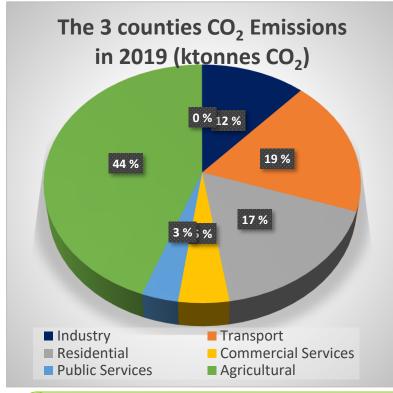
Templederry Community wind farm

- Ireland's first communitydeveloped and owned windfarm.
- Delivers 4.5MW of renewable electricity; powers 3,500 homes annually.
- Project cost c.€6.2m
- Generate €1.0 €1.4m per annum for Templederry Community Group in Co. Tipperary, Ireland.





Bioenergy in South East region



Biogas potential production of 3 counties in SouthEast

752 GWh

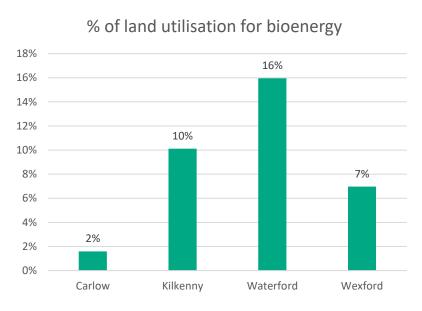
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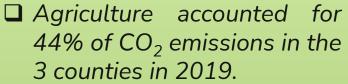
300 GWh

Potential biogas production from 3 counties

 % overall energy supply to meet total primary energy requirement (TPER) of 3 counties.

Beneficiary Energy savings since 2013 through Energy Efficiency and demand reduction in business, community, and homes





☐ Represents 32% of Ireland's total GHG emissions.



AVERAGE HEAT CONSUMPTION OF THE TOP10

Bioenergy Projects

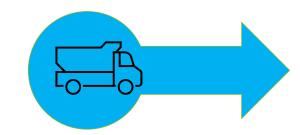




Ormonde Upgrading Limited (OUL) produce and transport the bio-gas (biomethane) for community & fuel for fleet.













Kilkenny: Machinery Yard Fuel type: Natural gas Heat consumption: 123,303



Wexford: Fire Station Fuel type: MGO/LPG

kWh

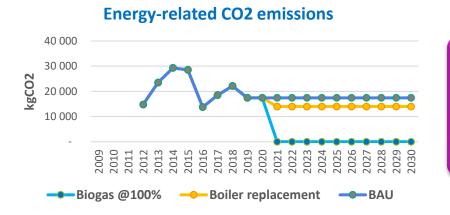
Heat consumption: 73,964 kWh



Carlow Fire Station Fuel type: LPG/Heat Pump Heat consumption: 65,303 kWh

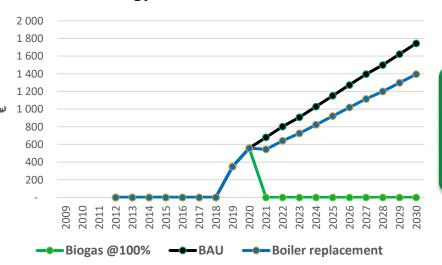
Benefits & good practices

- Local communities have the opportunity to own a stake in largescale renewable energy initiatives through a co-ownership structure.
- Revenue re-investment along the energy value chain (e.g., community-based virtual power plant for electricity trading, utilityscale solar projects etc.)
- Develop creative benefit mechanisms (near neighbour payments, community benefit funds) to increase local acceptance of renewable energy development.
- Develops local amenities, contracts local firms during construction, and creates long-term jobs.



Biogas has zero associated carbon (100% CO_2 offset) for its production and utilisation.

Cost energy-related CO2 emissions



Carbon tax reductions of €16,363 projected over 10-year period to 2030.

Challenges

\$

Financing: Financing community-owned wind energy projects can be difficult. These projects frequently necessitate large upfront funding, which can be difficult to get.



Planning permission: Planning process is usually complex and time-consuming process. Community-owned initiatives face additional challenges as they may not have the same level of resources and expertise as larger project developers.



Grid connection: RE developers struggle to access the energy grids due to few connection points, limited grid infrastructure & system constraints.



Energy market: Competitive auction process & high energy prices affect community-owned projects as they cannot compete with private-led projects.

Upcoming community-led projects

Name of facility	Applicant	County	Type of renewable	Maximum Export Capacity (MW)
Barnland Community Solar Farm	Kilanerin-Ballyfad Community Development Association CLG	Wexford	Solar	0.65
Coolnagloose Community Solar Farm	Coolnagloose Community Solar Limited	Wexford	Solar	1
Glenoge Community Solar Farm	Glenoge Community Solar Ltd.	Wexford	Solar	4.99
Graigue Beg Community Solar Farm	Graigue Beg Community Renewables Ltd.	Wexford	Solar	4.99

