

# Mohill Sustainable Energy Community, Co Leitrim Ireland

This renewable energy feasibility study was undertaken to investigate the potential of renewable energy at 11 locations in Mohill, Co. Leitrim, Ireland.

The renewable energy technologies that were investigated as part of this feasibility study were bioenergy, wind, solar PV, solar hot water, heat pumps, and hydro.

Significant energy users (SEUs) are a key characteristic of energy performance. All types of energy consumed and energy-using plant, equipment, fixtures and fittings within the business were investigated. The different categories of plant and equipment that use energy were identified.

## Aims

The goal of this Feasibility Study was to determine which renewable technologies would be more feasible at each of the 11 locations to reduce energy costs and GHG emissions.

## Results

The analysis consisted of defining the property, functioning and ener-

gy output of each renewable energy technology.

Base loads, energy costs and pay-back period were analysed at each of the 11 locations.

All of the locations were using oil or gas to heat the premises, therefore there is an opportunity to displace the fossil fuels that are currently consumed.

Effective energy management can result in the following benefits for the organisation:

- Annual cost savings
- A reduced carbon footprint
- Increased knowledge of energy and environmental issues among management and staff
- Enhanced business credentials

## Next Steps

Funding options now need to be assessed at each of the locations. Grants are available in Ireland through the Better Energy Communities programme that is run by the Sustainable Energy Authority of Ireland.

Grants of up to 50% are available for community groups and 30% for SMEs.



## Highlights

- All premises had potential for energy savings
- Potential annual energy saving of €32,500 by moving to a wood chip boiler in a hotel
- Heat pumps suitable for some of the locations
- Solar PV is a viable option at all locations



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