



# Case Study

## Community Wind Energy Development - Templederry

### Summary

One of the key issues affecting wind farm development is the acceptability by the local community. It is widely thought that this can be overcome by the community getting involved in the wind farm, and benefitting directly from the green electricity being generated, and therefore Community Ownership is critical to the future of wind farms in Ireland

One of the key benefits of renewable energy that is often quoted is the ability for these energy sources to be developed at a local level bringing local benefits.

However, it is often the case that this particular benefit can often be the most difficult to maximise. Templederry Community Group in Co. Tipperary, Ireland was seeking to develop wind energy as part of the 'Environmental Protection' goal within their Community Development Plan. A feasibility study was completed on wind energy, the community group then purchased an anemometer and erected this on a site, selected in conjunction with the Tipperary Energy Agency (TEA). The Group finalised a grid connection agreement in Dec 07 from the National Grid Operator, having received planning permission for the erection of 3 x 1.3MW wind turbines in June 2003 and again in 2010 for 2x2.3MW. The group started producing Green Electricity and selling it to the grid in Nov 2012. It is proposed that the project will be 100% owned by the local community with dividends from the project being re-invested to support other community activities. This is the first community owned wind farm in operation in Ireland.

- Community Development Plan
- Wind Energy Idea
- Feasibility Study
- Community Meeting
- Monitoring

1999 - 2003



Conceptual & Feasibility Stage

- Grid Connection
- Planning Permission

2003-2010



Approval Stage

- Power Purchase Agreement
- Financial Agreements

2010



Financial Stage

- Civil Works
- Turbine Delivery
- Erection
- Commissioning

April 2012 - Nov 2012



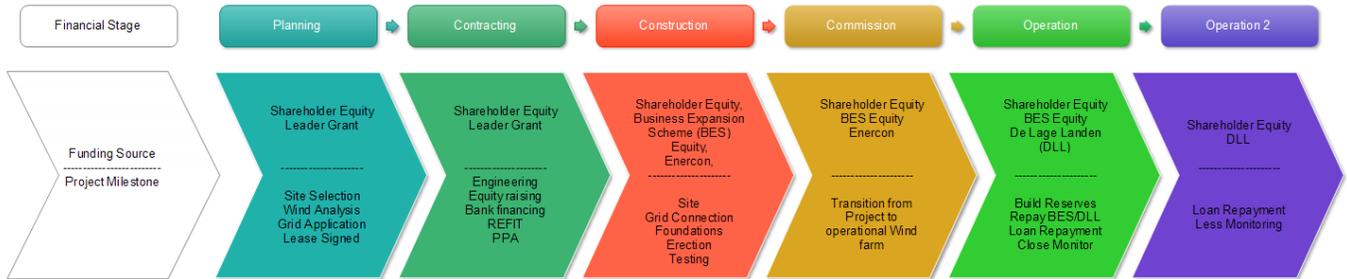
Build & Commission Stage

### Context

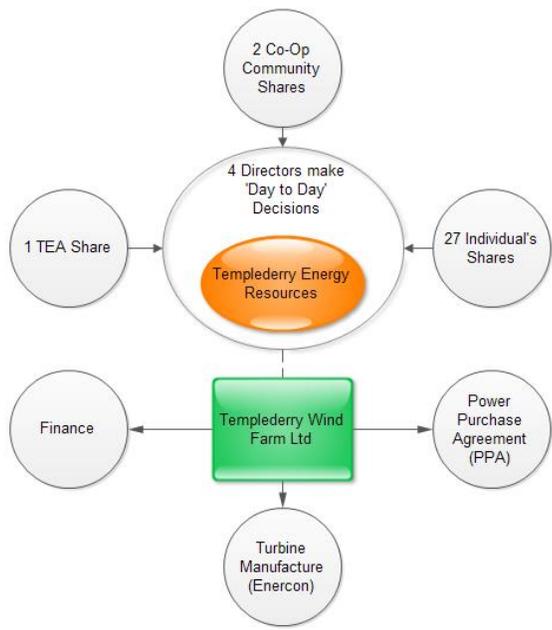
Templederry community is located on the northern edge of the Slieve Felim mountains. It is located between the main urban centers of Nenagh (north) and Thurles (south) in Co. Tipperary. It is suffering from population decline and there are limited local employment opportunities. Four individuals from the community completed a Certificate in Renewable Energy at the Tipperary Institute ([www.tippinst.ie](http://www.tippinst.ie)) and, following from this, sought to develop a wind energy project in the region.



# Case Study



Financial Project Progression



Community Ownership Structure and Equity

The Overall grid connection is 3.9MW. The TEA is a shareholder in Templederry Energy Resources. The Project has been financed with a range of sources including shareholder equity, leader grant aid, Enercon loan, Business expansion Scheme (1.2M) and Project finance from De-Lage Landen (a subsidiary of Rabo-Bank). Currently the wind farm is operating at a capacity factor of 50%, where the national average for Ireland in 2012 was 28%

25 Year analysis	Absolute Value	2012 NPV
Capital Cost	6,200,000	6,200,000
DLL interest	2,660,000	2,236,000
Maintenance, Tax, rates, Lease	11,680,000	6,000,000
<b>Total Costs</b>	<b>20,520,000</b>	<b>14,437,000</b>
<b>Total Income</b>	<b>33,300,000</b>	<b>20,000,000</b>
<b>Total Local Benefit</b>	<b>18,000,000</b>	<b>10,000,000</b>

