Udny Community Wind Turbine



Matt Kaye
Brian McDougall
Mike McDonald

UCWTC

Udny Community Wind Turbine Company Ltd

Garth Entwistle/Brian McDougall

Udny Community Wind Project

- Owned by the entire Udny community
 - Udny Community Trust Co Ltd.
 - Udny Community Wind Turbine Co Ltd.
- initiated by the Community Council (2006)
 - Taken forward by "5" members of the community
 - Supported by: Community Energy Scotland

The Project

Enercon E48

- 800 KVA 80m tip height wind turbine
- Wind Resource: 7.6m/s
- p50 = 34.6% capacity
- p95 = 29.2%
- Earnings @ 28% capacity

Costs

- CapEx £1.40m + VAT
 - + huge amount of time from the "5" drivers
- Original Finance Plan
 - Grant aid: £500,000 + (Big Lottery, CARES/EST, LEADER)
 - Loan of £0.9M from TRIODOS repaid over 10yrs
- New Finance Plan
 - 100% Loan from TRIODOS Bank (Overdraft facility for VAT)
 - Repay all Capital Grant
 - Loan repaid over 4/10/15 years

Returns

Yr (1& 2) – uncertain (front end loading)

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$$Yr(3-10)$$

£100,000 pa. + to Trust
With Feed in Tariff

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$$Yr(11-20)$$

£250,000 pa. + to Trust With Feed in Tariff

Total – cumulative - £4-5m over 20 yrs

Financial support

-to make it happen

Community Council

£3-4,000

SIS – unsecured loan (Grid) £54,000

Planning application + other things:

- LEADER - 50%

£15,000

Big Lottery

£ 6,000

- EST

£ 6,000

- Aberdeenshire Council £ 3,000

Near Neighbours

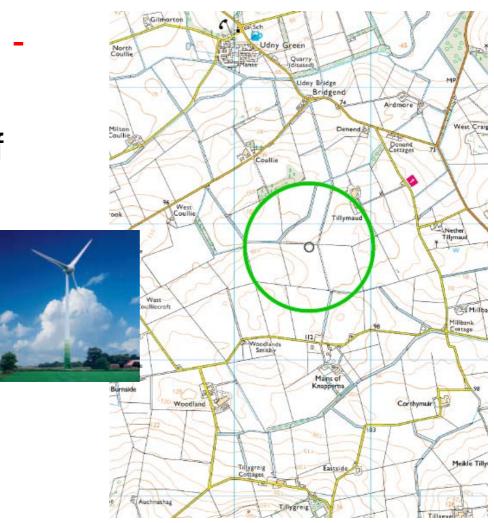
Friends, neighbours - most sensitive

Early presentation of plans

Regular up-dates

Responded to concerns

-micro-sitting –moved turbine toreduce impact



Planning for Real: May 2008

- Well attended 2 Day event
- Diverse views
- Environmental issues incl:
 - Support for wind turbine
 - Energy audits suggested
 - Micro Hydro schemes



Wider Community

- Community Ballot
 - 853 households balloted
 - 460 responses = 54% response
 - 91% in support
- Use of the press to inform
- Open displays to update community
 - Making it Real events May 2008 & March 2011
- Open and honest

Trust – use of funds

- Priority proposals as included in grant applications
- Community Action 50%
- Community Organisations 25%
- Good cause out-with the parish 10%
- Youth scholarships 5%
- Environmental action 10%
- Community Health & Wellbeing

Aim is to improve the quality of life within parish

Final Stages

- Planning Approval December 2009
- Project engineer Green Cat Renewables
- Options appraisal completed
 - Turbine selection
 - Support package ROC or FIT
- Bank finance secured
- Contracts awarded



May 2011



May 2011



Current Position

- Unforeseen Problems/Costs
 - Water Pipes
 - Road Widening
 - Wind!
- VAT accounting periods
- Feed in Tariff (FIT) registration
- Turbine is turning and is in final stages of commissioning
- Fixed price for 3years with smartestenergy
- Trust AGM held and Directors appointed

Next Steps

- Draw down Big Lottery Funds
- Employ a Development Officer
- Validate/Authorise Projects
- Get some early wins
- Continue working with Schools
- Keep the community informed

Conclusions

- Other Community Groups should do this
- 100% or in joint ventures with other parties
- Communities can pro-actively take ownership of their wind resource
- Ownership makes a considerable difference to attitude

Further Information

Contact information

- Garth Entwistle garth.entwistle@gmail.com

– Matt Kaye mattkaye@oceangrove.co.uk

- Mike MacDonald mike.macdonald148@btinternet.com

- Brian McDougall brian.mcdougall@btinternet.com

David Murray dgm@ifb.co.uk