

# northern ireland community energy

# Northern Ireland's Community Energy Co-Ops

### Karen Arbuckle

- Co. Antrim family owned farm
- Long established dairy & beef enterprise
- Location of 1 of the 6 Drumlin Wind Energy Co-Op 250 kW turbines
- NICE Director & Project Manager 2<sup>nd</sup> Phase
- Enthusiast community ownership & empowerment
- Chairperson Co-Operative Alternatives



### What is a Co-Operative?

" an autonomous association of persons united VOLUNTARILY to meet their COMMON economic, SOCIAL & cultural needs & ASPIRATIONS through a JOINTLY **OWNED & DEMOCRATICally** controlled cont. N's a Business enterprise"

### **Co-Operative Principles**

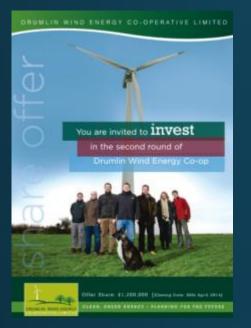
- 1. Voluntary open membership
- 2. Democratic member control
- 3. Member economic participation
- 4. Autonomy and independence
- 5. Education training and information
- 6. Co-Operation amongst cooperatives
- 7. Concern for the community

- Run as robust business
- Board responsible to Co-Op members
- one member one vote Each member has a say in how the business is run
- Members can put themselves forward for election to Board
- Local board elected by members
- All members invited to an Annual General Meeting each year
- Members vote on resolutions
- A proportion of Board members retire each year
- Net profit paid to members as 'share interest'
- Social ethics: responsibility, equality, fairness supports environmental and social goals
- Community benefit fund for local community -Co-op devotes % of profits to 'social' projects locally

# **Community Energy Ownership**

- Traditional energy companies maximise profits
- Community energy co-ops far more decentralised, equitable model – run by the community to benefit the community
- Northern Ireland & Ireland lag behind our UK & EU counterparts in community energy WHY...
  - Geography, infrastructure, environment
  - Planning, legislation
  - Ability to access finance
  - Time & commitment from the community
  - Lack of know how expertise within a community to progress a project.





- Northern Ireland's first wind energy co-operative.
- Share offer 1 raised 3.4 million to build 4 x 250 kW turbines.
- Share offer 2 raised 1.2 million to build another 2 x 250 kW turbines
- 6 turbines erected and now generating.
- Drumlin generates revenue from the sale of electricity & receives income from government 4 ROCs
- Investment min £250 up to max £20k eligible uk tax payers 30% EIS tax relief
- Members projected average financial return 8% before tax, 12% with tax relief.
- £12k community fund per year.



### Turbine Locations

Aghafad, Pomeroy
 Cavanoneill,
 Ballyboley, Larne
 Connor, Ballymena
 Ballyrobert, Ballyclare
 Cavanokill, Newtownhamilton





- N.I's first renewable energy community benefit society
- Share offer 1 raised investment target of £150k
- Share offer 2 to date has raised over £6ok (target is £13ok) closing 13<sup>th</sup>
  September 2016
- Enabling, free of charge, solar PV panel installations ranging between 4 – 20 kW on 3<sup>rd</sup> sector buildings that are used for the benefit of the community in Northern Ireland
- 1<sup>st</sup> phase 13 installations on community buildings totalling 130 kW
- 2<sup>nd</sup> phase a further 5 x 12 kW installations in the pipeline totalling
  60 kW



- NICE will generate revenue from the sale of electricity & receive income from government ROCs
- A community benefit society operates on the same basis as a co-operative
- A community fund will be established & managed for further future energy saving improvements to tackle fuel poverty in N.I.
- 'Asset Lock' and additional proviso
- Minimum investment £250 up to a maximum £20k per individual or organisation
- Investment tax relief:-

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- Share offer 1 only UK tax payers eligible for SEIS tax relief@ 50%
- Share offer 2 Personal Savings Allowance UK tax payers basic rate tax payers receive up to £1,000, higher rate taxpayers up to £500 of savings income, without any tax being due.
- A fair return to investors up to 4% before tax relief.
- A 'share your roof scheme' differs from 'rent your roof'.
- Participating groups enjoy PV generated electricity @ a considerably reduced rate for 20 years.



### NICE INSTALLATIONS



- 1. Mediation NI
- 2. Chinese Welfare Association
- 3. Ashton Centre
- 4. Whitehead Community Association
- 5. Rath Mor Centre
- 6. Londonderry YMCA
- 7. Women's Aid
- 8. NIAMH
- 9. Bryson Recycling
- 10. Ulster Wildlife
- 11. Harmony Community Trust
- 12. Confederation of Community Group
- 13. Mornington Community Project
- 14. TIDAL
- 15. Nerve Centre
- 16. Positive Futures
- 17. Workwest Social Econ Village
- 18. Galbally Youth & Community Group

## **Community Energy Ownership**

Working co-operatively we can achieve community ownership of renewable energy development by:-

- engaging & working in partnership with communities to
  - help them reduce carbon emissions;
  - reduce their utility costs & become more sustainable;
  - showcasing low carbon technologies;
  - provide an economic benefit reinvestment /community fund



#### community owned energy

Renewable technology Energy saving services

#### reinvestment

- Further community energy projects
- Community Energy saving services

Community investment

#### profits

- ROCs,
- energy generation
  income

#### community benefit

- Return to investors
- Community energy cost savings
- Create Community Fund



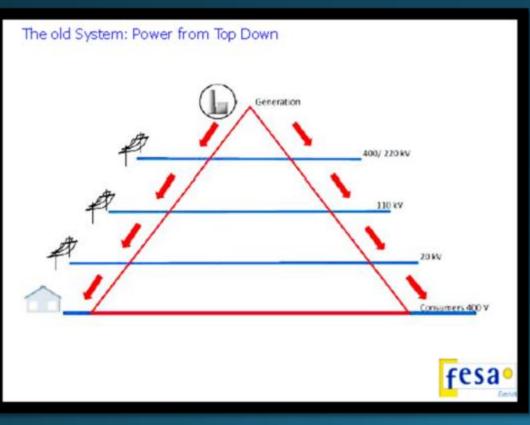


Model Comparison	Drumlin	NICE
Origin - Entrepreneur	Remunerated	Voluntary Unpaid
Project Development & Management	Energy4all	Voluntary Unpaid
Share Offer Development & Admin	Energy4all	BCT Community Shares Ready Project & Co-Op Alternatives
Landowners/ community groups	% of turbine generation	Significantly reduced electricity
Board members – locally elected	Directors fee	Voluntary Unpaid
Investment Capital	£4.8 million	£280 thousand
Members return after tax relief	Up to 12%	Up to 4%
Community Benefit Fund	£12 k per annum	All surplus profits over expenses and investor interest rolled into fund
Total Members	900	111
Percentage N.Ireland	25%	80%
Other		Asset lock



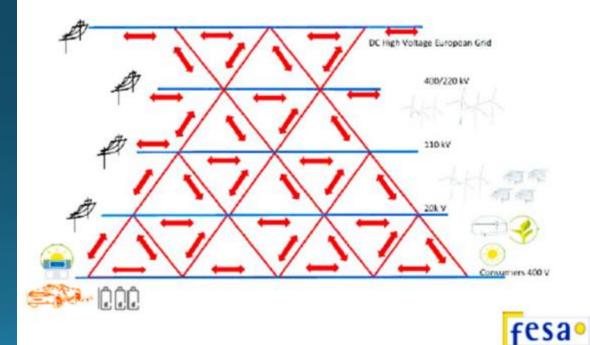
### Infrastructure – Grid

#### Current Grid



#### A diverse grid – capacity & storage

The New Paradigm Renwables - Power from all around; flow in all directions



### Which way now – What is the plan??

- Ireland has natural energy resources in abundance.
- A diverse "smart mix" of renewable energy sources supported by appropriate infrastructure
- Combined with **reduced energy**, used with energy efficiency gains & **energy saving technologies**
- Backed up by Government **policy & planning**.
- Investment
- Education
- Community commitment
- Do quick profits & investment outweigh the cost to life & environment ?



"Imagine fuel without fear. No climate change. No oil spills, dead coal miners, dirty air, devastated lands, lost wildlife. No energy poverty. No oil-fed wars, tyrannies, or terrorists. Nothing to run out. Nothing to cut off. Nothing to worry about. Just energy abundance, benign and affordable, for all, for ever".

• Reinventing Fire by A Lovins.





### **Co-operation not Competition**

### COMUNITY ENERGY run by the comunity to the benefit of the comunity