



Urban Community Energy

Edinburgh – 21st Jan 2012



sheffield renewables

aims & aspirations

A bit about us

We were formed by a group of volunteers in December 2007, and incorporated as a social enterprise in June 2009.

We are... **a community and a social enterprise**, that develops, funds, builds, owns and operates renewable energy schemes.

This means that we are run by and for local people. Any **surplus is re-invested** to support local sustainability. **Much of our work is carried out by volunteers**, which helps build our community and allows us to do a lot with our relatively small income.

Part of a **wider movement of community energy** organisations across the country

Time, Skills and Enthusiasm

Volunteers

Supporters

Investors

Cold Hard Cash

Grants

Loans

Shares

What We'll Achieve

Renewable
Electricity

Carbon
Savings

Sales
Revenue

What are we working towards?

- We work across the city. Everyone who shares our values can feel part of, and benefit from our work.
- Our schemes will help meet city targets for emissions reduction and local renewable energy.
- They also encourage people to work together, to develop valuable community owned assets.
- Our share offers provide a local, ethical and environmentally sound investment.

Why we do it?

- Concern about climate change & desire for more efficient use of resources
- Belief in the strength of working together
- Pride in our city

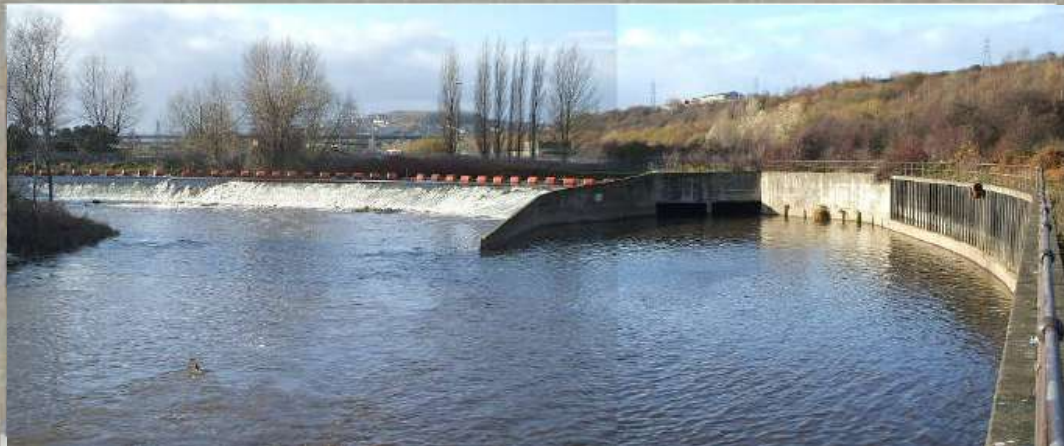
Ways to get involved

Volunteer – Register interest today or on website

Invest - Pledge to invest in our next Community Share offer on our website

Support – Sign up to our News Letter on our website

Jordan Dam Hydro Screw

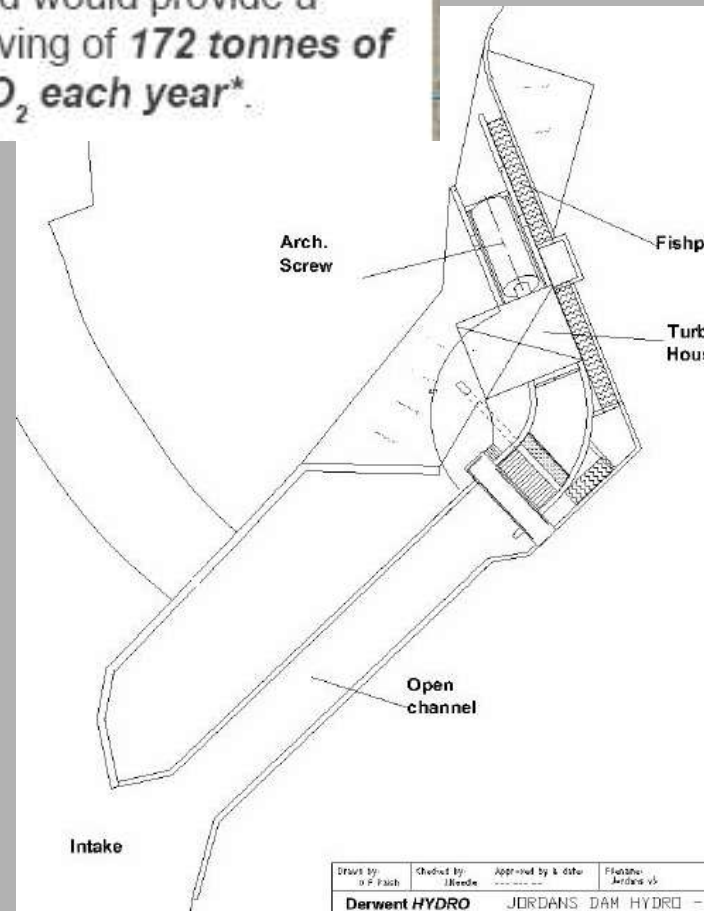


The screw will be located on the South Bank of the river close to the dam.



Artists impression

With a flow of 4 cubic metres per second and a height drop of 3 metres, an 80 KW Archimedean screw could generate around 310,000 KWh of electricity per year. This the amount used by **79 typical family homes** and would provide a saving of **172 tonnes of CO₂ each year***.



Drawn by	Checked by	Approved by & date	Flashes
o P. Frish	J. Bredde		Jordans v5

Derwent HYDRO JORDANS DAM HYDRO

Progress on Jordan Dam Hydro

completed/target

Initial Survey	Jul 2009
Feasibility Study	Mar 2010
Abstraction pre-application	May 2010
Ecological Assessment	Aug 2010
Flood Risk Assessment	Aug 2010
Planning Application	Mar 2011
Abstraction License Application	Jul 2011
Applications Approved	Mar 2012
Site Access and Lease Agreement	Mar 2012
Tender & Commission Works	2012
Finance via shares and loans	2012
Build and Commission Scheme	2013

Kelham Island Water Wheel



The wheel will sit in an existing pit located between the Fat Cat pub and the Industrial Museum.



With a flow of 2 cubic metres per second and a height drop of 1.5 metres, a 20KW Zuppinger water wheel could generate around 75,000 KWh per year. This the amount used by **19 typical family homes** and would provide a saving of **42 tonnes of CO₂ each year***.



Progress on Kelham Island Hydro

completed/target

Initial Survey	Jul 2008
Feasibility Study	Dec 2008
Abstraction pre-application	Apr 2009
Ecological Assessment	Aug 2010
Flood Risk Assessment	Aug 2010
Planning Application	Mar 2011
Planning Permission!	Jan 2012
Abstraction License Application	2012
Site Access and Lease Agreement	2012
Tender & Commission Works	
Finance via grant	
Build and Commission Scheme	2014

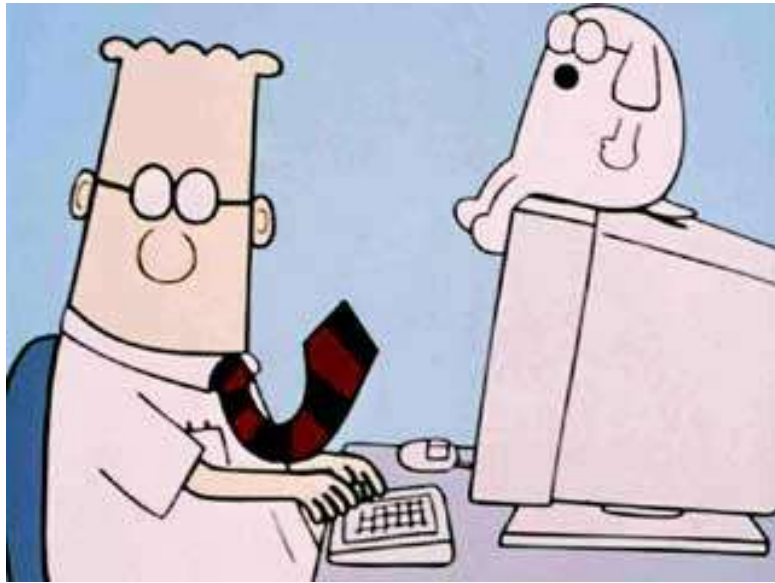


Some of the regulars



www.sheffieldrenewables.com

COMMUNITY ACTION FOR OUR ENERGY FUTURE



Management Group

Business & Funding

Administration & Finance

Hydro Team Wind Team





Communications
Volunteers:
Out and about
in Sheffield 2010



The Tech Team:
Kelham Island Workday July 2010



Board of Directors
(Secretary, Chair, Treasurer, Technical Director, Non-Execs)
Assisted by Management Group

Operations and Finance

Funding Team

Financial Administrator

Dev. Manager
60% FTE

Executive

Managing Director

Projects

Project Executive

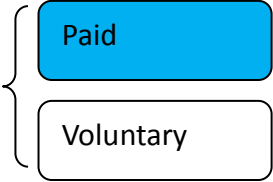
Hydro & Project Teams

Project Manager
50% FTE

Communications

Communications Team

Project Officer
50% FTE



Investing in Sheffield Renewables



“Investing in Sheffield Renewables is about more than financial returns, its about putting something back into our city and contributing to a more sustainable future”



Chris Broome, Sheffield Renewables Shareholder

Our Community Share Offers

Our **projects will be funded by selling shares** to individuals and local organisations, topped up with grants and loans

Shareholders have a say in how we are run
– **one member one vote**

Shareholdings can be anything from **£250 -£20,000**

(...though we have a scheme for those who may find it difficult to afford the minimum)

Investing in community shares



'In the past you may have just made a donation but now you have the opportunity to invest in a community share offer.'

'...thousands are taking the opportunity to invest in their local shop, rescue a pub, finance alternative greener energy or even support their local football club.'

www.communityshares.org.uk

Community Shares in Co-operatives and Community Benefit Societies	Company Shares
<ul style="list-style-type: none"> •Maximum £20,000 shareholding 	<ul style="list-style-type: none"> •No limit
<ul style="list-style-type: none"> •Democratic -one vote per shareholder 	<ul style="list-style-type: none"> •One vote per share
<ul style="list-style-type: none"> •Can only pay interest "sufficient to attract and retain investment" 	<ul style="list-style-type: none"> •No legal limits on dividend payments
<ul style="list-style-type: none"> •Interest paid gross of tax – investors must declare it to HMRC 	<ul style="list-style-type: none"> •10% tax credit deducted from dividend payments
<ul style="list-style-type: none"> •In most cases shares can be cashed- in ("withdrawn"), subject to the society's rules 	<ul style="list-style-type: none"> •Shares can not be cashed in – shareholders must find a buyer
<ul style="list-style-type: none"> •Shares can go down in value but can not increase above their original price 	<ul style="list-style-type: none"> •Shares can go up and down in value
<ul style="list-style-type: none"> •If a society is wound up, any money must be transferred to a group with similar aims 	<ul style="list-style-type: none"> •If a company is wound up, any money left over can be distributed to share holders

Our Community Share Offers

The investment is in *Sheffield Renewables Limited*

Sheffield Renewables Ltd will develop, own and operate **multiple projects**, each funded with new shares

Returns to investors will be a “**blended return**” - dependent on the performance of all projects

Project 1 – Jordan Dam



Future Projects



Purpose of the Share Offers

Development Funds



- £21 k 'Pioneer' Community Shares
- approx. £100k Grants

Jordan Dam Hydro Capital Funding

Target Capital Cost: £500k

- £250k Community Shares (£62k)
- £250k Loan



(+ contingency from additional loan options)

Our Community Share Offers

Social and Environmental Returns

- Renewable Energy and Carbon Savings
- Project Fund
- Stimulating Community Renewables
- Volunteering, Skills and Jobs
- Public engagement and communication

The Community Share Offer

Planned terms

- Interest
 - from 2 yrs after start of operation
 - “not exceeding 3% per annum”
- Withdrawal
 - from 3 yrs after start of operation
 - annual cap set depending on performance

Interest and withdrawal are not guaranteed

Our Community Share Offers

Inclusion Scheme

- Those on low incomes can invest minimum in instalments over year
- Self certifying
- Become voting members from start
- Secured funding to support 20 places on this scheme



Pioneer Share Offer

January 2010

- 13 members and raised £12k
- Mainly volunteers, plus one institution → important “buy” in step
- Raised an additional £9k of pioneer investments since then

The 'Early Bird' Share Offer

September 2011

- **Funds ring fenced for capital costs**
- Targeted at those who had already registered interest
- Demonstrate to grant funders our fund-raising capability
- 55 new members and raised £62k!

Next share offer:

The Big One! Aim is £200k+

With our Investors, Volunteers and Supporters

..and with

- The River Don, one weir,
- Surveys, plans and financial models
- A large steel screw, a crane, concrete, and a big digger
- Bags of perseverance

What we'll achieve:



Giving us the *confidence, credibility and revenue* to build bigger and better schemes in the future!

Thanks to.....

Our volunteers



Project Part-Financed
by the European Union
European Regional
Development Fund

and our sponsors

The **co-operative** enterprise hub



Sheffield
City Council



moting enterprise, equity and
agement through community
res and bands.

www.sheffieldrenewables.org.uk
info@sheffieldrenewables.org.uk
Tel: 0114 250 8367

Mark Wells
mark@sheffieldrenewables.org.uk
Mob: 07986 800 489



Project Part-Financed
by the European Union
European Regional
Development Fund