

The National Trust approach

Keith Jones, Head of Hydro Projects, National Trust



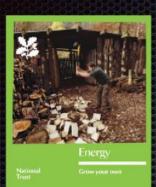
Learning from the past. Fit for the future

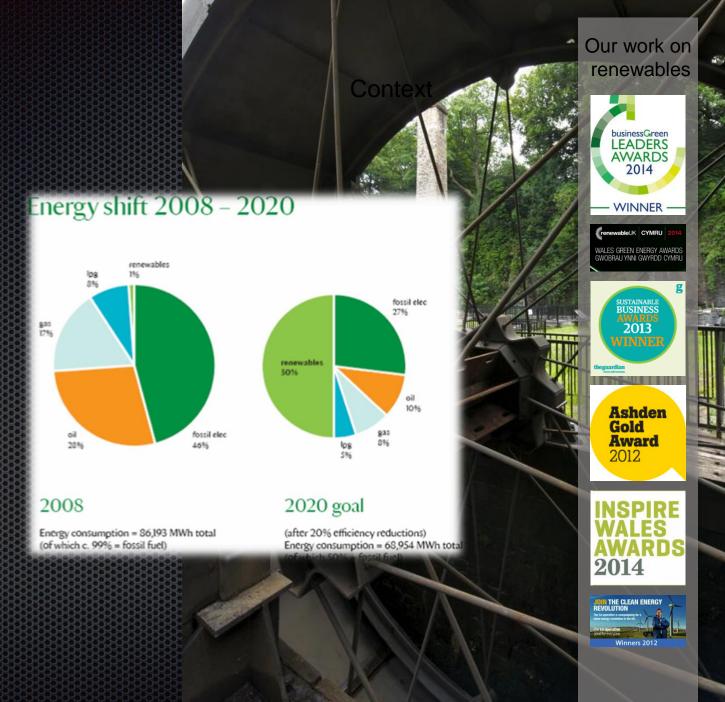
National Trust

Keth Johes



















Context

- · 2 gold mines
- · 39 villages
- · 88 castles
- 300 mansions
- · 700+miles of coast
- · 2000 agricultural tenants
- . 3749 oil tanks
- 5000 staff
- · 29,000 buildings
- · 42,000ha of woodland
- · 61,000 volunteers
- · 250,000ha of land
- · 4.3million members
- £6.5m Energy spend
- · 15 million visitors
- and 61 pubs...









Experience in energy





Hydro past and future

- Context
- Heritage
- Hidden Hydros
- Research and development
- Partnerships / communities
- Current Program
-and next?
- Challenges



Hydro Heritage

- . Cragside x 3
- . Quarry bank mill x 3
- . Castle Drogo x 2
- Hafod y Llan x2
- . Craflwyn
- Batemans
- Pattersons
- Knightshase
- Dyffryn Mymbyr
- Ysbyty Ifan x 3
-and on and on and on













Community Hydro Ene

JOIN THE CLEAN ENERGY REVOLUTION

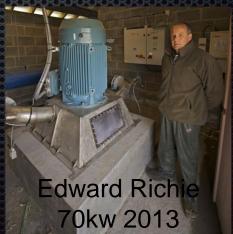
The Co-sperative is campaigning for a clean energy revolution in the UK.

The co-operative good for everyone

Winners 2012

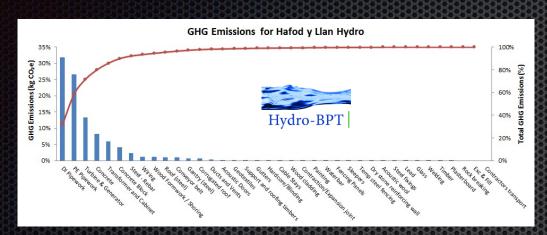
- Lease
- Whole life technical support x 8 hydro projects
- Part of the project teams
- Grant coordination
- Active participation
- Tenant support
- Brand power







Research & Development













Current work















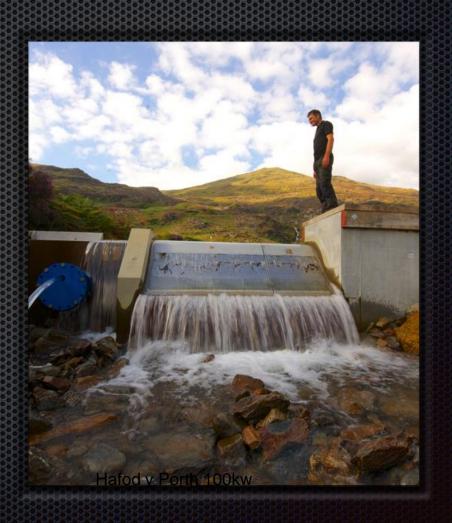
Tools we have developed

- Development contracts
- Trading approaches
- Framework for whole life
- Moving away from design and builded
- Delivery team
- Lightweight buildings / prefab / new tech'



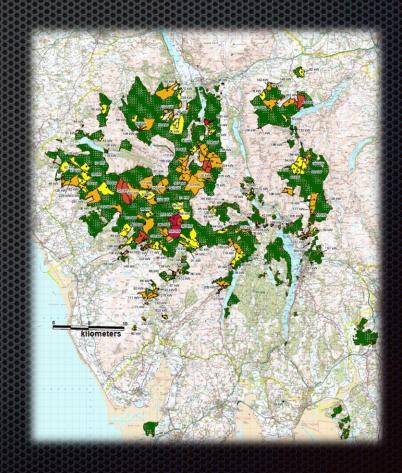
Lessons to date

- It will take longer...!
- Go contract light...
- Become a better client
- You can do a lot yourself
- 3 engineers = 4 solutions
- Value engineering does work
- Paul's brush…!



...and next?

- Renewable energy investment program. NTRE
- Aggregated PPA's?
- 6 next year. 12 the year after?
- Peco R&D??
- Ecological impact support?
- More community development

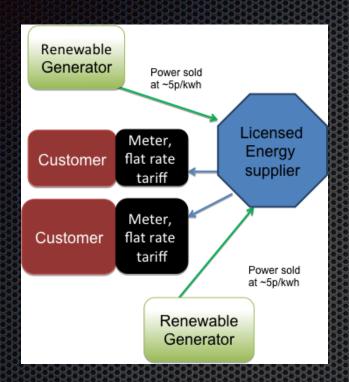


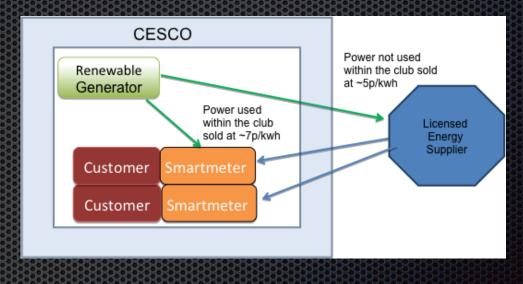
The challenges

- Long hydro development vs. short FIT windows.
- Statutory bodies capacity
- Local grids heating up (pegging back capacity)
- Interpretation of the 'precautionary principal



Solutions?







http://ntenvironmentalwork.net/category/energy-generation.



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