HIGHLAND BIRCHWOODS
Coille Beithe na Gàidhealtachd

Local Power

Local Power

Developing business models for community owned biomass systems

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Who We are

- Registered Charity
- Based in Highland Scotland
- 21 years old

What We Do

- Forestry
- Bioenergy
- Habitat Management
- Rural Development
- HB Ecology – Trading Arm

Highland Birchwoods Biomass Experience

- 20 years of collective experience
- Four International Biomass projects with International partners in Austria, Finland, Italy, Iceland, Slovenia, Sweden.
- Two national Biomass Projects
- Research contracts for Scottish Government and Highland Council

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Funders and Supporters

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Local Power

- Based on Project Gussing and EEE
- - Extension agency, facilitating local communities to become energy independent

- Energy is Wealth

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Local Power: The Ethos

Making Renewable Energy Work for Local Communities

CO_2	Fuel Security
Cost	Employment
Fuel Poverty	Local Wealth

CO_2	Fuel Security
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Local Wealth

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Local Power Process

Heat and Fuel Mapping

- Heat Loads
- Fuel requirements
- Local forest resource

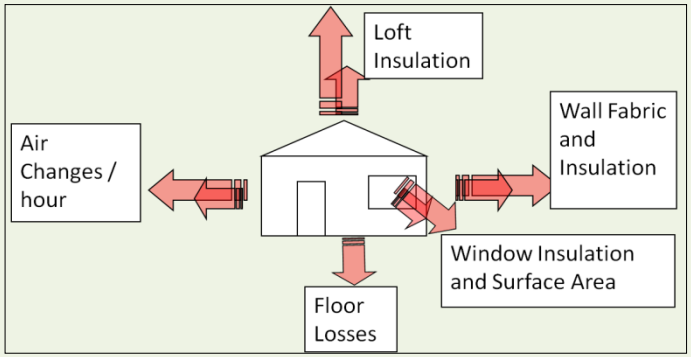
Cost and cash flow

- Decision Support Tool
- Finance
- Cash Flow

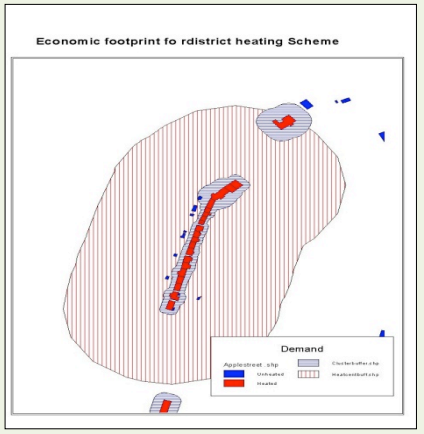
Legal and Business

- Company structure
- Supply contracts

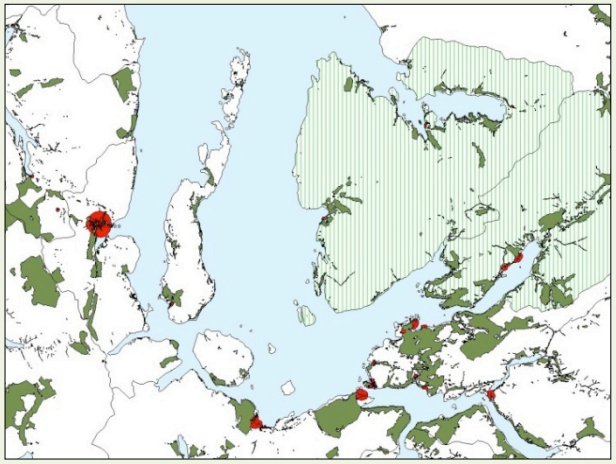
Heat Mapping and fuel balance



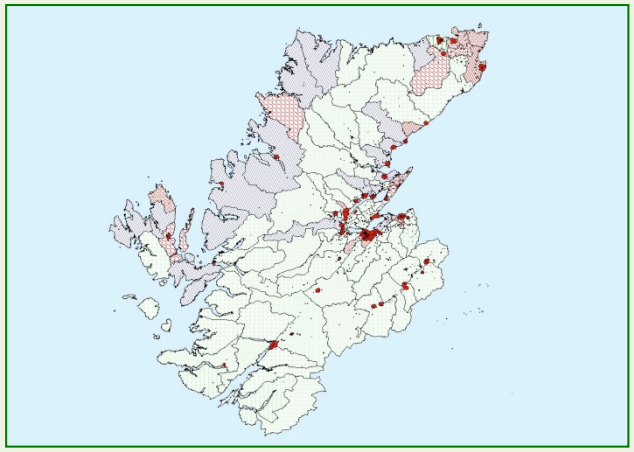
Individual Buildings



Settlements

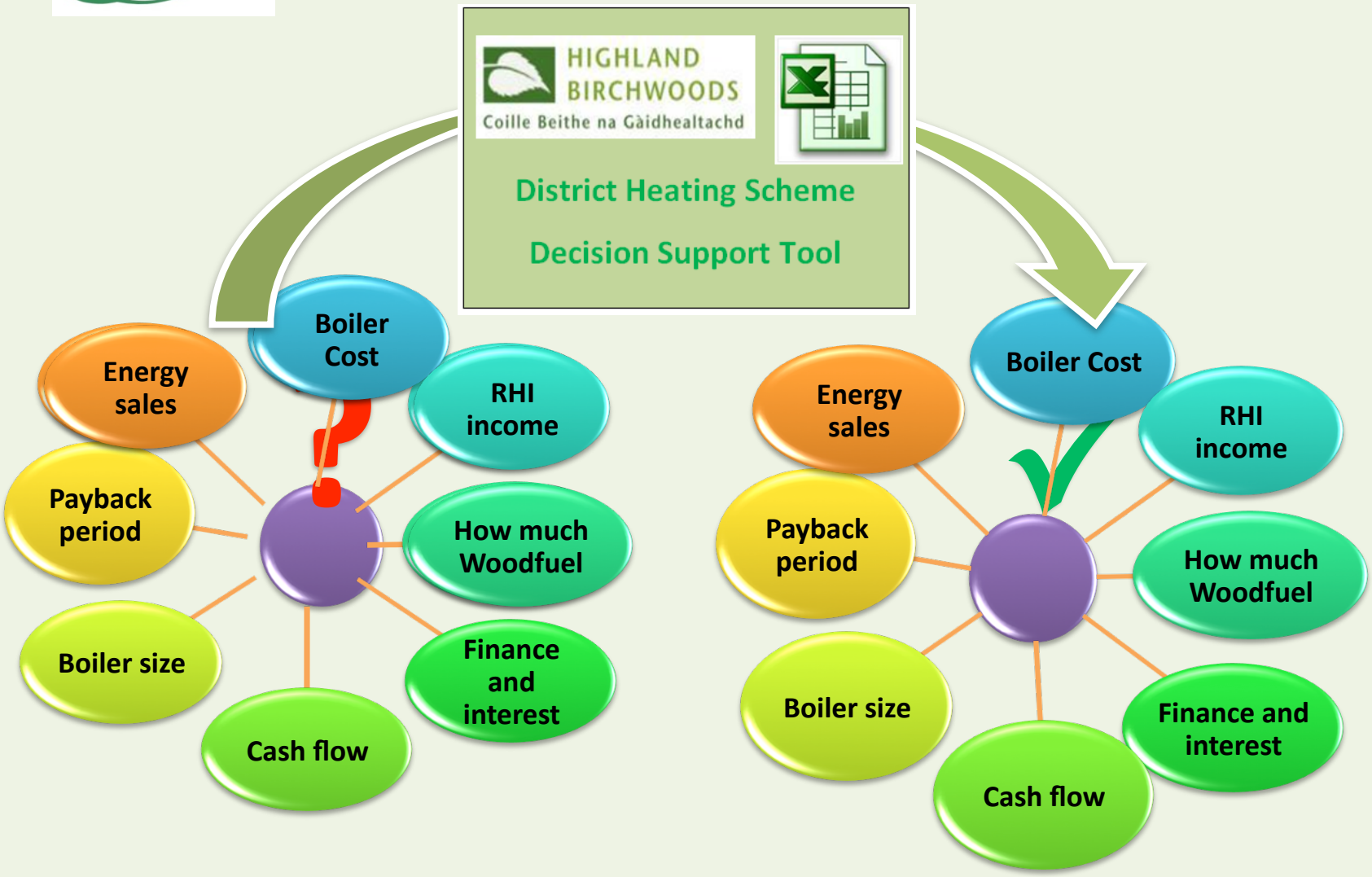


Sub regional Supply Chains

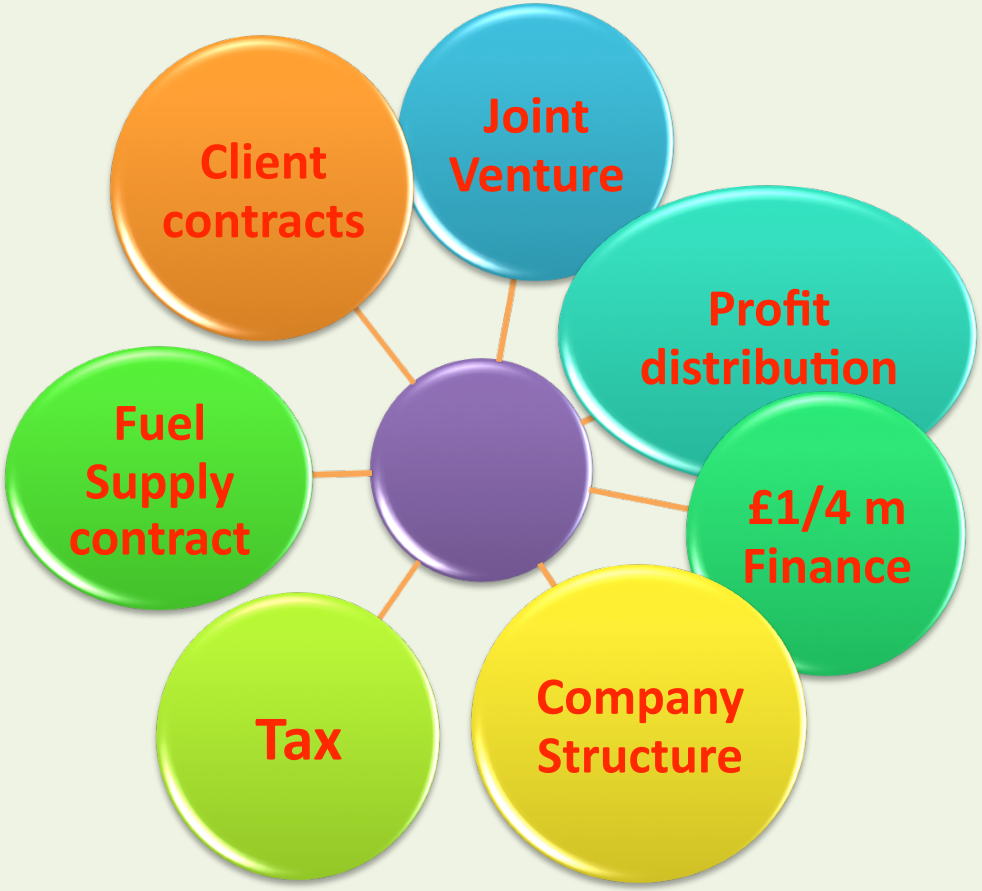


Regional Balances

Decision Support Tool



Legal and Business Toolkit



Ullapool: Pathfinder Site

- **Ullapool Community Trust identify site and clients.**
- **Clients including Highland Council, willing to buy heat.**
- **Local Power Process verifies financial viability**
- **District Heating Loan Fund agreed.**
- **Boiler site agreed with Highland Council**
- **Potential JV visited site. Others to be contacted.**

The Numbers:

- Annual CO_2 reduction – **237 tonnes**
- Lifetime CO_2 reduction **4740 tonnes**
- Annual energy **– 0.65 GWh**
- Build Cost: **£250 – £300k**
- Annual woodfuel**: 255 tonnes**
- Average annual surplus **£35k**
- Lifetime surplus **£705k**

- More Information:
- http://localpowerproject.wordpress.com/

- Local Power Conference Inverness Council Chambers - 7th May.

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Thank You

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Carbon Leapfrog