


nep NOTTINGHAM ENERGY PARTNERSHIP
Local Action - Global Protection

Meadows Ozone

The power of community




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Rising Energy Costs?

John Hutton, business secretary-Sept 08; 'Era of cheap energy is over'


Crude oil price March 2008 - now




| Date | Open | High | Low | Close | Change |
|------------|--------|--------|--------|--------|----------------|
| 10/03/2008 | 107.90 | 108.21 | 104.08 | 107.90 | |
| Mar 2008 | 105.25 | 108.21 | 104.08 | 107.90 | +8.31 +7.90% |
| May 2008 | 105.25 | 108.21 | 104.08 | 107.90 | +2.00 +1.76% |
| Sep 2008 | 105.25 | 108.21 | 104.08 | 70.86 | -70.86 -61.37% |
| Jan 2009 | 105.25 | 108.21 | 104.08 | 73.25 | +3.25 +7.29% |

OFGEM – Oct '09; Warn that rapid economic recovery could result in a dash for energy and 60% rise in energy bills by 2016


IEA whistleblower- Nov'09; "We have [already] entered the 'peak oil' zone. I think that the situation is really bad,"





Hard to treat communities


- Rising energy prices will have a disproportionate effect on low income households.
- Biggest carbon savings are from high energy using households, often the larger wealthier homes.
- Hard to treat homes eg solid wall properties cold, carbon intensive and cost thousands to make energy efficient
- With low income families living in hard to treat homes you have hard to treat communities- **Old Meadows**



Climate change and fuel poverty

- **Policy to combating climate change and fossil fuel dependence**
 - Measures with quick, significant carbon and energy saving
 - targeting the fuel rich + energy profligate first.
 - High environmental benefit, but potentially lower social and economic benefits.
- **Adaptation to rising global energy costs/peak oil, Fuel poverty policy**
 - Measures with quick, significant social and economic impact
 - targeting deprived and fuel poor communities first.
 - High social and economic benefit but potentially lower environmental benefit.

NEED BOTH APPROACHES!



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Sustainable low carbon communities

- Combating climate change and the impacts of peak oil, such as high energy prices, need to go hand in hand.
- Solutions need to be socially, economically and environmentally sustainable or they won't work.
- Solutions need to offer something for all household income levels and tenures, not just well off households

Economic Prosperity
Economy
Profit

Social Equity
Equity
People

Environmental Stewardship
Environment
Planet

Big green challenge Finalist

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The Meadows Area

3,800 homes

1/3 Victorian solid wall (mostly privately owned)

2/3 1980's cavity wall (mostly social housing)

Area of multiple deprivation

High fuel poverty (10%+ household income spent on fuel)

Big green challenge Finalist



Community resources

- Vocal, active and well networked local regeneration agency
- Strong Meadows community identity
- History of winning Nottingham in bloom awards - pride of place
- High fuel poverty - high demand for solutions
- History of local power generation
- Site for a large wind turbine
- Community carbon footprint of C20,000t CO₂e
- 8.7t per house in Old Meadows, 3.6t per house New Meadows

Wilford Power station, 1947



Nottingham In Bloom, 2008





Tailored local solutions

- Building on Meadows community of place-Meadows low carbon community.
- Initiatives under a local banner; Meadows Ozone Community Energy Company
- Partnership- local and national agencies; residents on steering group, Alan Simpson MP, NEA, local regeneration agency + NEP
- 0% interest finance, with local credit union.
- Community energy coordinator, knocking on doors , offering very low cost energy measures, energy advice, grant support, loans, also debt and benefits advice
- Develop ESCO owned large community wind turbine, 330KW
- Explore partnership with utilities to develop local energy tariffs and technology funding packages.





Why loans?

- Enables people to unlock otherwise unavailable energy and carbon savings
- Often no credit available from elsewhere
- Even £98 (Nottm. Warm Zone) for loft and cavity insulation not always unaffordable
- £2,700 Warm Front grants- average £700 excess to pay
- 0% interest finance through 1% per month then annual rebate in Nov for regular payment, like a Christmas saving scheme.
- Encourages credit union membership and saving
- Social, economic and environmental sustainability





Why Turbine

- Community taking ownership and management of local resources, including the wind!
- Income rises as energy costs rise C£100Kpa (index linked)
- Collect FITs income on behalf of whole community.
- Sustainable long term local income for investment in energy/carbon saving.
- Physical statement of Meadows as low carbon community
- Need to develop *all* local renewables to meet local SCS and govt targets.
- Because there is a site!



Recent Progress

- ESCO Incorporated Nov 2009
- £20 loans made (12 loans) in 2009
- C100t CO2 saved through measures '09
- ESCO receives £100K BG 'Green Streets' grant to extend loans programme as loan and grant
- ESCO mentioned in Labour party conference launch of LCCC fund as example of good practice
- £500K LCCC bid written for solar technologies. **State aid limit raised for energy projects.**
- Turbine planning permission in progress, passed by City Council planning committee, now need to get permission form Natural England re bats.






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Progress

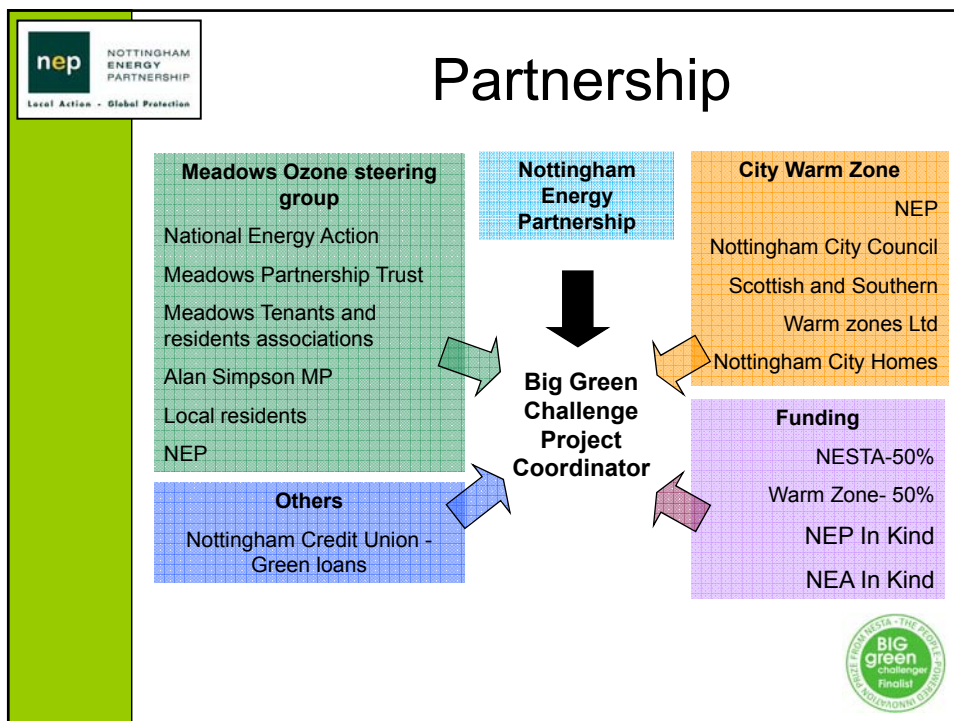

- Last 10 (from 355) In Big Green Challenge
- The Ozone could win all or % of £1M NESTA prize (8th Jan)
- Prize to purchase wind turbine and disseminate our model
- Planning bat surveys for Spring
- Even if shut down to avoid all bat activity still economically viable with C10% ROI
- Now negotiating with energy companies on potential partnerships




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Thanks

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Key tools!

- Meadows green loans - 0% interest finance - A* fridges to solar panels. Underwritten by local regeneration agency, managed by credit union, open to all households
- Warm zone- *something for everyone!*
 - £49 loft insulation
 - £49 cavity wall insulation
 - Free loft and cavity for over 65s
 - £1000 boilers
- Warm Front grants up to £2,700 -vulnerable fuel poor homes
- Benefits and Debt advice
- Local champion trained as home energy assessor








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Loans Made 2009

| Amount (£) | Term | Item |
|------------------|----------|-----------------------|
| 350 | 1yr | Gas Cooker |
| 1,000.00 | 6 months | Solar Panels |
| 2,500.00 | 3 years | Double Glazing |
| 231.09 | 17mnths | Gas Cooker |
| 500 | 2yrs | Washing Machine |
| 1,650.00 | 3yrs | Central Heating |
| 7,247.10 | 5yrs | Towards Solar Panels |
| 2,000.00 | 5yrs | Double Glazing |
| 900 | 3yrs | Double Glazing/Cooker |
| 93.79 | 20mnths | Bike |
| 2,970.00 | 3yrs | Double Glazing |
| 19,441.98 | | |



Local champion


- Essential !
- Armed with all available tools
- Actually knocking on every door in area
- Doorstep energy survey + advice
- Offer of free full home energy survey
- Helping people actually access measures through advice, guidance + support on offers, discounts, benefits, grants and interest free loans
- Linked to local debt advice service
- Visiting and talking to community groups
- Writing funding bids for renewables



Green loans

- Partnership with the Nottingham Credit Union
- Loans underwritten by local regeneration agency
- Loans paid direct to suppliers + installers
- Interest charged at 1% per month, rebate in Nov for regular payment
- Financial savings from energy efficiency measures can easily exceed loan repayments.
- Eg £1000 boiler can save £30pcm on bills with annual repayments of £17pcm over 5 years





Kings School

- Grant funding through CSEP for loft insulation measures.
- £98k 14.8Kwp solar PV system to be fitted, with our help the system will be 100% grant funded through the LCBP and the CSEP schemes.

