COMMUNITY SOLAR SOLAR FARM





What is a solar farm?

- Electricity-producing solar panels
- Mounted on frames on the ground rather than roofs
- Larger scale than roof-mounted arrays (several acres)
- Panels can be tilted at best angle to sun more efficient



Why?

 We need to move to sources of energy that don't produce CO2

• Wind and solar are effective choices in the fens

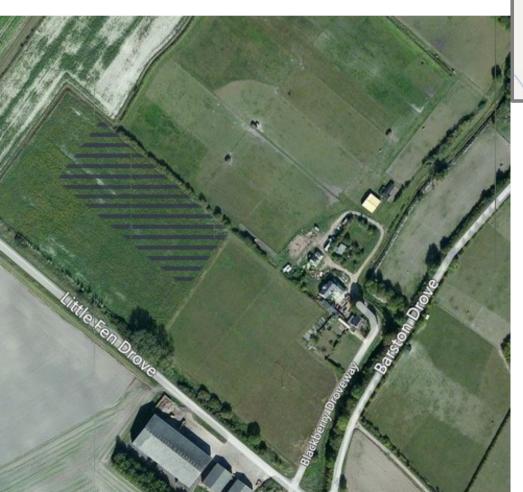
• Solar is quiet and unobtrusive

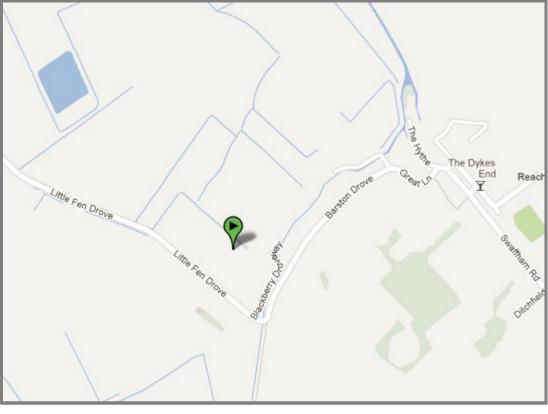




Proposed site

North-west of Blackberry Droveway





- 500 kW
- 2000 panels
- Approx 5 acres
- Around 2m high
- Screened by hedges





Clean electricity

• The 500kW array should generate around 460,000 kWh of electricity per year

• Equivalent to the annual usage of 115 typical homes

• Could put Reach well on the way to being carbon-neutral!



Community ownership

We propose setting up a community—owned company to own the array

- not-for-profit
- Co-operative ownership
- Pays lease to landowner
- Pays interest to investors
- Other profits returned to community



Community ownership

• Local individuals and businesses can benefit, rather than big corporations

- Reach already has several community-run projects
- eg village center, RaSP broadband

• Any excess profits can go into a community fund (any ideas?)



Local examples

• Gamlingay Community Turbine

• St Paul's Community Center, Cambridge

Possible Cambridge Community
Renewables company



Further afield

•Westmill Solar Coop – 5MW

•In Germany and Denmark around 25% of renewable energy generation is owned by community groups.





Doing the sums

• Build cost will be around £650,000

• Money will come from selling shares in the company and from loans.

• Expected life of the farm is 20 years or more



Income

• The company receives income every year from the feed—in tariff

• Also benefits from the sale of electricity

• Income should be at least £50,000 per year (more if we can negotiate a good price for electricity)



Outgoings

- Lease of the land
- Maintenance
- Interest on loans / shares
- Repayment of loans / shares
- An interest rate of around 4% should be possible
- Any additional profit goes to a community benefit fund



What is needed?

• Offers of help – especially knowledge of setting up companies

• Investors — sign up if interested!

Support for planning application



Summary

- A solar farm could provide a significant proportion of the electricity used in the village
- The project should benefit the local economy by returning income to local investors rather than lining the pockets of big corporations
- Any excess profit would go to a community fund
- If it's going to happen, it needs the support of the community!

