

Microgeneration and FITs: The role of the Energy Saving Trust

Rob Lewis,
Renewables Strategy Manager
Energy Saving Trust (EST)

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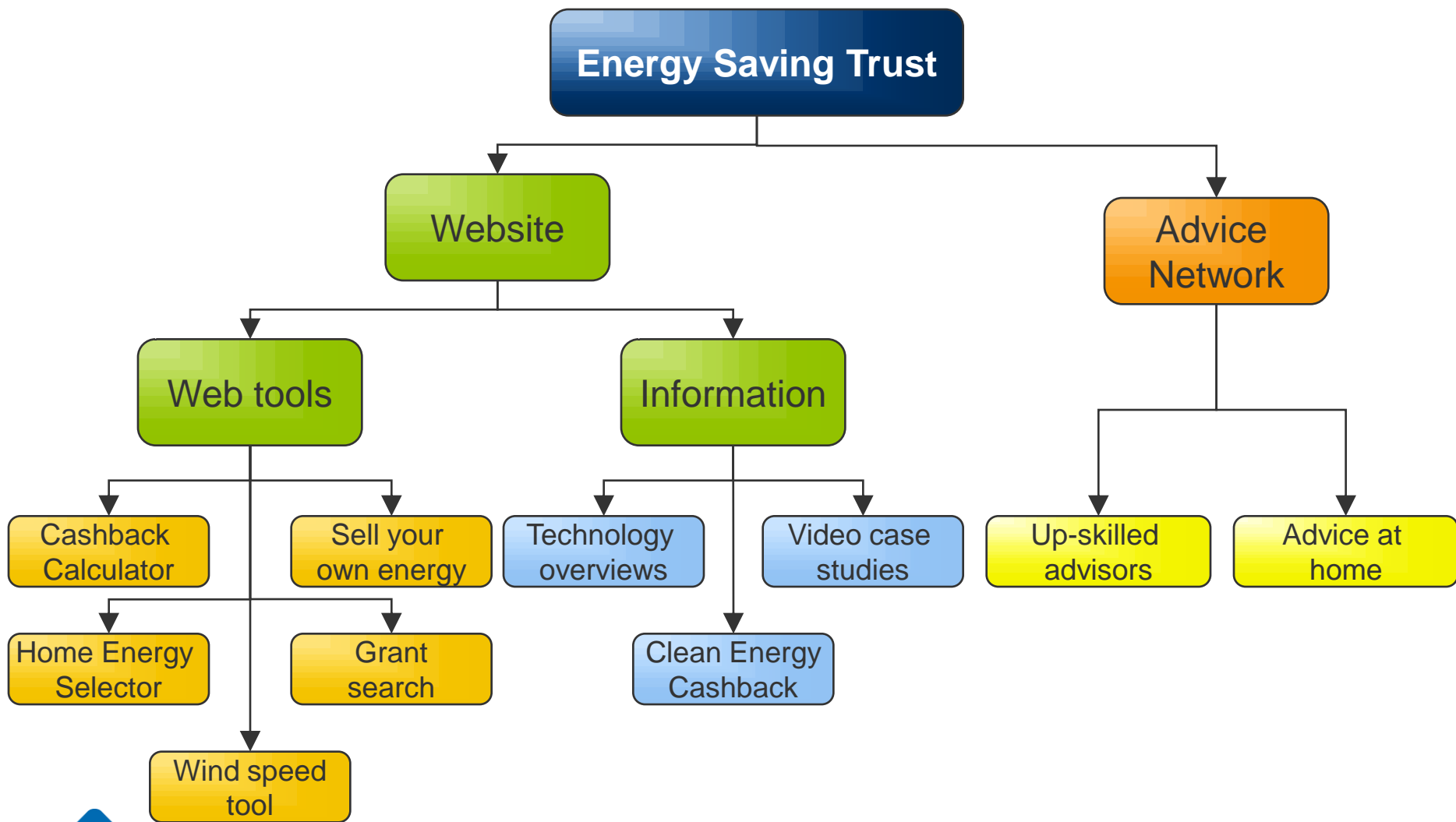
Why are we delivering advice on microgeneration?

- EST is funded by government to provide a comprehensive service to people
- Microgeneration is part of our vision for “low carbon lifestyle”
- People already come to us with questions on microgeneration
- Influential research on microgeneration: potential, barriers, consumer views
- Deliver LCBP and SCHRI

Our objectives on microgeneration

1. Provide consumers with clear and independent information and advice on microgeneration.
2. Increase consumer confidence in microgeneration technologies resulting in a greater uptake of installations.
3. Make microgeneration technologies more affordable and accessible to individuals.

Microgeneration Advice Delivery



Technology Advice

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Energy Saving Trust field trial of domestic wind turbines

Can I generate electricity from the wind at my home?

Home Energy Generation Selector

Wind turbines

Solar water heating

Solar electricity

Ground source heat pumps

Air source heat pumps

Wood fuelled heating

Hydroelectricity

Getting planning permission

Energy generation to-do list

Real life case studies

Sell your own energy

Buying green electricity

Grants & offers: Scotland

Grants & offers: UK

Renewable energy technologies like wind turbines, solar panels and biomass heaters offer an alternative to fossil fuels and can help reduce your homes CO₂ emissions.

→ [Energy generation to do list](#)



Home Energy Generation - what suits your home?

Thinking about installing a renewable technology? Our Home Energy Generation Selector will help you to identify the technologies that might be suitable to generate heat or electricity for your home.

→ [Find out more](#)



Install a renewable energy technology and you could make money

If you have installed a renewable energy technology, you may be able to get paid for the electricity it produces.

→ [Find out more](#)

Find out about

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[Wind turbines](#)
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Grants and offers

Find out whether you are eligible for a grant or offer.
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Home Energy Selector Tool



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1. Your property details

Save & Quit



Please enter your postcode

What type of property do you live in?

Please select ▼

How old is your property?

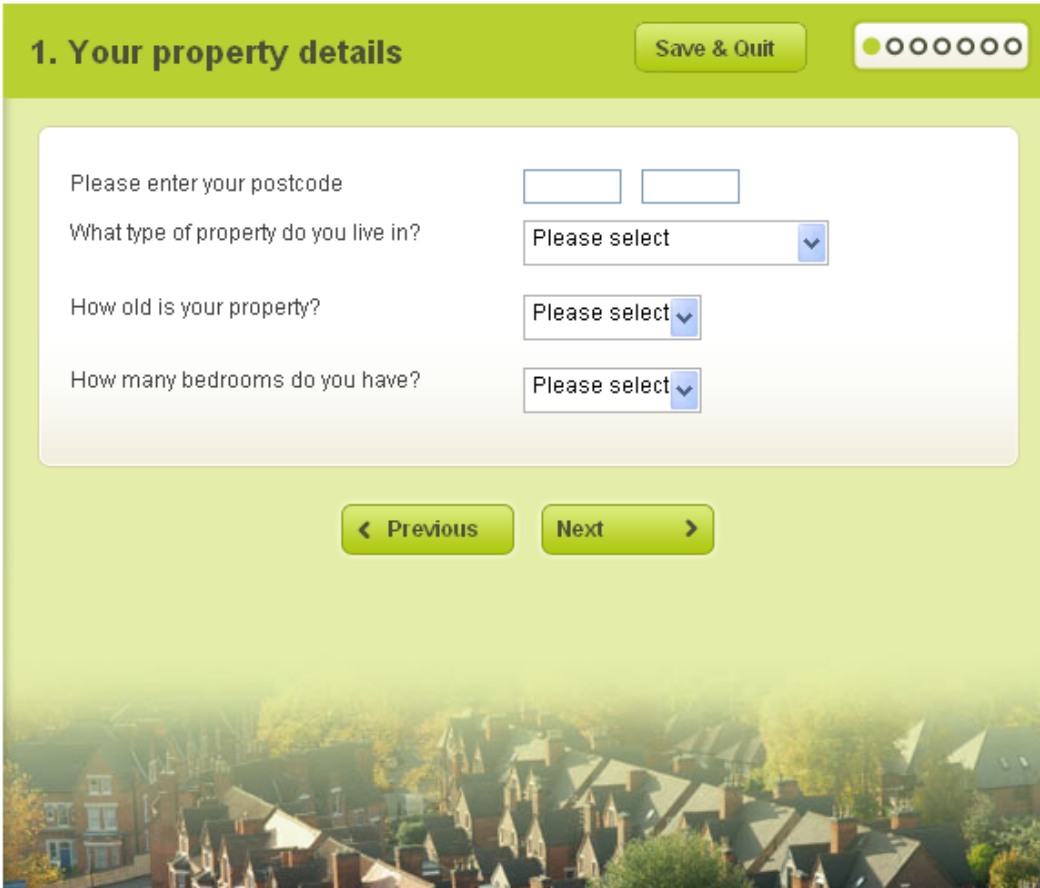
Please select ▼

How many bedrooms do you have?

Please select ▼

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Wind Speed Tool

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Domestic wind speed prediction tool

The Energy Saving Trust has recently completed the most comprehensive field trial of domestic scale wind turbines to date. The aim of the trials was to provide UK home owners with an indication of whether they would be able to generate electricity from the wind at their home. The data from these trials has been used as the basis for the Domestic Wind Speed Prediction tool.

How do I use the tool?

To find out whether your home may be suitable for a domestic scale wind turbine please enter your postcode, indicate whether your property is an urban, suburban or rural area and click 'calculate wind speed'. We will predict your wind speed and advise on whether a turbine may be suitable for your home.

Have you looked at all your home energy generation options?

If you have not already done so why not use our Home Energy Generation Selector to help you identify the technologies that might be suitable to generate heat or electricity for your home.

Please enter postcode

What type of area do you live in?

[Calculate wind speed](#)



Web Advice on FITs



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Clean Energy Cashback

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Clean Energy Cashback

Clean Energy Cashback (also known as Feed In Tariffs), to be introduced in 2010, will provide financial incentives for people and businesses to install electricity-generating technologies such as solar electricity panels and wind turbines.



It will do this by guaranteeing a minimum payment for the electricity generated as well as the electricity exported to grid.

Please note that these tariffs only apply to England, Wales and Scotland. Northern Ireland has not yet taken a decision on Feed In Tariffs.

The details of this are currently under consultation and so the information given below could be subject to change.

How the scheme works

Under current proposals, there are three ways in which you will be able to benefit if you have an eligible technology:

Generation tariff: a fixed payment from your electricity supplier for every unit of energy or kilowatt hour (kWh) generated (the 'generation tariff') for a period of 20 years (except for solar PV which would be for 25 years).

Export tariff: if you do not use the electricity on-site you can export it to the grid. You will get a guaranteed minimum payment additional to the generation tariff for every kWh exported to the grid (the 'export tariff').

On-site use of electricity: you will also benefit from on-site use of the electricity you generate: where you use the electricity on-site you will be able to offset this against electricity you would otherwise have had to buy.

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Cashback Calculator

FIT Tool

Find out which technology is best for your home using our [Home energy selector tool](#)

Share this tool

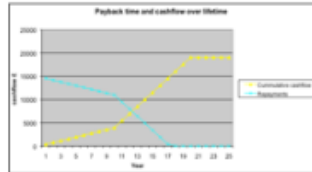
FIT Tool > Results

Fuel Bill Savings £ per year

Total Saving £ per year

Payback time years

Send me the results



Technology Details

Fuel Bill Savings (per year) = **£1000**
 Maintenance Costs (per year) = **£300**
 Total Saving (per year) = **£700**

Collapse -

Technology

Wind

Scale

1.5kW-15kW

When did you, or when do you plan to install the technology?

Installed it before July 2014

Select the certified wind turbine from the drop down

15kW-50kW

Size - enter system size

kWp

I will...

export all electricity generated (100% exported)

Average Wind Speed

Please enter your postcode

EX1 2SR

What type of area do you live in?

Urban

Calculate Wind

[See the full wind speed calculator](#)

Summary of Outputs

Total Generation kWh/year

Income from generation tariff £ per year

Income from export £ per year

Fuel Bill Savings £ per year

Maintenance Costs £ per year

Total Saving £ per year

This helps determine how much of the electricity generated will be exported and how much will be used on site

Do you have data to show how much the system generates in a year?

Enter your expected annual generation (kWh/yr) if known

560

Investment Details

Income in year 1 = **£5000**
 Payback time = **6 years**

Collapse -

Technology

Solar Electricity

Scale

1.5kW-15kW

When did you, or when do you plan to install the technology?

Installed it before July 2014

Size - enter system size kWp

I will...

export all electricity generated (100% exported)

Do you have data to show how much the system generates in a year?

Enter your expected annual generation (kWh/yr) if known

3000

Select your region by clicking on the map...



South West

Average Wind Speed

Please enter your postcode

EX1 2SR

What type of area do you live in?

Urban



9.44 meters per second

Your predicted wind speed for **CO10**

Advice through the ESTACs

Energy Saving Trust Advice Centres:

- 21 in total
- Regional manager structure
- Act on CO2 helpline

Up-skilling of advisors

- City and Guilds training
- Briefing on FITs and tools



‘EST Advice at Home’ in Scotland.

- Provides intensive support to clients acquiring microgeneration.
- 10 FTE *Home Renewables Advisors* across 5 Scottish advice centres
- Over 500 householders supported in 08/09 FY, expect 2,000 householders supported in 2009/10 FY
- Prototyping similar service in England

Field Trials

- We independently and rigorously **test** technologies in use in field trials, to provide accurate data and consumer information.
- Completed wind trials in 2009
- Currently trialling
 - Heat Pumps
 - Solar thermal



Advice on energy efficiency

Important to ensure efficient use of energy generated through energy efficiency

- Lighting



- Appliances



- Insulation

