



Renewable Energy and Feed in Tariffs

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- Types of Renewable Energy
 - Feed in Tariff
 - Fast-track Review of Feed in Tariff
 - Likely Changes
 - What This Means
-
- R4F – Resources for Farmers
 - Renewable Heat Incentive

Renewable Energies



Solar Hot Water

- Particularly suitable for domestic installations, but also suitable for dairy units as it reduces the amount of electrical heating required.
- RHI?

Solar Photovoltaic (PV)

- Good for providing large amounts of energy.
- Suitable for many sites
- Inert. Easy Planning?

Wind

- Very site dependent.
- Planning?

Hydroelectric

- Suitable for some sites depending on Head and Flow Rate at site.
- Planning?

Anaerobic Digestion

- NVZ Compliance

Feed in Tariff



- Designed to provide a payback on investment over 7-12 Years.
- Different levels of payment for varying technologies and scales of installation.
- Once registered, an installation will receive the same level for 20-25 years, inflated in line with RPI.
- Tariffs will be reduced as more schemes come on line, so best to get in early – First main review in 2012.

Fast-track Review of FiT



- 'Flaws' in original scheme.
- Solar – Economies of scale.
 - AD – Free Feedstock.
- Secretary of State Chris Hunhe announces review 7Th February.
- Initial result of review issued 18th March.
- Changes effective 1st August.

Changes: 1st August



- Only Solar & Anaerobic Digestion Affected

Technology	Was	Now
AD 0-250 kWp	11.5p	14.0p
AD 250-500 kWp	11.5p	13.0p
PV 50-150 kWp	31.4/29.3p	19p
PV 150-250 kWp	29.3p	15p
PV 250-5000 kWp	29.3p	8.5p
PV Standalone	29.3p	8.5p

- Only Solar PV over 50kWp Affected

What Does This Mean?



- All Solar PV projects over 50kWp now not commercially viable.
 - No transitional arrangement for projects already underway.
- Some marginal AD Projects become viable.
 - £400m Government Spend Saving.
- Consultation open until 6th May before any changes come into effect on 1st August.

R4F and S4P



- Resource Efficiency for Farmers
- Soils for Profit

South West Agricultural Resource Management Capital Grant Scheme:



R4F

- Grant funding for changes to farm businesses to improve efficiency and reduce energy and water use
- Variable Speed Motors
- SMART meters
- Heat Recovery
- Ground and Air Source Heat Pumps
- Rainwater Harvesting
- Water Ram Pumps

NB: No funding for Feed in Tariff
Eligible Items

S4P

- Grant funding for equipment to improve nutrient use and prevent pollution
- Slurry Applicators
- Precision Farming Equipment
- Slurry Store Covers
- Slurry Separators
- Nitrogen Testing Kits
- Shallow Aeration Equipment

Renewable Heat Incentive



- **Confirmed during spending review – October 2010**
 - **Still in consultation stage**
 - **What We Know:**
 - Starts on 1 April 2011.
 - Similar to Feed in Tariff but available for heat.
 - Based on rated output of device.
 - £850m to be spent by 2015.
 - Aims to increase renewable heat use from 1% currently to 12%.
 - May make Anaerobic Digestion a viable proposition where there is a demand for the heat.

Summary



- There are a number of different technologies suitable for on-farm use.
- Feed in tariffs are changing for both Solar PV and Anaerobic Digestion.
- 50 kWp will effectively be the new cap for Solar PV.
- Consider RHI when thinking about upgrading appliances.



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Thank You

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