

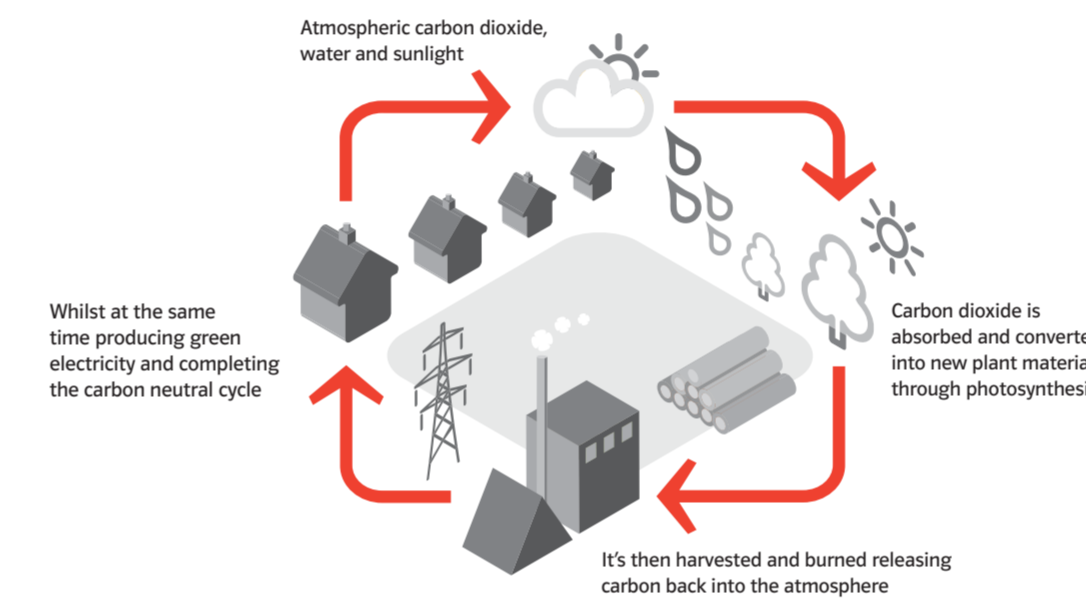
# Biomass

Helping to grow a sustainable future

## What is biomass?

Biomass is biological material that comes from living, or recently living organisms. In the context of electricity generation, the term 'biomass' usually refers to plant-based material and can take many forms, including crops specifically grown for use in power stations, such as willow, or by-products such as sawdust. Biomass is a plentiful resource, which can be replenished time after time.

Biomass is often called 'carbon neutral' because the carbon released into the atmosphere when the material is burned, is equivalent to the amount absorbed by the plant during its growth cycle.



## Our biomass portfolio

### Steven's Croft, Lockerbie

We developed, constructed and now operate Steven's Croft – one of the UK's largest dedicated biomass renewable energy plants. This award-winning 44MW scheme generates enough renewable power for around 70,000\* homes and displaces the emissions of 140,000\* tonnes of carbon dioxide every year. In addition to helping meet the challenging renewable energy targets set by the Government, Steven's Croft benefits the local economy by using by-products from the neighbouring timber industry, as well as offering farmers in the area a new market in renewable fuel crops.

### Blackburn Meadows, Sheffield

This project which will be up to 30MW received planning approval in July 2008 and is expected to be operational by 2012. The plant will produce enough power to supply around 40,000\* homes with renewable energy by burning a combination of recycled wood, forestry residue and specially grown crops, such as willow and elephant grass.

### Portbury Dock, Port of Bristol

We're currently developing a 150MW biomass renewable energy plant at the Port of Bristol. If consented, the project would supply enough renewable energy for over 200,000\* homes and make a significant contribution towards tackling the threat of climate change.

\* Based on the Digest of UK Energy Statistics, 2007 and an estimated availability of 90% running capacity.  
\* Based on an average domestic household consumption of 4,725 kWh (Source BERR).

Steven's Croft Renewable Energy Plant, Lockerbie – for illustrative purposes only.

