

# GreenAction

2009

The magazine of Friends of the Earth Cymru



**Cyfeillion  
y Ddaear  
Cymru**

**Friends of  
the Earth  
Cymru**

**GREEN JOBS FOR WALES**  
Getting the economy working again



**What's feeding your food?**

Emissions figures made easy | Inside the Assembly | Join a Friends of the Earth local group

# It's good to be the good guys

We were always accused of being depressing. The doom and gloom merchants, the hairshirt environmentalists, everyone should live in a cave and eat muddy vegetables.

Not true of course, as we've always offered practical, modern solutions. But finally, us environmentalists are actually being recognised as the positive ones. I mean, have you heard a happy banker recently? An up-beat economist, or a cheerful chief executive?

We're avoiding the smug 'I told you so'. After all, the economic mess we're all in means no one's pleased to be smug. But it seems the lessons are sinking in. Maybe sensible resource use is connected to growth. Maybe energy efficiency is, well, efficient. And perhaps sustainable economies are more sustainable after all.

But what does make us smug, is knowing we've got some pretty good answers. Because the same measures needed to tackle climate change and

ensure a healthy planet could also kick start our ailing economies. While some politicians squabble over how many billions we should spend on bailing out the bankers, a lot of others are realising that getting our economies out of the red means going green. And nowhere is this truer than in Wales, as Friends of the Earth Cymru director Gordon James explores on page seven.

Whatever the state of the economy, there's something we can never do without – food. And if we're going to tackle the causes of climate change, making sure our food is produced as sustainably as possible is vital. At the moment, government subsidies support a hidden chain that links our love of meat and dairy to rainforest destruction in South America. Turn to page 10 to find out about our new campaign to fix the food chain, and how Welsh farmers can benefit from this too.

There are a lot of figures involved in tackling climate change – 'three

percent a year', '80 percent by 2050', '1.8 percent since 1990'. So this issue's centre pages are a quick guide to some of them. They don't all make Wales look too good, but if we're going to fix the problem we need to know the facts.

On the page opposite, you'll find just some of the ways you can support us. In these difficult times, we need your help more than ever. Thank you if you're helping already – Friends of the Earth is dependent upon individuals like you for more than 90 percent of our income. Without enough funds, it's very hard to keep coming up with the solutions we need, and even harder to make sure our leaders listen.

And for even more options on getting involved, turn to page eight to get a glimpse of what our local groups are up to right across Wales. Perhaps you might be inspired to join in and make your own difference locally.

**Simon Williams, Editor**

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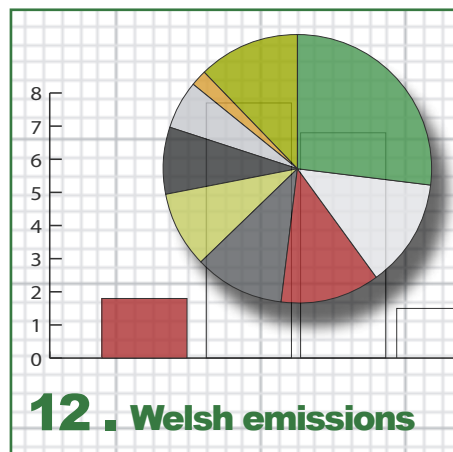
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# Seriously local

## Friends of the Earth Cymru's new campaign, **Get Serious about CO<sub>2</sub>**, will ask local authorities to commit to making real cuts in carbon dioxide

Friends of the Earth local groups and supporters played a big part in our hugely successful campaign that saw the introduction of the world's first climate change law. The Climate Change Act commits the UK to slashing greenhouse gas emissions by 80 per cent by 2050 – but local councils need to take action to hit the target.

Local government is responsible for many areas of our lives and controls a budget of £4 billion a year in Wales. Public transport, our children's education, what happens to our waste, what can be built where and the state of our parks and streets – all of these are controlled by our local councils.

And yet there is no target or incentive in Wales for councils to cut carbon emissions. It's the gap in the whole plan - and it's getting serious.

So our local groups are swinging into action again. This time, they're set to make sure that the emissions targets don't just stop at national government.

We'll be campaigning on local,

national and UK levels all at the same time. We'll need action in our local areas to reduce carbon emissions, the Welsh government will need to agree targets with councils, and councils will need more money to fund the action required.

We'll be campaigning for a commitment from all councils to cut 40% of carbon emissions by 2020. Our local groups will be working directly with individual councils, and offering them lots of advice on how all this can be done.

If our councils get serious about going green – making homes more energy efficient, improving local transport and encouraging businesses to invest in new green technologies – there could be economic benefits and job opportunities for us all.

To get involved in the campaign, contact Friends of the Earth Cymru campaigner **Haf Elgar** on **02920 229577** or **haf.elgar@foe.co.uk**

# ISSUE 2

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### Friends of the Earth Cymru:

-  is dedicated to protecting the environment and promoting a sustainable future for Wales
-  is part of the UK's most influential environmental campaigning organisation
-  is part of the most extensive environmental network in the world, with almost two million supporters across five continents and more than 75 national organisations worldwide
-  supports a unique network of local campaigning groups, working in communities throughout Wales
-  is dependent upon individuals for over 90% of its income

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## Support us...

Friends of the Earth Cymru is a part of Friends of the Earth England, Wales and Northern Ireland. There are lots of easy ways you can get involved – from raising money just by searching the internet to taking part in a fundraising event

If you're not already a financial supporter of Friends of the Earth why not sign up today? Your donation will help us find solutions that help protect planet and people, now and in the future. Visit [www.foe.co.uk/cymru](http://www.foe.co.uk/cymru) or call **0800 581 0510**. We'd be very grateful for your support

Set yourself a challenge to organise or take part in a fundraising event for Friends of the Earth. Visit <https://www.foe.co.uk/events.html> or call **020 7490 1555** to find out how

Raise extra funds for Friends of the Earth just using the internet search engine Everyclick. Register at [www.everyclick.com/friendsoftheearthtrust](http://www.everyclick.com/friendsoftheearthtrust)

Switch to get your household electricity from 100% renewable electricity from Good Energy and we get a £50 donation. Visit [www.good-energy.co.uk/foe](http://www.good-energy.co.uk/foe) or call **0845 456 1640**, quoting Friends of the Earth

If you're concerned about the kind of world that future generations will inherit, leaving a gift in your Will to Friends of the Earth is one of the best things you can do. Find out more at [www.foe.co.uk/legacies](http://www.foe.co.uk/legacies) or call Maria our Legacy Information Officer on **020 7566 1646**

## Wales isn't stupid

### A powerful new film has launched a campaign to create millions of climate change activists

The Age of Stupid stars Oscar-nominated Pete Postlethwaite living in the devastated future world of 2055, looking back and asking, "Why didn't we stop climate change when we had the chance?"

Audiences are being urged to join the Not Stupid campaign, which is counting down the remaining days to the United Nations Climate Summit in Copenhagen in December (see In Brief below).

Friends of the Earth Cymru worked with the filmmakers to hold a special screening of the film at the Senedd for AMs, and our local groups are holding



Pete Postlethwaite as the last man on Earth, asks 'Why didn't we save ourselves?'

screenings at venues across Wales.

Go to [www.ageofstupid.net](http://www.ageofstupid.net) to find out more, or contact your Friends of the Earth local group (see p9). Join the Not Stupid campaign: [www.notstupid.org](http://www.notstupid.org)

# THE AGE OF STUPID



Ian Homer

Anti-GM campaigner and Pembroke organic farmer Gerald Miles

## 21 years of protecting the environment

Since 1988, and its first success that won a bottle bank for Narberth, Pembrokeshire Friends of the Earth has been behind a series of landmark environmental campaigns.

Notable successes include working with local people to block plans for a landfill site at Cresselly, helping the Tenby Clean Seas Campaign ensure the town's new sewerage system used the best treatment, and opposing plans for a nuclear waste dump at Trecwn.

Thanks to the group's legal action against the government, oil and gas companies now have to give environmental impact assessments for drilling off the Pembrokeshire coast. Its proposals for the A40 have influenced Assembly Government policy, and it

took a six year campaign to prevent dirty orimulsion fuel being burned at Pembroke power station.

When environmental disaster struck Pembrokeshire with the Sea Empress oil spill in 1996, the group worked non-stop helping rescue oiled birds, and produced the first report of the disaster. Friends of the Earth's London legal team prepared a case for prosecution that was taken forward by the Environment Agency.

Now, with climate change and investment in green jobs high on the agenda, Pembrokeshire Friends of the Earth is looking forward to another 21 years of activism.

See p9 to get in involved with your Friends of the Earth local group

## IN BRIEF

### Environmental news from around Wales

#### WE DON'T NEED NUCLEAR

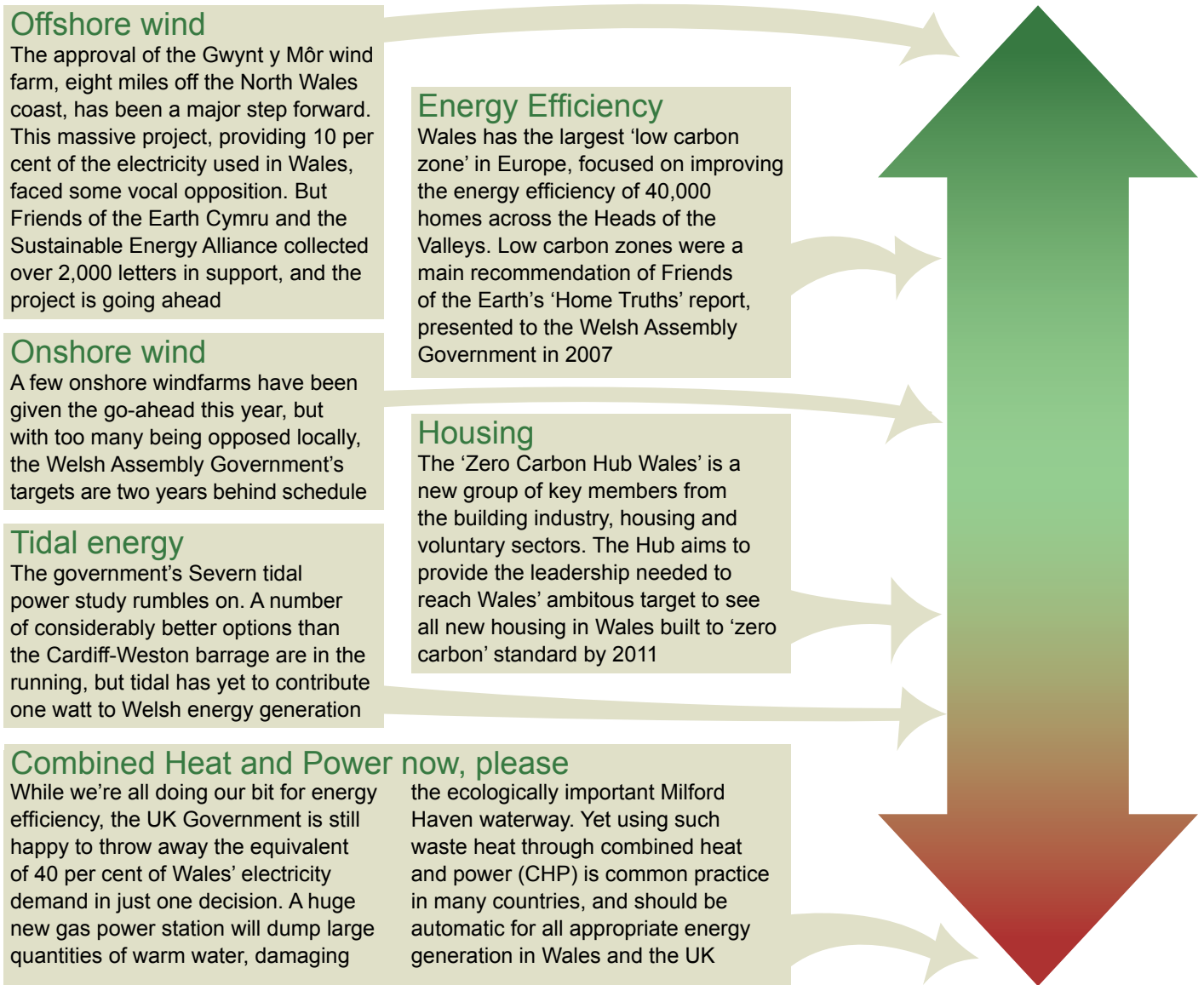
Nuclear power is not needed for a low carbon future, yet still there are plans to replace the ageing Wylfa nuclear station on Anglesey. Energy company RWE have bought land adjacent to the existing station and acquired a connection agreement with National Grid. The promise of jobs on the island has secured the support of most of the council - even though there are more jobs in renewables, energy efficiency and carbon capture and storage, which leave no deadly legacy.

#### CAR-FREE DAY

Every year on September 22, traffic is banned from town centres across Europe. Known as 'In Town, Without My Car!' the day sees streets open up to walking, cycling, theatre, music, dancing and public art. In Wales, Monmouth Friends of the Earth is again helping ensure the town enjoys a car-free day, with events including bike rides and children's activities. To find out more, or to plan a car-free day for your town, go to [www.dft.gov.uk/pgr/sustainable/awareness/itwmc/](http://www.dft.gov.uk/pgr/sustainable/awareness/itwmc/)

# Is energy in Wales getting greener?

**Electricity generation is a major source of climate-changing carbon emissions in Wales. If we're to tackle our rising emissions, we have to find ways to produce cleaner power, and use it more efficiently**



**VERDICT:** Is Welsh energy getting greener? Slowly – but there's still a long way to go.

## MONSTER INCINERATORS

Massive plants for burning rubbish have been proposed for Cardiff and Merthyr Tydfil. These waste guzzlers need a guaranteed supply of waste for about 25 years, despite a 70% recycling target and our growing need to reduce and re-use resources. There are concerns about the climate change impact of the emissions, and possible pollution both from the plants and from transporting the waste. Friends of the Earth local groups are campaigning against the proposals.

## COPENHAGEN '09

In December 2009 the UN Climate Change Conference will take place in Copenhagen to negotiate a new global climate agreement. Friends of the Earth will be campaigning for 40% cuts by 2020 without offsetting, and financial help for developing countries. Following a week of mobilisation in November, there will be a day of action throughout the world on December 5th, when Stop Climate Chaos Wales (SCCW) will be organising an event in Wales. See [www.stopclimatechaos.org/tags/Wales](http://www.stopclimatechaos.org/tags/Wales)

## CLIMATE CAMP WALES

Wales could see more of the climate protests that happened at Ffos-y-Fran opencast site and Aberthaw power station in '08. A climate camp, similar to those at Heathrow airport and Kingsnorth power station, is likely to take place somewhere in Wales this summer. One of the world's top climate scientists, James Hansen of NASA, has said that peaceful protest and direct action are now legitimate responses to climate change, because of the inadequate action of governments.



# Inside the Assembly

All talk and no action? The last year has seen some big green promises from the Welsh Assembly. Now can we expect some action, asks **Haf Elgar**

The productive and progressive Environment, Sustainability and Housing department, led by minister Jane Davidson, has published no end of consultation papers in the last year. Strategies on sustainable development, climate change, energy efficiency, waste and green jobs have all set ambitious targets for a greener Wales.

But is this all just on paper? Whilst there are commitments for sustainable policies across government, a Gwent Levels motorway has not been ruled out, a massive incinerator is proposed for Merthyr Tydfil, and subsidising the Anglesey to Cardiff flights continues. Some Ministers struggle to agree with 3% annual emissions cuts yet the science of climate change tells us that at least 9% is necessary, and the Climate Change Commission's progress has been painfully slow.

But the Assembly Government has

**Darren Millar (Conservative), Mike German (Lib Dem), Alun Ffred Jones (Plaid Cymru) and Lesley Griffiths (Labour) browse Friends of the Earth's 'How can I stop climate change'**

made definite commitments to create Europe's largest Low Carbon Zone of 40,000 homes in the Heads of the Valleys, to bring in a plastic bags levy, and to provide business advice on sustainability. And there's more protection for our environment with strong new rules on GM crop growing and liability for environmental harm.

“ Some Ministers struggle to agree with 3% cuts yet the science tells us at least 9% is necessary ”

With a Climate Change Action Plan and campaign to follow in the autumn there's hope we will finally see some real action.

The Assembly's Sustainability Committee, energetically chaired by Mick Bates, is coming to the end of its major inquiry on carbon



Simon Williams

**Friends of the Earth Cymru campaigner Haf Elgar at the Senedd**

reduction in Wales, which has spanned nearly two years, six topics with separate consultations and dozens of evidence sessions. Four sets of recommendations have been published, and the final report is expected by autumn '09. It has been a substantial and practical piece of work, and shown the value of the new committee structure.

The politics of the Assembly will change significantly in the coming year, with Rhodri Morgan stepping down as First Minister after 10 years in the job. Having led the Assembly for nearly all of its life, his successor will want to put a strong stamp on the future direction of the government.

It seems there'll also be more cases of the Assembly vs. Westminster in the coming year. A key decision will be whether a new nuclear power station is built on Anglesey, which has already made the UK Government's list of suitable sites. Despite the Assembly's opposition to nuclear power, the UK Government could give it the go ahead.

And there's more friction caused by the 'Legislative Competence Order' (LCO) procedure by which new powers are devolved from Westminster to the Assembly. One of the first proposals, on Environmental Protection and Waste Management, was in a Whitehall bottleneck for over 18 months before finally being published at the beginning of May. And the simple enough LCO to transfer powers on traffic-free cycling and walking paths has found numerous stumbling blocks. For a body keen on transparency, the murkiness of this process has not done the Assembly any favours.

So is it all talk from the Welsh Government, or is there real green action just around the corner? We remain hopeful ●



Ian Homer

# Green light for green jobs

As world leaders call for a green new deal to rescue the global economy, Friends of the Earth Cymru director **Gordon James** looks at what this could mean in Wales

It's been a familiar, if inaccurate, charge aimed at environmentalists for many years – helping the environment destroys jobs. But now the number of people waking up to the potential economic benefits of green investment has never been greater.

Friends of the Earth has long argued the case that going green can actually create jobs. Way back in 1994, our report 'Jobs and the Environment' showed that spending money on the rail network created more jobs than spending on road building, wind energy creates more jobs per unit of electricity generated than nuclear or coal-fired power stations, and that organic farming and woodland management were excellent job creators.

Now, with the global recession biting hard, authorities across the world are looking to the green economy as a way out of the financial crisis. Lord Stern, the former chief economist at the World Bank, has called on world leaders to commit hundreds of billions of pounds to green investments. UN Head, Ban Ki-moon, has called for a global green 'New Deal' to tackle climate change and economic recession. In the USA, President Obama is aiming to create five million green collar jobs, while the EU has agreed to invest more than 100bn Euros in green jobs and growth.

Gordon Brown believes the UK can reap a bonanza of 400,000 green jobs in eight years, and here in Wales, our government has launched a consultation on a green jobs strategy. In it, ministers Jane Davidson and Ieuan Wyn Jones state, "Now is the right time to act on green jobs."

There is an enormous opportunity for Wales to take a prominent role in the green industrial revolution, but there's a lot of work to do. Too many Welsh homes and offices are not energy efficient, costing businesses money and contributing to fuel poverty among vulnerable sectors of society.

We have a flourishing organic sector in Wales, but our agriculture is still largely intensive. Green tourism, though now more widespread and

high-profile, is still very patchy and dependent on the commitment of individual businesses.

But the dramatic shift in government priorities at Welsh, UK and international levels shows that political will is at last in tune with what Friends of the Earth and its supporters have been working towards for years.

More than ever, circumstances now seem favourable for a transformation to a global green economy. This could create millions of jobs, whilst cutting carbon emissions and improving energy security.

“Now is the right time to act on green jobs”

In its response to the 'Green Jobs in Wales' consultation, Friends of the Earth Cymru stresses the need for radical action to ensure that we in Wales play our part in tackling the current recession and the threat of climate change. Recommendations include the setting of ambitious targets for creating green jobs, a greater emphasis on education and training for the green sector, the establishment of a green recovery plan similar to that being taken forward in the USA, and for climate change to be the primary concern of economic policy.

The Assembly Government has already set out its 'green stall', with ambitious targets to recycle 70 per cent of municipal waste and generate all Wales's electricity from renewable sources by 2025. It has also taken the lead in establishing a zero carbon buildings policy five years ahead of England, and aims to cut greenhouse gas emissions by three per cent a year from 2011 in areas of devolved power.

These are encouraging signs that Friends of the Earth's recommendations will be influential in shaping our future economic strategy. Amid all the gloom, it seems that there might just be a light at the end of the tunnel – and it's green ●

## WHAT IS A GREEN JOB?

Green jobs aren't just about organic farming and eco-tourism. Manufacturing, technology and construction in Wales are all benefiting from going green too

### Excel

Rhymney, Tredegar

Employed: 58

Manufactures fibre for insulation using recycled newsprint, and other building products from sustainable or recycled materials

### Filsol Solar

Ponthenri, Carmarthenshire

Employed: 13, 70 sub-contractors

Designs, manufactures, supplies and installs solar water heating and photovoltaic equipment

### Crest Co-operative

Llandudno Junction

Employed: 35-40

Projects include 'Against the Grain', reclaiming wood from local construction industries and 'Trash and Carry', providing materials for arts and craft salvaged from business waste

### Sharp UK

Wrexham

Employed: 400 - 500

Factory produces 4,000 solar panels every day. Is currently developing solar-powered amenity lights as possible new product

### Durisol

Crumlin, Gwent

Employed: 11

Designs and manufactures an innovative building material, 80% of which is made from recycled wood. Material has excellent thermal insulation performance

### Anthony A Davies

Abergavenny

Employed: 50

Carpentry and construction company. Works with lime-based products, and manufactures a range of environmentally-friendly laminated wood windows and doors



All over Wales, people are making their world a greener place. Wherever you live, you can get involved with a Friends of the Earth local group

## Getting active



**Sam Rex has been a member of Llangollen Friends of the Earth local group since its formation in 2007. So what are the campaigns and issues that inspire her, and what is the group up to next?**

### What made you first get involved?

I thought the members of the group would be really interesting to work with. And Llangollen's such a beautiful town, it seemed a good way to work on issues both locally and nationally.

### Most successful local campaign?

The plastic bag-free Llangollen campaign involved our whole group, was practical, and built positive relationships with local shops, schools and councillors. Some may be sceptical about the value of such a small campaign, but it really helped to establish us as a group.

### Most inspiring national campaign?

The Big Ask, which saw the UK government introduce the world's first climate change law. Probably for the same reason it inspired many thousands of other people – it proved just what we can achieve.

### Greatest environmental problem facing Wales today?

The inadequate response to climate change. And the environmental consequences of having such a poor transport infrastructure is a huge issue for Wales.

### Your best green advice?

Talk about issues you're passionate about in a way that connects with people with different perspectives. It's a hard thing to do, but if we care about environmental issues we must, otherwise we'll just alienate people.

### So what's next for Llangollen?

We've just agreed to work on the 'Get Serious about CO<sub>2</sub>' campaign (see p3). Some of the group have trained to do household energy surveys, another group is working on a local shopping campaign, and the plastic bag-free work continues.



Simon Williams

## Bleddyn Lake

Local Groups Development Officer

“ If you're thinking about starting a new group, get in touch and I'll help organise a launch meeting with lots of publicity. All you need to bring is plenty of enthusiasm and the desire to make your world a little greener. ”

## Get involved...

Most groups meet once a month and work on various local, national and global campaigns – find the relevant contact for your nearest local group on the map opposite. If you want to start a new group, contact Bleddyn Lake on 02920 229 577, or email [bleddyn.lake@foe.co.uk](mailto:bleddyn.lake@foe.co.uk)

## “Aren't you the lot who say no to everything?”

Well, no actually. Friends of the Earth local groups have always been involved in promoting solutions, not just opposing environmental destruction. Our success as an organisation comes from our commitment to local issues, as well as our massive national and international campaigns. It is the principle 'Think Global, Act Local' which sets us apart.

Local groups in Wales have set up and supported a wide variety of green projects and activities. From promoting local and organic produce, to recycling and renewable energy – all are projects that have made a real difference in our communities.

But there is no doubt that Friends of the Earth local groups have also long

been the environmental watchdogs of Wales. From toxic dumps to inappropriate development, local groups have successfully fought against proposals and plans in their areas which would have threatened the environment for everyone.

Not just thinking about their own backyard, local groups also play a huge role in national and international campaigns. Our groups have been a part of keeping Wales GM free, and ensuring the UK government introduced the world's first climate change law. And local groups are a vital part of our international organisation, working hard to promote an effective global agreement on tackling climate change in Copenhagen in December.

## Say Yes

Friends of the Earth local groups have promoted all sorts of positive action in Wales, including:

- Farmers Markets
- GM free areas
- Recycling schemes
- Safe routes to school
- Renewable energy projects
- Shop local initiatives
- Organic food festivals
- Local green directories
- Energy efficiency education
- Seed swaps



# Friends of the Earth local groups in Wales

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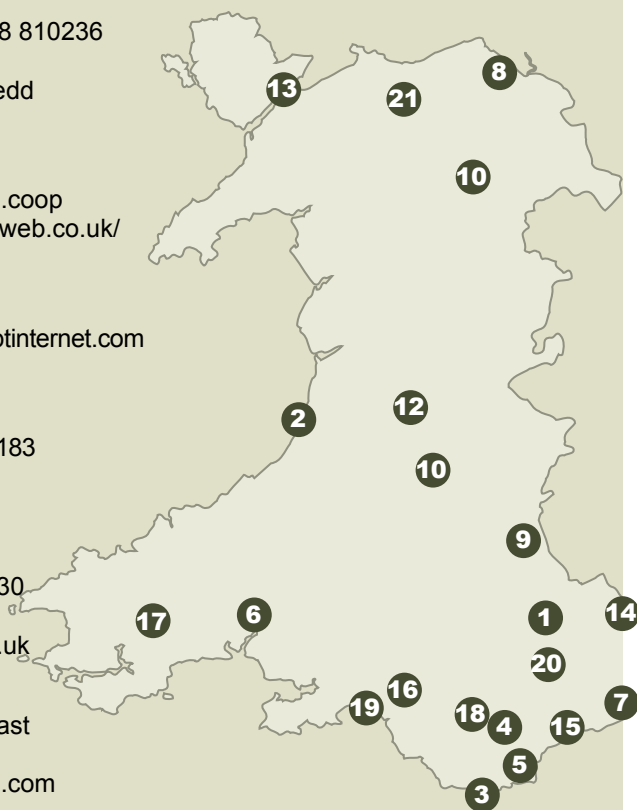
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## Take an old bag shopping

A plastic bag is used for an average of 15 minutes, each of us working through about 300 a year. This is not only a waste of resources – discarded plastic kills up to 1 million sea birds and 100,000 sea mammals every year.

Local groups around Wales have been blazing a trail in encouraging shoppers to ditch flimsy plastic bags in favour of sturdier reusable cloth and hessian ones. Llangollen Friends of the Earth started the ball rolling with a hugely successful plastic bag-free week back in 2007. Local traders offered jute carriers and biodegradable corn starch bags instead of plastic, and

even local school children got involved by designing the logos.

Since then, Pontypridd Friends of the Earth organised a massive plastic bag-free day in the run up to Christmas '08, supported by local AM and Assembly Environment Minister Jane Davidson. The Caerphilly group has succeeded in finding grant funding for more than 10,000 Fair Trade cloth bags, designed by local children, to be distributed through schools in the area.

Other groups campaigning to rid their towns of plastic bags are Abergavenny and Crickhowell, Heart of Wales, Carmarthen and Chepstow.



With towns, cities and even whole countries across the world banning plastic bags, there's never been a better time to take action and make your community plastic bag free.

# Fix the food chain



**You might think the typical Welsh farmland scene with cows grazing in green fields couldn't be contributing much to climate change. But what's feeding those cows all winter?**

**D**id you know that the meat and dairy industry causes more climate-changing emissions than every plane, train and car on the planet? And here in Wales, food accounts for 20% of our ecological footprint – and this doesn't even include the energy used in cooking and travelling to shops.

In recent years, Welsh farming has done well to promote an image of high quality, natural produce. This is why the Welsh Assembly Government supports conversion to organic farming, opposes GM crops, is cutting the link between the number of animals produced and the grant farmers get, and uses EU funds to support agri-environmental schemes.

But there's still a lot to do. Most intensive livestock producers in Europe, and some livestock farmers in Wales, depend on importing animal feed, usually soy from plantations in South America. Soy crops grown to feed chickens, cows and pigs in Europe now cover an area in South America that is already larger than the UK, and is growing rapidly. This cutting and clearing of the Atlantic Rainforest is threatening the wildlife and making climate change worse. If current trends continue, a massive 40 per cent of the Amazon will be lost to soy farming and cattle ranching by 2050.

This is the hidden part of the food chain we have to fix. It has to be easier and more affordable for farmers to either grow their own animal feed, or to buy locally produced. This could also make Welsh agriculture much more resilient to unstable external factors, such as global soy prices and the value of the pound.

Part of the issue is letting consumers know where their food is from so they can make informed decisions. Most of the food that's for sale in the supermarkets isn't from Wales, and rarely includes full information about the whole food chain. And only 22% of food and drink bought by the public sector in 2007 was from Wales, a figure that has actually fallen since 2005.

Friends of the Earth will be campaigning for a UK law to back a vision of farming that doesn't mean ripping up the rainforests. This includes a switch in UK subsidies away from intensive livestock production to sustainable farming and agriculture, helping farmers to grow their own animal feed and making sure that the food that's bought with public money, such as in schools and hospitals, is sustainable.

To get involved in the campaign, contact Friends of the Earth Cymru campaigner **Haf Elgar** on **02920 229577** or [haf.elgar@foe.co.uk](mailto:haf.elgar@foe.co.uk)



## There are already a number of good food projects happening around Wales. Help us to make them the norm, not the exception

### Tyn-Y-Fron Farm, Powys

Tyn-Y-Fron, in Mochdre, near Newtown, is one of the success stories of Welsh organic farming. Jonathan and Sally Rees supply top restaurants across Wales and England with their quality organic beef and pork, which is raised on home-produced feed.

During the summer months, their animals graze freely in the fields, while in winter their feed is made up of vegetation grown on the farm, such as kale for the cattle and turnips for the pigs. This system also saves the farm a lot of money, reducing the need to buy expensive imported feed.

“As a result of growing most of our own winter feed, we’re as near as you can be to self-sufficient. This really is making a huge financial difference to us, so important in farming today,” explains Jonathan.

### Clynyfw Farm, Pembrokeshire

Clynyfw Farm near Newcastle Emlyn has been in the Lewis-Bowen family since 1750, and is another example of successful sustainable farming. Animals are kept at a low stock density in order to allow more space to produce animal feed on-site.

“We have more than enough grass to graze and we make all the hay and silage we need for winter feed on our own land,” says Tom Lewis-Bowen, who runs the day-to-day aspects of the farm.

“We don’t buy in any feedstuff at all. The cattle receive small quantities of rolled barley which we grow ourselves and we also sell cereals to other organic farmers.”

### Community Food Co-operative

Richard Reast, co-ordinator of Pontypridd Friends of the Earth, works with the Rural Regeneration Unit, a not-for-profit organisation, which has received Assembly Government funding to establish a network of food co-operatives in Wales.

Richard’s job involves linking volunteers with local suppliers to provide quality, affordable fruit and vegetables to disadvantaged communities.

“At the moment, there are around 200 food co-ops in Wales, supplying more than 6,000 families and with a turnover of approximately £1m a year,” says Richard.

“The advantages are wide-ranging, both for customers and suppliers. People are eating more fruit and vegetables, which has a positive impact on their health, while farmers and producers get an extra, guaranteed source of income.”



Pupils from Catwg Primary School, Neath, visit the farm in Llanridian that supplies vegetables to their food co-operative

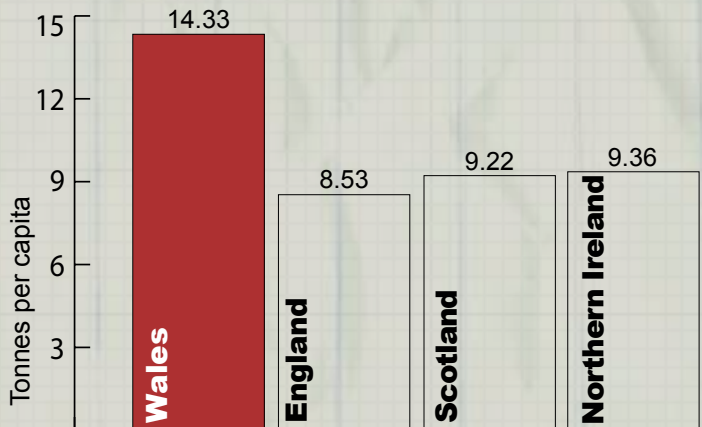


# Emissions in Wales

## CO<sub>2</sub> emissions per capita ('06)

Emissions in Wales are higher than other UK countries, mainly because:

- a larger manufacturing sector proportional to population
- poorer housing stock
- 11% of the electricity generated in Wales is exported to the rest of the UK



Country ranking worldwide,  
CO<sub>2</sub> emissions per capita

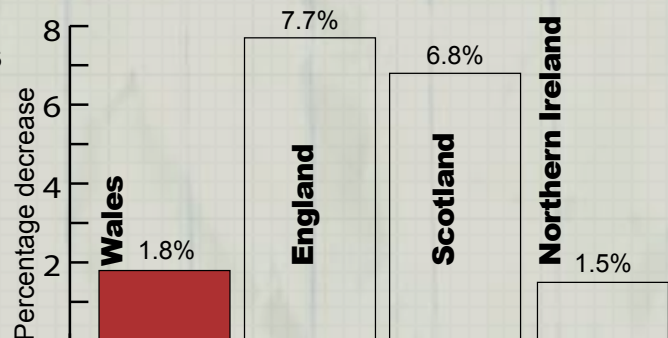
**Wales.....18th**      **Scotland.....47th**  
**England.....56th**      **Northern Ireland..43rd**

## Greenhouse gases

Gases measured since Kyoto Protocol (figure shows percentage of UK total):

Carbon Dioxide	85%
Methane	7.5%
Nitrous Oxide	5.8%
Hydrofluorocarbons	} 1.6%
Perfluorocarbons	
Sulphur hexafluoride	

## CO<sub>2</sub> emissions decrease (1990-2006):



## Emission reduction targets

### Wales

The Welsh Assembly Government has committed to a reduction of greenhouse gases, by 2011, of **3%** a year in 'areas of devolved competence'

### UK

The Climate Change Act (Nov '08) makes it the duty of the UK Government to ensure that UK greenhouse gas emissions for the year 2050 are at least **80%** lower than the 1990 baseline

### Sources

'Greenhouse Gas Inventories for England, Scotland, Wales and Northern Ireland: 1990-2006'

DEFRA, The Scottish Government, WAG and the Northern Ireland Department of Environment

'Carbon Dioxide Emissions in Wales' Gwasanaeth Ymchwil yr Aelodau / Members Research Service (2009)

## Main sources of greenhouse gas emissions in Wales ('06)

Power stations	27%
Iron and Steel	13%
Road transport	12%
Agriculture	11%
Residential	9%
Other industrial	8%
Oil refineries	6%
Landfill	2%
Others	12%

