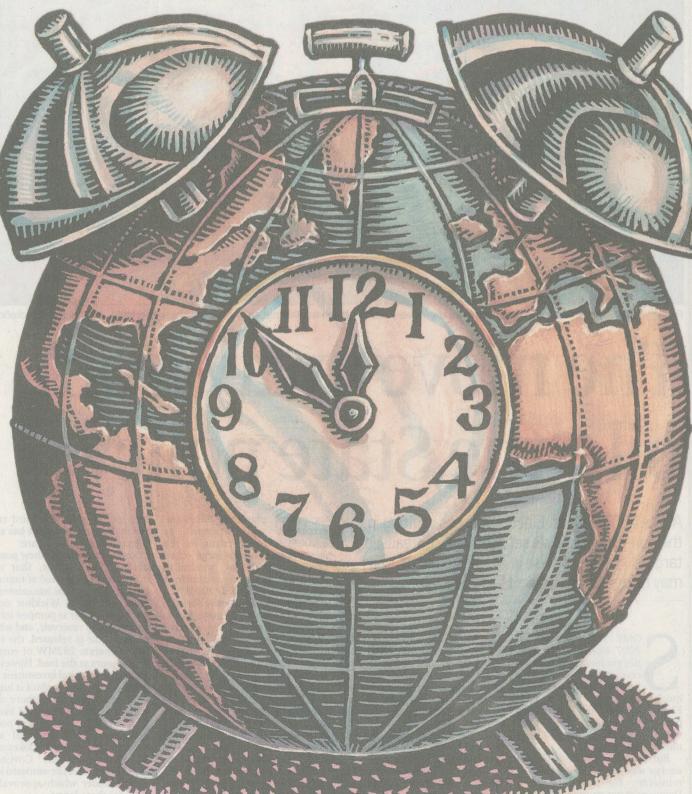
Time running out for old world resources



Not only must we accelerate the separation of energy and CO₂ emissions from economic growth, but Ireland itself should be working towards energy independence, writes John Gibbons

most colossal manmade structure, one area, 4.5km in height -75 times taller than Dublin's Liberty Hall. Imagine that orably, year by year. this building grows taller at the rate of seven or eight floors every 12 months. Then fill it with oil.

Now you have a picture of just how much of the stuff we burn every year. Twenty-nine billion barrels, to be precise. On a daily basis, that's around 82 million barrels. Ireland alone consumes nearly 200,000 of these a

Abundant oil has made the impossible possible. It took until 1804 - 100 centuries from the world's population to reach one

In the 200 years since then, the earth's population has grown almost sevenfold. And fuelling this mind-boggling expansion in our numbers was cheap, powerful and plentiful oil.

Modern agriculture feeds the teeming billions by essentially using the soil to turn oil and gas into food. Natural gas is used to make fertilisers, while oil is heavily used for farm machinery as well as the manufacture of pesticides and the operation of irrigation equipment. Plus, of course, we depend utterly on oil to get products from the field to our shopping trolleys.

It takes the equivalent of 350 gallons of oil a year to feed one American. Apart from the billions of barrels of oil we consume each year, we also burn around 5.5 billion tonnes of coal annually, the great bulk of which is used for electricity production.

This vast fossil-powered inferno

No time to waste - a mere two-degree increase in the earth's temperature will force us in to a new climatic era. Illustration: Getty Images

MAGINE THE world's is slowly cooking our planet. Atmospheric levels of CO₂ - a potent greenhouse gas - are now square kilometre in at their highest in at least a million years, and perhaps a great deal longer. These levels are rising inex-

> It takes a molecule of CO. upwards of a century to break down in the atmosphere, so the pollution from the oil we burned and the coal fires our parents lit 50 years ago are still heating our atmosphere today - and will con-

over the next century, continue to raise global temperatures.

We can say with some certainty that 1.5 degrees (of an absolute Sweden. Despite their high "safe" maximum of two degrees) is standard of living, the average already unstoppable.

Business as usual - meaning that we continue to pursue eco- the Irish figure. nomic growth by burning ever more fossil fuels - will most likely take us over the two-degree line within a couple of decades.

From that point, there will be tional conferences, austerity measures and well-meaning expressions of concern cannot prevent a catastrophe after it has occurred. The only time available to head off this scenario is right now.

The other reason to reduce our consumption of fossil fuels is rather more mundane, albeit practical: we are running short of oil tinue to do so long into the future. Thierry Desmaret, chief executive There is now "an urgent need to of Total, said in 2006: "We say to

One country that has demonstrated how consumption and emissions can be decoupled is Swede produces seven tonnes of emissions - about 40 per cent of

Drastic emissions cuts can be achieved, mainly via energy efficiency and conservation, if the political will is there.

Big business has long been seen no easy way back. All the interna- as the enemy of conservation, with its focus on share values and the bottom line, combined with industry's tendency to let someone else pay for its pollution and emissions. We share a finite, fragile world, however, and we are only now beginning to fully fathom that what goes around, rapidly comes

> Recently, the World Economic Forum (WEF), representing 100 of the world's largest businesses, issued a set of policy recommenda-tions ahead of next month's G8 summit. "Nothing less than a rapid and fundamental strategy to reach a low-carbon world economy is needed," the WEF stated bluntly. "Emissions will have to fall very strongly in all countries by 2050 if we are to avoid dangerous climate

Ireland is one of the most oildependent countries in the OECD, and yet our western seaboard offers hundreds of rugged, windswept miles of coastline capable of being converted into one of the world's biggest wind and wave generators. Harnessing this potential would slash our CO, emissions and free us from our dependence on other countries for our energy security

It could also allow us to become a net electricity exporter, via an interconnector, thus creating a vast, valuable, new "clean energy"

And we could use our abundant electricity to power an extensive high-quality electrified public

The investment involved in It is unfair to blame the Chinese achieving this goal of energy indefor overproducing; the reality is pendence would be huge, and in a Right now, we are well on the that China is mostly doing the world of soaring oil prices and dirty work of producing cheap growing climate uncertainly, there

0.7 degrees reckoned to be already accounts for 3.1 tonnes of emis-"in the system" in the form of sions, less than a fifth of the 17.5 matechange ie and the blog, ThinkOr-

This vast fossil-powered inferno is slowly cooking 1804 - 100 centuries from the end of the last Ice Age - for the OUT planet. Atmospheric levels of CO₂ are now at their highest in at least a million years

sions from economic growth", reports the International Energy

Put in simple terms, if we continue on our current path of everincreasing fossil fuel burning and spiralling emissions, we will, in the proximate future, irreversibly alter the climate on this planet in ways we can barely imagine.

The EU has decreed that under no circumstance can the planet's temperature be allowed to warm by more than two degrees versus pre-industrial levels. Beyond that new climatic era on Earth - one unlike anything recorded in human history.

way to two degrees. Already, global temperatures have risen by 0.8 degrees,, with an additional

consider ways to accelerate the governments, it's urgent to take decoupling of energy and CO₂ emisaction plans to reduce oil demand sions from economic growth", growth." Remember, this statement is not from Greenpeace, but from a senior oil industry figure.

Last year, about five million cars were sold in China alone. China is commissioning a new coalfired power plant on average every five or six days. It is now on target to overtake the US as the world's biggest economy - and biggest polluter - in the coming years.

However, much of China's massive industrial output is packed straight into containers destined for Dublin port, Rotterdam, Houpoint, and we will have entered a ston, Texas and elsewhere in the transport system. Western world.

goods for our throwaway Western can be no task more vital. lifestyles. A Chinese person heating of the oceans that will. tonnes for each person in Ireland.