

# Community Energy is the way forward



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“It’s time to get back to a Natural Grid where communities, working with nature, generate and own their local energy”.

As travellers swing west off the M1 onto the Catcliffe by-pass to Sheffield city centre the skyline will be dominated by the huge wind turbine by the side of the road. Wind energy. As they get closer to the city centre they will begin to see the solar panels on many houses. Solar energy.

However, these energy sources are dwarfed by the historical water energy provided by the four rivers from the west and the mighty Don from the north, which eventually hoovered up the Sheaf, Porter Brook, Rivelin and Loxley. Between them, they powered nearly 200 watermills over the centuries! Water energy.

These rivers gave Sheffield manufacturing clout, especially cutlery. Nature’s bounty, free, 24 hours a day! However, thanks to technological advances, coal became the energy supplier for steel production, making Sheffield the “Steel City”. However, the fossil fuel that powered the Industrial Revolution, coal, also caused terrible pollution. Edward Carpenter, a Sheffield icon in the Victorian era, could not live in the city, but took a cottage in the countryside, where he saw Sheffield as “Only a vast dense cloud . . . . down there

a hundred thousand grown people, let alone children, were struggling for a little sun and air, toiling, moiling, living a life of suffocation, dying (as the sanitary reports only too clearly show) of diseases caused by foul air and want of light — all for what? To make a few people rich!” (1889)

Today, fossil fuels are still heating our climate and our world, and our citizens are also in an energy crisis. The National Grid costs have gone through the roof, powered by imported oil and gas, thanks to privatisation and a government incapable of administering the nation!

It is time to think differently, very differently, and get back to a Natural Grid where communities, working with nature, generate and own their local energy. This will help meet one of the goals of the 2016 [Sheffield Council Green Commission Report](#): “Energy is generated and distributed locally by individuals and businesses”.

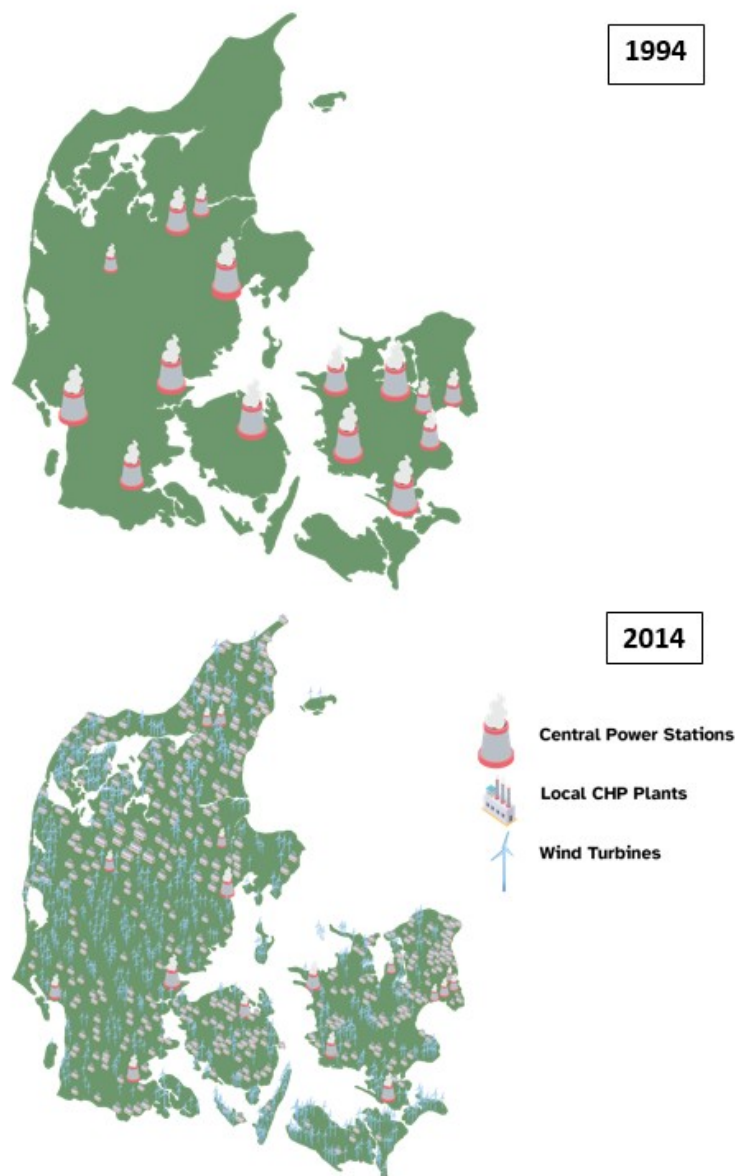
Unfortunately, this is contradicted by Labour’s plan for a national grid, i.e. Great British Energy. Any UK centralised energy distribution, for example, the National Grid, has proved to be very expensive and subject to imported fossil fuel, as we have so bitterly experienced.

First challenge: why do we need air conditioning in our buildings? According to the International Energy Agency, the use of air conditioning and electric fans is responsible for nearly 20% of the total electricity used in buildings worldwide, and by 2050, the number of air conditioning units will be more than three times what it is today, requiring as much electricity as the entire current energy consumption of India and China.

How did we even get there? It is because we approached the problem with a technology mindset, which leads to correcting a problem that should not be there in the first place. Correction, even refitting, is much more expensive. So, why not design a building that keeps the building naturally cool? This was done two thousand years ago when Persians sited buildings near underground alluvial streams, and using wind towers, brought the cold air from the water into the building.

The question is how to change this. We first have to change the way we experience and value nature. We would do well to go back almost to pre-history to see how our forebears did it. They worked with nature. They did not exploit it. Whether it was wind or water mills or Archimedean screws, it was always renewable – not consumed. *“We cannot solve our problems with the same level of thinking that created them”* (Einstein). So, we need to take different approaches.

### Denmark response to the diseconomies of National Grid



We must focus on the local Natural Grids which nature provides – free, the sun, wind and water. When the oil crisis hit in 1973 and fuel bills quadrupled Denmark reacted by building over a hundred natural grids. By 2022 their GDP had doubled and energy use diminished. Our recent ancestors knew this. Take Grassington in the Yorkshire Dales: the first hydroelectric plant at Linton Falls was constructed in 1909 by the Grassington Electric Supply Company on the River Wharfe. The power was distributed throughout Grassington on cables and attached to the chimney stacks of the buildings in the town. After passing through two owners the Linton Mill was re-established by JN Bentley in 2012, who re-engineered the site, installing two Archimedean [screw turbines](#) to generate enough electricity for 90 houses. The re-engineering of the plant also minimised the impact on the local wildlife on the banks and water. Additionally, the screws are wide enough to allow small objects, such as leaves and fish to pass through with harm.

Consequently, with these examples in mind, I suggest that our task has to be to persuade councils and developers to make energy conservation the primary objective in any new builds – and to persuade people to conserve energy. Then we can, in parallel, make the case for natural grids.

**This essay was first published by**

**[Tell The Truth Sheffield](#)**

**Reference: Carpenter, Edward. 1889 Essay  
[“Civilization: Its Cause and Cure”](#)**

**A conference was held on March 16th to discuss and  
plan a way ahead on this basis:**

***Expanding Community Energy in South Yorkshire at  
the Cemetery Road Baptist Church.***

**The results of the conference are on going.**