100 Days of Hope 13

Primarily funded by the multi-million pound Avrshire Growth Deal, 'CoRE' is an innovative renewables project in Cumnock which utilises the area's natural resources to provide a low cost energy network, reveals Andrew Collier

HERE'S a lot of wind in East Ayrshire. So much of it, in fact, that the local wind turbines sometimes have to be switched off as there currently isn't anywhere for all that excess energy to go. It also often rains quite heavily in the area. However, this blustery and wet weather isn't a problem as much as an area. However, init's busiety and wet weather isn't a problem as much as an opportunity. It has helped to forge new thinking and to drive a groundbreaking new project that is set to create an ambitious and thriving local low carbon

ambinous and thriving local low carbon contony. The aim is to regenerate the area and give it a green future after the demise of deep coal mining in the area in the 1980s and the last opencast coal surface mine in Scotland ending production during ly 2020. A bold new scheme will quite literally involve making East Ayrshire a powerhouse of innovation. The Community Renewable Energy Froject, known as CoRF, is to be based in Curmock and will build on the area's atelf sustaining network of low cost energy from renewable sources such as wind, solar, geothermal and hydro. The aim of the initiative is ottimulate community wealth building and to help reach ambitous national and global targets in order to make all local communities, building, transport and yoats. The Roe RE project is being funded with 177 million from the UK Government and T75 million from the XK government of 275 million from the XK apyrise founcies and the funder with 177 million from the LK Government and the to the site of the site funded with 177 million from the UK Government and the to the site of the site million Ayrshire Growth Deal, a 10 year investment programme jointly funded by

Ayrshire Growth Deal, a 10 year investment programme jointly funded by the UK and Scottish governments and

the UK and Scottish governments and local authorities. "What we are trying to do with CoRE is to create a community which is sustained in terms of its electrical power and energy requirements by using the opportunities we have locally", explains Karl Doroszenko, East Ayrshire Council's Development Planning and Regeneration Manager. "We want to create a locally distributed grid. There are a whole range of generation opportunities here. We have plenty of wind for turbines as well as water for hydro. In addition, we also have water from mines beneath the earth's surface. These are all things we can tap into?

earth's surface. Howe are can tap into." The CoRE project goes beyond energy generation. SP Energy Networks and The University of Strathclyde, will play a major role in the delivery of the project



Giving power to the people is elemental



helping the country reach net zero target

and the subsequent innovation programme. Strathclyde is host to one of the most successful energy research hubs in Europe, home to hundreds of dedicated energy researchers, including facilities such as PNDC and National Manufacturing Institute of Scotland (NMIS). The University has an extensive track

(NMIS). The University has an extensive track record in transitioning the UK's energy systems towards a low carbon future, accelerating the development, de-risking and deployment of renewable energy technologies and successfully driving technologies, and successfully driving evidence-based policymaking for a prosperous net zero society. Other local and national bodies are

involved as partners and research for further opportunities will also play a big part. The initiative will be built at Knockroon outside Cumnock, next to the recently completed Barony Campus. Key to CARE will be an International Centre of Excellence. The plan is to develop this as a zero carbon hub

develop this as a zero carbon hub providing workshop and office space for multidisciplinary research into solutions for energy storage and networking along with matching supply with demand entirely through local renewable facilities.

The plan is that all this should

The plan is that all this should The plan is that all this should revolutions theore mewable energy is generated, stored and using together energy systems, the straight together energy knowledge. The straight the straight together energy knowledge and the straight together and economic growth. Highly skilled jobs will be attracted and created and business startups will be encouraged as part of a huge programme of building refurbishment -something that will encourage businesses, homeowners and trenants to make their houses and premises more energy efficient. Kard Dorszenko provides an example premises more energy efficient. Karl Doroszenko provides an example

of the imaginative thinking driving the project. "Sometimes the wind blows so much that the local turbines have to be switched off because there's nowhere for the power to go. we don't have the infrastructure to take advantage of it. "Why can't we just use the opportunity to generate and storp the towere locally"

"Why can't we just use the opportunit to generate and store that power locally? And we are considering combining this with geothermal activity. There is warm water in the old mine workings and to heat it up further doesn't take a huge amount of power. "The CoRE project is about bringing different technologies together to serve the needs of the community. The aim is



CoRE aims to create a community which is sustained in terms of its electrical power and energy requirements

"That makes it perfect for the energy transition because there's a huge surplus of power from wind. There's also a strong appetite for the project from community groups and so a lot of engagement locally. "In addition, there are also 26 post-industrial sites that can be repurposed and used to bring in either further renewables generation or associated businesses." As well as providing power locally, the

renewables generation or associated businesses: As well as providing power locally, the energy generated should also be able to be exported to the wider grid, he says. "There are plans to put in balancing and storage with battery and green hydrogen and generation equipment that would use surplus wind captured. "When it isn't blowing, then we will be able to generate back onto the grid using clean and renewable energy at a time when prices will be at a premium. That's part of the wider vision. "We're also looking at projects involving the growth of organisms, food and other things using wind power to upgrade the heat of the mine water. The whole idea is to set the pace for the "With the tare on at the beat of the first

future. "With net zero at the heart of its strategy, Strathclyde continues to lead energy innovation to deliver real change for a just transition and a more ainable, net-zero nuture. ail: CoRE@east-ayrshire.gov.uk

Youngsters energised by project's potential as catalyst for change

THE energy transition has captured the

THE energy transition has captured the imagination of young people in particular, and the CoRE project is ensuring that they are at the centre of the debate locally. Their response has been hugely enthusiastic. East Ayrshire has its own Children and Young People's Cabinet and efforts have been made to ensure that it has been brought into the centre of the discussions.

The cabinet was first formed three years Ine cabinet was first formed three years ago. "A lot of the work we do links with the council", its Chair, Ewan Carmichael, who is also a fifth year student at Klinnamock Academy, says. "We collaborate on how we can solve various problems and we work with a lot of different organisations." He and his fellow members have been consulted about the Ayrshire Growth Deal, of

which the CoRE project is part, and its impact

which the CoRE project is part, and its impact on young people. "It's absolutely fantastic that East Ayrshire will be the location for this fantastic new project", he says. "We have COPE's coming up in Glasgow and here we have a local children's climate conference taking place, so we really are focused on climate change. We see CoRE as a very positive thing and are excited by what could come out of the developments associated with it." "East Ayrshire", he says, "is an area with a lot of life and enryg and i desarves to be showcased. We do have a lot of opportunities, but we need something to put it back at the forefornt. There are a lot of young people here who are really skilled and organisations doing a lot of god work."

opportunities for research that CoRE will provide. The young, he adds, are often catalysts for things like tackling climate change, taking to their parents and telling them what they have learned. "It's about nagging them in a positive way about things like recycling and energy and I'm sure there will be the same entrusiasam about this project in East Ayrshire. I love living here and think it's a fantastic place. And we have some great young people who also wantto put it on the map."

opportunities that will be created in jobs have not been invented yet. "These will in how we can solve the climate emergenc see this in East Ayrshire, where we have cy. We'll

many bright people." Councillor Claire Leitch, Cabinet Member Councilor Clare Leitch, Cabinet Member for Children and Young People, Net Zero, Environment and Climate Change, Equalities and Inclusion said: "The amblitions behind CoRE fit very well with the portfolio I'm proud to hold as a councillor. The project will undoubtedly provide educational and career opportunities for young people, and help to



Left, a CGI image* of CoRE. Above,
Young People's Cabinet Chair Ewan
Carmichael and Councillor Claire Leitch

reduce carbon emissions in the home, businesses and the environment as a whole. It will also boost equalities by tackling fuel poverty, improving the carbon footprint of our both private and social housing stocks and bolstering the local economy with a secure supply of reliable, low cost and carbon friendly

'I'm excited about the prospects of using "I'm excited about the prospects of using the very sites, which once were part of the carbon problem, and "re-purposing" them to re-empower the local area in a way which will be a leading example for a clean green future for local and global communities, our planet, our children and young people."







Community Renewable Energy Project



