

ENERGY STRATEGY EXECUTIVE SUMMARY EXECUTIVE SUMMARY

In order to achieve Swansea's vision '*to create a safer, greener, smarter, fairer, healthier and richer Swansea*', we must act to

- invest in renewable energy (solar, hydro, wind, tidal, biomass etc.);
- reduce our own rising electricity and gas costs and those of our communities;
- invest in energy saving and storage initiatives (LED; insulation; smart controls; batteries etc.)
- deliver targets on CO2 emissions (£% per annum savings) and reduce our Carbon Reduction Commitment Energy Efficiency Scheme (CRC) charges;'
- meet energy efficiency standards e.g. BREEAM; and
- look at innovative energy generation and saving initiatives, which can create economic benefit, including employment and inward investment in Swansea, building on world class projects like the Tidal Lagoon.
- look to increase local energy security, becoming less reliant on imported fossil fuels and less exposed to higher energy prices in the future.

Energy Strategy Aim:

City & County of Swansea will contribute towards a sustainable low carbon economy by delivering an Energy Strategy that delivers real benefits to society, the economy and the environment and sets out our wider and long term aims for energy across Swansea the place, as well as the council within the context of national and international developments.

Energy Strategy Objectives:

Objective 1: To reduce energy consumption and improve the energy efficiency of City & County of Swansea's public building and housing stock portfolio

Objective 2: To invest in renewable technologies that will benefit the council and the wider community

Objective 3: To secure or facilitate community access to affordable low carbon/renewable energy

Objective 4: Explore and maximise commercial opportunities to benefit community wellbeing and/or financial gain

Objective 5: Ensure Energy Strategy and action plan are delivered in line with current legislation

Through implementation of the Energy Strategy action plan the City & County of Swansea will mitigate the:

- Effects of Climate change by reducing their carbon emissions
- Risks associated with Energy security by sourcing low carbon/renewable energy sources and eradicating fuel poverty
- Risks associated with increased energy costs

and define what an 'Energy Self-sufficient city means Swansea'

The Council's current activities include:

- on-going HRA investment in our housing stock (new boilers, insulation, cladding, replacement windows etc.) making our tenants homes warm and energy efficient
- the refit of street lamps with lower energy use LED
- a small sample of PV (solar) on schools
- a small number of biomass and CHP projects (schools and Leisure centre)
- mechanical and electrical works across buildings delivering greater energy efficiency
- the establishment of a community group (Swansea Community Energy & Enterprise Scheme, SCEES) to own and run renewable installations in the City & County of Swansea.
- Development of a district heat network for the city centre

All of these projects contribute to reducing the council's carbon footprint and energy costs as well as contributing towards the Corporate Priorities of;

1. Safeguarding vulnerable people
2. Improving pupil attainment
3. Creating a vibrant and viable city and economy
4. Tackling poverty
5. Building sustainable communities

What we propose and what more can we do:

- Support the roll out of Smart Meters in all domestic properties by 2020
- Set up the corporate governance and management structures to deliver our centralised energy strategy across departments. An internal team should take ownership of the energy strategy and meet regularly to drive forward the strategy
- Assess our entire schools' estate for biomass and solar feasibility to generate and provide cheaper energy
- Map our land based assets and assess feasibility for wind, solar and hydro potential
- Assess our buildings for energy saving initiatives and possible PV, biomass boilers, ground source heating etc.
- Explore options to develop heat networks across existing building stock and new developments in the City Centre and across the county
- Identify budgets for investment and access appropriate grants and subsidies
- Set out and timetable a list of potential projects that can be assessed through a small business cases for Council approval
- Look at energy technology capital investments as a driver to:
 - reduce fuel poverty
 - reduce our own energy costs and CO2 emissions across our estate
 - provide economic stimulus and significant jobs
 - build new industries, research and innovation in partnership with the public, private and third sector