

Swansea Council













Building Better Homes

Rising to the climate change challenge:
The role of housing and planning within local councils

TCPA-APSE May 2022

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What's happening in Swansea

A Net Zero Swansea Council by 2030 The journey so far			
 <p>A 55% reduction on 2010 Carbon Reduction Commitment emissions in 2019/2020</p>	<p>A Pension Fund commitment to reduce fossil fuel investments by 50%</p>  <p>over 4 years</p>	 <p>12 Council car parks electric vehicle charge points installed serving 32 recharging bays</p>	<p>All our electricity is from</p> <p>100% renewable energy sources</p> 
<p>580kw of community solar energy panels benefit our schools and communities</p> 	<p>New Council houses are super-energy-efficient built to a "Swansea Standard" with solar battery storage and air source heat pumps</p> 	 <p>Our cycle network has grown 25% over 3 years</p>	<p>Our fleet runs 40 Electric Vans and an electric car!</p> 
<p>Eco-Schools early joiners</p> 	<p>64% recycling levels by 19/20 target achieved by Swansea</p> 	<p>21,053 street lights upgraded to low emission LEDs</p> 	<p>Dragon Energy Island & Swansea Bay Tidal Lagoon championed</p> 

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More Homes

- Demand driven need for social housing in Swansea
- Fact finding pilot schemes - 4 year Plan to deliver 140 Homes
- Cabinet agree a plan to develop 1000 homes over 10 years 2021-2031 following successful pilots
- One Council approach – schemes designed and built by our in house Service Teams
- The emergence of the Swansea Standard specification and initial pilot - PassivHaus accredited standard

Key Drivers

- Council's desire to drive own new-build housing programme
- Develop highly energy-efficient & environmentally conscious homes which -
 - Reduces primary energy demands
 - Reduces carbon footprint
 - Reduces energy bills – tackling fuel poverty
 - Welsh Design Quality Requirements (WDQR) and Lifetime Homes compliant
 - All have private gardens and accessible green space
- Building homes and communities not just houses – creating environments which are comfortable & contribute towards positive health & well-being

Swansea Standard -HAPS

- Set out to achieve a 25% uplift on Building Regulations thermal performance standards of primary elements and a fabric first approach
 - Timber-frame structure and floors – highly insulated
 - High performance doors & triple-glazed windows
 - Improved air-tightness ($5\text{m}^3/(\text{m}^2.\text{hr})@50\text{Pa}$)
- Recognisable construction form – efficiencies in term of scalability
- Can be combined with other technologies
- Ground Source Heat Pumps (GSHPs), PV solar roofs, battery storage and Mechanical Ventilation Heat Recovery (MVHR) Systems.

Swansea Standard Developments



Swansea standard developments



Haps Technologies



Thank you

- Thank you for listening – any questions ?