

**Community  
Housing  
Cymru  
Events**



# **Low Carbon Conference 2019**

**Copthorne Hotel, Cardiff**  
*18<sup>th</sup> July 2019*

# Low Carbon Conference 2019

## Copthorne Hotel, Cardiff

Thursday 18<sup>th</sup> July 2019

09:00AM	<b>Refreshments, networking and exhibition viewing</b>
	Castell Lobby
9:30AM	<b>Welcome</b>
	Caerdydd Suite
	<i>Bonnie Navarra - Conference Chair</i> <i>Lead Change Maker, Office of the Future Generations Commissioner</i>
	@BonnieNavarra
09:45AM	<b>Keynote</b>
	<i>Julie James AM, Minister for Housing and Local Government</i>
	@wgmin_housing
10:15AM	<b>Decarbonising Homes in Wales: Report and Recommendations</b>
	<i>Chris Jofeh, Chair, Advisory Group on the Decarbonisation of Homes in Wales</i>
	Chris will provide an overview of the report and recommendations on the decarbonisation of Wales' existing housing stock. He will identify its impact on social housing and the role that HAs in Wales will play. The talk will be followed by a short Q and A session.
11:00AM	<b>Refreshments</b>

<b>11:30AM</b>	<b>Homes of Today for Tomorrow: Research and Findings</b>
	<i>Dr Ed Green &amp; Dr Simon Lannon, Welsh School of Architecture</i>
	<p>An overview of two recent research projects conducted by the Welsh School of Architecture - exploring retrofit pathways for the Welsh housing stock, and informing the ongoing development of a route map for decarbonisation.</p> <p>From attending this session, delegates will:</p> <ul style="list-style-type: none"> <li>• Gain an account of research underpinning Welsh Government's agenda for decarbonisation of the national housing stock.</li> <li>• Hear an explanation of the nature and impact of likely pathways to decarbonisation for existing house types.</li> <li>• Understand the key factors likely to influence the strategy adopted for decarbonisation of housing in Wales.</li> </ul>

<b>12:15PM</b>	<b><u>Workshop 1</u></b> <b>'Thinking Differently' – what does it really mean?</b>
	<i>Andy Middleton, Chief Exploration Officer, The TYF Group and Mark McKenna, Co-founder/Director, Down to Earth Project</i>
	<b>@gringreen / @TYFAdventure</b>
	<b>Caerdydd Suite</b>
	<p>Wales must reduce its carbon emissions by 80% in 15 years. Decarbonising community housing business models, supply chains, operations and life choices is the biggest and most important challenge of our time. Housing organisations will have to work in radically different ways to play their fullest role in building a resilient future.</p> <p>Andy and Mark will offer challenge and fresh perspectives on the critically important elements of scale and pace of change, and how to create the culture and leadership that enable it. From attending this session, delegates will:</p> <ul style="list-style-type: none"> <li>• Find out what it means to link head and heart for action on climate and sustainability</li> <li>• Learn from practical change from TYF, Down to Earth and others making shift happen</li> </ul>

12:15PM	<b><u>Workshop 2</u></b> <b>The Science Behind Climate Change</b>
	<i>Dr Claire Earlie, Lecturer in Coastal Processes, School of Earth &amp; Ocean Sciences, Cardiff University</i>
	<b>@ClaireEarlie</b>
	<b>Harlech Suite</b>
	<p>Claire's talk will address the scientific basis behind our changing climate. Looking towards the coastal zone in the south-west UK, Claire will present recent research on how rising sea levels, extreme waves and storminess influences our UK coastlines.</p>

  

12:15PM	<b><u>Workshop 3</u></b> <b>Carbon Literacy – Changing Behaviours through Collaboration</b>
	<i>Rhodri Thomas, Principal Sustainability Consultant, Cynnal Cymru</i>
	<b>@CynnalCymru</b>
	<b>Caerffili Suite</b>
	<p>Carbon Literacy is “an awareness of the carbon dioxide costs and impacts of everyday activities, and the ability and motivation to reduce emissions, on an individual, community and organisational basis”. In Greater Manchester, 21 housing associations are all working together on Carbon Literacy. This session asks if a sector-wide approach could accelerate decarbonisation activity in Wales.</p> <p>From attending this session, delegates will:</p> <ul style="list-style-type: none"> <li>• Understand what Carbon Literacy is and how housing associations can become Carbon Literate</li> <li>• Learn about the behaviour change role of Carbon Literacy in decarbonisation</li> <li>• Discover how other organisations are using Carbon Literacy in the UK and Wales</li> </ul>

<b>1:00PM</b>	<b>Lunch</b>
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<b>1:45PM</b>	<b>Reaching Carbon Neutral by 2050, The Dutch Approach</b>
	<i>Dolf Neilen, Sustainability and Energy Saving Advisor, Aedes</i>
	<b>@Aedesnet</b>
	<b>Caerdydd Suite</b>
	Dutch housing associations want to achieve a carbon neutral energy supply in their stock by 2050. Aedes, the Dutch branch organisation, developed a strategic tool with 4 scenarios how to reach this goal. The fact that 90% of our almost 300 members filled it in gives us a thorough image of our ambitions. On the tactical and operational level it is evident to choose an approach in which the transformation of our stock, the regional energy transition and the affordability for our tenants comes together.

<b>2:30PM</b>	<b><u>Workshop 1</u></b>
	<b>Retrofit to Passivhaus Standard</b>
	<i>Harry Paticas, Director, Arboreal Architecture</i>
	<b>@HarryPaticas</b>
	<b>Caerffili Suite</b>
	<p>A 1978 mid-terrace townhouse in London has become the first certified step-by-step EnerPHit retrofit in the UK. The 3-storey property is both home and project of architect Harry Paticas, of Arboreal Architecture.</p> <p>Delegates will hear about the work undertaken and what we in social housing can learn from this project, and take it forward at pace and at scale to meet Wales' carbon emission reduction targets.</p>

<b>2:30PM</b>	<b><u>Workshop 2</u></b>
	<b>Moving from Insights to Innovation to Address Energy Vulnerability in a Low Carbon Energy</b>

## Future

*Dr Rose Chard, Catapult Energy Systems*

**@rrchard1**

**Harlech Suite**

Delegates will learn about the work undertaken by Energy Systems Catapult, with the Welsh Government Smart Living team and Cardiff University.

Dr Chard will draw on a range of work undertaken about how fuel poor households can be supported as the energy system changes with decarbonisation, decentralisation and digitalisation, such as how emerging low carbon innovations may complement or undermine achieving energy justice outcomes for vulnerable households.

From attending this session delegates will gain a better understanding of the relationship between low carbon innovation, energy justice and fuel poverty.

**2:30PM**

## **Workshop 3**

### **Myth Busting & Decarbonising Our Homes**

*James Moxey, Consultant Business Development Manager, WoodKnowledge Wales*

**@SkyMountainInfo / @WKWales**

**Caerdydd Suite**

As climate change and the need to decarbonise becomes more widely and urgently considered, James explores different approaches to carbon including terminology and what it all really means to us in the sector. He will also consider the business case for decarbonisation including MMC in our approach.

From attending this session, delegates will:

- Discuss myth busting different terminology – low carbon, zero carbon, net zero, negative emissions
- Learn examples in the housing sector
- Discover a route-map from high-carbon to negative emissions

<b>3:15PM</b>	<b>Refreshments</b>
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<b>3.30PM</b>	<b><u>Workshop 1</u></b> <b>Decarbonising Housing Through Biodiversity and Greening</b>
	<i>Dusty Gedge, Green Infrastructure Consultancy</i>
	<b>@GreenInfraCons</b>
	<b>Caerffili Suite</b>
	<p>This session will identify the benefits of decarbonising housing through biodiversity and greening.</p> <p>The Green Infrastructure Consultancy will speak about the work they do and how we can incorporate green infrastructure in social housing (both in new build and retrofit contexts). They will also share the lessons they have learnt so far in this area.</p>

<b>3.30PM</b>	<b><u>Workshop 2</u></b> <b>Electric Cars - Acceleration in Wales</b>
	<i>Neil Lewis-Ynnis Sir Gar/TrydaNi</i>
	<b>@LowCarbonLewis/ @CarmsEnergy</b>
	<b>Harlech Suite</b>
	<p>How can we decarbonise transport for all in Wales? How do we achieve cleaner, quieter streets and affordable efficient modes of transport available for more of our communities? This session will explore a co-operative way forward through "TrydaNi".</p>

<b>3.30PM</b>	<b><u>Workshop 3</u></b> <b>Insights from NEA's Recent Technical Trials in Fuel Poor Households</b>
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	<i>Michael Hamer, Technical Development Manager, National Energy Action</i>
	<b>@NEA_UKCharity</b>
	<b>Caerdydd Suite</b>
	Michael will discuss the high-level findings from NEA's technical trials conducted over the past 3 years, involving fuel poor households, sharing key learnings and best practice. There will be an opportunity for delegates to share their own experiences.

<b>4.15PM</b>	<b>Going Further with Innovative Housing</b>
	<i>James Williams, Managing Director, Sero Energy</i>
	<b>@ James_at_Sero</b>
	<p>Sero Energy is working in a joint venture with Pobl on the UK's largest new build and retrofit energy projects. In this session James will share his experience in working on projects:</p> <ul style="list-style-type: none"> <li>• Parc Eirin – 225 homes in Tonyrefail – which is the largest scheme to date supported under the Welsh Government Innovative Housing programme.</li> <li>• Penderry Retrofit – the retrofit of 644 homes (all social housing) in Swansea with PV, battery storage and intelligent controls to address fuel poverty and community energy generation.</li> </ul> <p>James will outline how innovative homes can go further and compliment the transition to clean energy on the grid network whilst driving energy costs down for residents.</p>

<b>4:45PM</b>	<b>Closing Remarks</b>
	<i>Bonnie Navarra - Conference Chair</i> <i>Lead Change Maker, Office of the Future Generations Commissioner</i>
	<b>@BonnieNavarra</b>

<b>5:00PM</b>	<b>Conference close</b>
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