

# Super-Efficient Appliances Pave the Way to Net-Zero

## IEA's 7<sup>th</sup> Annual Global Conference on Energy Efficiency

Tuesday 7 June 2022: 14.30-16.45 CEST

Salen Room, Alsik Hotel, Sønderborg, Denmark

### Objective

The objective of this workshop is to highlight the important role energy using appliances and equipment can play both in short term actions to reduce energy consumption and in the medium to long term where they are essential to meeting net zero ambitions.

This will be demonstrated by an introduction based on the experience of appliance policies over the past three decades followed by two sessions looking at very different types of equipment.

In both cases, the current focus on energy efficiency could be harnessed to achieve impact quickly.

For industrial electric motors, which consume about half the world's electricity, the regulatory infrastructure is all in place and harmonised globally. The long life of equipment and the practice of repairing motors are preventing the turnover of stock to motors that are more efficient, even though the costs of the switch can generally be paid back in a few years, or in some cases months. Incentive schemes to replace motors could have an impact, fast.

For heat pumps for residential space and water heating the situation is very different. These products are relatively new to the market, measurement methods and performance standards are uncommon and diverse where they do exist, and there is no global movement working on harmonisation. The need to transform markets for these products is driven by the need to electrify space and water heating to make better use of renewable energy generation, and now even more urgently to reduce dependence on fossil fuels. These products are still relatively expensive and a mystery to consumers. Applying incentives to reduce costs, and information campaigns to increase consumer confidence, are short term measures that can make a difference quickly. At the same time, the regulatory infrastructure needs to be built to drive the scale-up of markets and reduce costs in the medium to long-term, while keeping out poor quality equipment that could lead to customer dissatisfaction.

Agenda	
14h30-15h05	<p><b>Welcome Session</b></p> <p><b>Chaired by Ms Kelly Speakes-Backman, Principal Deputy Assistant Secretary for Energy Efficiency and Renewable Energy, US Department of Energy</b></p> <ul style="list-style-type: none"> <li>• Mr. Abhay Bakre, Director General, Bureau of Energy Efficiency, India, 2023 G20 Chair</li> <li>• Mr. Ulrich Benterbush, Deputy Director General, Chair of the Energy Efficiency Hub, BMWK Germany, 2022 G7 Chair</li> <li>• Ms. Ibu Puspa Dewi, Director, Ministry of Energy and Mineral Resources, Indonesia, 2022 G20 Chair</li> <li>• BEIS UK Government, CoP 26 President</li> </ul> <p><b>Where has Appliance Policy got us and what do we need to take us next?</b></p> <p><b>Christine Egan, Chief Executive Officer, CLASP</b></p> <p>This presentation will highlight the achievements of appliance policy in past decades, drawing on results of recent research including that from the IEA 4E TCP (Technology Collaboration Programme) and CLASP. It will set the scene for the event, calling on policy makers to ramp up appliance policies and programmes to address both the short and long-term challenges facing the global energy system.</p>
15h05-15h50	<p><b>Special focus on Electric Motor Systems</b></p> <p>The first session will bring together motor manufacturers, policy-makers and other stakeholders to examine the crucial question of how the most efficient industrial electric motor systems can be deployed worldwide. It moves beyond a discussion of standards and labelling to a practical discussion of incentivising the market.</p> <p><b>Scene setter:</b> Ms. Rita Werle, IEA 4E TCP Electric Motor Systems Annex</p> <ul style="list-style-type: none"> <li>• Mr. Rodrigo Fumo Fernandes, Global Engineering Director, WEG Industrial Motors &amp; Energy</li> <li>• Ms. Rana Ghoneim, Unit Chief, Department of Energy, UNIDO</li> <li>• Mr. Sebastian Linko, Group Vice President - Head of Communications, ABB Motion</li> <li>• Ms. Marie Hammer, Director, Industry Affairs, Danfoss Drives</li> <li>• Mr. Jalel Chabchoub, Chief Investment Officer / Energy Efficiency Expert, African Development Bank</li> <li>• Mr. Pierre Cazelle, Director - Global Partnerships, International Copper Alliance</li> </ul> <p><b>Moderator:</b> Ms. Mel Slade, International Energy Agency</p>

<b>15h50-16h30</b>	<p><b>Special focus on Heat Pumps</b></p> <p>The second session will focus on the rapidly developing global market for heat pumps. Speakers will present practical insights of how heat pumps can be deployed most rapidly and effectively in the short term, while being aware of the medium and long-term implications of technology development and performance. The focus of the session will be on the policies and programmes that governments could implement in the short and medium term. These could include a range of incentive programmes to speed up the deployment rate for example rebates, tax incentives and a heat pump technology prize to raise the average efficiency of products sold globally.</p> <p><b>Panelists</b></p> <ul style="list-style-type: none"> <li>• Mr. Thomas Nowak, Secretary General of the European Heat Pump Association</li> <li>• Mr. Stephen O'Connor, Managing Director at Electric Ireland Superhomes</li> <li>• Ms. Guro Solem, CEO of Winns</li> <li>• Ms. Caroline Haglund Stignor, Assistant Manager at the Heat Pump Centre at RISE Research Institutes of Sweden</li> <li>• Mr. Nigel Jollands, European Bank for Reconstruction and Development</li> </ul> <p><b>Moderator:</b> Ms. Edith Bayer, International Energy Agency</p>
<b>16h30-16h40</b>	<p><b>Special Address – What does this mean for emerging economies?</b></p> <p>Dr. Odón de Buen, CONUEE, Mexico</p>
<b>16h40-16h45</b>	<p><b>Closing remarks</b></p> <p>Dr. Brian Motherway, Head of Energy Efficiency, International Energy Agency</p>