

File name: brian_hood-_industrial_transformation_webinar___invest_ni (720p).mp4

Moderator questions in Bold, Respondents in Regular text.

KEY: Unable to decipher = (inaudible + timecode), **Phonetic spelling** (ph) + timecode), **Missed word** = (mw + timecode), **Talking over each other** = (talking over each other + timecode).

Brian Hood: Hello. BS Holdings presents the means to reduce greenhouse gas emissions using heat pumps, both air and liquid hybrid heat pumps, and mixed hydrogen boilers. Hybrid heat pumps and mixed gas boilers. The Sime Revolution boiler is a hybrid heat pump and gas boiler. The gas portion is hydrogen ready for the forthcoming changes to the UK gas network. The two systems combine to work to their strengths. The heat pump produces a COP of between 3.7 to 4.6, giving it an A** rating. It does not require Fgas qualified engineers to fit it, being designed for an gas safe plumber to replace the conventional boilers in offices, shops and factories. The government accepts in older properties heat pumps alone will not work. The Revolution boiler will bridge that gap. When burnt, hydrogen, H₂, produces only heat and water, reducing emissions.

The larger systems. Solid Energy manufactures large scale heat pumps for district heating of factories, towns, offices, villages and cities. They are also developing a heat pump capable of steam production for laundries, distillers and other manufacturing processes across the country. The ranges start at temperatures of 35-55 degrees C for new buildings, 60-85 degrees C for existing buildings and steam models. Heat pumps take their energy from either air, exhaust gases, chimneys, water, river, sea or waste liquid. The heat recovery systems are aimed at maximising the energy you've already heated, being that air compressors, data stores, telecom hubs, hotels, spas, and the drinks industry. Heat recovery models have a dual role and can provide cooling for data centres. We specialise in manufacturing hybrid systems, giving security of supply, so incorporating a heat pump into your existing network is viable. And the picture shoes the Ringkobing air source heat pump energy system of 4.4 megawatts, feeding a town of around 10,000 people.

Fuel cells and hydrogen. Our factory are currently working with Mid and East Antrim Council to produce the UK's first mixed gas training centre. The package comes in two parts. The first is capable of storing and mixing hydrogen and natural gas. This is aimed at manufacturing of gas burning equipment, who, in the next few years, will have to produce test data for their products running on the part hydrogen fuel. As the roll out across the UK may take years to complete, our system allows them to integrate it into the natural gas systems today, giving them the ability to stay ahead of the competitions.

The second part of the training centre is heating and chilling systems of the future, all based around low carbon, mixed hydrogen gas fuels. The centre has intensely been developed as a mobile lab, so that the

council can share it between colleges as the students need hands-on training. This sharing has the added bonus of saving the education authority millions from their budgets for colleges. The facility will allow the gas safe engineers to upgrade to the new fuels, and the council and leading the way in training for these advanced technologies.

In closing, our history. BSH was the first company in the UK to develop the biomass fuelled car spray bake ovens and chilling systems by biomass. Taking multiple awards for its systems for Volkswagen, Ford, Ferrari, Maserati, Audi, Landrover Jaguar. The energy systems were designed, manufactured and installed by our company from our Antrim factory. Other recent energy cabin projects are the pitch heating for Rangers Football Club Ibrox, Strathaven Leisure Centre Scotland, Perth and Kinross Council, Comrie Primary School Kinross, Cranleigh Leisure Centre Surrey. I am Brian Hood. We thank you for taking the time to listen to this presentation.