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FROM THE CLERK

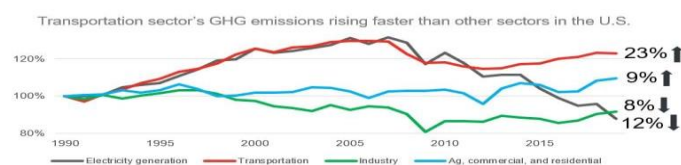
The Future of Energy in the UK Monday, 20th February 2022

Deputy Master, Kenneth Cupitt in his responsibility as a member of the Education Committee has organised an all-day Seminar on the topic "The Future of Energy" at Glaziers' Hall, 9 Montague Close, London, SE1 9DD, with six speakers sharing their views on both the provision of energy for the country, decision makers and business owners and what alternative choices may be available for future opportunities.

Information shared by the speakers will help business leaders make the right decisions over the next decade and learn what the UK Government, and the supply industry, is having to put in place for economic green energy. Topics will include:

1. **Nuclear Energy (both Fusion and Fission** will be covered and what Rolls Royce are developing with mini reactors for regional generation);
2. **Making money from Sources of Energy** (Ways of Cutting the Costs of Energy in a Business, how to store energy in times of plenty for use in times of shortages, achieving cost cutting by enabling businesses to trade energy);
3. **Rooftop Solar Panels and PV Modules** (advantages of using Solar Energy, reduced Electricity Bill, Return on Investment, Renewable Energy, Environmentally Friendly, Energy Independence). A photovoltaic system or solar power system is an electric power system designed to supply usable solar power by means of photovoltaics;
4. **Adding Hydrogen to Supplement Natural Gas** (now that trials of the addition of hydrogen to gas have been completed what it will do to benefit us all);
5. **Hydrogen as a Fuel for Delivery Vehicles** (there is unlikely to be enough Lithium to power storage batteries in the short term, but larger vehicles are also likely to be powered by hydrogen to carry the bulky items and for the driving range);
6. **Heat Pump Technology** (the conclusion, thus far, is that for heat pumps, ammonia is thermodynamically the best refrigerant in the field of operation for comfort cooling and is also safer than using Fluorocarbons).

Four of the technologies to power transportation sector with zero carbon fuels



Source: United States Environmental Protection Agency. (December 2021). U.S. Transportation Sector Greenhouse Gas Emissions. (PDF file). Retrieved from <https://www.epa.gov/>

¹ Using green hydrogen

² Using renewable electricity



The Future of Energy Monday, 20th February 2022



PROGRAMME

- 9.30** Registration and arrival at Glaziers' Hall
- 10.00** Welcome and Introduction – Kenneth Cupitt
- 10.05** First Speaker: Professor Philip Thomas, Bristol University, Nuclear Power
- 10.45** Questions and Answers
- 10.50** Second Speaker: Edward Ross, Gridimp Ltd
- 11.25** Questions and Answers
- 11.35** Third Speaker: Andrew Moore, Founder, UKSOL
- 12.10** Questions and Answers
- 12.20** Two-course Buffet Luncheon with wine
- 13.10** Fourth Speaker: tba: Hydrogen Energy in the National Grid
- 13.45** Questions and Answers
- 13.55** Fifth Speaker: tba: Hydrogen Energy as an energy for Motor Transport
- 14.35** Questions and Answers
- 14.45** Tea, Coffee Break
- 15.00:** Sixth Speaker: Robert Unsworth, Global Technical Sustainability Manager-SEnS
- 15.40** Questions and Answers
- 15.45** Wrap-up and close of session

PLEASE COMPLETE BELOW PRINTING CLEARLY

Please reserve places at **£60.00** pp including VAT

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