

## Client Briefing on the 2022 UK Emissions Factors

**ITPEnergised** is a trusted advisor providing client-focused, reliable, commercially minded, environmental and energy consulting services.

The latest UK Government Emissions factors were published on 23rd June 2022. These figures can be used for accurately reporting the carbon impact of business energy use.

We have provided a summary of the main points in relation to grid electricity and natural gas emission factors.

- Note that the electricity grid factors are based on 2020 grid mix data. This lag is standard and the 2022 factors should be used for calendar year 2022 emissions reporting.
- The transmission and generation (T&D) emissions factor for grid electricity has reduced from 2021 figure of 0.01879 kg CO<sub>2</sub>e per kWh to 0.01769 kg CO<sub>2</sub>e per kWh.
- The generation emissions factor for grid electricity has reduced from 2021 figure, 0.21233 kg CO<sub>2</sub>e per kWh, to 0.19338 kg CO<sub>2</sub>e per kWh.
- This means that the combined factor that most companies use has reduced from 2021 figure of 0.23112 kg CO<sub>2</sub>e per kWh to 0.21107 kg CO<sub>2</sub>e per kWh (a year on year reduction of 8.7%).

On this current path (noting that more solar PV and onshore/offshore wind has been added since 2020) there are challenges ahead for gas fired combined heat and power as a carbon reducing technology. The increase in natural gas related emissions from CHP engines is very unlikely to be offset by the reduction in imported grid electricity related emissions. However, CHP still remains attractive at the moment due to the potential for financial savings.

The natural gas emissions factor has reduced by 1.7% from the 2021 figure of 0.18316 kg CO<sub>2</sub>e per kWh to 0.18 kg CO<sub>2</sub>e per kWh. This is due to a small increase in biogas injection to the gas grid.

Additionally, an emissions factor for homeworking has also been introduced for 2022.

The reduction in grid carbon intensity is good news again for companies who have carbon reduction targets. It should be noted that UK electricity end users have all contributed to this success. Commercial and industrial users will be able to see on their bills that they pay a financial contribution to this.

At ITPENERGISED, we are proud of our contribution. The grid continues to decarbonise and many of our projects are very much based on achieving that outcome. We can help you with all aspects of your journey to net zero, from carbon footprinting to cradle-to-grave solutions for all renewable energy generation technologies.

