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Directorate D - Nuclear energy, safety and ITER

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## **The role of nuclear energy in the EU low-carbon future - summary<sup>i</sup>**

**The 52<sup>nd</sup> Japan Atomic Industrial Forum Annual Conference**

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In November 2018, the European Commission put forward the *European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy* or simply referred to as - *A Clean Planet for All*. This European long-term strategy looks into pathways to reduce greenhouse gas emissions that are consistent with the current scientific understanding on how to limit global warming to a temperature rise of well below 2°C and 1.5°C, in line with the Paris Agreement.

All sectors of the economy will have their role to play in the low-carbon transition up to 2050 and the power sector will be a central element for the transformation of other economic sectors. According to the long-term strategy, by 2050 more than 80% of electricity will come from renewables, alongside nuclear.

Looking further into the future, fusion may also become a new, non-carbon emitting, safe and virtually unlimited energy source in the second half of this century. It is for this reason that the EU is leading an international effort to support the world's largest fusion experiment – the ITER project.

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<sup>i</sup> To be used for the website of the JAIF Conference.