



EUROPEAN COMMISSION
DIRECTORATE-GENERAL FOR ENERGY

Directorate D - Nuclear energy, safety and ITER

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The role of nuclear energy in the EU low-carbon future - summary¹

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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.

¹ To be used for the website of the JAIF Conference.