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# Clean Air And Climate Change Nexus

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# Decarbonization of the heating/cooling

- Climate / Clean Air / Quality of living on a saved planet
- Combining the concept of **energy security** with the concept of **sustainability** (net-zero + circularity) + **cost efficiency**



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# Major Areas

- Fossil gas vs Biomass – emerging conflict areas after the end of coal
- Electrification



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# Fossil Gas

- Not so clean
- Less needed for the transition than anticipated
- Not sustainable
- Geopolitics require realism
- The formula – decrease use



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# Biomass

- Secure and relatively available
- Limited availability
- Limited applicability and changing over time
- Sustainability criteria
- Domestic heating solution/compromise – back-up, efficient and minimal use



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# Electrification

- Heat Pumps
- Comfort winner
- Mind the peaks and the sufficient capacity!
- Efficiency winner
- + Thermal storage
- + H2



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# Searching for the balance

- Nothing has zero impact – this should be no reason for eternal inaction
- Aiming to get within the planetary boundaries and towards circular economy



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## About E3G

E3G is an independent European climate change think tank with a global outlook. We work on the frontier of the climate landscape, tackling the barriers and advancing the solutions to a safe climate. Our goal is to translate climate politics, economics and policies into action.

E3G builds broad-based coalitions to deliver a safe climate, working closely with like-minded partners in government, politics, civil society, science, the media, public interest foundations and elsewhere to leverage change.

More information is available at [www.e3g.org](http://www.e3g.org)