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
Major Areas

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

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

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