

A 10-Point Plan to accelerate the EU heat transition

18th October 2022

Today's energy security crisis is a heating crisis. Heating accounts for 50% of EU energy demand, and 70% still comes from fossil fuels. Solutions exist in Europe to phase-out fossil fuels in heating, by rolling out renewable and sustainable waste heat sources and technologies, including heat pumps. These solutions are locally owned, climate-friendly, ready to deploy and affordable. They make our energy system more resilient and create local benefits for our economy. Soaring energy prices have created unprecedented momentum to drive Europe's long-overdue heating and cooling transition: six months after the REPower EU, we must complement emergency measures with concrete proposals to make this happen. The 'Fitfor55' package is an important step in this direction, but it is by no means enough to reap the full potential of renewable and sustainable waste-heat solutions, bringing Europe on the path to climate neutrality and energy independence.

The 10 undersigned EU organisations urge the European Commission, Parliament and Member States, to implement, without delay, a 10-point plan for a successful heating and cooling transition.

1. Develop a robust Heating and Cooling Strategy to align with the Climate Law and energy security imperative

Europe's 2016 Heating and Cooling Strategy was not fit for purpose to meet the objectives of the EU Green Deal and the REPowerEU. We need an ambitious strategy laying out concrete solutions to accelerate the roll-out of renewable and clean heating technologies in buildings, and in our industry. Required measures include an EU financial risk-mitigation schemes as well as other financing and regulatory instruments for the uptake of renewable and waste heat sources and efficient heating technologies, such as heat pumps. These measures must be streamlined across EU legislation (e.g. Fitfor55'), and support a clear long-term vision developed with member states, local authorities and stakeholders.

3. Introduce mandatory heat planning for local authorities

Mandatory heat planning for cities is needed to assess the potential and make the best use of local heating and cooling resources, thereby reducing dependence on energy imports. Local authorities

2. Expand the scope of building renovations to connect with renewable and sustainable waste heat supply in cities

Building renovations must be accelerated to structurally reduce EU energy consumption and decarbonize the remaining heating & cooling demand. It means connecting buildings to locally available and sustainable heat sources such as renewable heat (geothermal, solar thermal, sustainable bioenergy), waste heat, renewable electricity and highly efficient heating technologies (such as heat pumps and combined heat and power).

4. Provide the human resources fit for the challenge

The renewable heat transition requires an ample and skilled workforce at all levels of the supply chain (installers, engineers, renovation advisers and planners) and within local and national

which developed proper heating and cooling plans often significantly improved their energy resilience and harvested the combined benefits of building renovation with the connection to local heat sources and technologies. The REPowerEU must put stronger emphasis on local heat planning, as an emergency measure to identify locally available alternatives for phasing out fossil fuels in heating.

5. Rethink the financing framework for sustainable district heating

Approval processes for RRF and REPower EU funding related to heating must consider the incremental nature of transitioning district heating systems from fossil fuels to a fully sustainable supply. The modernization and decarbonization of heating systems which still rely on fossil fuels for part of their heating, should be deemed compliant under the Do Not Significant Harm principle, when there is a clear roadmap to climate neutrality as part of national Energy and Climate plans. It will help financing the uptake of renewable and sustainable waste heat supply across Europe.

7. Establish a level playing field on the heat market

We need a level playing field between all heating and cooling solutions. The current emission trading system covers only large installations, leaving out of its scope most of the heat sources at EU level – individual boilers fired with fossil fuels – and penalizing district heating. In particular, in Central Europe, the ETS establishes a competitive gap detrimental for consumers and contradicting the Green Deal objectives. While the increase in energy prices is a challenging reality for CO₂ pricing in buildings, the policy framework must provide a level playing field between heating solutions, to transform the heat market and encourage the connection of citizens/users to the most efficient and sustainable solutions. It must be done in a way that is just, consumer-centered and takes into account local specifics.

administrations. Smart financial incentives can encourage the re-training of existing energy installers while a revision of vocational training legislation could be considered, introducing new training categories for installers such as “renewable electricity and heat”, or “fitters”. Dedicated aid schemes could be envisaged for local authorities as part of REPower EU, and the Recovery and Resilience Plans.

6. Stop aid for fossil fuels and redirect to efficient renewable and sustainable waste heat solutions

Boilers using exclusively fossil fuels should be phased out while alternatives are made available to consumers on the market to increase shares of renewable and sustainable waste heat. Funds for individual fossil fuel heating systems should be redirected to support investments in sustainable heating and cooling solutions, such as efficient and sustainable district heating systems or individual renewable heating solutions.

8. Incentivize the use of sustainable waste heat

Member States must promote the use of sustainable waste heat from industries, or from buildings in district heating and cooling, facilitating cooperation among all parties (industries, heating companies, utilities, and citizens). The development of appropriate contractual agreements and risk mitigation mechanisms must be supported to trigger investment decisions. Industrial waste heat could supply more than 25% of future district heating supply¹, while urban waste heat recovery could meet 10% of the EU total heating & cooling demand².

¹ HeatRoadmap, 2018

² ReUseHeat (H2020)

9. Fast-track the deployment of renewable heat and electricity sources

The decarbonization of the EU heating & cooling sector is paramount to achieve climate-neutrality. It must be supported with a regulatory framework and financing instruments adapted to the diversity of available heat sources and technologies such as geothermal, solar thermal, solar PV, sustainable bioenergy and heat-pumps. It includes dedicated de-risking instruments, investment aid, mandatory heat planning, accelerating permitting procedures and provide dedicated renewable acceleration areas (RAA) for heat and electricity sources, including those close to urban districts.

10. Adopt a holistic approach to building decarbonization policies

When assessing the energy performance of buildings, a holistic environmental approach is needed which goes beyond energy demand reduction. Additional metrics to drive effective building modernization and the phase-in of sustainable heat sources include CO2 emission equivalents, the local sourcing of heat supply, and life-cycle indicators. Similarly, policies on buildings must be extended to the broader objective of decarbonizing urban areas and cities, by providing a level-playing field between on-site, nearby and system-wide solutions.

Signatories:

