

Report on general causal structures underlying the process of eliminating individual fossil-fuel boilers for houses and residential buildings

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ABSTRACT

The GREENHEAT project aims to improve air quality by elimination of fossil fuelled boilers used by individual consumers in Poland. To facilitate the process the simulation model based on the concept of System Dynamics will be built. The report presents the first phase of the model development. To create the necessary shared understanding of the project problem among the project team partners, the participatory group model building (GMB) method was used. Due to COVID-19 restrictions, the workshop for project team members was conducted via Microsoft Teams and Miro applications. Data collected through the initial pre-workshop survey and during the workshop were next analyzed and transposed into an initial stock and flow structure. This process was supported by ad hoc consultations with the relevant literature as well as the project domain experts on an ad-hoc bases. The process resulted in an initial stock-and-flow structure that will be used as a point of departure for developing a model to the specific characteristics of the GREENHEAT project case.