

PROJECT

EXHAUSTION - Exposure to heat and air pollution in Europe – cardiopulmonary impacts and benefits of mitigation and adaptation

Extreme heat is a key climate change risk in Europe in the near and long term. Accelerated global warming increases the likelihood of both heat waves and wildfires. Extreme heat increases rates of death and disease from heart and lung disease, whereas wildfires can cause severe air pollution. The health effects of extreme heat are interlinked with air pollution in several ways. Air pollution is currently the largest environmental killer in Europe, causing ~500,000 premature deaths annually. Reducing the increase in heart and lung diseases which comes with an ageing European population can be obtained with preventative measures and will substantially impact society by saving healthcare costs and improve quality-of-life through reduce suffering for many people. By combining the exposure projections and the exposure-response relationships, the Horizon 2020 project EXHAUSTION quantifies the future exacerbation of heart and lung disease in Europe and attributes the change in mortality from heart and lung disease to a changing climate. EXHAUSTION aims at identifying adaptation strategies that will help avoid premature death and disease among vulnerable groups. This includes older people, infants, the chronically ill, and disadvantaged people. The project also estimates the costs of the increased risk of heart and lung diseases associated with a changing environment, and the broader socio-economic consequences of these costs. Contact: Kristin Aunan <https://www.ecca21.eu/participants/631>
Official website of the project: <https://www.exhaustion.eu>

Applies to

Health

Communication

Urban planning

Climate science

Climate modelling

Public authorities

Adaptation strategy

Extreme weather events

Climate change adaptation

Climate change mitigation

International cooperation

Assessment of climate change impacts (physical, economic, social...)

EXHAUSTION

ECCA 2021 - Climate Adaptation solutions - EXHAUSTION

Video <https://youtu.be/qPyQNSg2uas>

