A new report quantifies for the first time how much our food choices affect pollutant nitrogen emissions, climate change and land-use across Europe.

The executive summary of the European Nitrogen Assessment Special Report on Nitrogen and Food, 'Nitrogen on the Table', was released today (Friday 25 April 2014). The Special report provides an assessment of what would happen if Europe were to decrease its consumption of meat and dairy products. It shows how much cutting down on meat and dairy in our diets would reduce nitrogen air and water pollution, and greenhouse gas emissions, while freeing up large areas of farmland for other purposes such as food export or bioenergy. It also considers the health benefits of reduced meat consumption. The full report is published next month.

Report lead author Henk Westhoek, program manager for Agriculture and Food at PBL (the Netherlands Environmental Assessment Agency) said, "The report shows that the nitrogen footprint of meat and dairy is considerably higher than that from plant-based products. If all people within the EU would halve their meat and dairy consumption, this would reduce greenhouse gas emissions from agriculture by 25 to 40%, and nitrogen emissions by 40%. The EU could become a major exporter of food products, instead of a major importer of for example soy beans."

The UNECE Task Force on Reactive Nitrogen is tasked with providing policy makers in the Convention on Long-range Transboundary Air Pollution with scientific evidence to support international decision making on environmental policies, especially as these link air pollution with water, soil, climate and biodiversity.

Professor Sutton said, "As the EU now starts to renegotiate the National Emissions Ceilings Directive, it is an open question to what extent countries will emphasize technical measures or such behavioural changes. One of the major barriers to action is the international trade in food commodities. The result is that countries fear that tackling nitrogen pollution will reduce their international competitiveness. The present study shows that there is huge power for pollution control in simply reducing our meat and dairy consumption."

Dr Alessandra Di Marco, a co-author of the study and researcher at the Air Pollution Unit of the Italian National Agency for New Technologies, Energy and Sustainable Economic Development, has been involved in a number of food pilot projects in Italian schools. She said, "The school food pilot projects in Italy have shown added value environmental benefits and health benefits associated with 'smart food'. This is a new concept in Italian schools where children are informed about health principle of nutrition, but it still misses the connection with environmental co-benefits of the healthy choice. Increasing the awareness of dietary choice in children is the starting point for cleaning the
environment."

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