

éclairaire

Effects of climate change on air pollution impacts
and response strategies for European ecosystems



Benefits of ecosystem protection exceed costs

Report EMRC/RIVM/CEH:

http://www.eclaire-fp7.eu/sites/eclaire-fp7.eu/files/eclaire-files/documents/Deliverables/D18_3.pdf

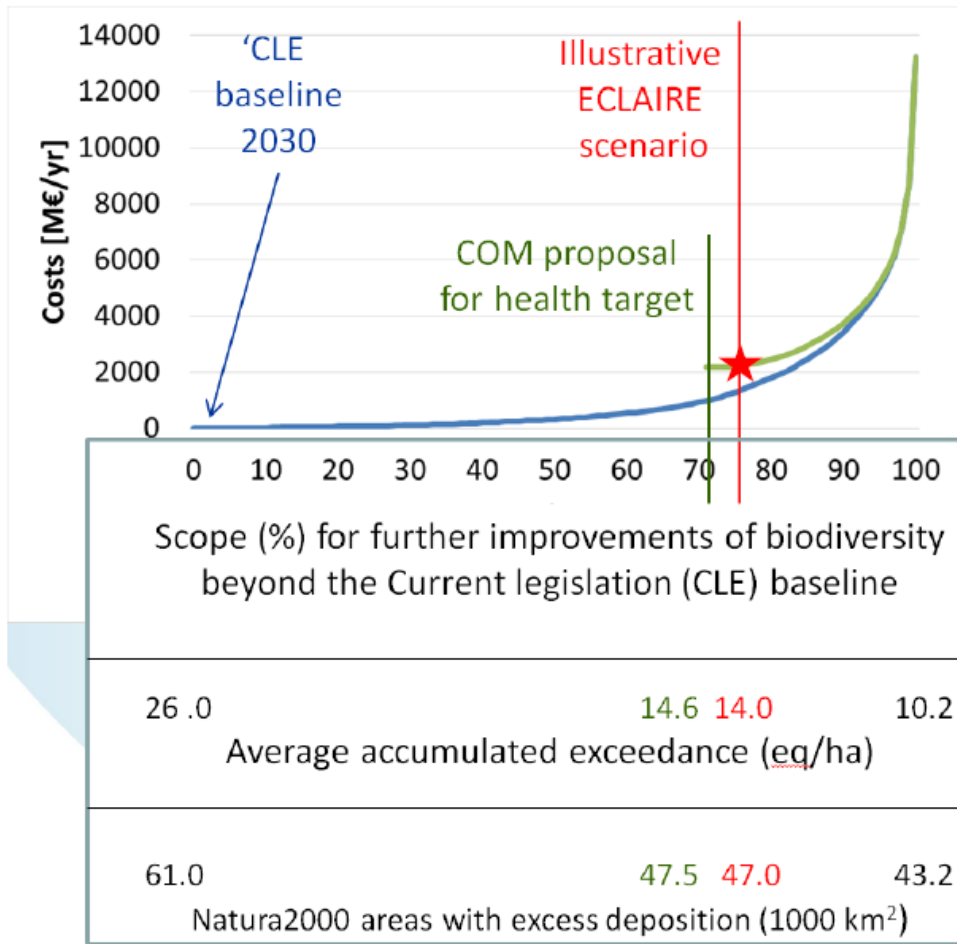
Report: IIASA/EMRC/RIVM:

http://www.eclaire-fp7.eu/sites/eclaire-fp7.eu/files/eclaire-files/documents/Deliverables/D20_8.pdf

Valuation of ecosystem damage

1. Marketed ecosystem services (O_3 -, N +/-)
2. Willingness-to-pay for non-marketed services
3. Restoration costs
4. Legal requirement approach for Natura2000 conservation = valuation of elimination costs (with/without activity reduction)
5. Nitrogen Use Efficiency approach = valuation of nitrogen losses

Assume: on top of 70% gap closure for health 75% gap closure for biodiversity



Additional cost (+1%) = 23 M€
Additional benefit = 35-2500 M€

Additional ammonia measures
for 3% largest farms