

Economic and environmental benefits of recovery networks for WEEE in Europe

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Angaben zur Veröffentlichung / Publication details:

Meßmann, Lukas, Christoph Helbig, Andrea Thorenz, and Axel Tuma. 2019. "Economic and environmental benefits of recovery networks for WEEE in Europe." *Journal of Cleaner Production* 222: 655–68. <https://doi.org/10.1016/j.jclepro.2019.02.244>.

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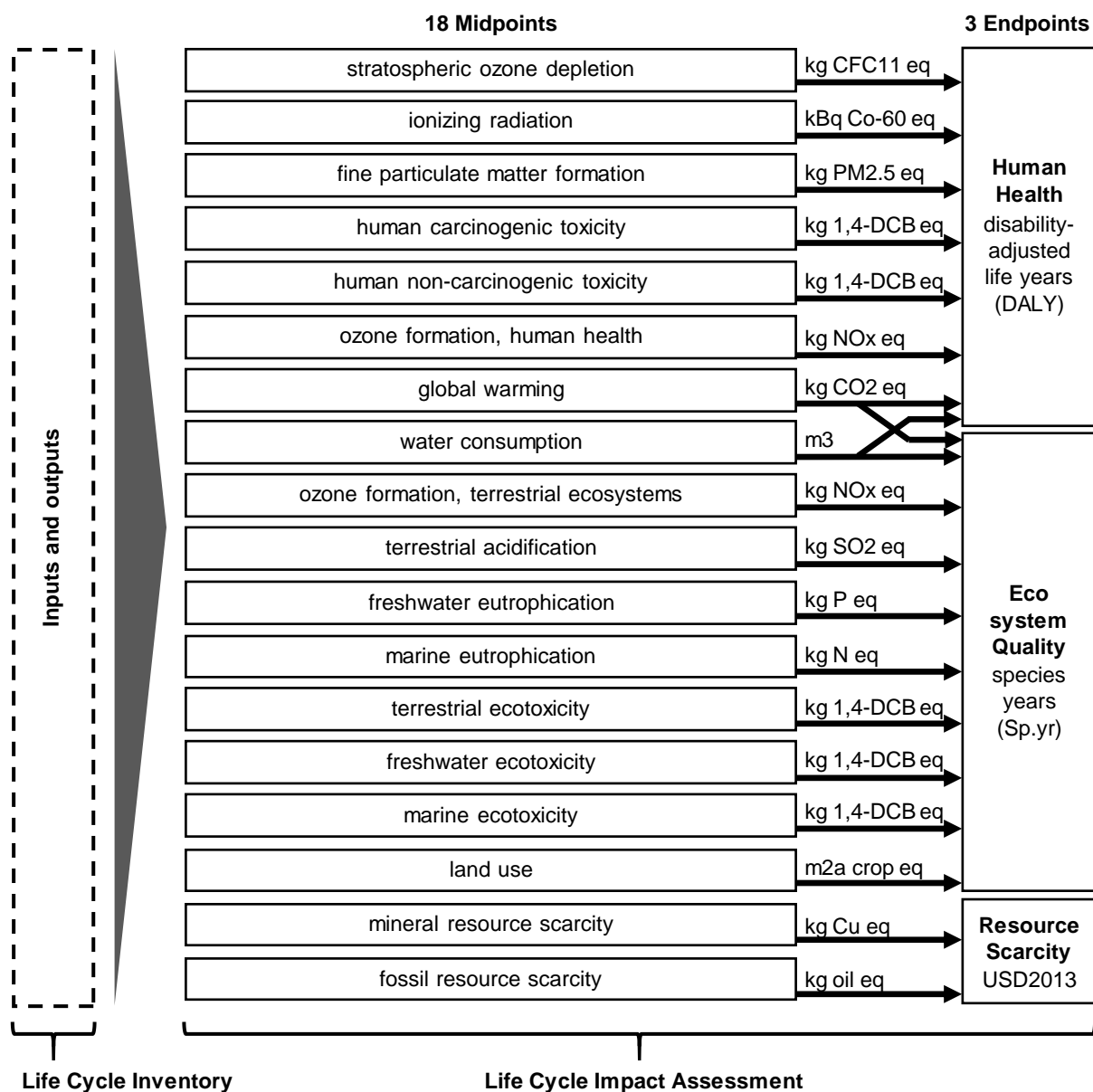
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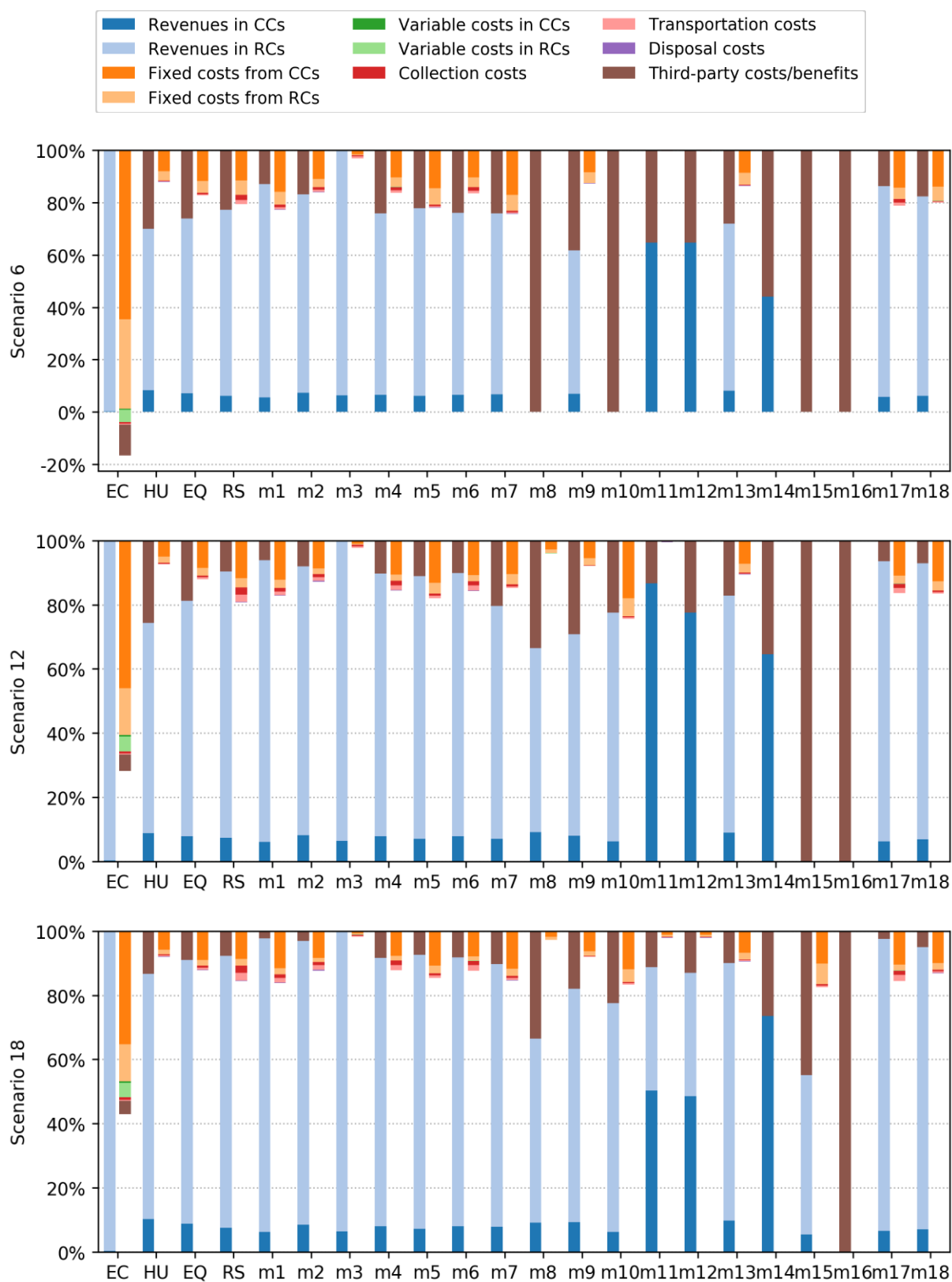


--- Supplementary figures ---

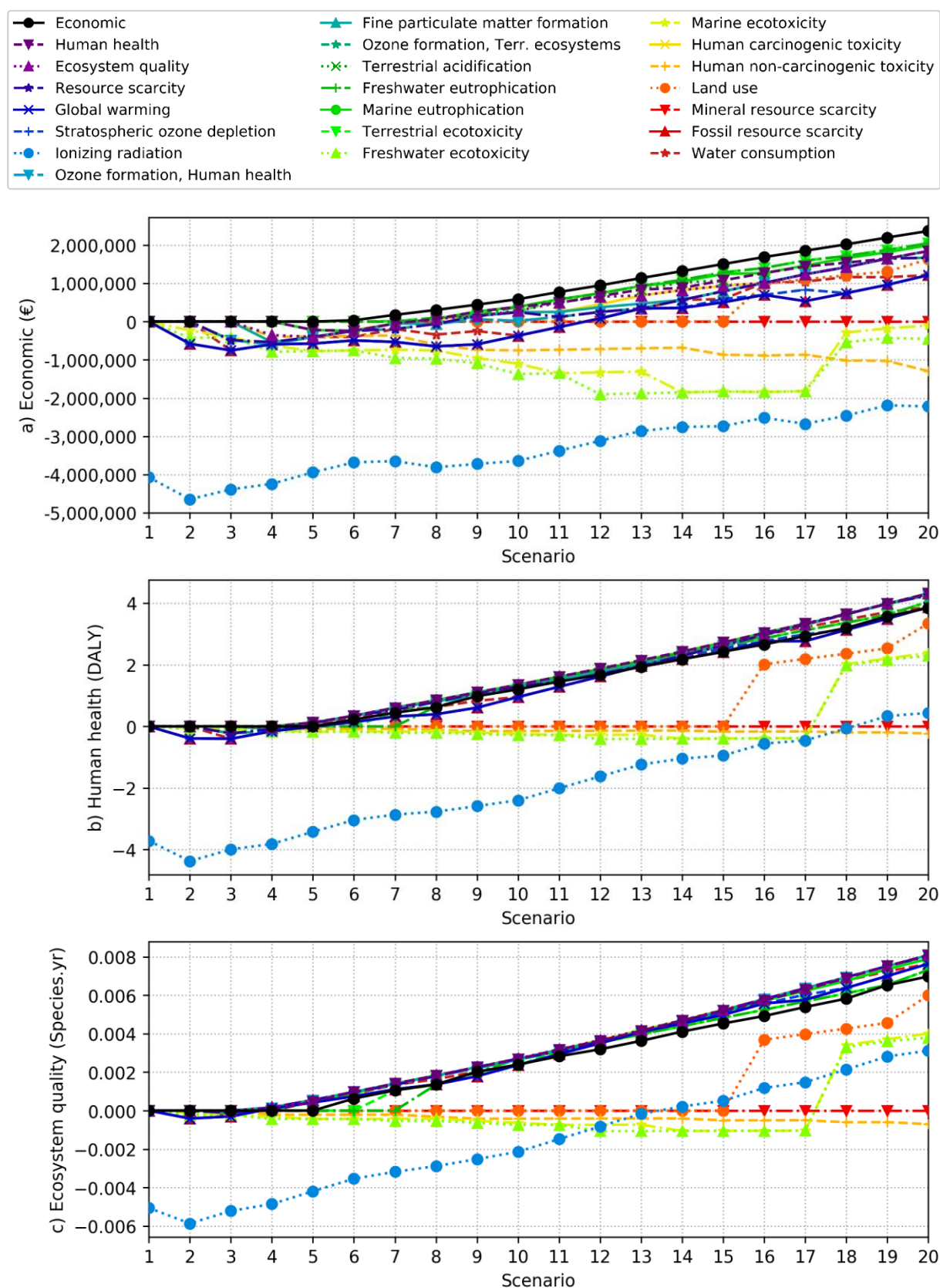
Supplementary figure S1. Composition of environmental objectives within the LCIA as defined by Huijbregts et al. (2017)

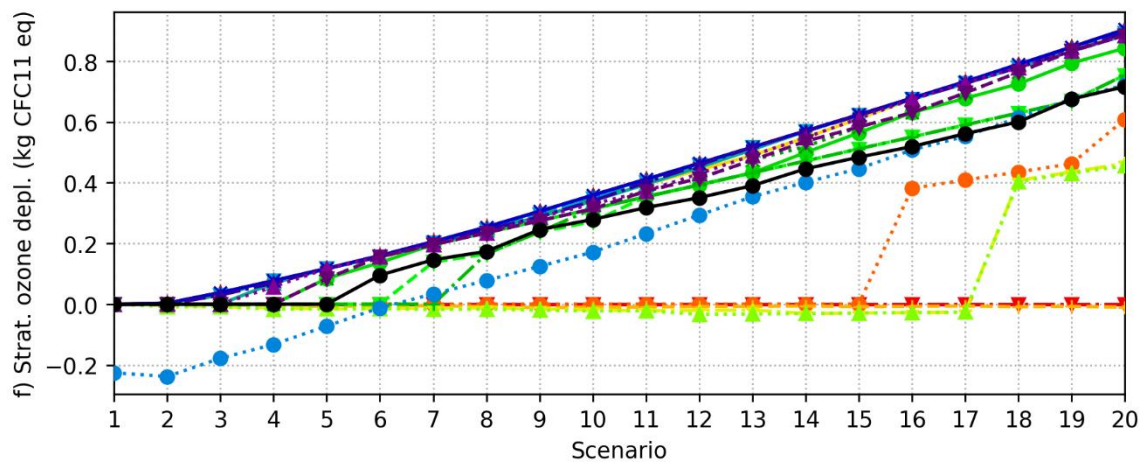
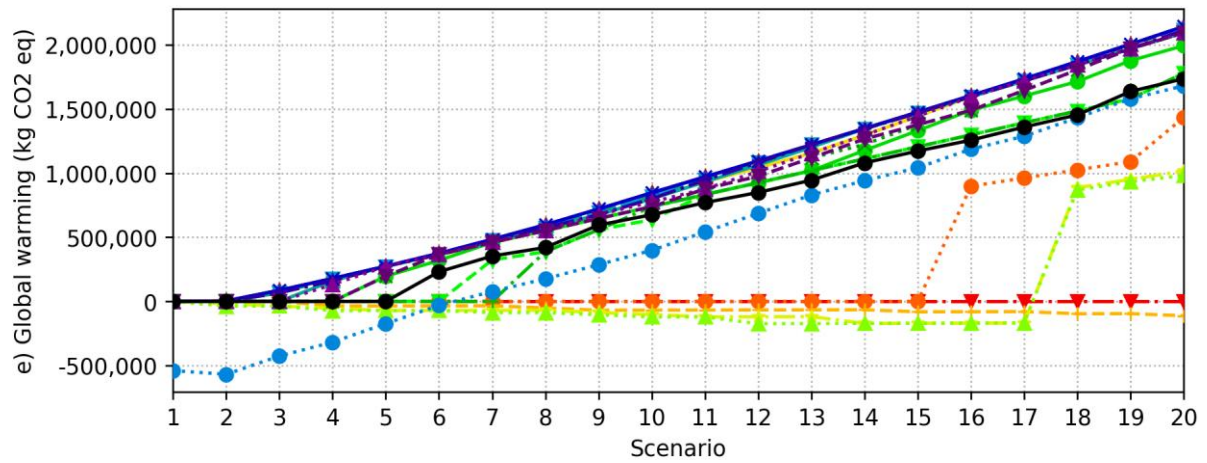
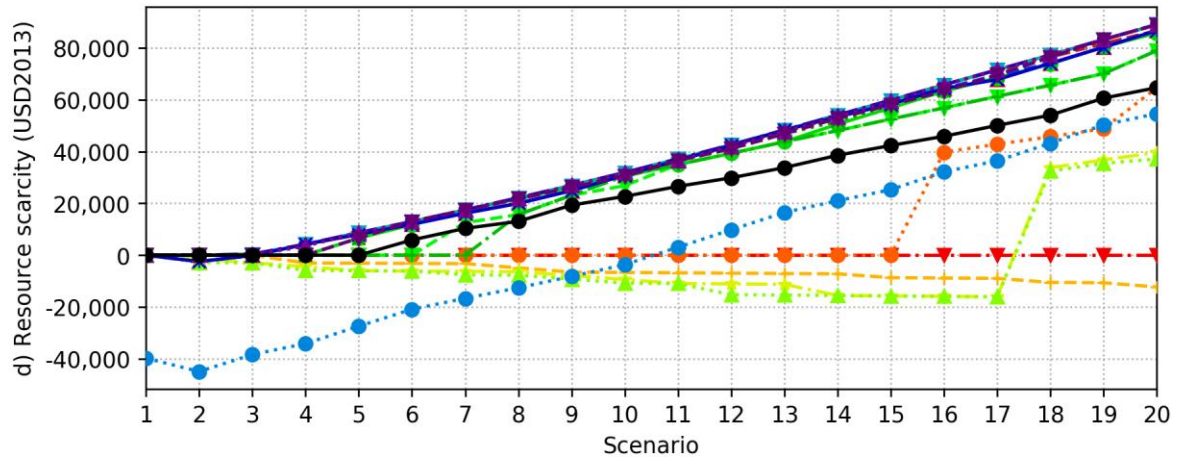
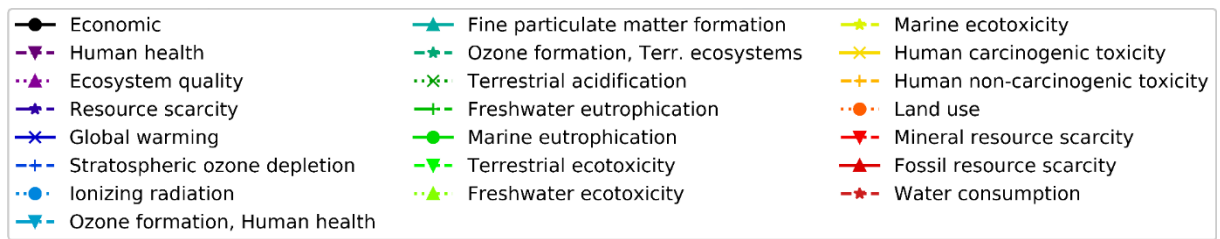


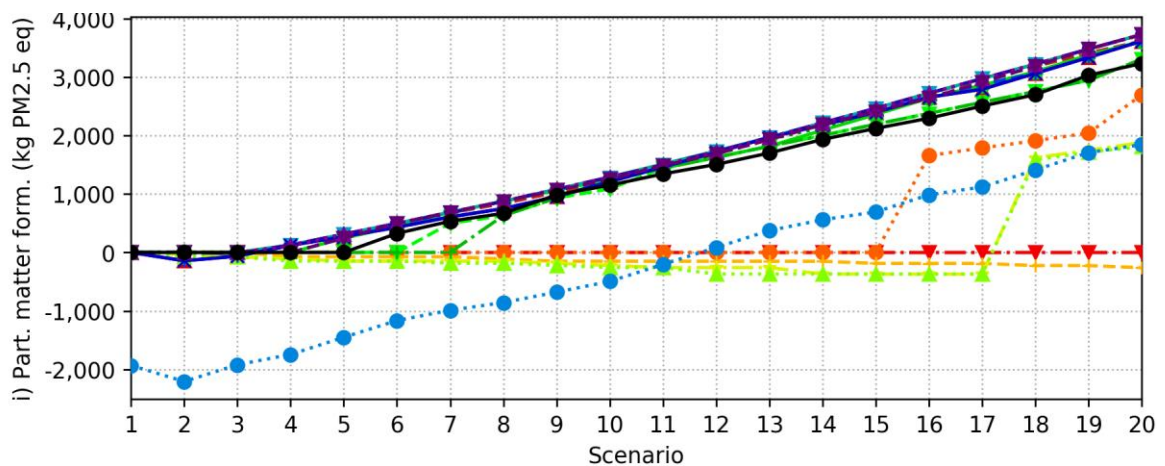
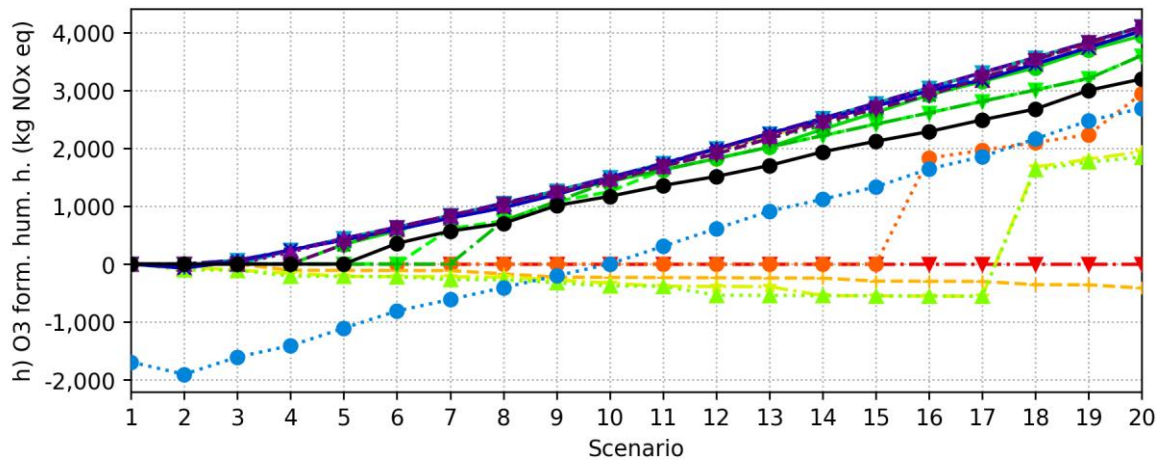
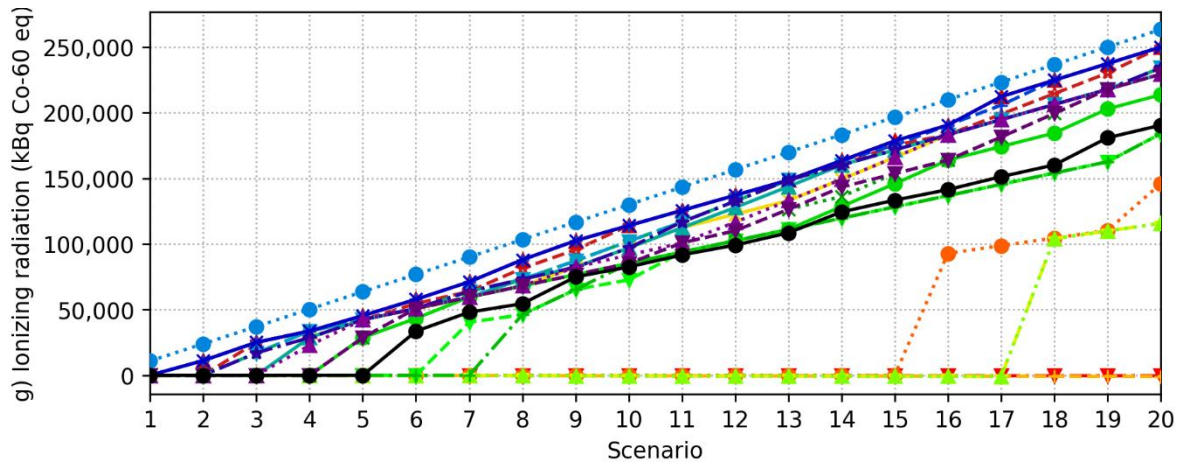
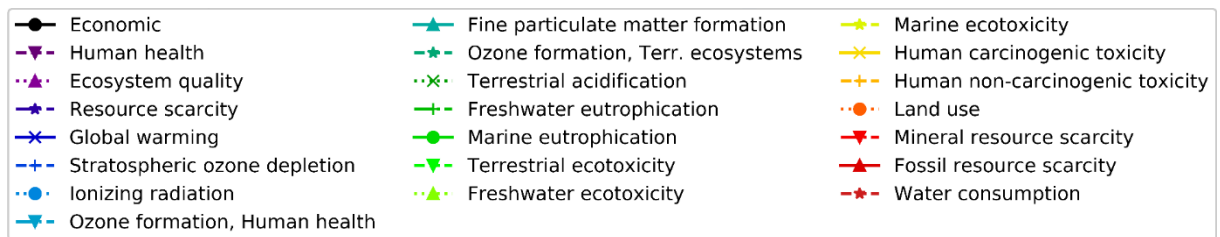
Supplementary figure S2 a–c. Relative composition of objective values for each dimension in scenarios 6, 12, and 18

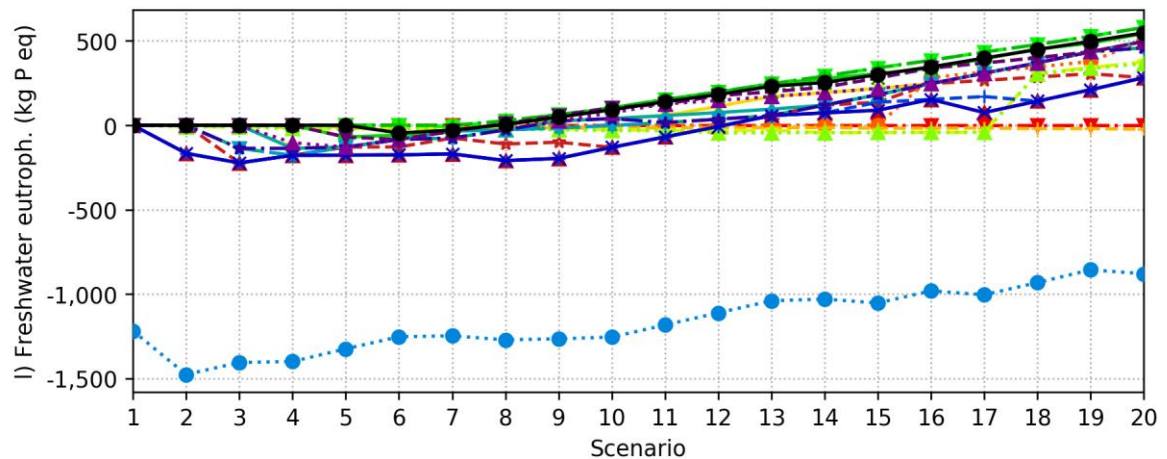
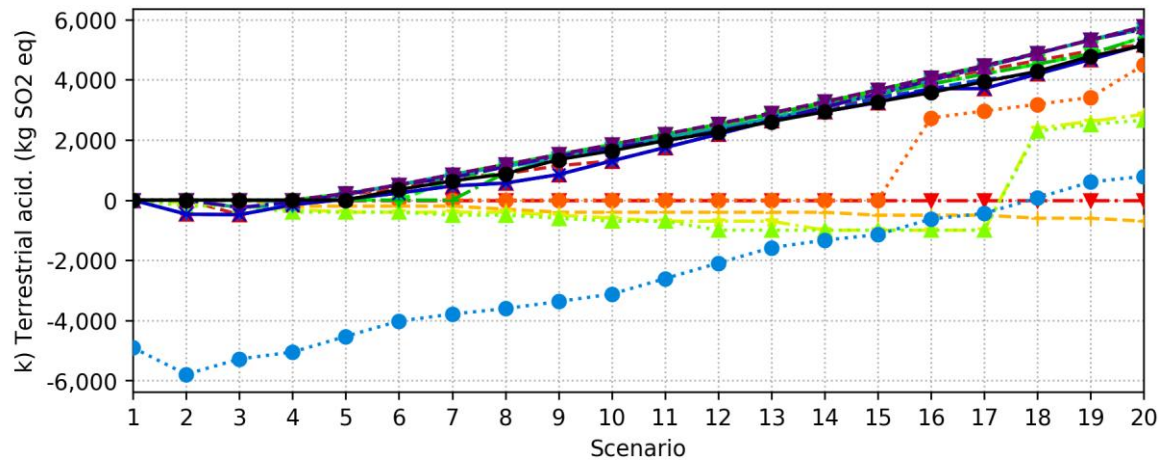
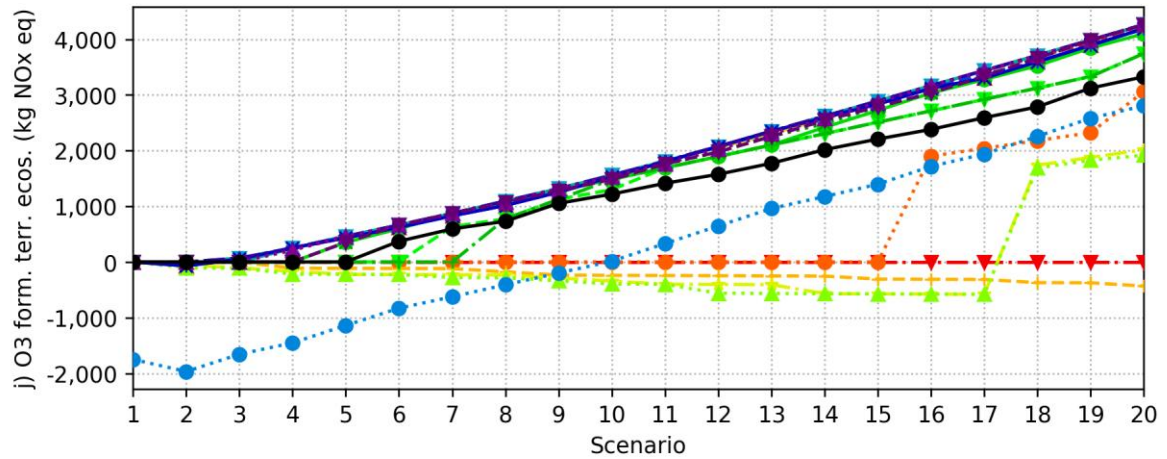
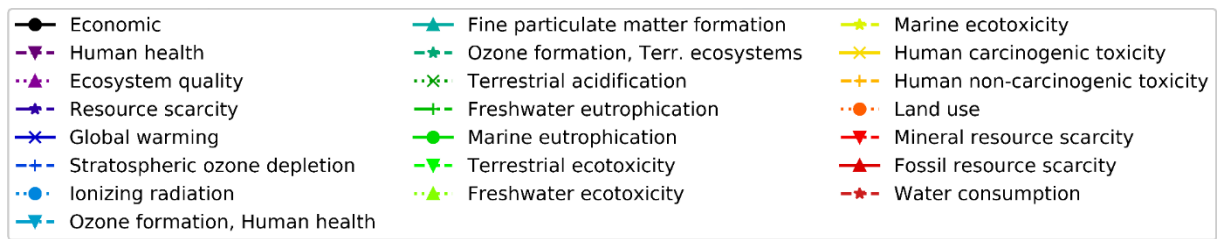


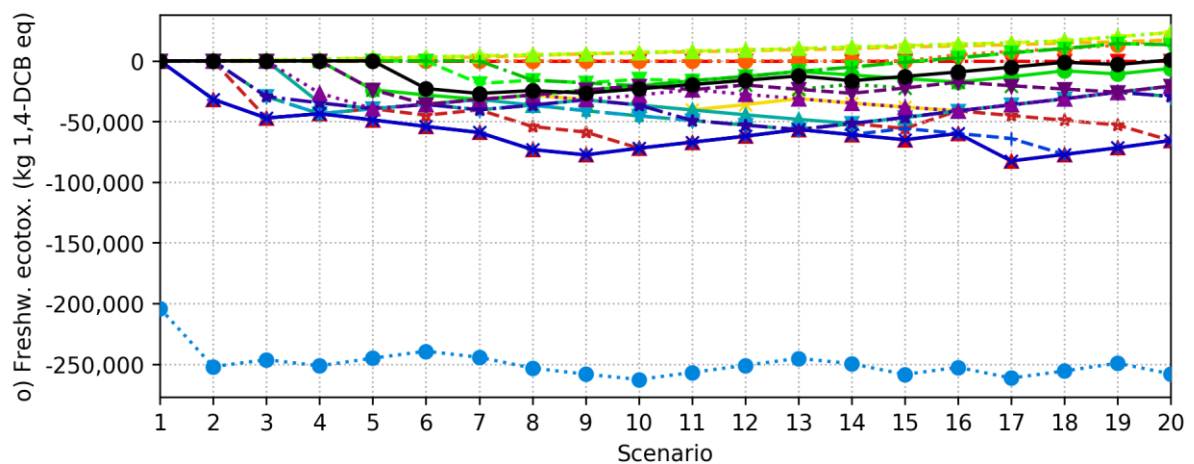
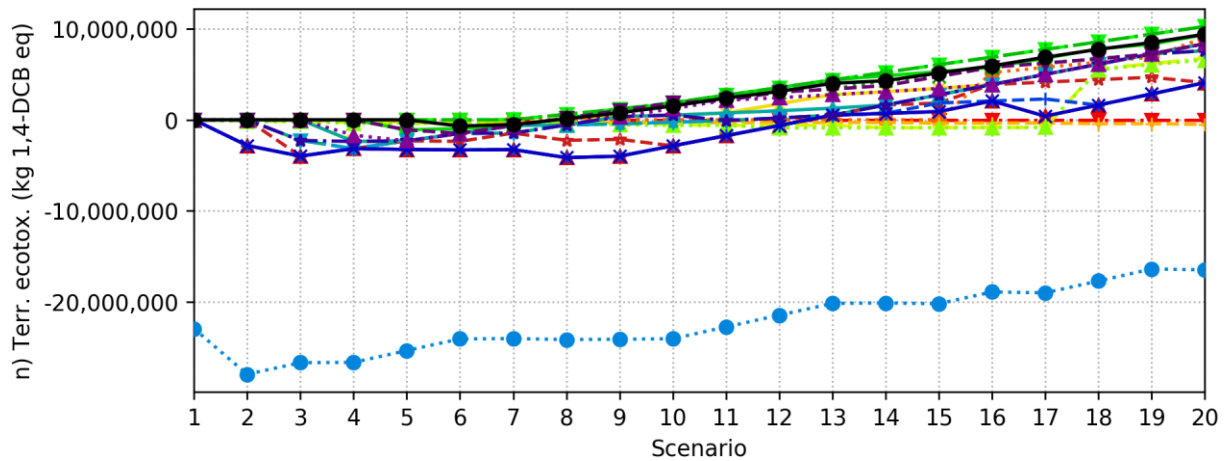
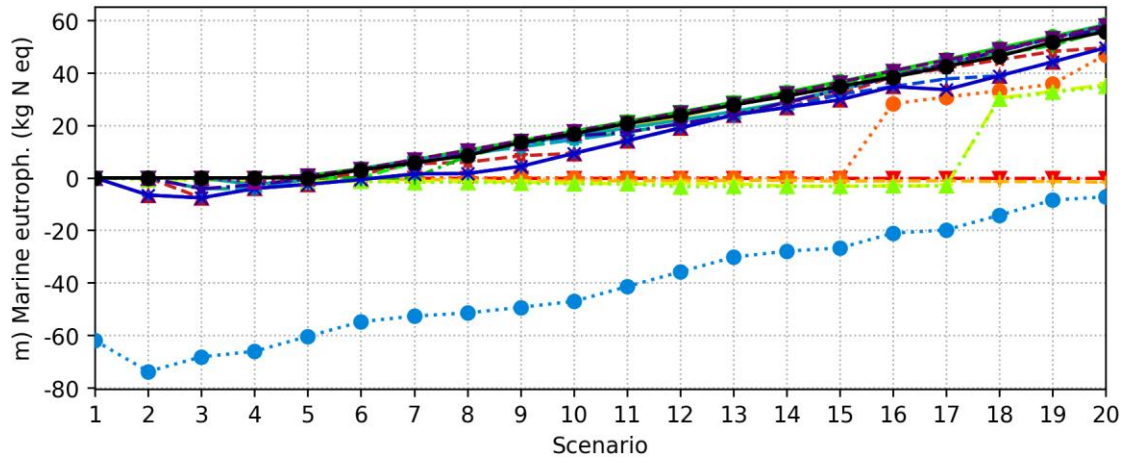
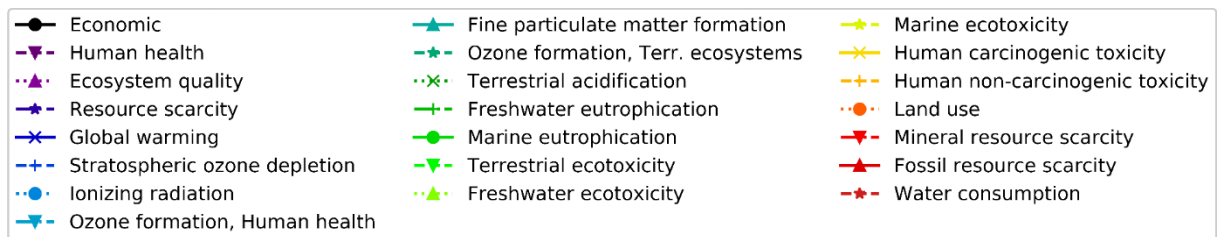
Supplementary figure S3 a–v. Effects of different objective functions (legend) on each dimension (ordinates)

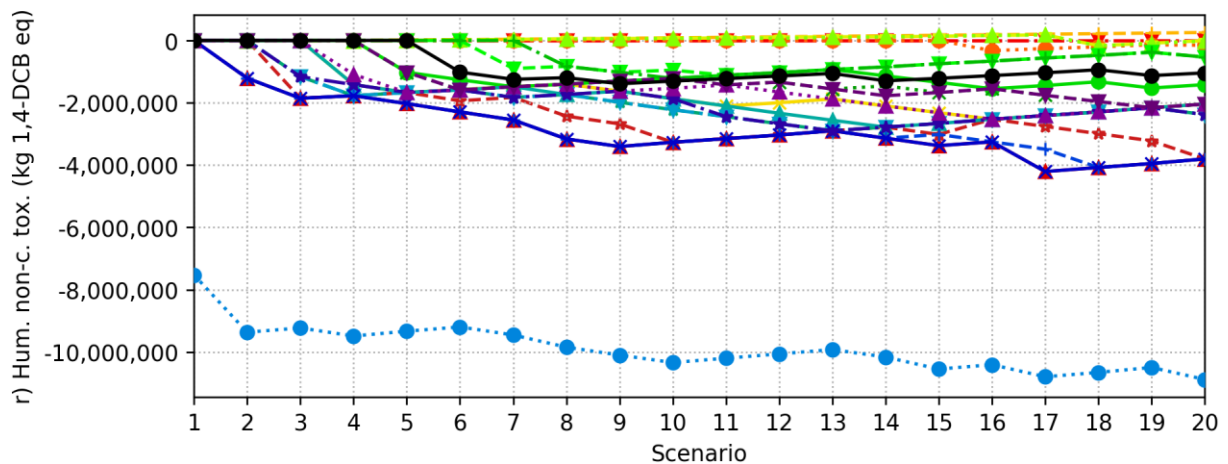
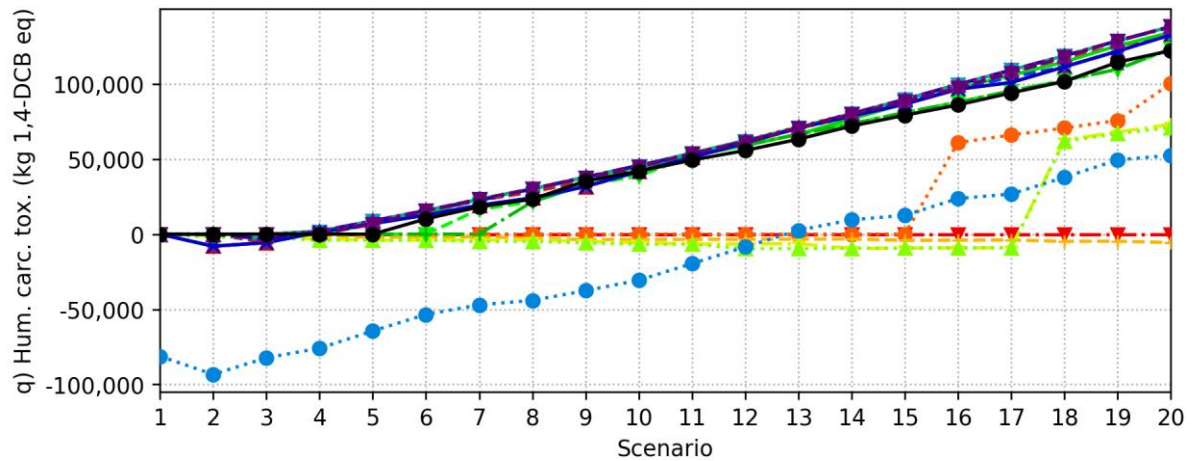
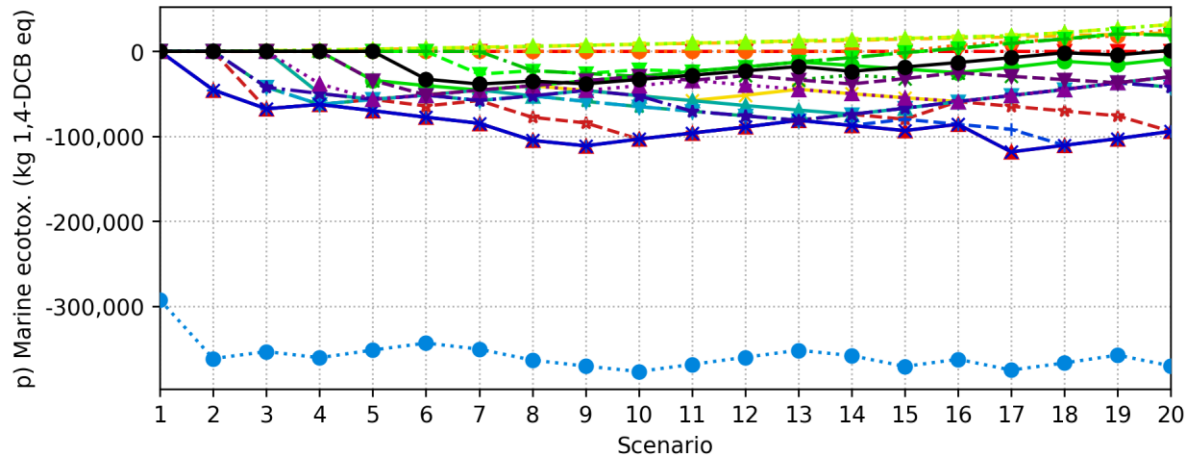
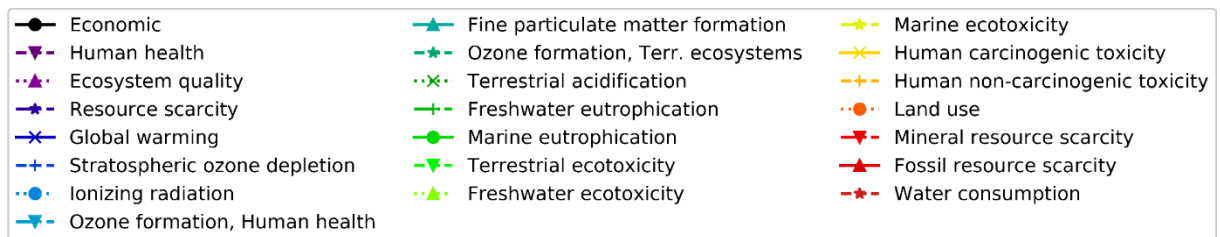


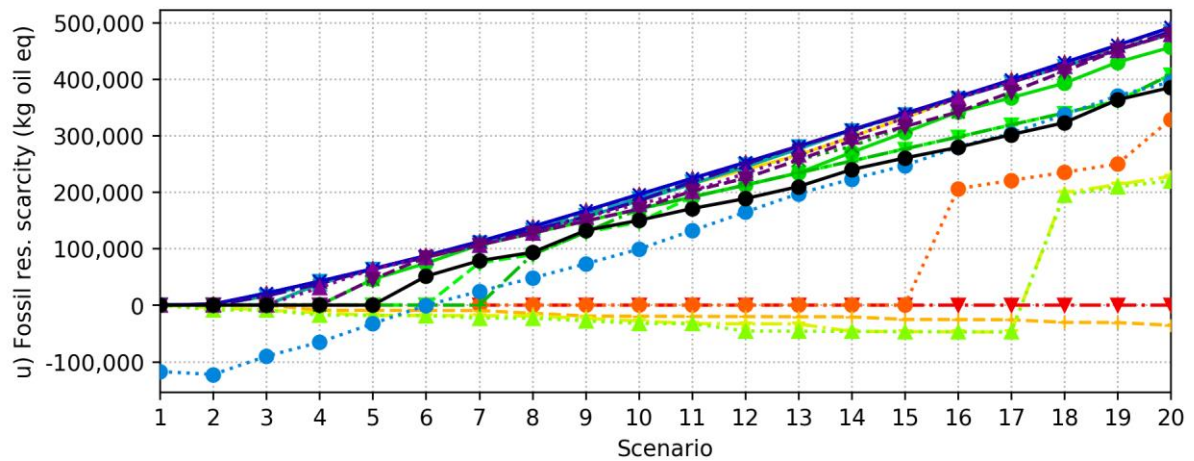
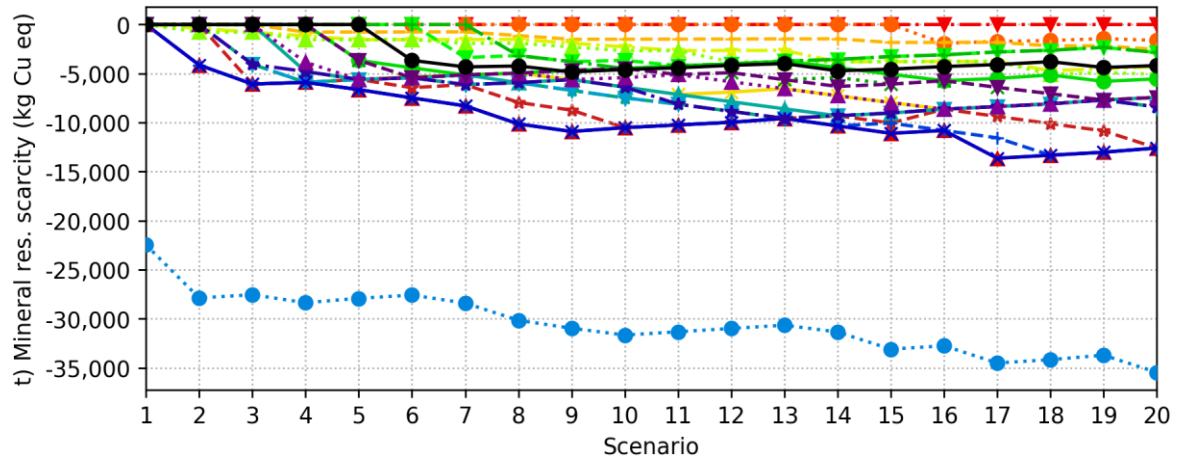
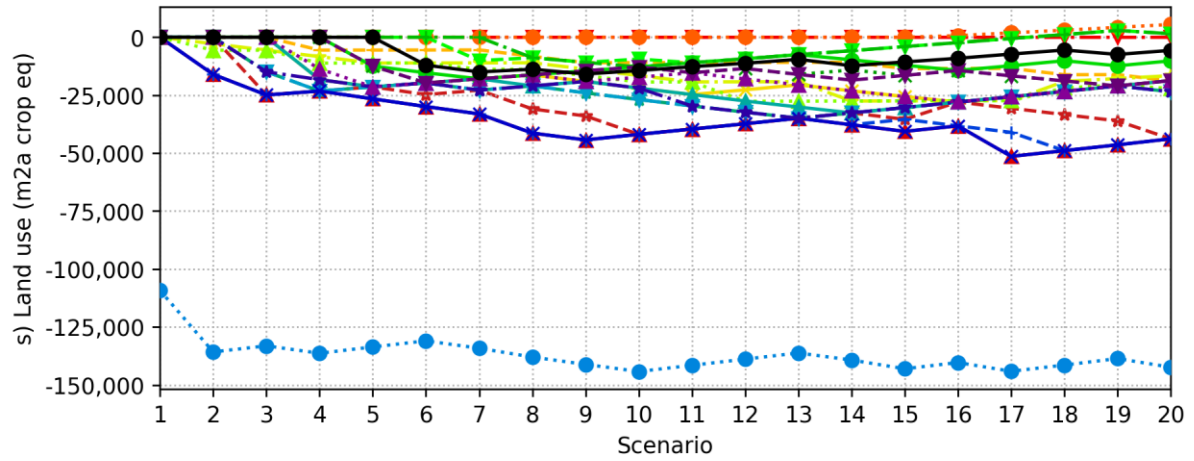
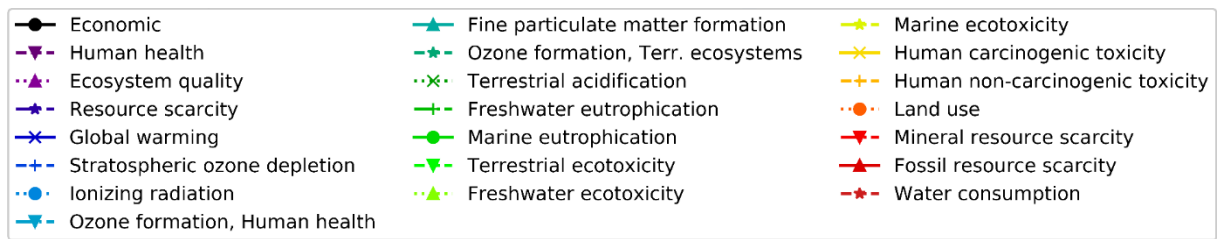


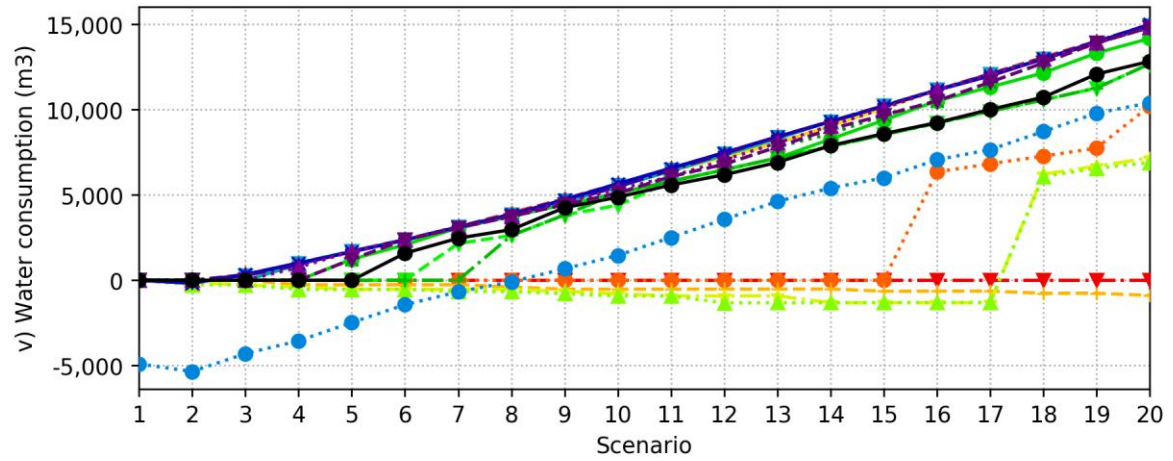
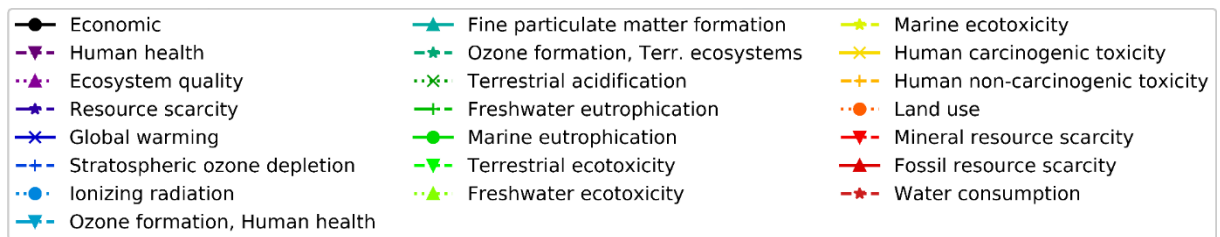






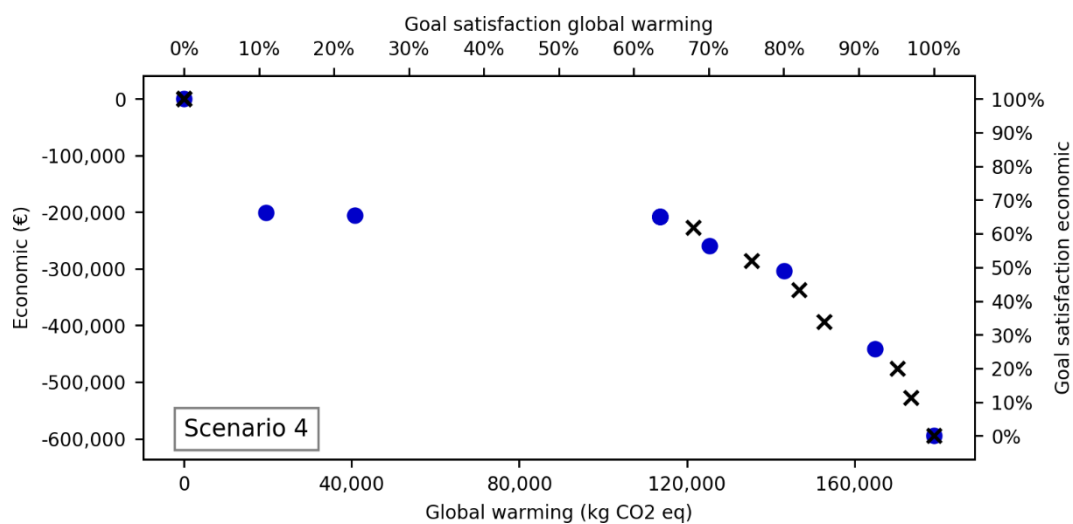
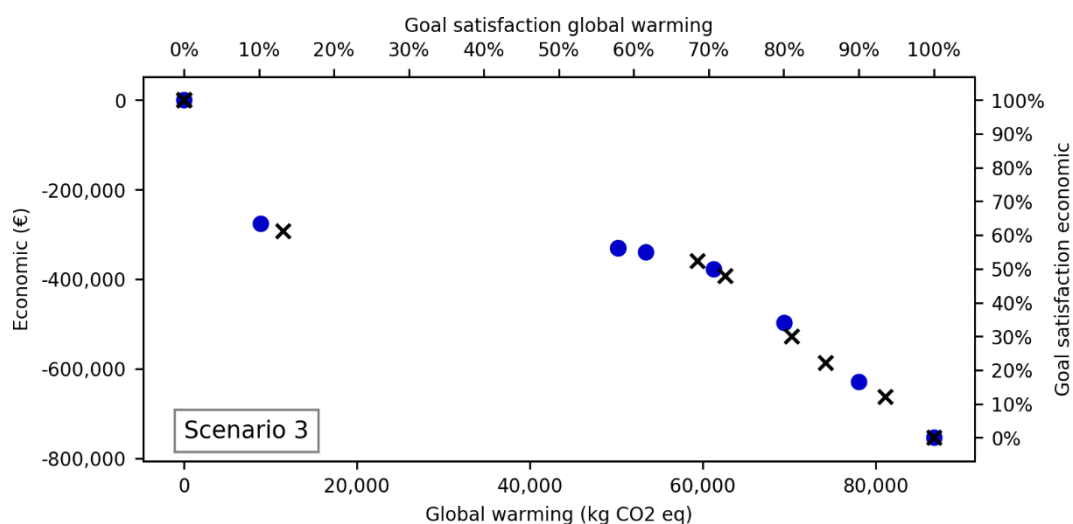
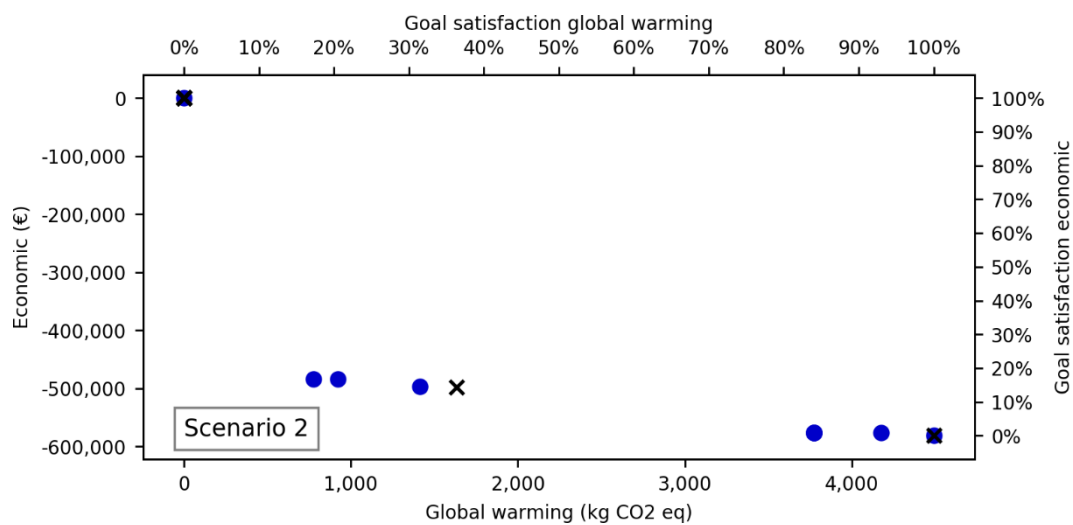


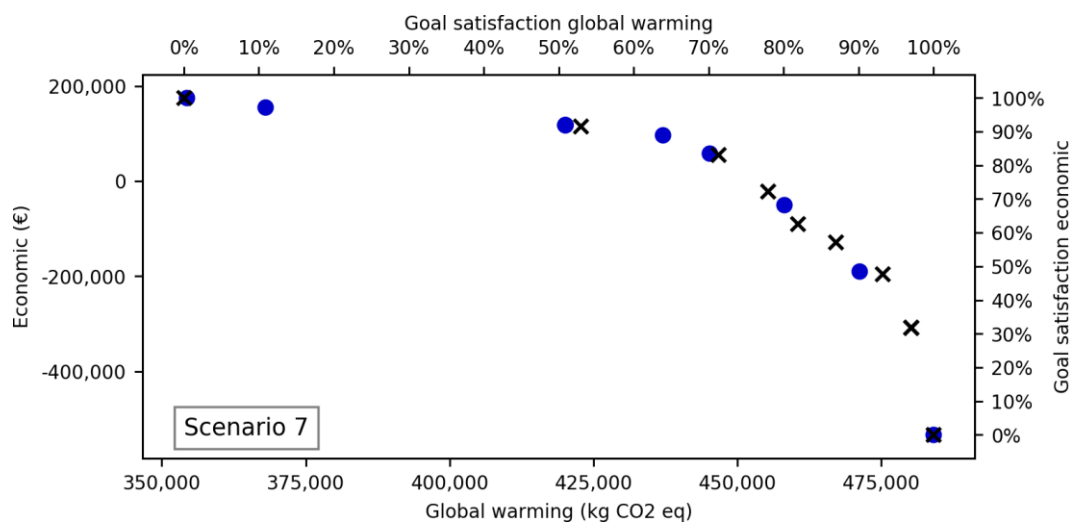
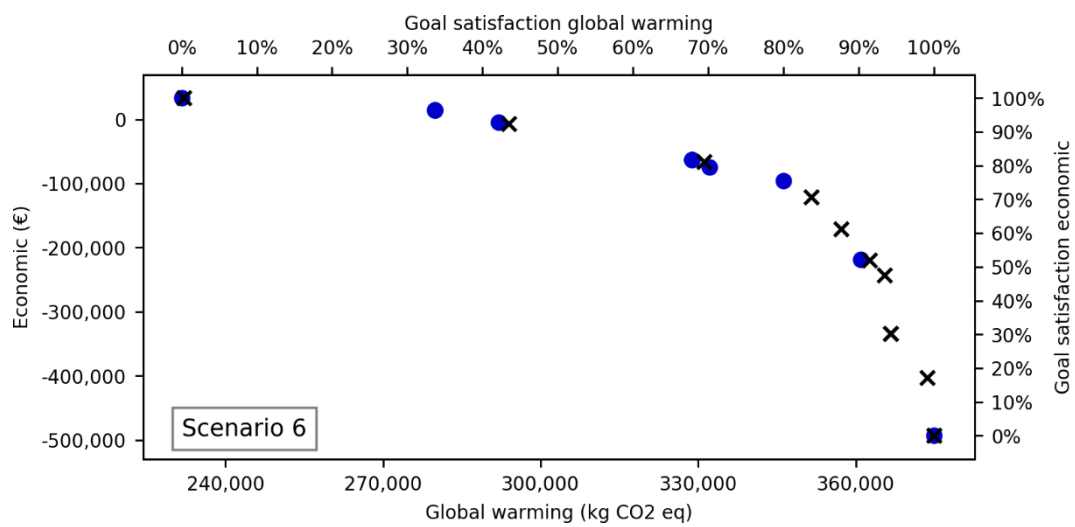
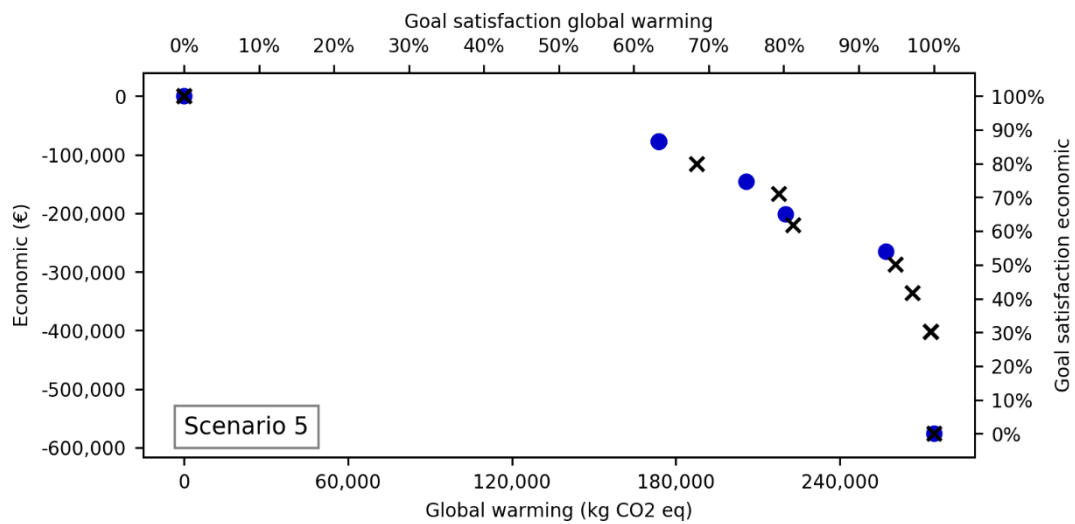


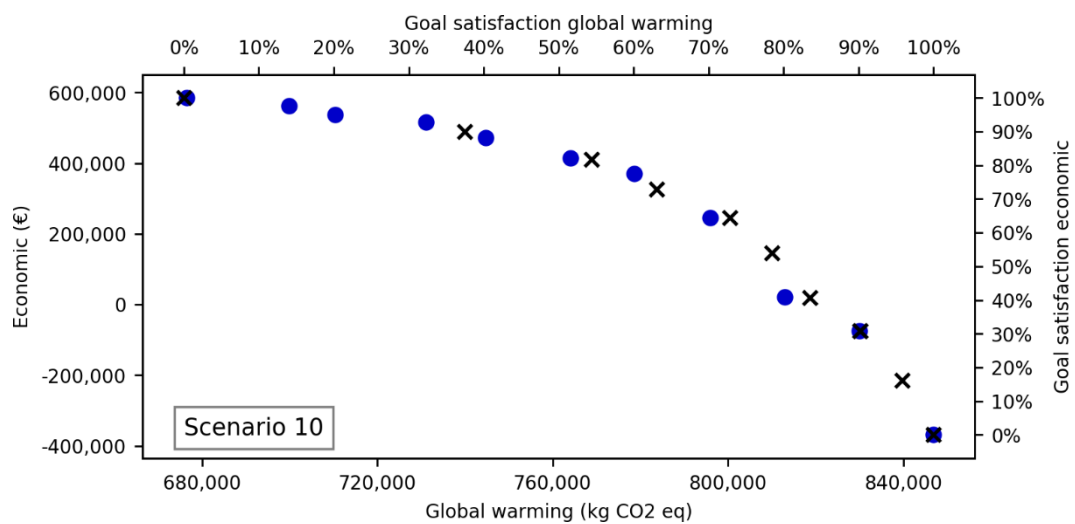
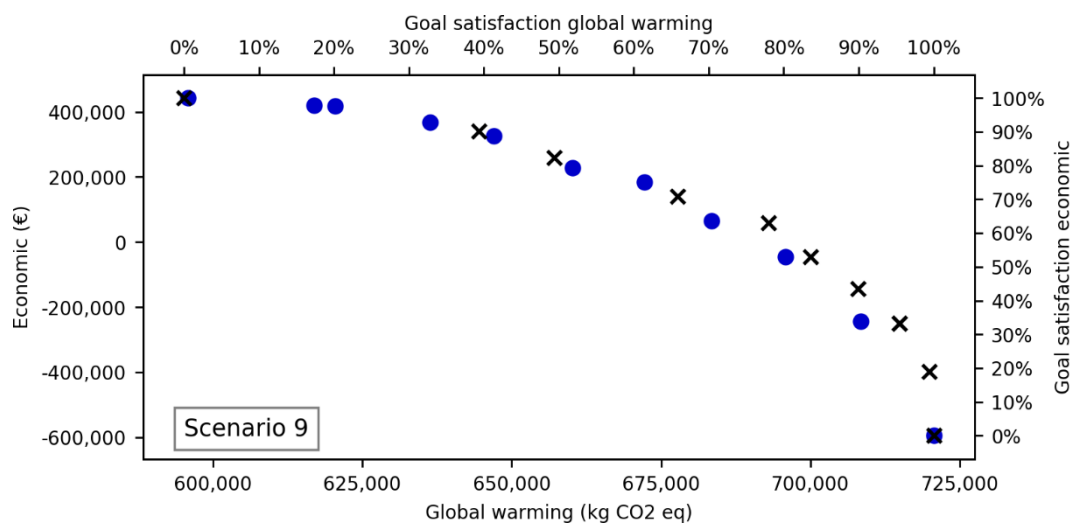
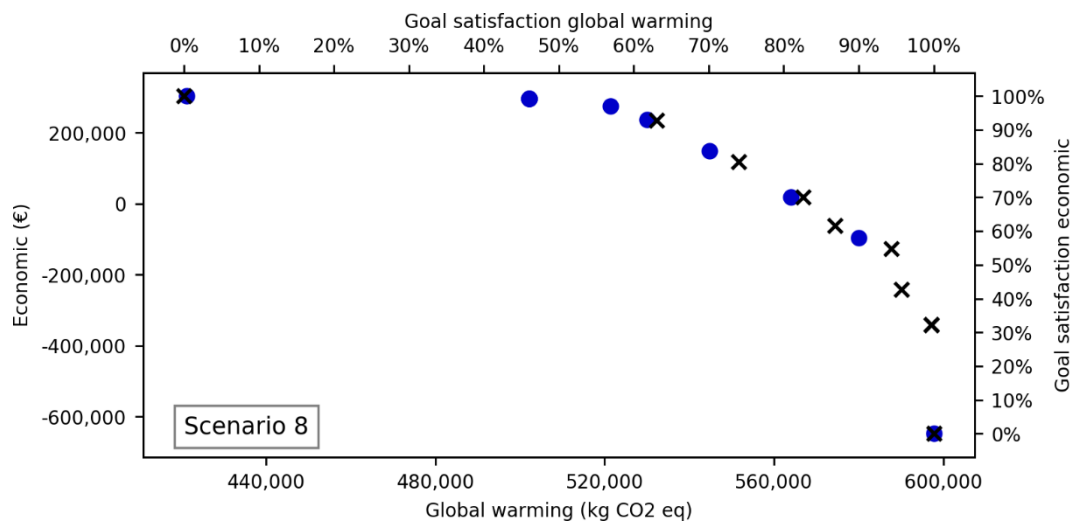


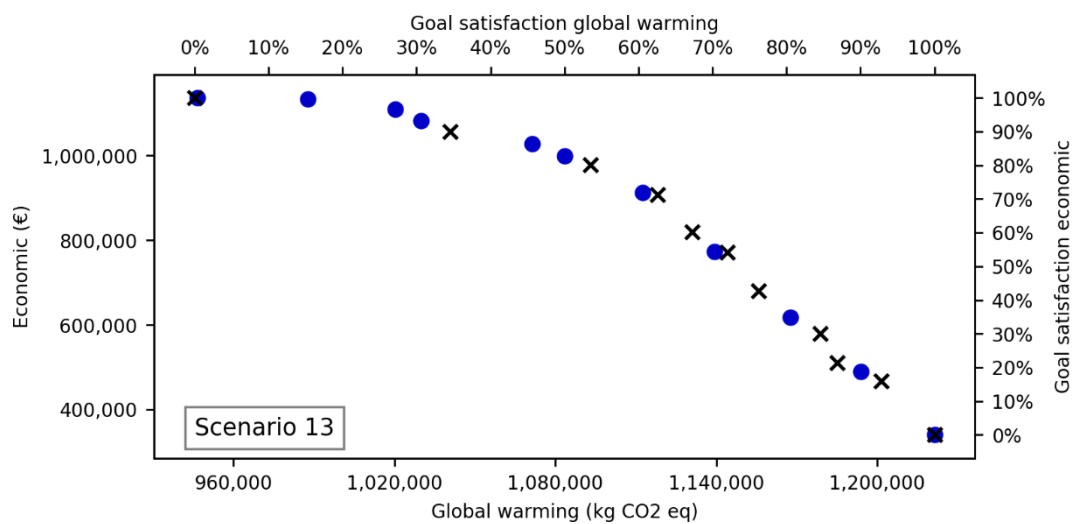
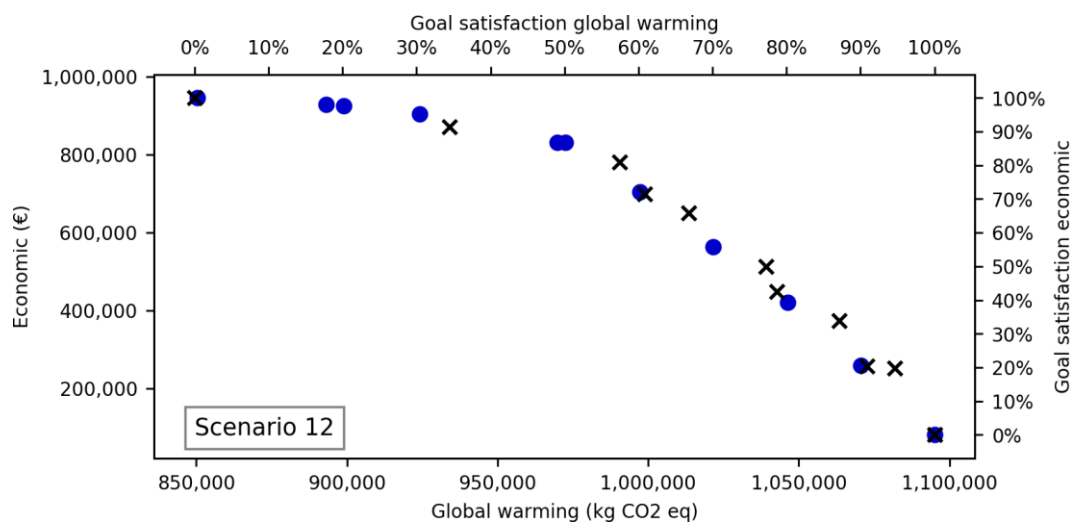
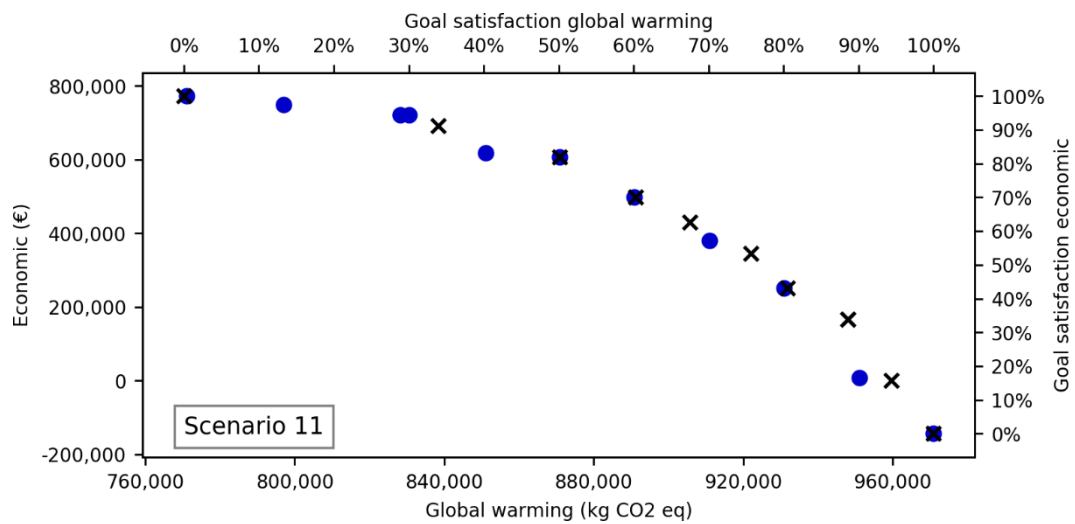
Supplementary figure S4 a–s. Pareto-optimal frontier for economic optimization with global warming constraint (circles), and global warming optimization with economic constraint (crosses) for scenarios 2 to 20

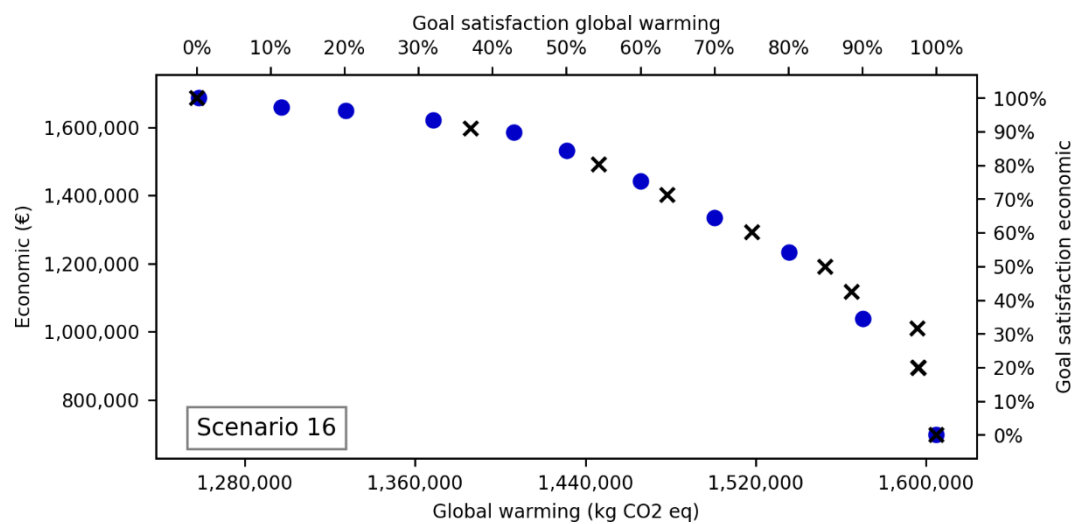
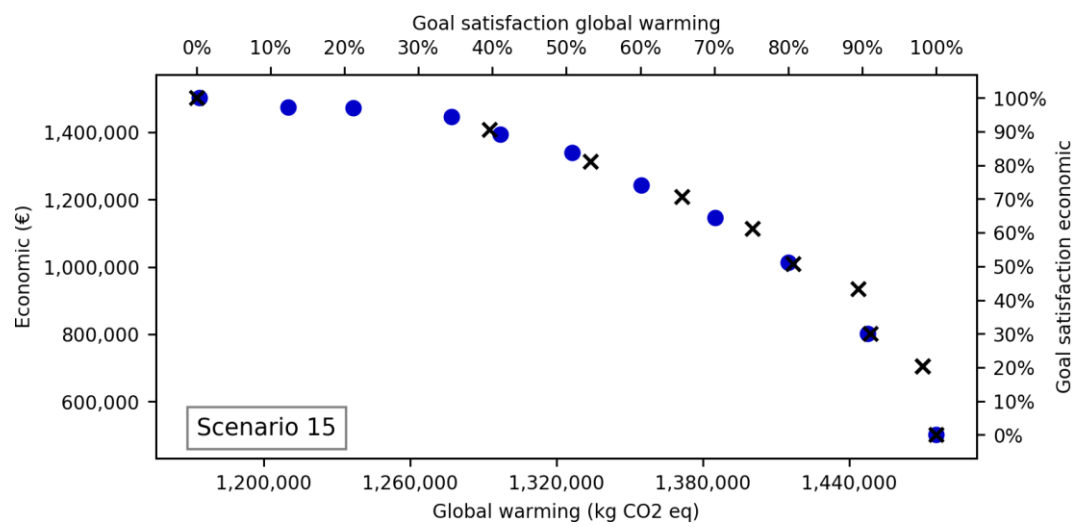
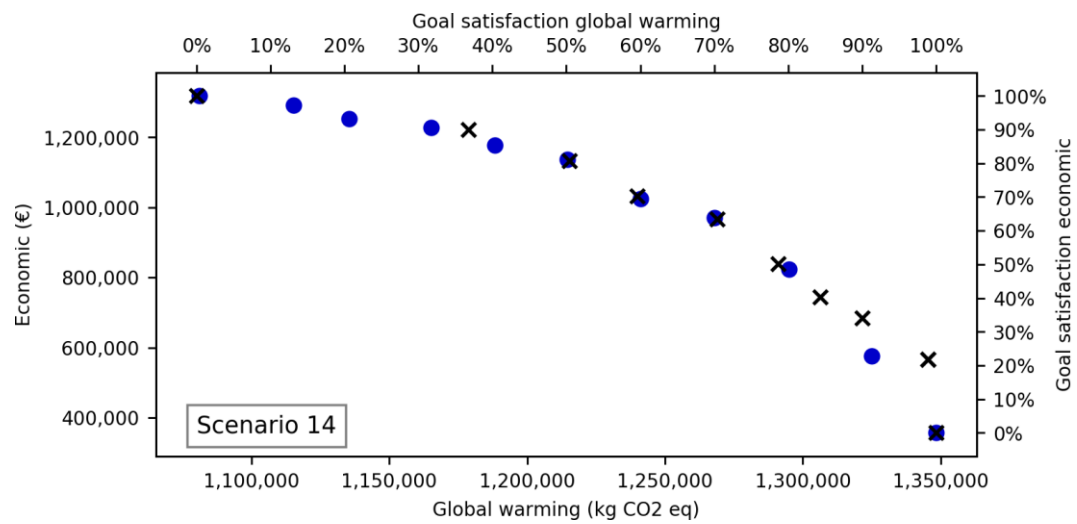
Scenario 1 is omitted. No frontier exists, since all solutions are equal (0).

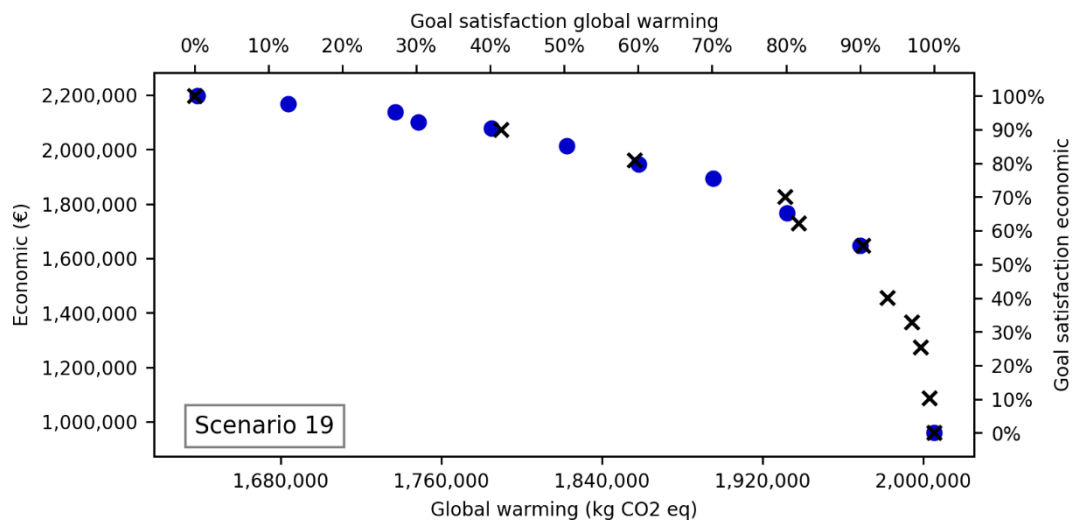
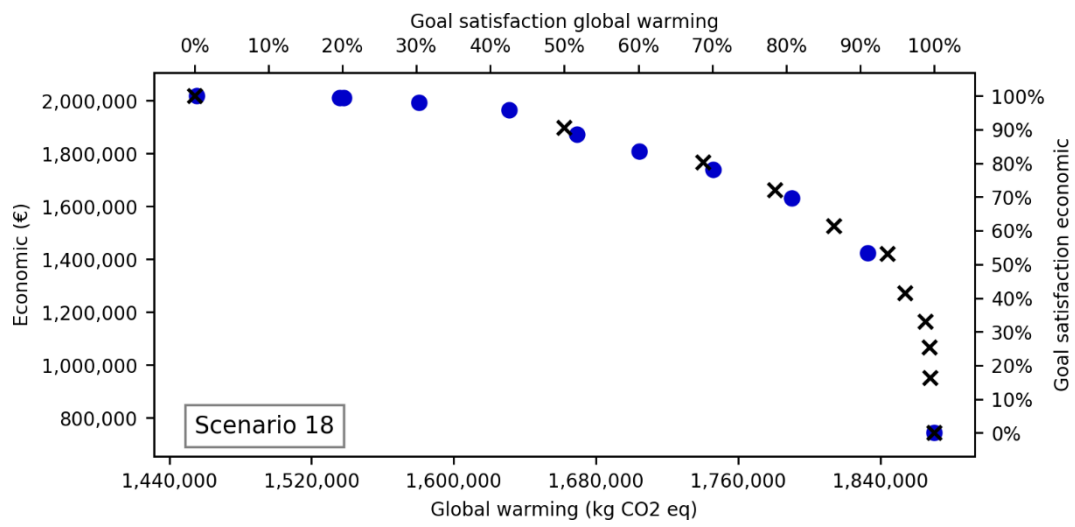
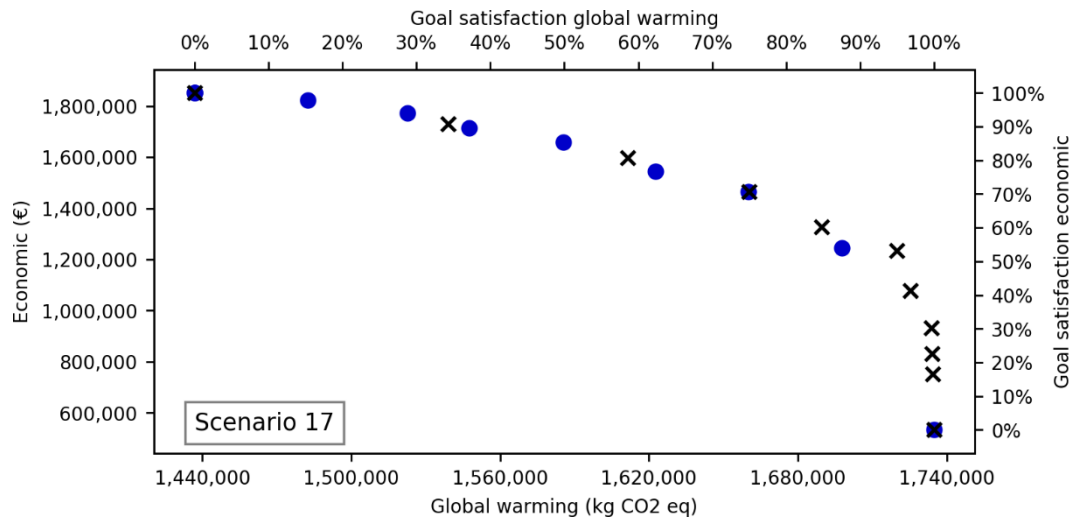


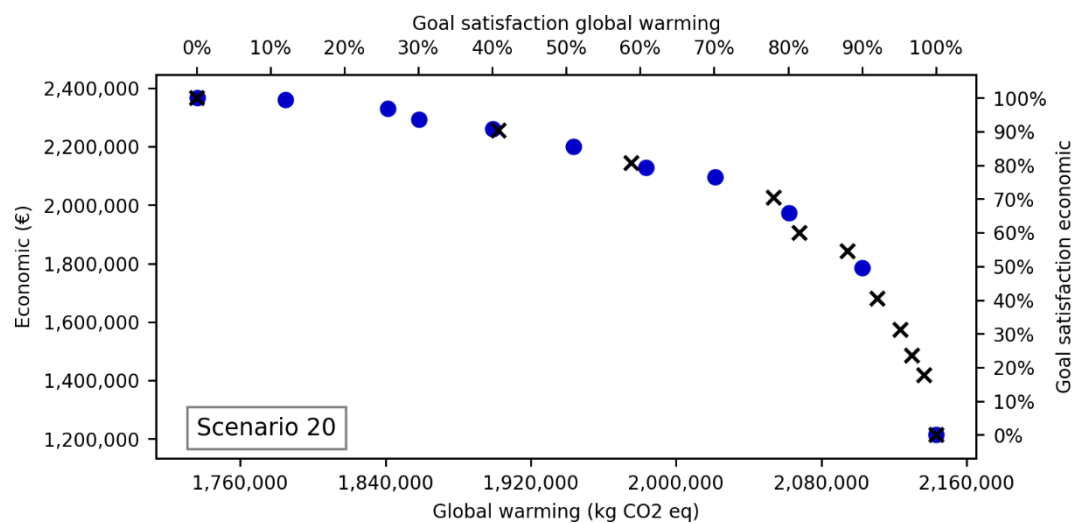






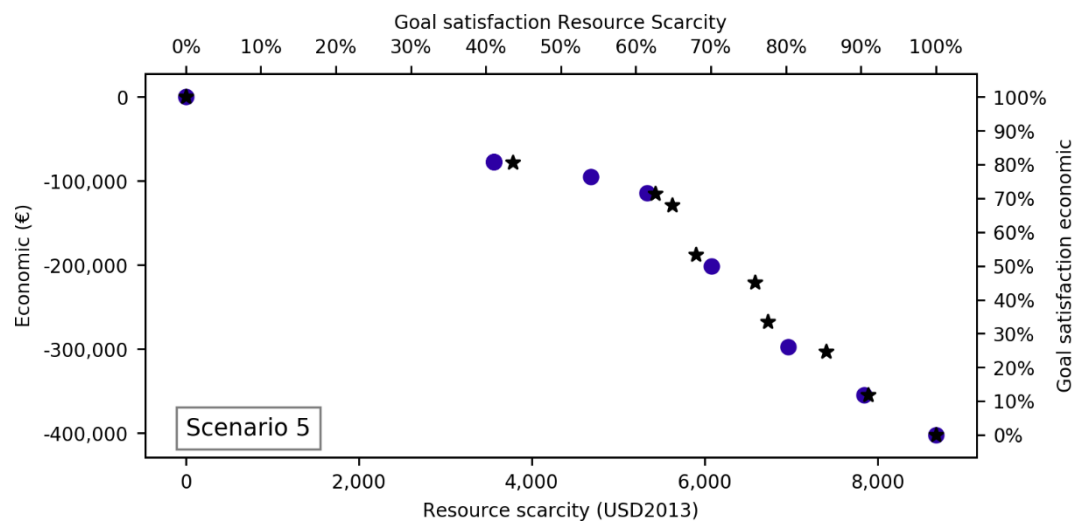
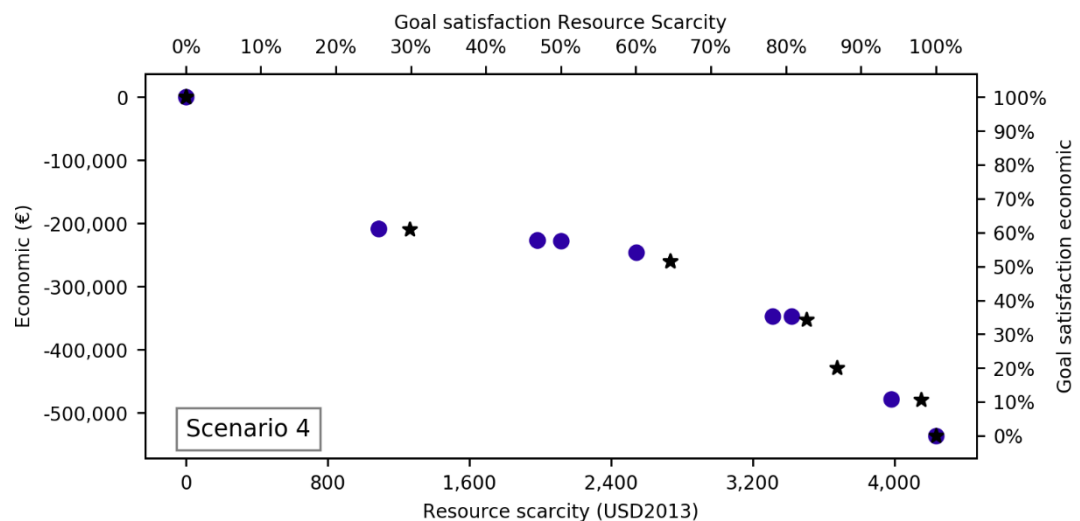
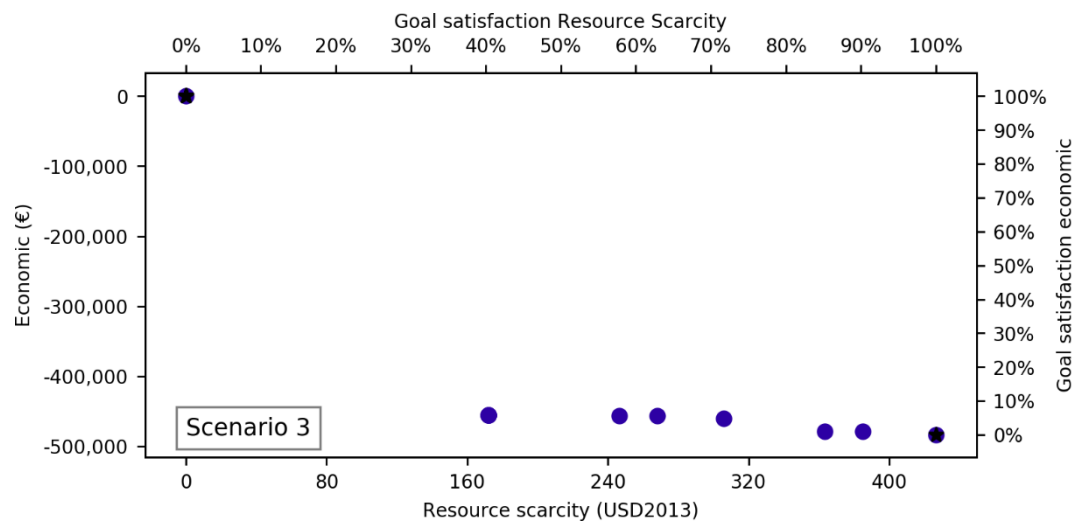


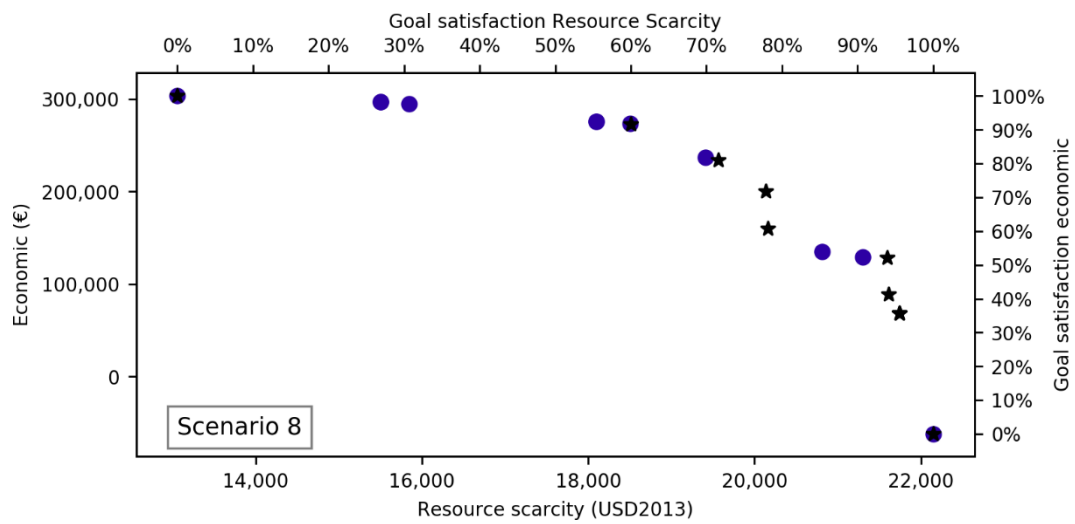
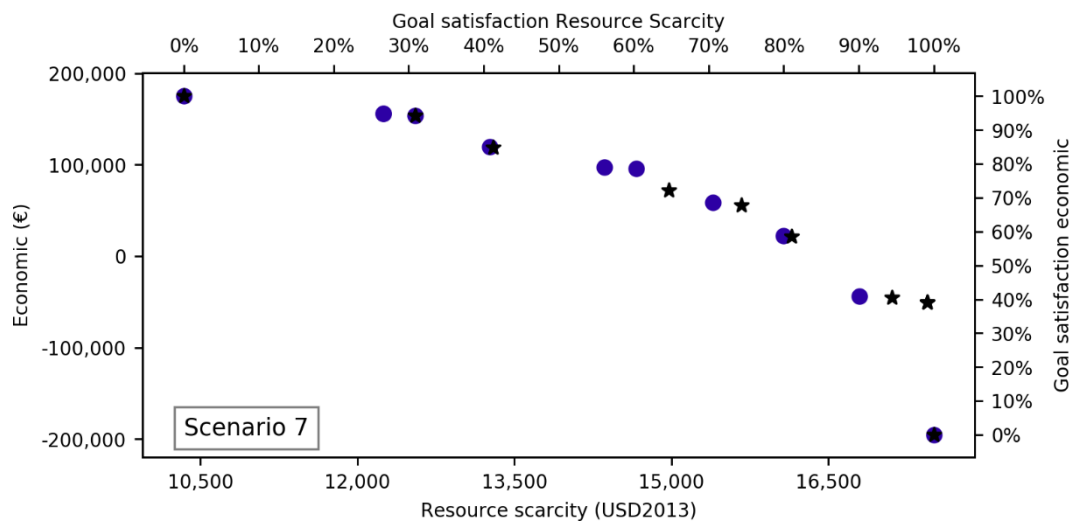
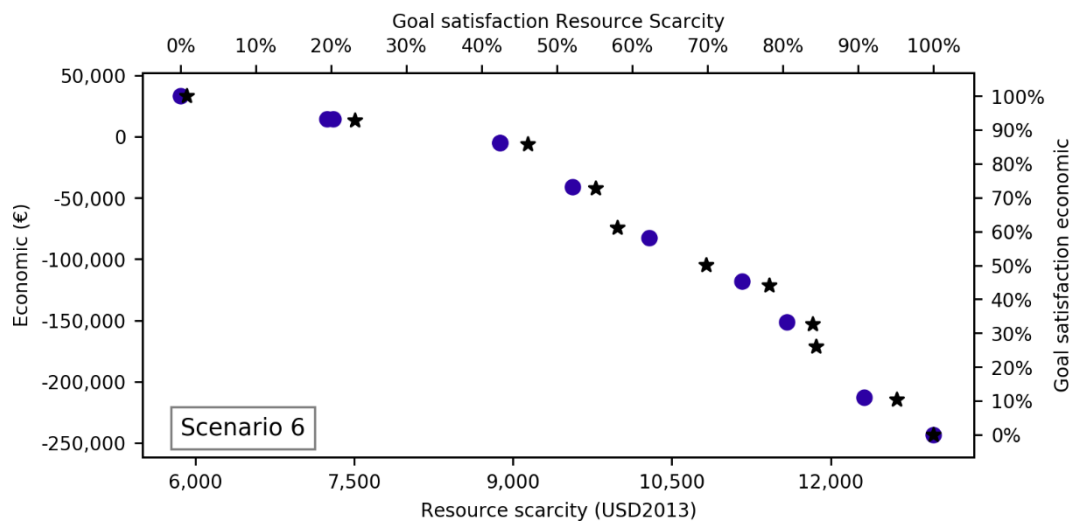


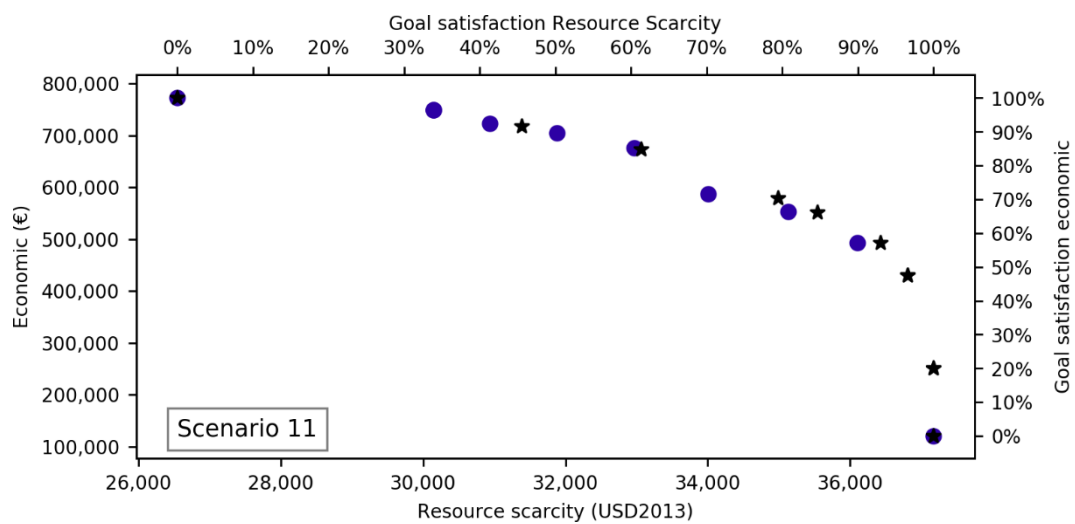
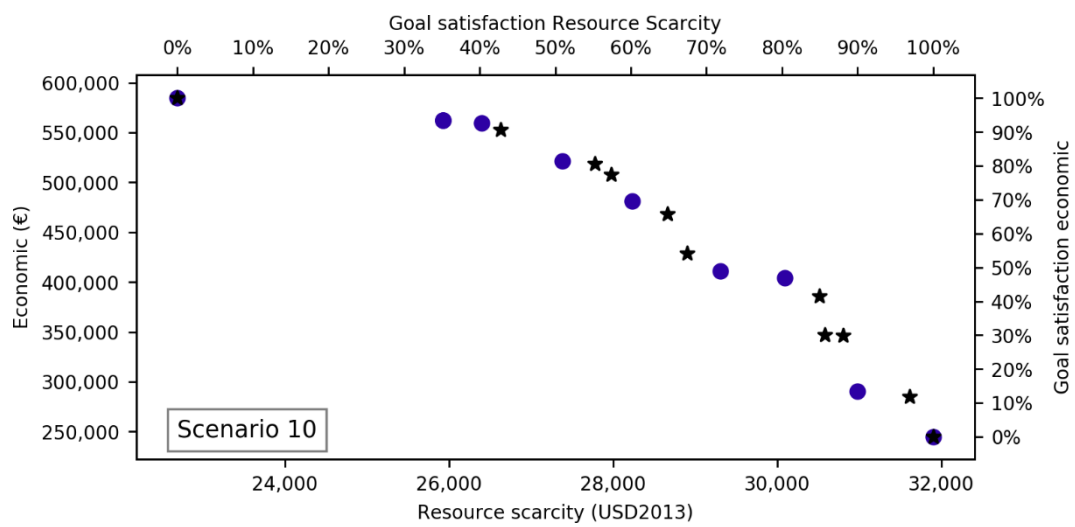


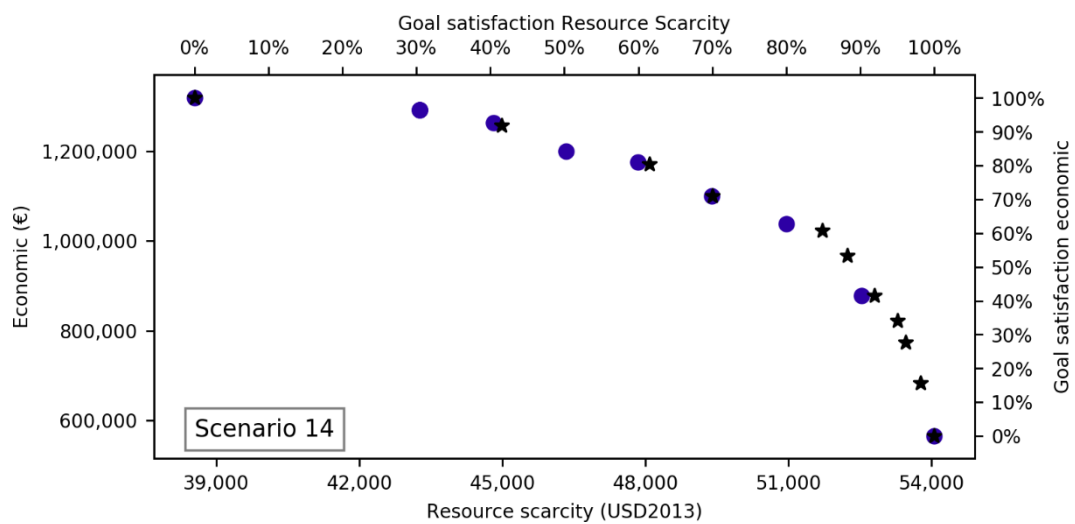
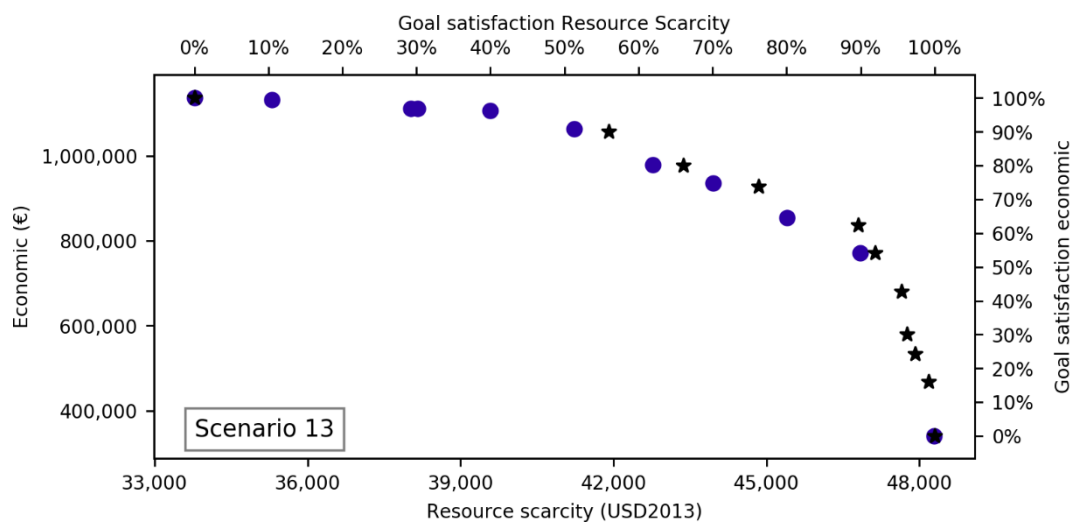
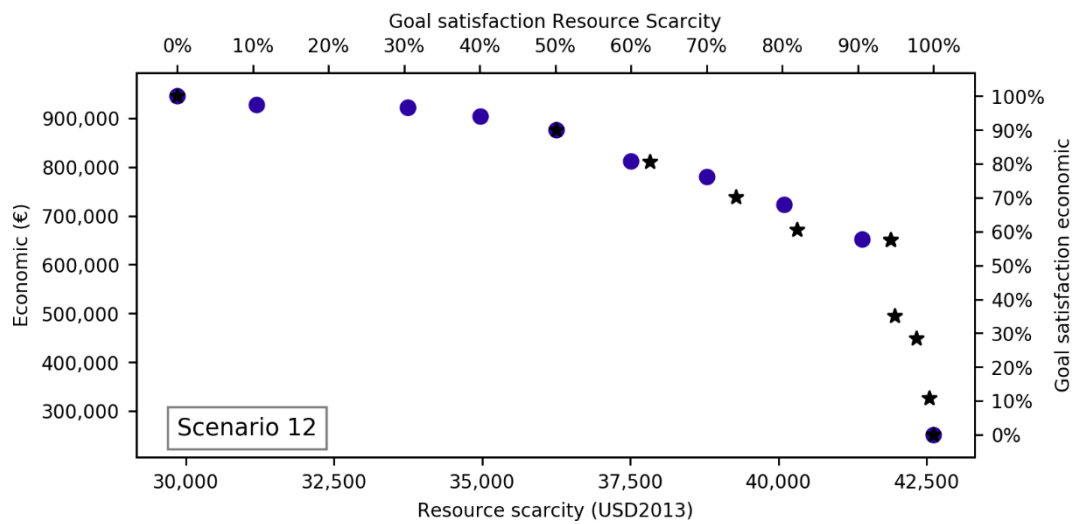
Supplementary figure S5 a–r. Pareto-optimal frontier for economic optimization with resource scarcity constraint (circles), and resource scarcity optimization with economic constraint (stars) for scenarios 3 to 20

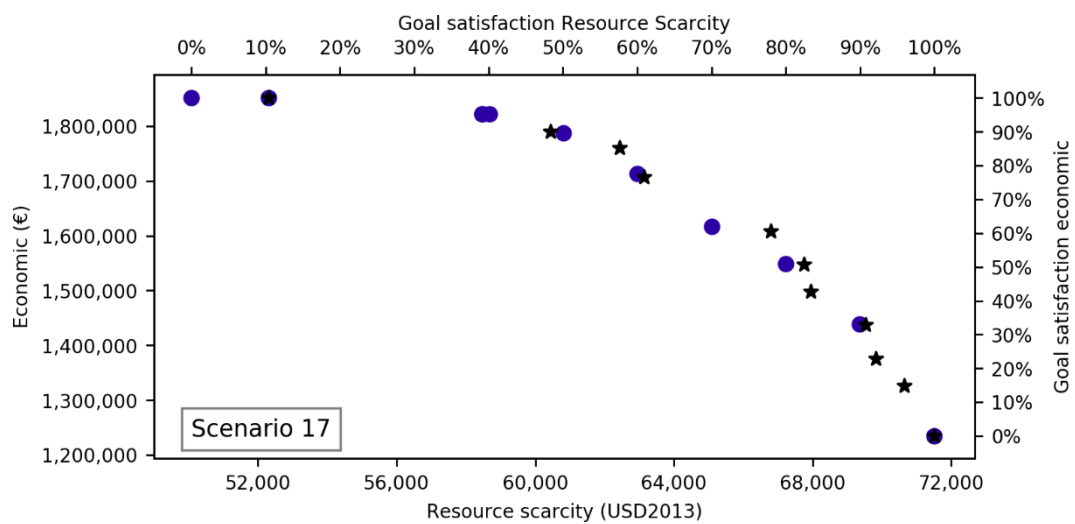
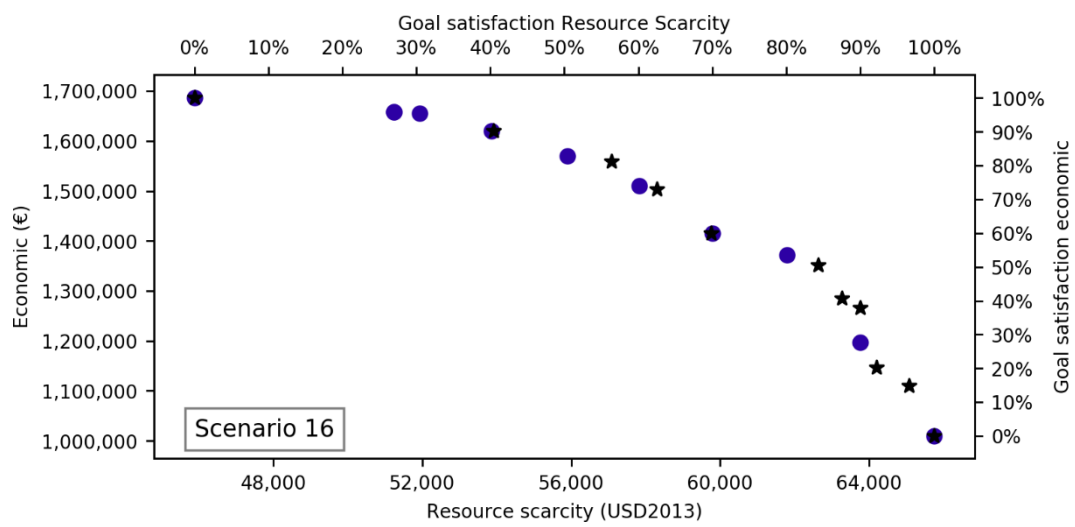
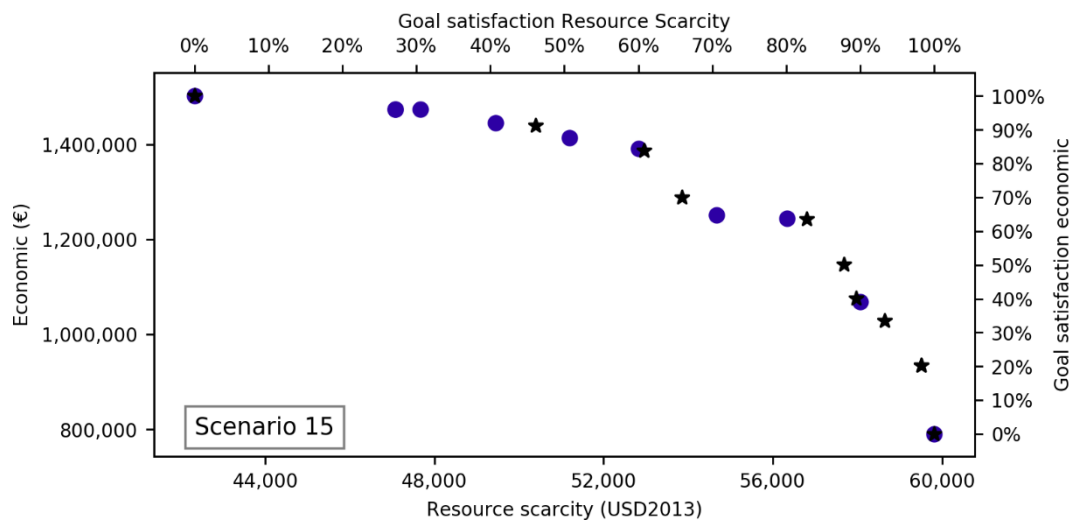
Scenarios 1 and 2 are omitted. No frontier exists, since all solutions are equal (0).

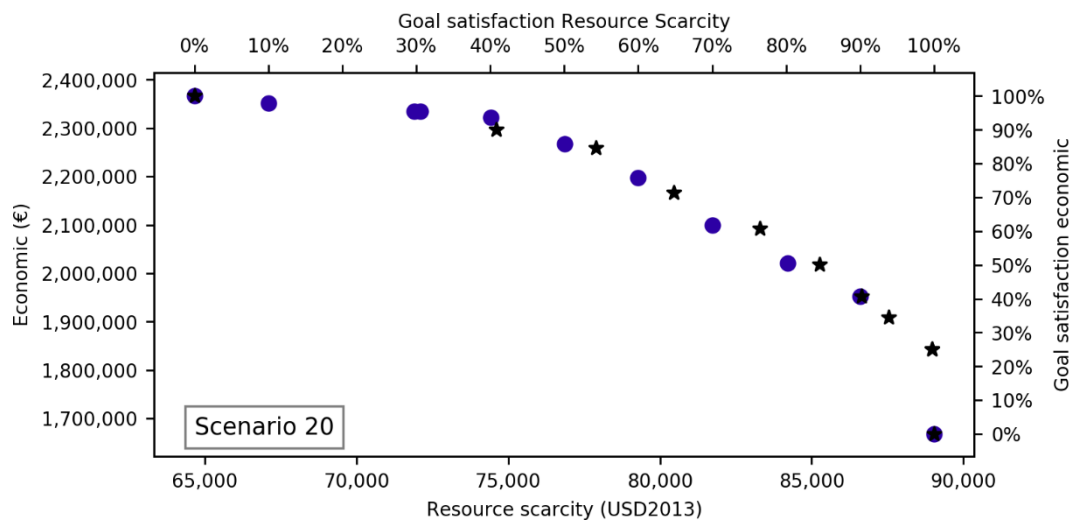
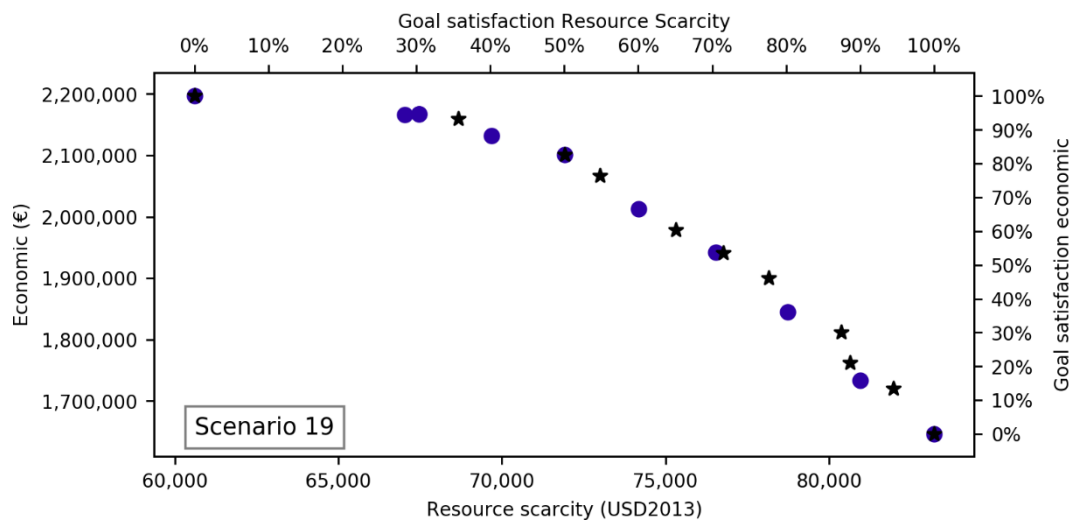
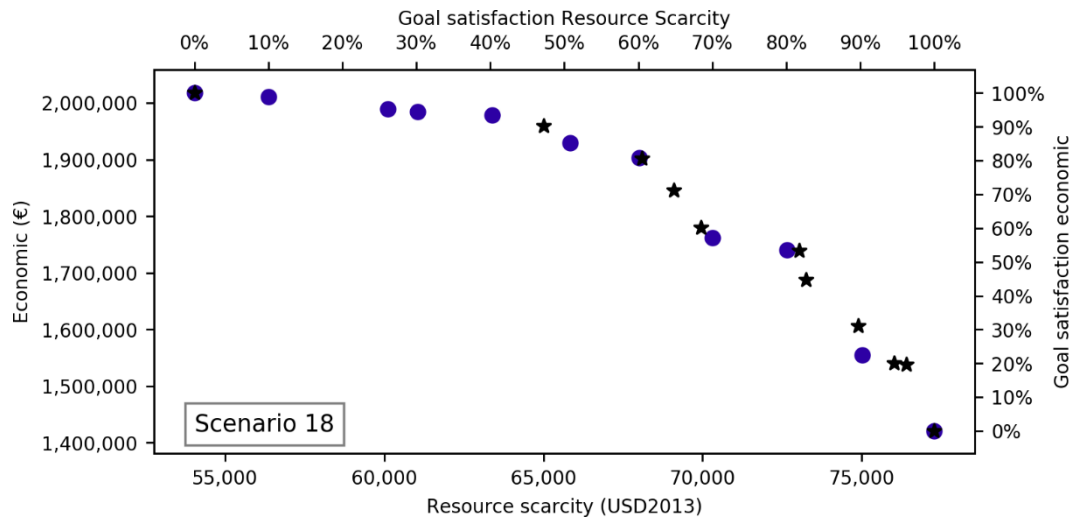






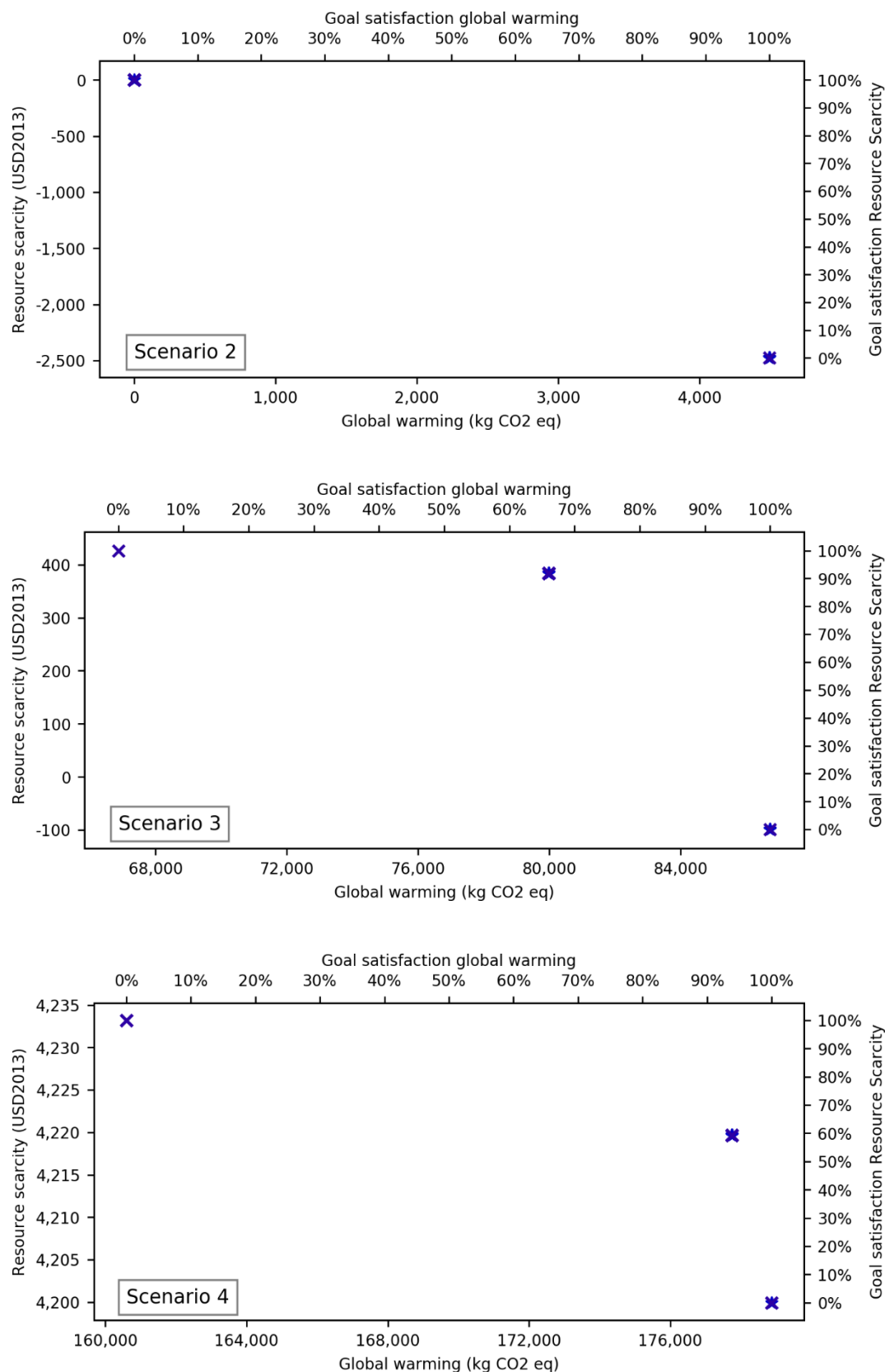


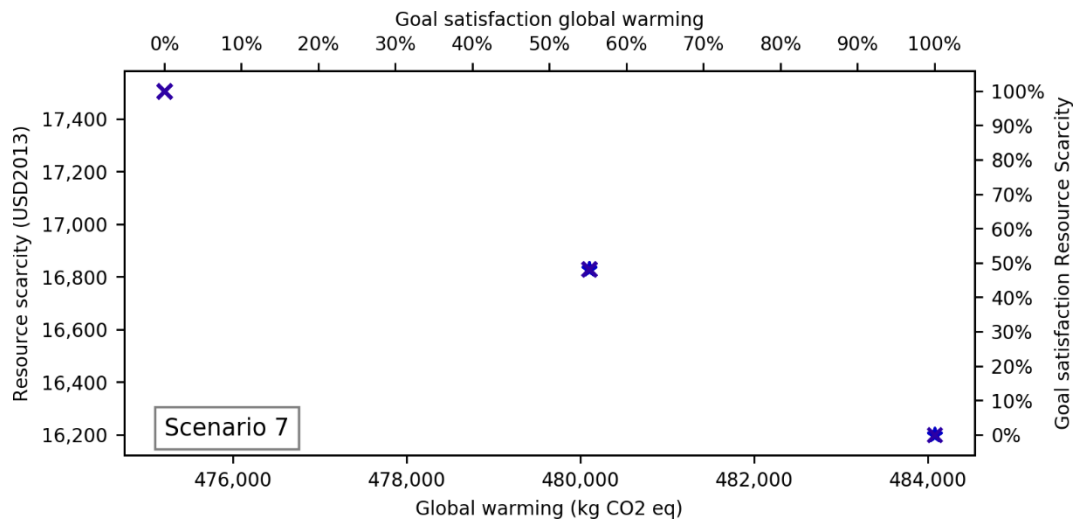
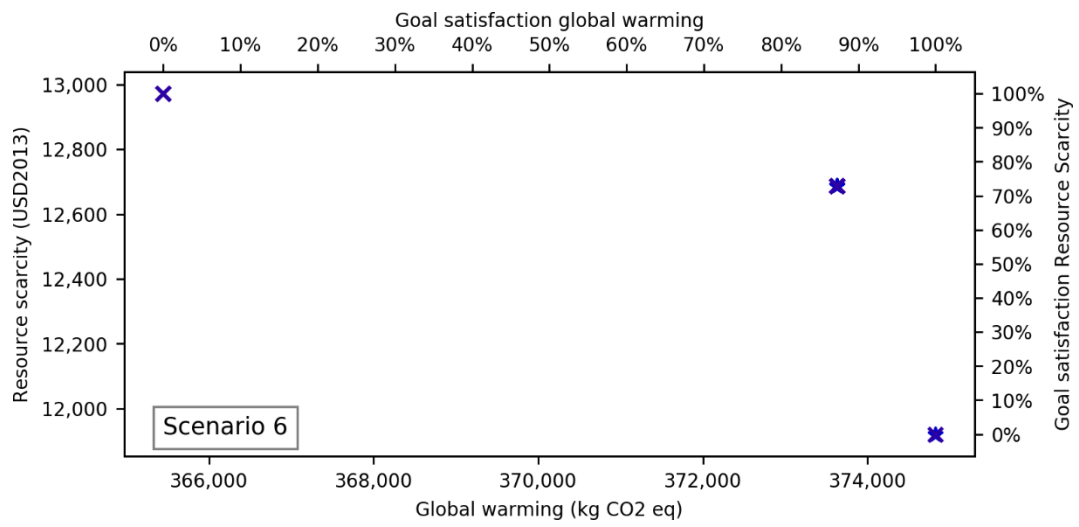
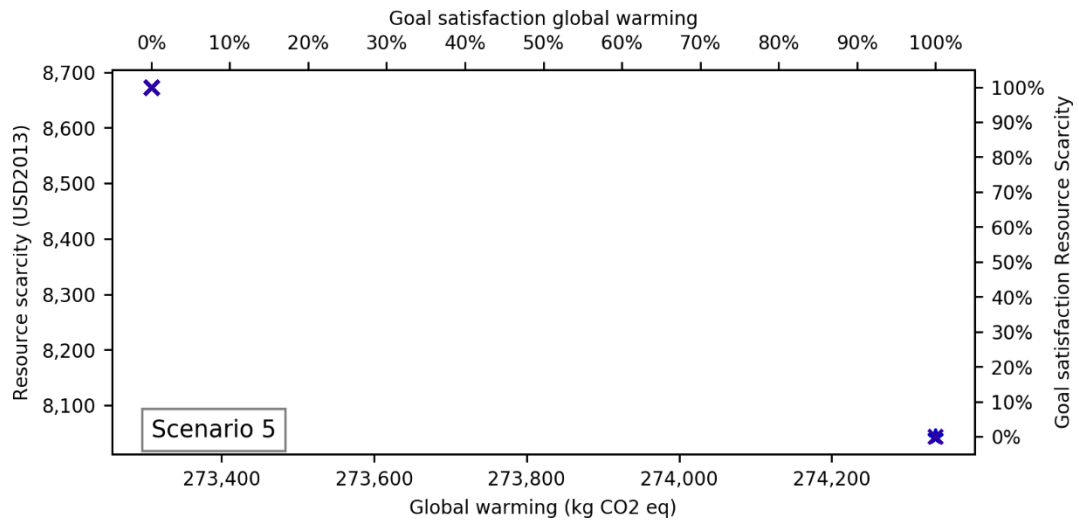


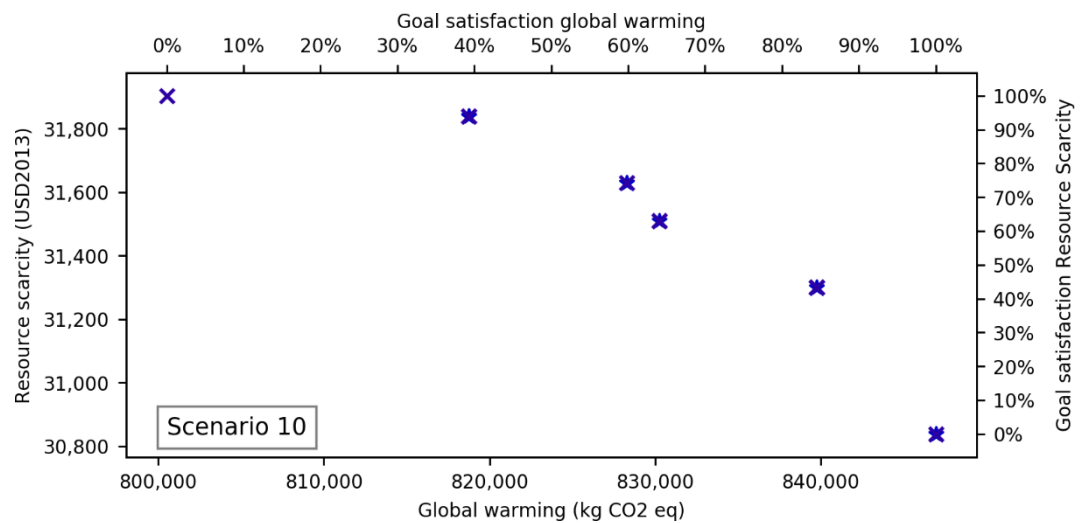
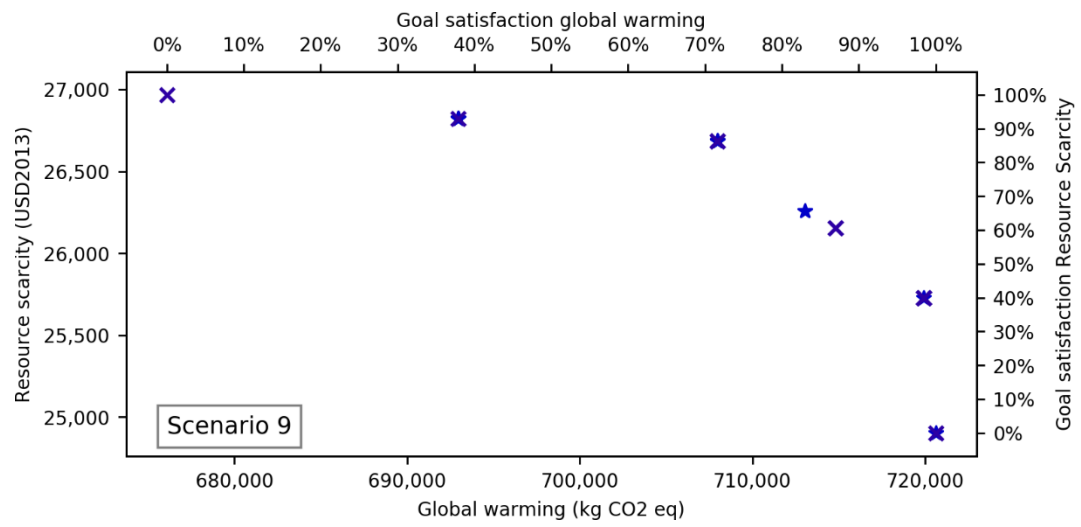
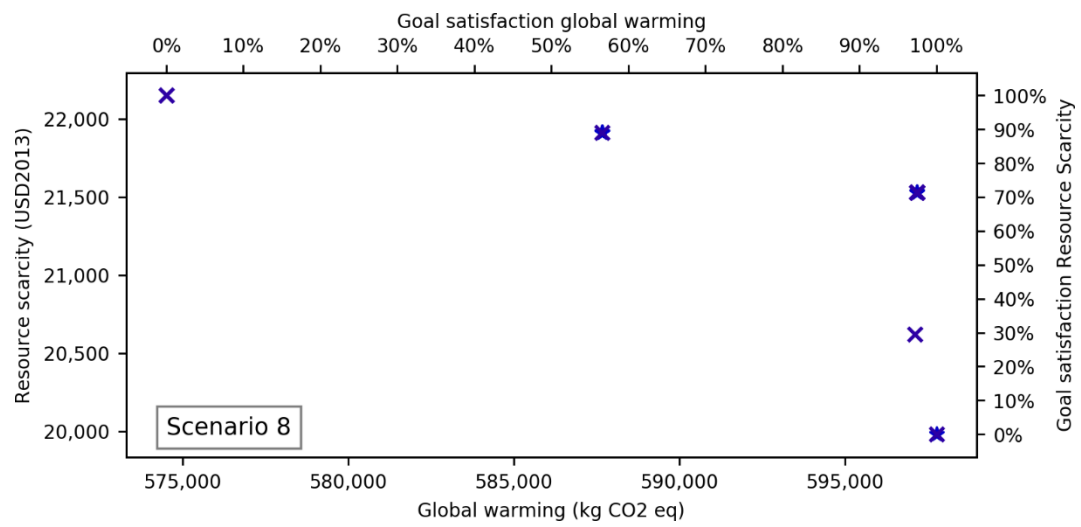


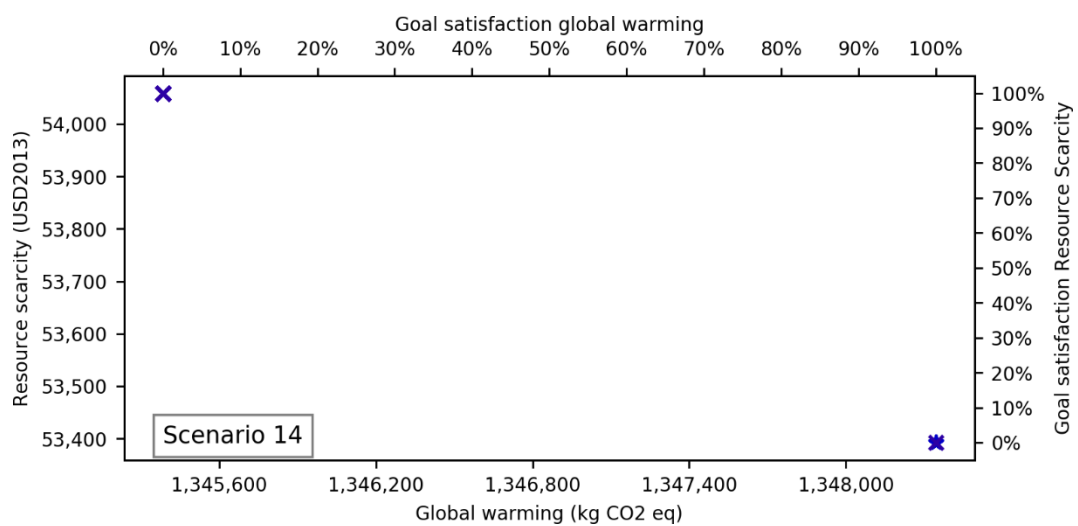
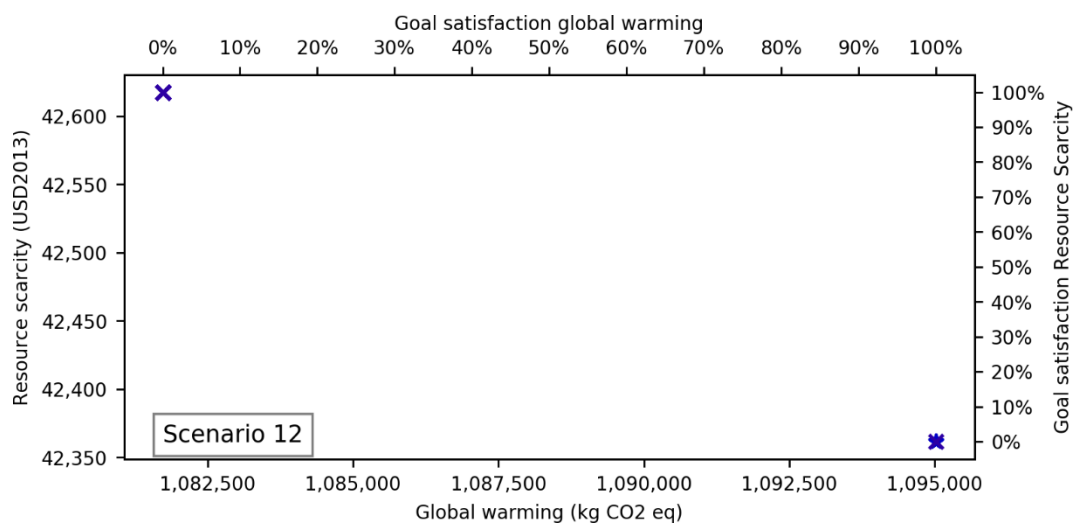
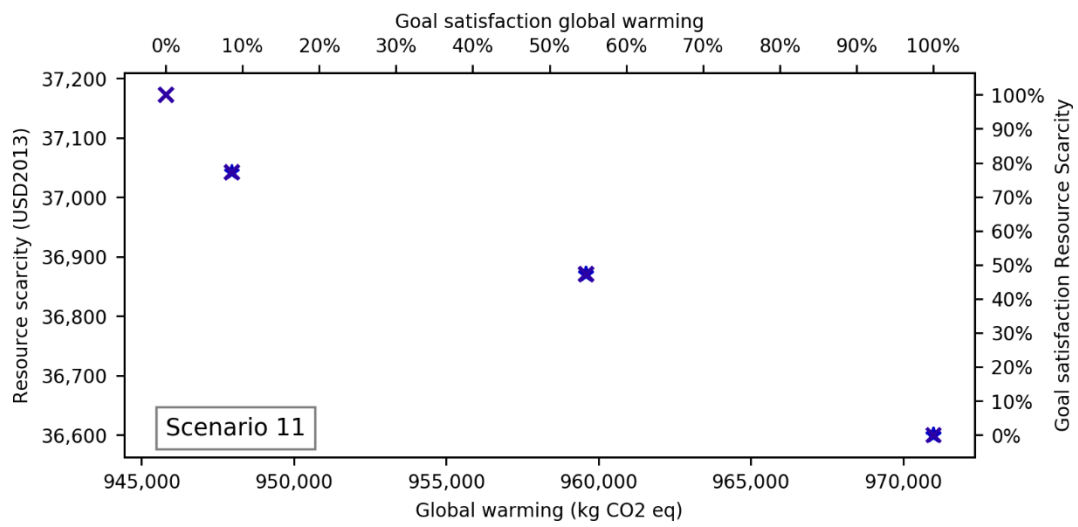
Supplementary figure S6 a–r. Pareto-optimal frontier for resource scarcity optimization with global warming constraint (stars), and global warming optimization with resource scarcity constraint (crosses) for scenarios 2 to 12 and 14 to 20

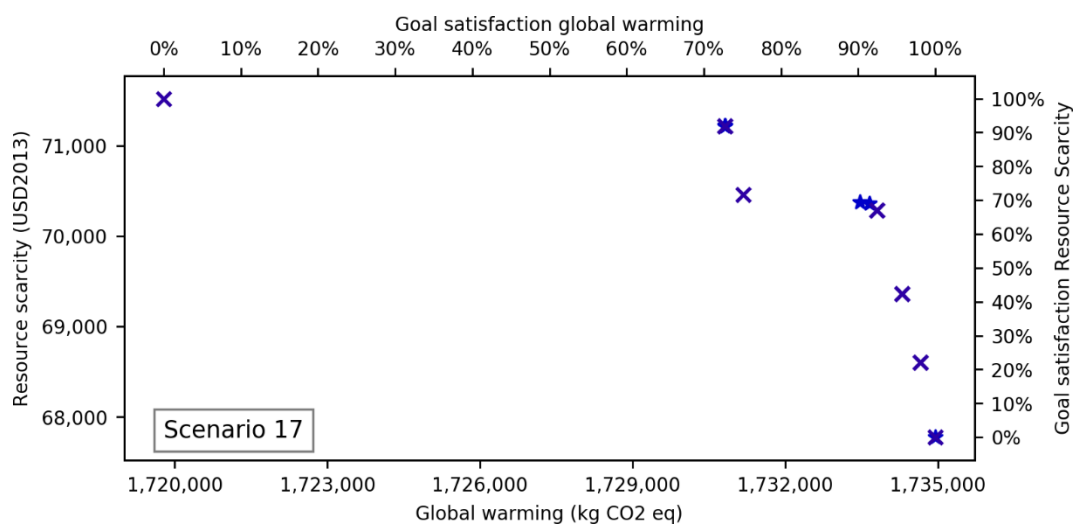
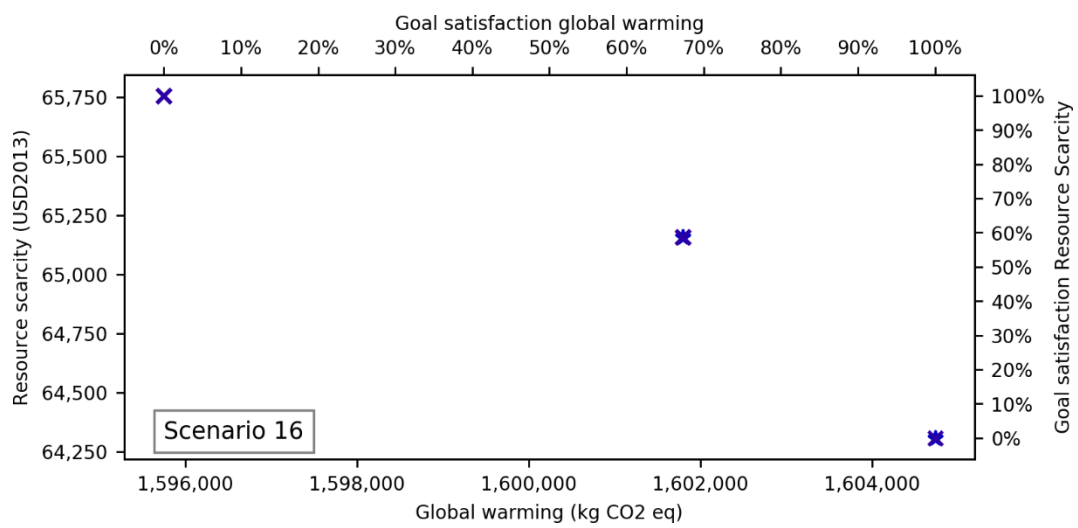
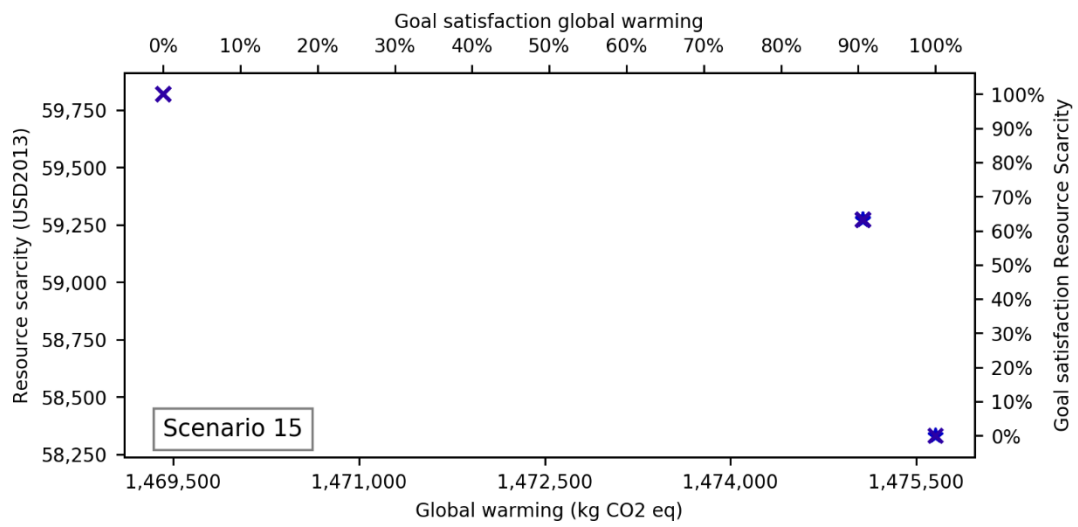
Scenarios 1 and 13 are omitted. No frontier exists, since all solutions are equal.

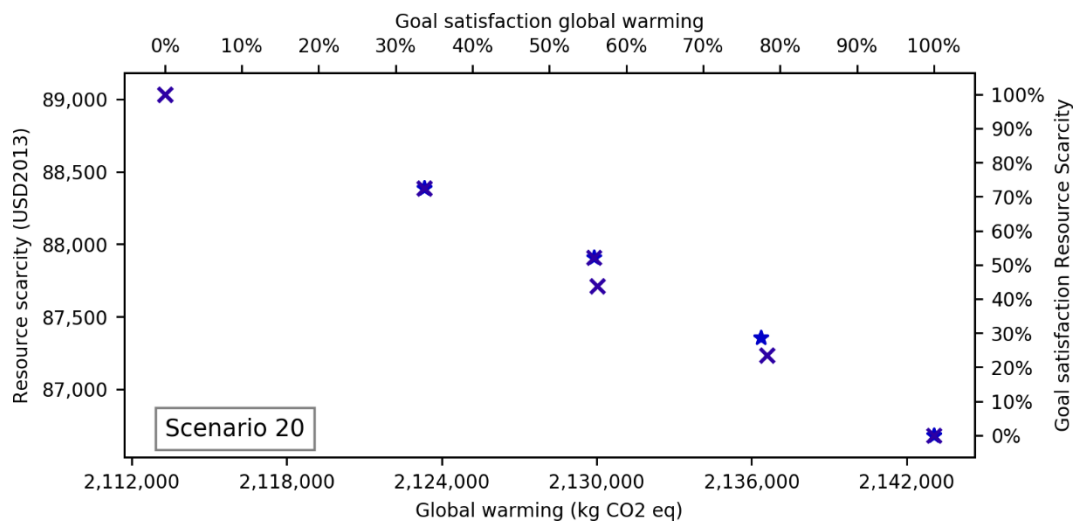
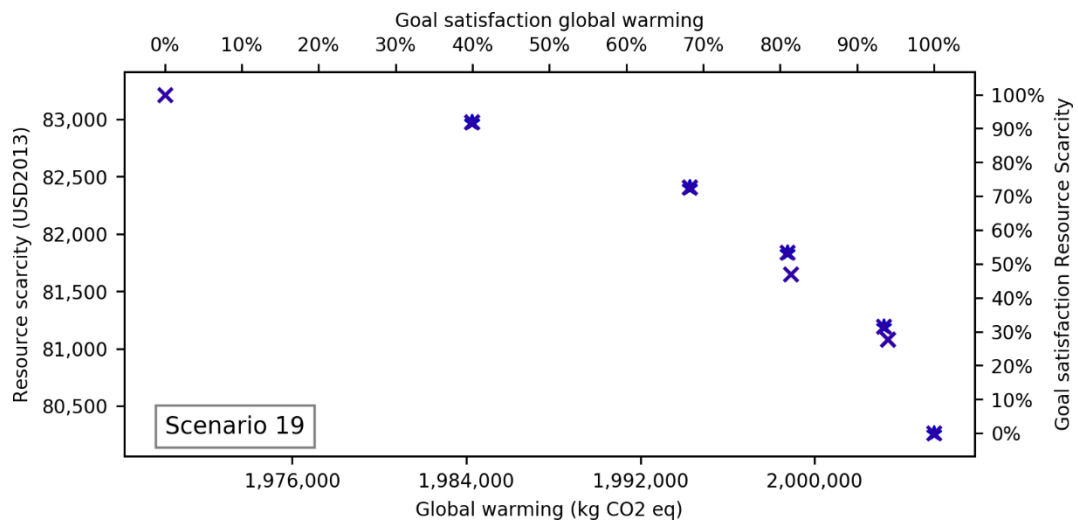
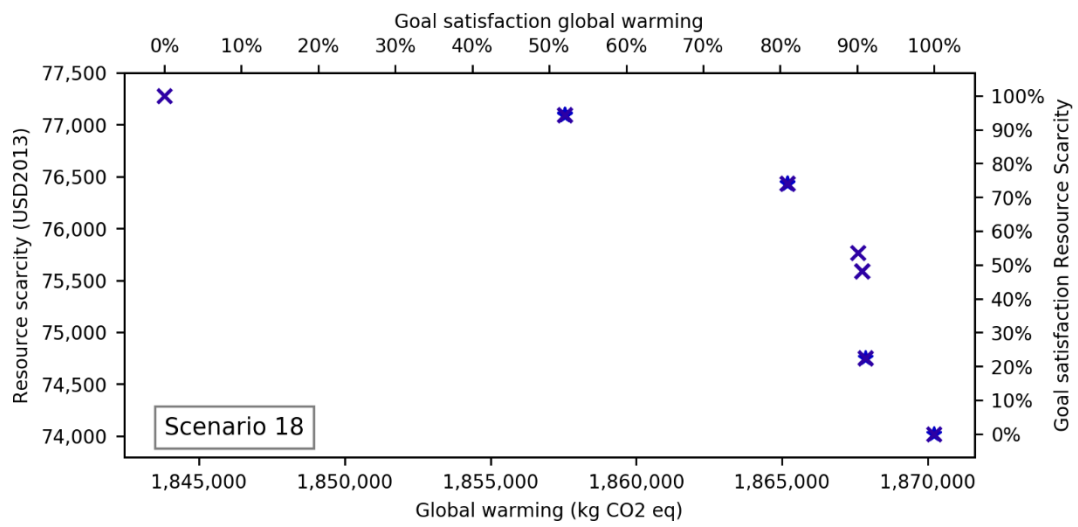












Supplementary figure S7 a–o. Pareto-optimal frontier for economic optimization with mineral resource scarcity constraint (circles), and mineral resource scarcity optimization with economic constraint (triangles) for scenarios 6 to 20

Scenarios 1 to 5 are omitted. No frontier exists, since all solutions are equal (0).

