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The main data that support the findings of this study are available as supplementary tables. Additional data are available from the corresponding authors upon request.

The computer code used to generate the results that are reported in this study are available from the corresponding authors on reasonable request.

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F.K. designed the research and wrote the manuscript, with contributions from all authors. S.V.H. and F.K. performed the life-cycle analysis, with contributions from M.A.J.H. F.K., J.-F.M., U.C. and H.P. ran the model simulations. U.C. and H.P. managed E3ME. J.-F.M. and A.L. developed FTT:Transport. F.K. and J.-F.M. developed FTT:Heat. J.-F.M. and P.S. developed FTT:Power.

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Supplementary Figs. 1-6 and Methods 1-4.

Supplementary Tables 1-9.

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