

Balancing building conservation with energy conservation is challenging. The overall aim of this thesis is to bridge the perceived conflict of reaching climate and energy goals on the one hand and the goals of a sustainable management of historic building stocks on the other hand. The historic building stock holds an important potential for energy efficiency improvements that should be undertaken without damaging or destroying heritage values represented by the buildings. For this to happen heritage values need to be identified, acknowledged and articulated in a systematic and transparent manner in order to be balanced with other interests when assessing the energy saving potential in relation to building conservation requirements.

Three areas of importance to move the issue of balancing building conservation with energy conservation from building level to building stock level is identified. These are 1) adapted decision support processes for historic building stocks 2) methods to integrate aspects of heritage values for decision support processes and 3) building stock analysis aiming at developing differentiated energy renovation strategies for historic building stocks. A decision support process that allows for interaction between a quantitative assessment of the techno-economic optimisation and a qualitative assessment of vulnerability and risks has been developed for historic building stocks. The results provide not only a method to develop differentiated energy renovation strategies but also argue for the need for coherent and coordinated information about the historic building stock.



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# Balancing Building Conservation with Energy Conservation

Towards differentiated energy renovation strategies  
in historic building stocks

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