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57. N.B. Growing body of research and practical studies exploring the benefits of timber include but not limited to: [Buildings can become a global CO2 sink if made out of wood instead of cement and steel](#); [High-rise Timber Buildings as a Climate Change Mitigation Measure – A Comparative LCA of Structural System Alternatives](#); [Carbon footprint of prefabricated wood buildings](#)
N.B. *Cities as carbon sinks—classification of wooden buildings*: This study aims to estimate the carbon

storage potential of new European buildings between 2020 and 2040. While studies on this issue exist, they mainly present rough estimations or are based on a small number of case studies. To ensure a reliable estimation, 50 different case buildings were selected and reviewed. Results estimate a gradual increase of wood in new buildings over the course of two decades, and specifically at the average amount of new housing built annually in Europe. The researchers found that stored carbon could hit a total of 420 million tons by 2040. While there are opportunities for wood harvesting in the world. It should be noted that wood harvesting is only reasonable if forests are managed efficiently. Otherwise, using wood for construction will result in the disappearance of forests. Read the full study [here](#).

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residential building in Quebec City as their baseline, the study uses life cycle assessment to quantify the potential of mass timber to avert emissions. Their findings: the baseline scenario produces 25% fewer emissions than a conventional building and 38% fewer emissions when using additional carbon reduction strategies. This study and its findings are limited to the evaluation of one baseline building. The additional carbon reduction strategies included 1) low carbon materials, 2) material minimization, 3) reuse and recycling strategies and 4) local sourcing and transport minimization. Read the full study and limitations: https://www.researchgate.net/publication/320601003_Carbon_footprint_of_pre-fabricated_wood_buildings

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