

SBE19 Graz



SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019
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Special Session

Consequential LCAs in the built environment

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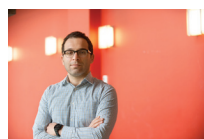
The SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019 is part of a major international series of conferences that focus on sustainable buildings and construction. This series, now on a three-year cycle, has become recognized as the world's preeminent conference series in this important field. Graz University of Technology will host the SBE19 in co-operation with University of Natural Resources and Life Sciences, Vienna, Karlsruhe Institute of Technology and ETH Zürich. Within this conference several Special Sessions are organized.

Keywords and Objective of this Special Session

LCA; consequential; market mechanism; marginal technology; built environment

With many decades worth of service life, modeling the built environment may be challenging for LCA practitioners. The flows exchanged between buildings and nature through time are subject to changes in the complex market relationships that govern human activities. Be it in material availability, in electricity grids' composition, or in new policies for waste management, all life cycle phases of construction-related products can be affected by altered consumption and production trends. Consequential LCA, which gained strength in the early 2000's, allows incorporation of these market intricacies into the environmental assessment. Through the identification of markets affected by potential changes in demand for a given product/process, modeling the environmental consequences of decisions is continuously improved. Albeit promising, consequential LCAs face even more stringent data/modeling needs and demand deeper interdisciplinarity.

This special session aims to explore how the consequential approach has been modeled in the construction sector, how market identification is typically dealt with and in which cases has the approach been identified challenging for life cycle modeling within all the scales of the built environment.



Submitting Abstracts

Authors willing to present a paper at this Special Session are kindly invited to submit a 150 - 250 word abstract in accordance with the topic until **30 November 2018** through the online submission system available on sbe19.tugraz.at. Please indicate in the submission system that you would like to submit an abstract to this particular Special Session.

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