

Information about the lecture

Speaker	Dr.-Ing. Nicole Pfoser
Title	Building • Greenings • Energy: Potentials and interdependencies
Group of topics	21.06.2017 Sustainable Building - Energy - Ecosystemservices Concept
Language	German
Content	<p>”Green Architecture” is becoming a self-evident part of the decision-making process in building development in the commercial and private sectors. The possibility of using building (surface) areas as “green spaces” without additional land consumption, the increase in value for buildings and their locations, and the new synergy of “sustainability” and “quality of life” have gained the attention of developers and investors, who rely on a positive return on investment. Future suitability is in everyone’s interest – in regards of constant appropriateness of the implemented greening systems for private and civic goals, and regarding their (quantifiable) contribution to climate goals, air quality control, and the protection of nature and the diversity of species.</p> <p>The research report delivers basic knowledge for the greening of buildings in connection with energy measures and performance criteria. The positive effects and energy potentials of building greening measures are documented in a review of the literature and measurements conducted for this paper. In addition, computer simulations were used to quantify thermal effects on the urban space. Between scientific knowledge and successful realisation lies a wide area of necessary expertise and practical experience. The value of green roofs and the rediscovery of façade vegetation are eventually determined through the practical and creative success in their implementations. This research project aims to provide a source of interdisciplinary information on the multitude of implementations and interdependencies and synergies of greening buildings. The interdisciplinary treatment of building technology, greening technology, botany, and architecture is vital for the success of greening buildings. At the same time, proven success and comprehensive information are prerequisites for growing interest and acceptance. The detailed guidelines aim to provide confidence to clients, designers, and contractors in addressing safety and preventing failures and wrong decisions, by giving step-by-step, individualized, and practical advice.</p>