

Solar Architecture

- What are the global impact of buildings regarding sustainable future?
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- Why energy-conscious building refurbishment is important regarding our sustainable future?
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- What are the benefits of building energy regulations and energy certificates? Please list some international / national certification standards!
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- What is the most important architectural design stage regarding the future building energy performance of a design project?
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- What are the building-energy and cost aspects of the various architectural design stages!
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- Please provide a brief historic overview about the main chronological stages of energy-conscious design!
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- Please introduce the 2030 Challenge, and please describe how to meet this challenge!
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- Please list the strategic benefits of energy conscious building refurbishment!
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- Please list and briefly explain the architectural design strategies of passive solar systems!
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- Please list and briefly explain the architectural design aspects of active solar systems!
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- Introduce and briefly describe a solar building presented in the lecture, please also list the applied passive and active solar systems!