

LESO **LUNCHTIME*** LECTURES

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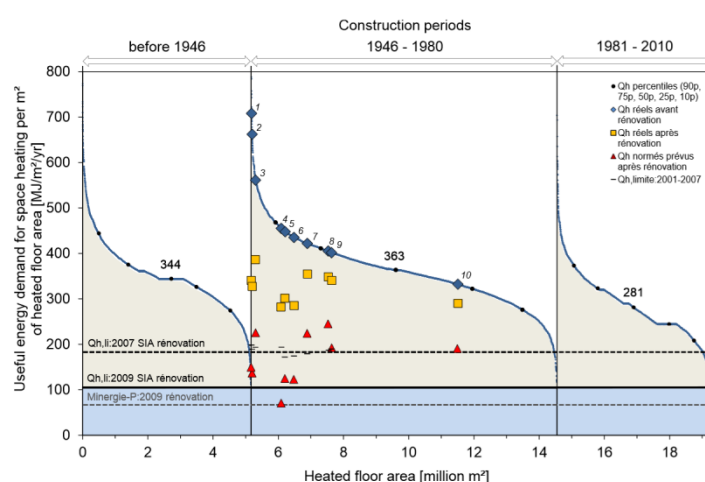
Energy Efficiency in the housing sector – Retrofit potential and Performance gap analysis based on case studies in Geneva

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Summary

The talk will present a detailed assessment of the energy performance and retrofit potential of the Geneva's multi-family housing stock, which is responsible for almost half of the thermal energy consumption of the canton as well as half of the CO₂ emissions of all the building stock. The difference between design and actual energy efficiency of building retrofit, also known as "the performance gap", will then be examined and discussed. Moreover, some recent research activities about implementing energy efficiency in buildings at communal level will be presented. In conclusion, the comparison of these findings with the medium-term objectives according to the Energy Strategy 2050 will offer an understanding about the level of goal achievement and the need for corrective action.



About the speaker

Jad Khoury is a senior research associate in the Energy group at the University of Geneva. After several years of professional experience as an architect in designing and managing projects in the MENA region, he completed a master degree and a PhD in Environmental Sciences at the University of Geneva with a particular focus on energy retrofit potential in the residential sector. His main research and teaching activities fall within the area of energy efficiency in the built environment integrating techno-economic and financial analysis of real case studies and providing policy recommendations. He is involved in several projects both at the cantonal and federal level, such as in the Swiss Competence Center for Energy Research, Future Energy Efficient Buildings and Districts (SCCER-FEEB&D).

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