



Building Performance Simulation



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Building Performance Simulation – mind the gap

The energy performance gap refers to the difference between expected (during design) and actual energy performance of buildings. There is significant evidence to suggest that this gap is getting larger as buildings become more energy efficient. There appear to be three kinds of reasons for the energy performance gap.

Building Performance Simulation – challenges and opportunities

The lecture will start with a general view of the background and current state of computational building energy performance simulation in the context of energy efficient buildings and districts. It will then discuss the currently most common application of building simulation which is for code compliance checking. However, when used appropriately building performance simulation has the potential to help reduce the environmental impact of the built environment, to improve the indoor environmental quality and productivity, as well as facilitating future innovation and technological progress in construction.