

פסטיבל המחקר השנתי הראשון

בנושא

אנרגיה וקיימות

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A preliminary longitudinal study of the impact of tall buildings on urban centres

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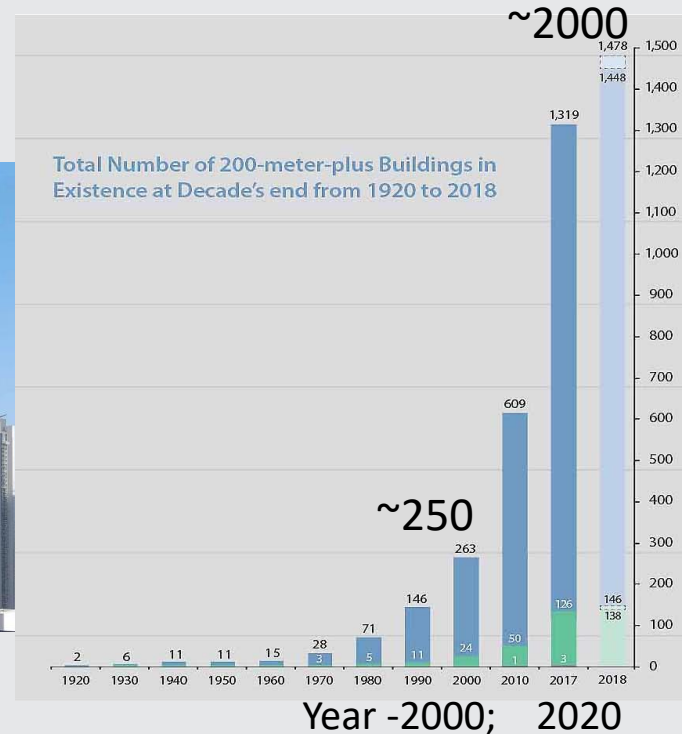
Office of the Vice President and Dean
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Center for Energy & Sustainability
Ben-Gurion University of the Negev

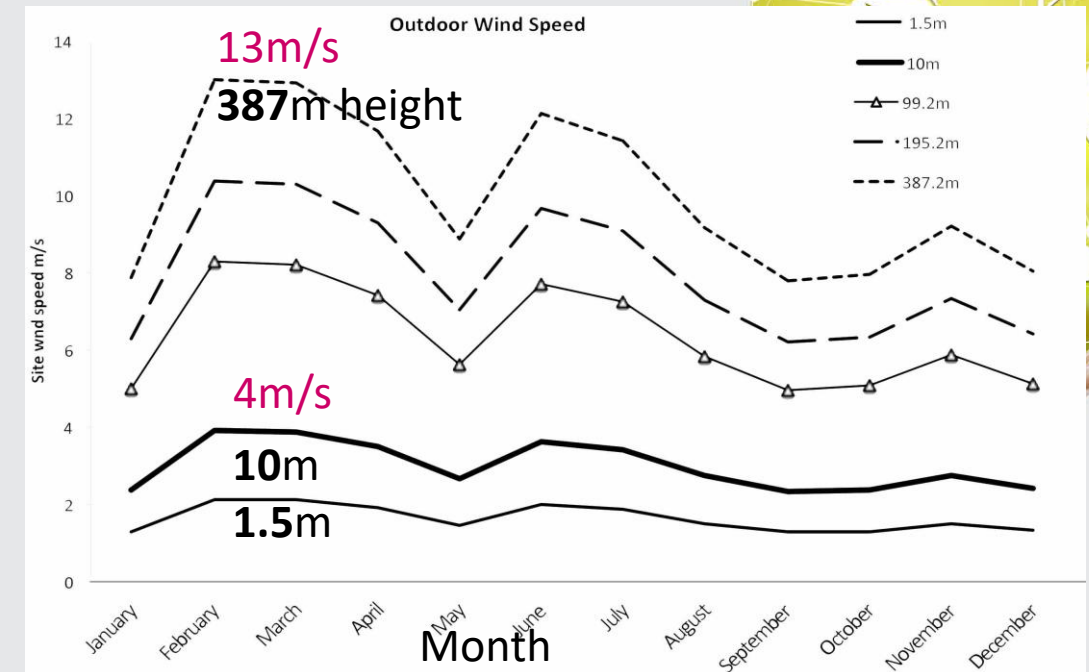


Introduction



In high-rise buildings the microclimate changes with height above ground. This affects **their energy performance**.

Wind speed with height

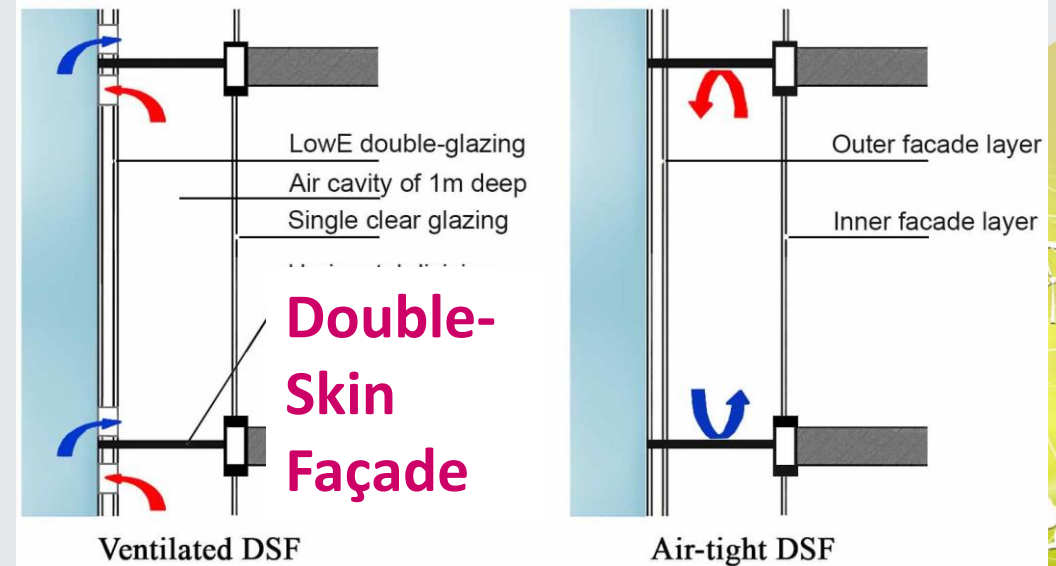


How to achieve **Energy Efficiency** through the thermal properties of the building envelope?

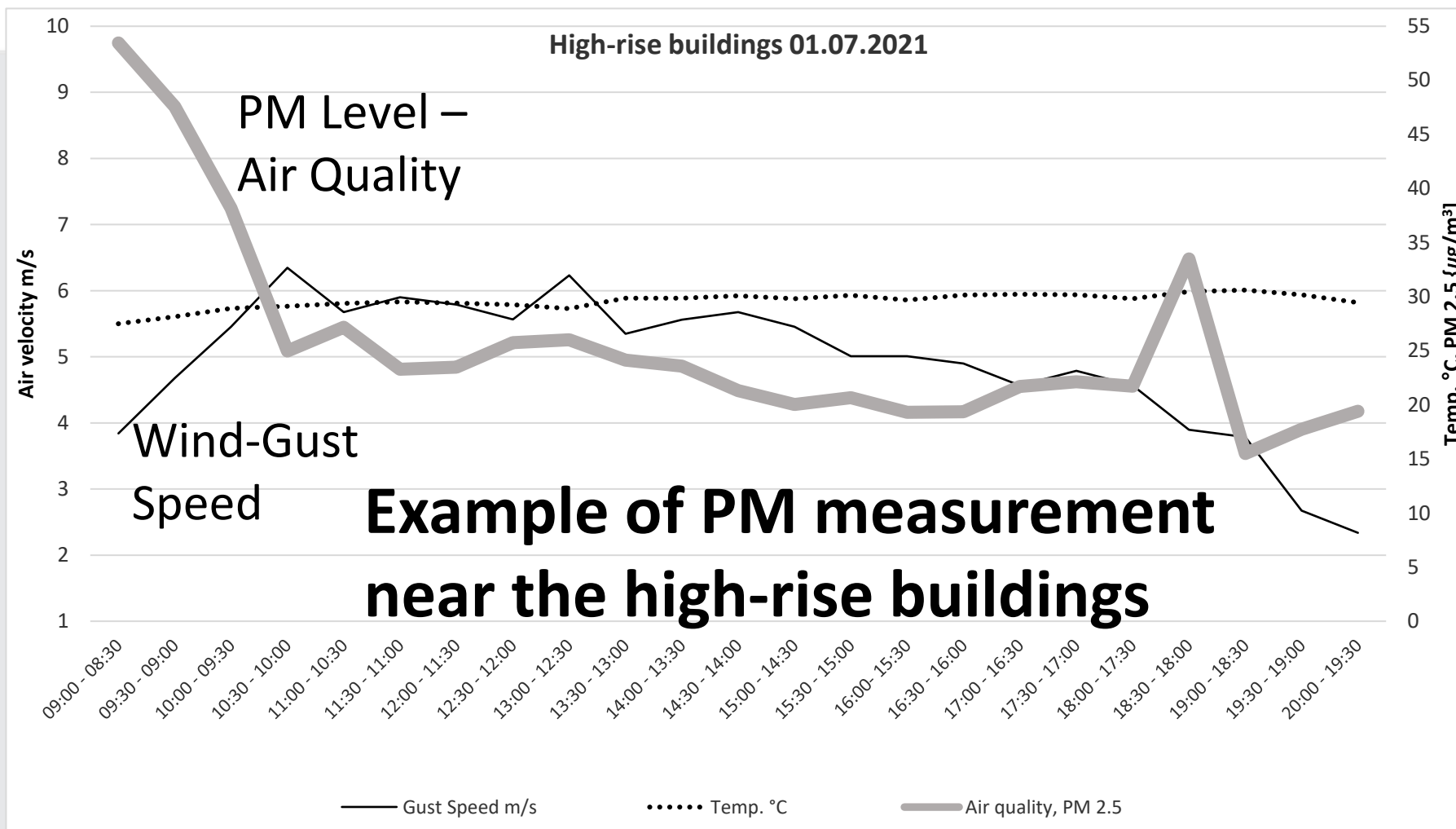
“Dynamic Building Envelope”:
flow in-out; interaction between exterior environmental conditions, and interior thermal comfort

In addition we analyze:

- **Microclimate issues** at pedestrian level and pedestrian thermal comfort
- **Pollutant dispersal / concentration mapping** within the urban environment



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Thank You

