Buildings and settlements are nowadays increasingly expected to meet higher and potentially more complex levels of performance. They should be sustainable, use zero-net energy, be healthy and comfortable, grid-friendly, yet economical to build and maintain. Buildings are central to energy efficiency policy. Improving the energy performance of the building stock is crucial, not only to achieve targets such as those of EU's 2020 ones, but also to meet the longer term objectives of the climate strategy as laid down in the low carbon economy roadmap 2050.

The aim of the ZERO-PLUS research project is to search for buildings design for new highly energy performing buildings (H2020-EE-2015-1-PPP). Towards this goal, a comprehensive, cost-effective modular system for Net Zero Energy (NZE) settlements is currently being developed and implemented in a series of case studies across the EU.

In ZERO-PLUS, the challenge of significantly reducing the costs of NZE settlements is achieved through the implementation of three parallel strategies:

- Increasing the efficiency of the components directly providing the energy conservation and energy generation in the NZE settlement.
- Reducing the "balance of system" costs through efficient production and installation processes.
- Reducing operational costs through better management of the loads and resources on a district scale rather than on the scale of a single building.

This two-day event will bring together in Israel some of the ZeroPlus EU central partners, as well as experts from other countries, in order to discuss lessons and insights gained so far, and the ramifications of this and similar projects around the world.

**Tentative Program (Sept.2019)**

<table>
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<tr>
<th>Time</th>
<th>Session/Event</th>
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<tr>
<td>09:00-09:30</td>
<td>Welcome and opening remarks</td>
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<tr>
<td><strong>09:30-11:30</strong></td>
<td><strong>Session 1: ZeroPlus Energy Settlements</strong></td>
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<tr>
<td>09:30-10:00</td>
<td>Margarita-Niki Asimakopoulos, NKUA, Greece: Zero+: Transition from nZE Buildings to nZE Settlements using advanced energy technology</td>
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<td>10:00-10:30</td>
<td>Shabtai Isaac, BGU, Israel: Construction management, cost management and implementation of the innovative technologies</td>
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<td>10:30-11:00</td>
<td>Denia Kolokotsa, TUC, Greece: Design and implementation of a Web-GIS monitoring platform for zero energy settlements and districts</td>
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<td>11:00-11:30</td>
<td>Rajat Gupta, OBU, UK: Simulations and calibrations</td>
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<td>11:30-12:00</td>
<td>Coffee break</td>
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<td><strong>12:00-12:45</strong></td>
<td><strong>Session 2: Cook Prize Award Ceremony</strong>. Lecture by Prize recipient Arch. Arie Rahamimoff</td>
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<tr>
<td>12:45-14:30</td>
<td>Lunch break</td>
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14:30-16:30  Session 3: ZeroPlus Case Studies
14:30-15:00  Gloria Pignata, CONTEDIL, Italy & UNSW, Australia: ZP Italian case study - Granarolo dell’Emilia
15:00-15:30  Rajat Gupta, OBU, UK: ZP UK case study - Derwenthorpe, York
15:30-16:00  Marina Kyprianou Drakou, CYI, Cyprus: Study of a Zero Energy Settlement in Cyprus - Original and Contingency plans
16:00-16:30  Elise Machine, Luxembourg Institute of Socio-economic Research, Luxemburg: Social mix policies in the French Eco-districts: Discourses, policies and social effects

Day 2 – Nov. 26, 2019
09:00-11:00  Session 4: ZeroEnergy – The Broder Picture
09:00-09:30  David Pearmutter & Erez Gal, BGU, Israel: Near Zero Energy Settlements in Europe: An overview
09:30-10:00  Polina Gluzman, IDF, Israel: Zero Energy training bases
10:00-10:30  Peter op’ Veld, Huygen Engineers and Consultants, the Netherlands: DRIVE 0: How can circular renovations drive the decarbonization of the building stock?
10:30-11:00  Ana Tisov, MOBISTYLE Coordinator, Huygen Engineers and Consultants, the Netherlands: MOBISTYLE: Instead of the buildings, let’s shape the Citizens of Tomorrow!
11:00-11:30  Coffee break
11:30-13:00  Session 5: Assessment Tools and Implementation
11:30-12:00  Fabio Montagnino, ARCA, Italy: Innovative technologies towards Zero Energy settlements: the Zero Plus experience
12:00-12:30  Andreas Athienitis, Concordia U, Canada: Modelling, design and operation of Net-zero Energy Buildings and lessons learned
12:30-13:00  Theodoros Theodosiou, AUTH, Greece: Near Zero Energy Buildings: Myths, reality and prospects
13:00-14:00  Lunch break
14:00-15:30  Session 6: Optimization, Monitoring, POE
14:00-14:30  Slava Shubin, Shabtai Isaac, Gad Rabinowitz, BGU, Israel: Cost management and optimization - The ZeroPlus case
14:30-15:00  Margarita-Niki Asimakopoulos, NKUA, Greece: Increasing the quality and the value of existing buildings. Architectural, seismic and energy integrated solutions
15:00-15:30  Keren Schvetz, ILGBC, Israel: Neighborhood 360° - An assessment tools for green neighborhoods

15:30-17:00  Round Table Discussion
With Representatives of the Planning Authorities, NGOs, Industry
17:00-17:30  Closing remarks

With kind regards,

Prof. Isaac A. Meir and Dr. Shabtai Isaac

Kindly note that attendance is free, but reservations need to be made in advance due to room restrictions. RSVP by email to struct.eng@bgu.ac.il

This event is organized under the auspices of the Jeffrey Cook Charitable Trust, in collaboration with the ZeroPlus Consortium, the Israel Green Building Council – ILGBC, BGU Green Campus, and BGU VP for R&D.