

Carbon Neutral Lahti Science Park -Idea competition 2022

Competition program
13 January 2022



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IDEA COMPETITION



CARBON NEUTRAL
SCIENCE PARK



2022



1. Competition background

1. Competition background

Background information



- The competition is organized by **Lahti Science Park** in cooperation with the **Lahti Venture Program** and the Carbon Neutral Construction Development Center.
- The Lahti Science Park real estate company, operating under the City of Lahti, manages, rents and develops the science park property. Lahti Science Park is a unique center of research, education and business, supporting the growth of innovative technology companies. Around 50 different organizations operate in the Science Park.
- The Lahti Venture Program is an annual two-month study program coordinated by the Lahti University Campus, in which multidisciplinary groups of students solve the business challenges posed by companies in the Lahti region.



1. Competition background

Why a competition? 1/2

- The Lahti Science Park company is participating the Lahti European Green capital 2021 year by funding the project during 2020 and 2021.
- When considering the fund allocation in 2021, a thought was provoked to arrange a challenge competition for students to promote (*to advance, enhance, develop*) the carbon neutrality of the Niemenkatu property.



1. Competition background

Why a competition? 2/2

- The competition goal is to **find alternatives to promote the low-carbon/carbon neutrality** of Lahti Science Park's Niemenkatu property and functions.
- In addition, a broader goal is set to activate discussion around the subject of carbon neutrality by participating students, but also professionals and companies to eventually innovate and develop ways towards carbon neutrality, which would:
 - Benefit the whole industry
 - Increase the general awareness of the subject
 - Support the Lahti region's opportunities of success



2. The Challenge



2. The Challenge

The task

- **The competition task is to design and present a concept or a solution which will promote the carbon neutrality of Lahti Science Park's Niemenkatu property and its functions.**
- The competition entries may be immediately feasible for utilization or innovative ideas that could be used to create something new later.
- The promotion of low-carbon/carbon neutrality can be targeted at for example:
 - Energy production or saving
 - In-service operation, such as waste management
 - Additional insulation
 - To change people's actions
 - Brand-new innovative approach

2. The Challenge Competition area

IDEA COMPETITION



CARBON NEUTRAL
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2022

- The area for the competition includes the buildings and outdoor areas of the Lahti Science Park Niemenkatu 73 property. However, the organizers encourage outside-the-box thinking to solving the task.
 - The property comprises of four building sections, completed in different time periods.
 - The buildings are being used by universities, laboratories, schools and companies
 - The lot has unbuilt permitted building volume
 - The adjacent lot in Laatikkotehtaankatu 3 is also included.
- Guided tours or video tours will be arranged in the premises in the beginning of the competition depending on the covid-situation.
- Property related information is included in the background information package.

2. The Challenge

Requirements for entries

- The competition entry is otherwise a free-form document, but each proposal must meet the following required content:
 - **Starting points** (i.e. identified need, problem or opportunity)
 - **Process description** (teamwork process)
 - **The concept or solution** (the competition proposal/entry)
 - **Impact assessment** (what are the benefits of the concept or solution)
- Competition entries will be submitted in pdf format **no later than March 16th** to the competition secretary for evaluation. The pdf submitted to the jury may be more extensive than the seminar presentation.
- The seminar presentation is free-form and each team is given 15 minutes to present.

Submitting competition entries:

Competition secretary, Matias Halmeenmäki, Sitowise
matias.halmeenmaki@sitowise.com



2. The Challenge

Evaluation criteria and prizes

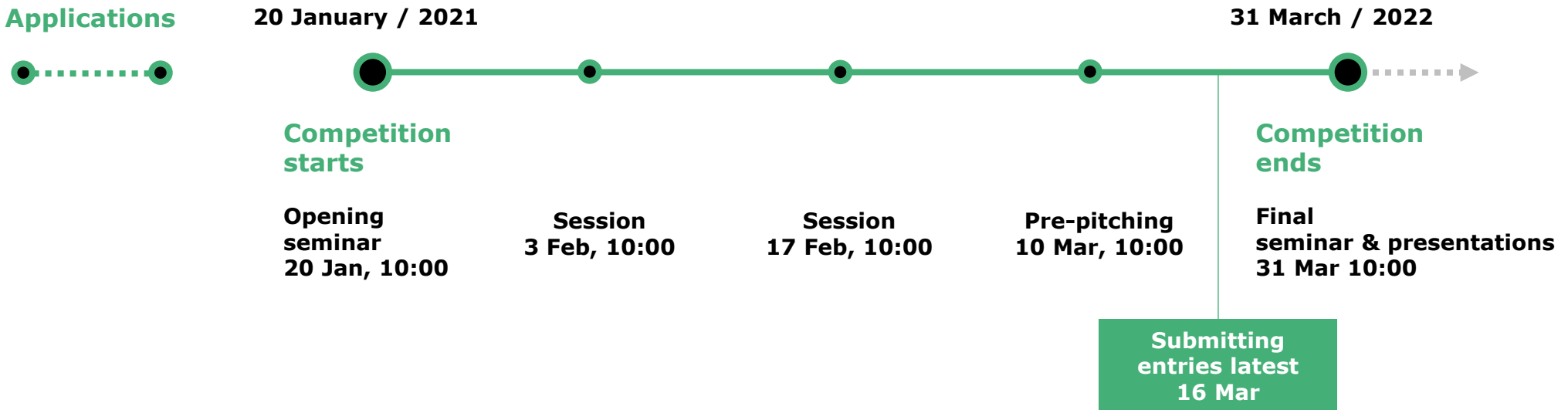
- Due to the nature of the competition, the content of the proposals may differ in both approach and content. The proposal can be an innovative concept with potential for development or an already feasible and concrete solution. Each proposal will be evaluated on a proposal-by-proposal basis.
- A work group consisting of specialists in the subject will evaluate the entries and prepare them for the jury's decision making.
- When evaluating entries, the jury pays special attention to the following criteria:
 1. Impact of the proposal on the carbon neutrality of the Niemenkatu property.
 2. Feasibility of the proposal in the Niemenkatu property.
 3. The proposal's scalability and generalizable impact to carbon neutrality
 4. A new and open-minded way to solve carbon neutrality.
- A maximum of € 10,000 will be dealt in prizes
 - 4-8 proposals will be awarded
 - A single group may only be awarded once
 - In addition, the jury may decide on a case-by-case basis to award honorable mentions.
 - The jury and the organizers reserve the right to make changes to awards and the jury may also decide not to distribute awards under some evaluating criteria.

2. The Challenge Schedule

Full schedule with detailed program:

[Schedule – Lahti Venture Program \(lahtiventureprogram2022.com\)](https://lahtiventureprogram2022.com)

Applications





3. Practical information

3. Practical information

Competition organization & questions

All questions regarding the competition are to be sent to Kaisa Vuorivirta.
Answers will be posted on the competition website's Q&A-section

Questions about the competition:

Kaisa Vuorivirta, Lahti University Campus
kaisa.vuorivirta@lahdenyliopistokampus.fi

Submitting competition entries:

Competition secretary, Matias Halmeenmäki, Sitowise
matias.halmeenmaki@sitowise.com

Visiting the premises:

Jesse Reponen, Lahti Science Park
jesse.reponen@lahdentiedepuisto.fi

Competition website & links to material bank

<https://lahtiventureprogram2022.com/>

3. Practical information

Jury & work group

The Jury

Pekka Timonen, The Mayor of Lahti
(head of the jury)

Riina Salmimies, LUT
(deputy head of the jury)

Minna-Maija Salomaa, UH

Matti Kuittinen, Ministry of the
Environment

Jyri Kelin, Lem-Kem

Competition secretary

Matias Halmeenmäki, Sitowise

Work group

Juhani Pirinen, The City of Lahti

Jesse Reponen, Lahti Science Park

Eero Puurunen, Sitowise

Raine Vihelmaa, LAB

Antti Kosonen, LUT

Mentors

Sakari Autio, LAB

Katja Rodionova, Sitowise

Nicholas Stewart, Sitowise

3. Practical information

Mentoring

- Mentoring clinics will be arranged during the competition. The clinics are open events where student teams can meet with the mentors to spar ideas and ask for advice.
 - Three clinics are held jointly with seminars
 - Session 1: 3 February, 14-16
 - Session 2: 17 February, 14-16
 - Session 3: 10 March, 13-15
 - Students may also participate in-between-sessions shorter mentoring slots
 - More information on the competition website

3. Practical information

Competition languages

- The competition language is English



3. Practical information

Copyright and publicity

- Copyright belongs to the student team.
- The Science Park will have the right to use the proposal and implement measures in the buildings and area of the Niemenkatu property.
- Competition proposals are in principle public. If the team wishes to restrict the content of the proposal to be published, the team must separately request a publication ban from the competition secretary.
- The content presented in the final seminar must not be secret. The seminar will be an open event both face to face and online depending on the covid-situation, but the organizer of the competition will not make an online recording.
- The competition organizer will release the results of the competition in its own social media channels etc.



4. Materials



4. Materials

Background material

- Building information, walkthrough-video and material for the competition concerning the property and carbon neutrality and recorder lectures are uploaded to the competition website:

<https://lahtiventureprogram2022.com/competition-and-materials/>

- Building and premises related source material package:

<https://bem.buildercom.net/html/projectdocumentdistribution/Load?distKey=29ccb93b-dc61-40dc-8a17-0eb2ab6ecd51>

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