

### The Network of the International Society for Low Exergy Systems in Buildings



The LowExNet promotes the rational use of energy by facilitating and accelerating the use of low valued environmentally-sustainable energy sources by:

- investigating potential ways of replacing high valued energy, like fossil fuels and electricity, with low valued energy sources, and assessing the impact on global resources and the environment.
- assessing existing components and forms of technology for low exergy systems in buildings to enhance the development of new technology, and providing the necessary tools for the analysis and evaluation of such systems.
- developing strategic means for the introduction of low exergy solutions in buildings via the implementation of case studies, design tools and guidelines.

### Our mission

The overall objective of the LowExNet's work is to promote a more rational and effective use of energy; namely, the utilisation of low valued and renewable energy sources.

Our work, which is based on the use of the central concept of exergy, is not only focused on the best possible and economical use of energy, but also on the application of the exergy concept in solving various issues in the process of developing a better environment for the well-being of humans.

These goals are to be reached by providing knowledge on and tools for exergy analyses, which will be applied in the built environment.



### How to contact us

- Use the contact form on our home page: [www.lowex.net](http://www.lowex.net)
- Send us an email at: [info@lowex.net](mailto:info@lowex.net)
- Or, contact a LowExNet member in your country. Coordinates can be found on our home page.



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the International Society  
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**A short overview**

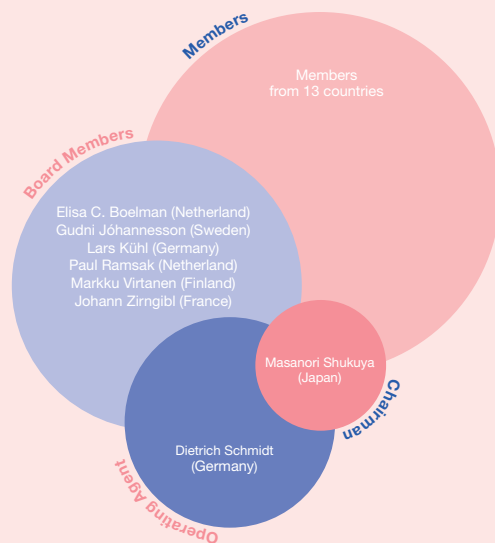


The LowExNet was founded in September 2003 as a result of the work accomplished by the expert group of the International Energy Agency of Annex 37 "Low Exergy Systems for Heating and Cooling of Buildings" in the Energy Conservation of Buildings and Community Systems programme. The decision was made to form a research network in order to continue seeking various low exergy system solutions.

The network is a platform for collaborative activity aimed at our mission of finding low-exergy solutions for the built environment. Anyone interested in this network is invited to be its associated member and thereby follow and participate in all the activities of the LowExNet.

### Organisation

The network is set up as a board with six members. Activities are coordinated by the operating agent and supervised by the chairman.



To reach the stated objectives, the LowExNet is organising a number of activities, such as workshops, seminars and presentations, in combination with other international events, such as conferences in the field of energy use in buildings and sustainable buildings.

### Workshops

Workshops have been organised in different countries and in association with well-known international conferences, such as the

„Passive and Low Energy Architecture“, the „Sustainable Building Conference“ or the „Nordic Symposium of Building Physics“.

These events, which support an exchange amongst people from the building profession, will describe new ways of setting up energy systems in sustainable buildings and include the discussion of exergy as a measure for sustainability in the built environment. Also, an International Energy Agency activity, a *Future Building Forum*, about Low Energy, Low Exergy, Low Environmental Impact Building Systems has been initiated.

### Forum for young researchers

All LowExNet members are involved in the education and research activities of students and PhD students in the fields of focus. Our members encourage young researchers to participate in exchange activities and research projects or develop their theses on low exergy.

### Joint research projects

The LowExNet is working towards the generation of joint international, European, and national research projects.

### Home page

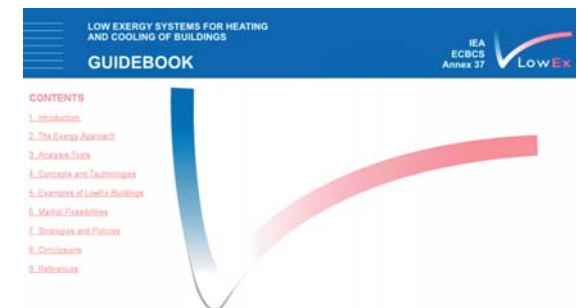
All information is available and distributed via our home page. All programmes/agendas of upcoming and past activities are provided, and there is a list of the members. Our members come from different countries and have diverse professional backgrounds. Useful links can also be found there: [www.lowex.net](http://www.lowex.net)



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### Material

All published material can be downloaded via the home page. This includes all material published by the IEA Annex 37 working group, the LowEx News and brochures. The LowEx Guidebook, the final report of the Annex 37, is also available as a file to be downloaded or in interactive form.



More information: [www.lowex.net](http://www.lowex.net)