

# Energy. Future. Responsibility.

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## **Continuous Commissioning - a New Tool-set for Buildings to Combat Climate Change**

- Mr. Jorma Pietiläinen, Senior Research Scientist

VTT

(Session 2B, 15:30-15:50)

### Jorma Pietiläinen, Senior Research Scientist

Jorma Pietiläinen has been working over 20 last years at VTT as a Senior Research Scientist including a period of two years as a Visiting Scientist in EU's Joint Research Center in Ispra, Italy. In those positions he has been leading numerous domestic and international R&D projects in the field of building commissioning, energy efficiency of buildings, monitoring and targeting systems, utilisation of GIS, urban planning etc. He has worked also almost 15 years as part time teacher in Helsinki University of Technology.



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### Continuous Commissioning - a New Tool-set for Buildings to Combat Climate Change

In years 2003-2005 a Building Commissioning-project (Cx) was carried out at VTT in collaboration with Finnish companies and public building owners. In the project a comprehensive commissioning procedure for the whole building life cycle was developed, terminology in Finnish was launched and the guide book was published (look at [www.tova.fi](http://www.tova.fi)).

Similar to commissioning procedures used e.g. in the USA, the Finnish procedure underlines the precise documentation of client's requirements, clear definition of design goals, proper implementation, skillful and trained M&O and the continuous verification of the performance so that the building when completed performs economically according to the owner's and user's needs with minimum environmental load. The procedure and methods have been tested in pilot buildings and will be utilised and developed further in real projects of the partners. The project took part in the IEA's (International Energy Agency) commissioning projects Annex 40 and 47 and received funding besides partners from the national Building Services Technology Program (CUBE) of TEKES (Finnish Funding Agency for Technology and Innovation).

Some results of the project especially from the point of view of energy efficiency will be highlighted in the presentation.