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Current position

Christian Bauer has been working since 2004 at the Paul Scherrer Institut (PSI) as a scientist in the Technology Assessment group, also called the group for the Comprehensive Assessment of Energy Systems (TA/GaBE). The TA group is part of the Laboratory for Energy Systems Analysis (LEA) which has been established in the beginning of 2006 (formerly Systems Analysis Section). His current activities within the group focus on Life Cycle Assessment (LCA) of current and future energy systems and on sustainability assessment of energy systems in general.

He has been the editor of the “Energiespiegel” (“Mirror on Energy”) since 2007, which is the PSI newsletter reporting on energy systems and energy policy issues.

Education and former activities

C. Bauer received his master degree in Environmental Sciences (Umweltsystemwissenschaften) at the University of Graz, Austria, in 2002.

He began working on LCA while doing his diploma thesis on wood energy systems, performed within the GaBE project at PSI.

Selected Publications

Bauer C., Dones R., Heck T., Hirschberg S. (2007) Comparative environmental assessment of current and future electricity supply technologies for Switzerland. Proceedings of the 3rd International Conference on Life Cycle Management – From analysis to implementation, August 27-29, 2007, Zurich, Switzerland, <http://www.lcm2007.org/paper/450.pdf>

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Dones R., Bauer C., Heck T. (2007) LCA of current coal, gas and nuclear electricity systems and electricity mix in the USA. Proceedings of the 14th SETAC Europe LCA Case Studies Symposium, p. 51-54, December 3-4, 2007, Gothenburg, Sweden, <http://gabe.web.psi.ch/research/lca/index.html#pub>

Dones R., Bauer C., Heck T., Mayer-Spohn O., Blesl M. (2007) Life Cycle Assessment of Future Fossil Technologies with and without Carbon Capture and Storage. Invited paper. Proceedings of 2007 Fall Meeting, Boston, November 26-30, 2007, Mater. Res. Soc. Symp. Proc. Vol. 1041, 12 pg, http://www.mrs.org/s_mrs/sec_subscribe.asp?CID=11339&DID=205430&action=detail

Hirschberg S., Bauer C., Burgherr P., Dones R., Schenler W., Bachmann T., Gallego Carrera D. (2007) Environmental, economic and social criteria and indicators for sustainability assessment of energy technologies. NEEDS Deliverable n° D3.1 – RS 2b.

Spielmann M., Bauer C., Dones R., Tuchschnid M. (2007) Transport Services. Ecoinvent report No. 14, v2.0, December 2007. Paul Scherrer Institut, Villigen, Swiss Centre for Life Cycle Inventories, Dübendorf, Switzerland.

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Dones R., Bauer C., Heck T., Hirschberg S. (2004) Ordnung im Ökoinventar-Dschungel. Energie-Spiegel Nr. 11, June 2004, http://gabe.web.psi.ch/pdfs/Energiespiegel_Nr.11_Juni_2004.pdf