



HORTEX - Energy Simulation Software for Greenhouses

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Contents and Objectives:

The software system HORTEX is widely used in horticulture to plan, design and calculate horticultural greenhouses. Due to the fact that greenhouses need a lot of heating energy, the public focus is laid on new systems which save energy and fossile ressources. The HORTEX system is able to consider this, but at the moment it is not useable on new computer operating systems, websystems and new databasestructures. Also the databases and models which are included are old and not usefull today. Therefore the following points should be included into the new HORTEX-System (objectiv of the project): Usability in new operating systems, new databases, a new calculation models (U-model), web-based userinterface, detailed energy calculation. The project is realised together with industrial partners.

Partners:

Verlag Eugen Ulmer, Stuttgart, Germany
ELAU Elektro- und Automatisierungsanlagen, Gatersleben, Germany

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Landwirtschaftliche Rentenbank, Frankfurt, Germany

Publications:

LANGNER F., RATH T. (2014): Entwicklung eines differenzierten Widerstandsmodells zur Erstellung vergleichbarer Energiebedarfsberechnung von Gewächshäusern. 49. Gartenbauwissenschaftliche Jahrestagung, BHGL und DGG, Dresden, 5. - 8. März 2014, Tagungsband S. 27. http://www.dgg-online.org/tagung_dresden_2014/infos/Abstractband_Inhalt_2014.pdf

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