The efficient and intelligent use of energy resources is of key importance to our future in transport, industrial, and building services. As a result, the sparing use and the exploitation of as-yet-unused energy resources are attaining ever greater importance. In order to draw on existing potential and also generate new ideas, all the relevant energy and heat flows will need to be considered. This means that energy and thermal management, air-conditioning, and waste heat utilization are today analyzed across the board in the search for solutions.

However, the development of cross-sectoral solutions and ideas is not affected only by physics but also lasting influenced by underlying frameworks. Due to the demands of society and policymakers, the requirements concerning the efficient utilization of energy are subject to constant change. In addition, the wealth of technically feasible solutions is generating increasing complexity within the development process. Thus, interdisciplinary and cross-sectoral solutions are challenged by new constraints which are impacting future concepts and components.

But how do sustainable solutions and innovations in energy and thermal management, air-conditioning, and waste heat utilization need to be structured for this changing environment of the future?

ETA 2018 offers answers to this question and shares the latest research results, innovative technologies, and best practices. Be inspired by approaches, technical solutions, and possibilities for an energy-efficient future!

Christine Junior
Oliver Dingel

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