



Introduction to an Energy Systems Methodology for decoupling Productivity and Energy use in Industrial Energy Systems



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Abstract

Within the broadest scope of knowledge, technical arena, policy mechanisms and clean energy market transitions seeking to achieve new energy models, the development and deployment of energy efficiency methodologies are expected to deliver in the overall vision of decoupling economic growth (productivity) and energy use.

Whereas digitization processes in the industrial energy systems offer an easier scenario for an operating systems methodology, there is yet the risk of setting up a narrow scenario for analysis based on, or tracing the main equipment or utilities, thus shortcutting the potential of energy efficiency analysis, further business processes management and results performance.

In my evolving job dealing with alternatives, solutions and methodologies in the field of energy efficiency methodologies I am currently exploring the potential of a systems management model as operating entity in the physical environment that enables and more precisely connects energy processes and energy efficiency management systems, thus enlarging the capacities and potential that ESCO and EPC's models can deliver as a result of their deeper implementation; as well as the a broader range of suitable cases in which those models sustainably operate under any given policy and regulatory framework.

Bibliographic References

Various Authors, 2011. "Urban districts Energy Planning" ("Energetische Quartiersplanung") Fraunhofer IRB Verlag ; Satzkasten (Stuttgart)

Maturana & Varela, 1972. "Autopoiesis and Cognition" – Kluwer, The Netherlands

Patrik Thollander, Jenny Palm, Springer "Improving Energy Efficiency in Industrial Energy Systems"

John McWhirter, 2011. Handbook "Art and Science of Effective Learning and Teaching"– SCT Systemic

Project Management Institute, 2013 "A Guide to the Project Management Body of Knowledge", Project Management Institute

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