

Plenary Keynote: Claudia Kemfert

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Corona crisis: Chance for decentralized energy system transformation with full supply from renewable energies

What the current corona crisis makes evident once again is that in times of crisis, systemic relevance and resilience are very important. Energy system transformation is the solution to both challenges: a successful energy system transformation that guarantees a full supply of domestic renewable energies is systemically relevant and creates enormous economic resilience; it makes us independent of external negative shocks. What's more, it strengthens regional value creation, promotes innovation and enhances the competitiveness of the entire economy. A full supply of renewable energies is technically feasible and economically profitable. The New Start of the Corona Crisis can be a chance to solve all crisis. Climate protection is the way out of the crisis. Climate protection is the engine of the economy and creates jobs, whether in the field of low-emission energy technologies, as demonstrated by the renewable energy sector, but also sustainable mobility, climate protection technologies, energy or financial services.

Readings:

Oei et al. (2020) Lessons from Modeling 100% Renewable Scenarios Using GENeSYS-MOD *Economics of Energy & Environmental Policy*, Vol. 9, No. 1. lesen

M. Child, C. Kemfert, D. Bogdanov, Breyer, C.: Flexible electricity generation, grid exchange and storage for the transition to a 100% renewable energy system in Europe, in : *Renewable Energy* 139 (2019), 80-101

Löffler, K., Hainsch, K., Burandt, T., Oei, P.-Y., Kemfert, C., von Hirschhausen, C. (2017). Designing a Model for the Global Energy System – GENeSYS-MOD: An Application of the Open-Source Energy Modeling System (OSeMOSYS) In: *Energies* 10 (2017), 10, S. 1-28.