

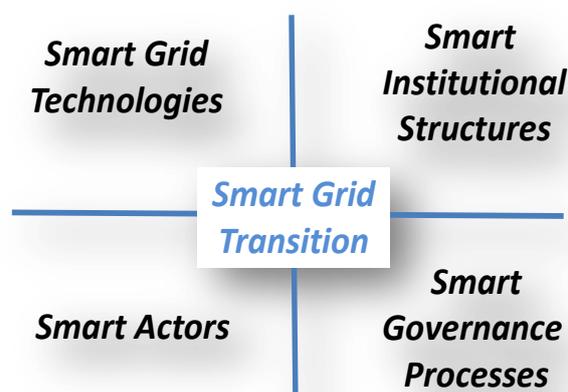
ISGAN TCP Annex7

Smart Grid Transitions – On Institutional Change

Objectives

Smart grids will not be able to further the low-carbon transition when technologies are not sufficiently embedded in an adequate socio-technical system. Issues to be tackled include adequate regulatory and institutional regime changes, market mechanisms, understanding of social practice of energy use, as well as research, technology and innovation policy.

Annex 7 investigates institutional structures, governance processes and socio-technical issues associated with smart grid deployment. It also aims at sparking off an international, coordinated trans-disciplinary research activity in the social sciences supporting and complementing technology-oriented smart grid activities. Through this Annex, we collect information and knowledge from innovation studies, political sciences, institutional economics, sociology and energy law, and make it palpable for policymakers and other stakeholders through policy briefs.



Ongoing Activities:

Regulatory Innovation Zones – New forms of Experimenting

Smart grid deployment requires experimenting within adequate socio-technical systems. How this socio-technical sandboxes, or regulatory innovation zones (RIZ) will become reality? Some first attempts have been made, e.g. regulatory sandboxes in UK or the demonstration law for the German SINTEG innovation program, and Annex 7 will evaluate ongoing projects and programs in cooperation with trans-national research activities.

Such regulatory innovation zones can be framed as an orchestrated set/mix of complementary policy actions combining R&I instruments and instruments of energy policy, regional policy etc. on the one side and concrete economic activities including (public and private) investment and innovation (infrastructures, products and services) on the other side.

RIZ would provide an arena for innovation based on intentional interventions in regulatory frameworks (e.g. energy law, tariffs, building regulations, zoning rules etc.) and/or other framework conditions (e.g. creating an atmosphere of active participation).

