The challenges to foster clean energy transition, resilience and energy security in Europe

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**Twin Energy and Digital Transition**

**European Green Deal**

A better-functioning, smart, integrated and interconnected energy system, where new business models can easily emerge in a fast-changing market.

**Europe fit for the Digital Age**

**July 2020 : Energy System Integration Strategy**

Key actions to drive the energy transition, including:

“a system-wide Digitalisation of Energy Action Plan that could accelerate the implementation of digital solutions and the integration of energy systems”.

**July 2021 : Fit for 55 package**

To reduce emissions by at least 55% by 2030.

This will cover several policy areas – from renewables to energy efficiency first, energy performance of buildings, as well as land use, energy taxation, effort sharing and emissions trading.

**May 2022 : Re-POWER**

To rapidly reduce dependence on Russian fossil fuels and fast forward the green transition.

It covers diversifying energy supply, investing in new sources like biomethan and hydrogen, reinforcing Fit for 55 targets and accelerating the roll-out of Renewables.
DoEAP | The 5 Areas

- Enhancing a data exchange framework
- Cybersecurity
- Benefits for consumers: literacy, skills, digital tools to empower citizens
- Climate Neutrality of the ICT sector
- Promoting investments

See DoEAP Workshops Conclusions
The SGTF expert advice – instrumental over the years for the preparation of a number of key policy initiatives and activities

M490; smart metering minimum functionalities; Clean Energy Package provisions; inspiring the implementing acts on metering and consumption data

Assisted with the reflections on the industrial policy strategy

prepared the ground, including the proposal templates and evaluation framework, for the 1st calls of smart grids PCIs (Projects of Common Interest); this methodology is still being used (only with minor changes).

Closed

Cybersecurity in energy
EC Recommendation; Data Protection Impact Assessment Template; foundation work for the network code on cybersecurity.

inspiring retail market provisions under the Clean Energy Package; foundation work for the development of network code for demand side flexibility.

standards and interoperability (EG1);

privacy, data protection and cybersecurity (EG2);

regulatory/ market design issues (EG3);

infrastructure (EG4);

industrial policy (EG5);

SGTF Steering Committee
Towards interoperable data spaces

Leveraging the **momentum**
- BRIDGE Data WG
- GAIA-X - energy data space
- Converging guidelines: **Open DEI**
  design principles for data spaces

Visionary **use-case for sector coupling**

**Efficient integration of renewable energies**

Optimisation of renewable energy production and usage

Digital enablers:
- Interoperable sectoral data spaces
- Cloud-edge infrastructure
- Smart IoT
- Swarm computing
- AI tools

Bi-directional **EV charging** and battery storage to mitigate peak load

Smart homes and **buildings**
Thank you