**NEW ENERGY LANDSCAPES**

- Growing share of intermittent renewable energy, acceleration in future
- Increasing challenges of temporal and spatial grid balancing
- P2X technologies represent future potential solutions for this balancing challenge and for supply of clean fuels

**OBJECTIVES**

- Collect the major existing P2X knowledge
- Provide a synthesis and evaluation for the Swiss energy market
- Derive a technical, economic and environmental assessment of P2X in the energy system, with a focus on interdependencies on the gas market, the mobility sector and the electricity market

**P2X COST EVALUATION**

**KEY RECOMMENDATIONS**

- Ambitious goals for domestic reduction of CO₂ emissions are required
- Ambiguities in the regulation framework should be eliminated acknowledging the benefits of P2X
- Upscaling of pilot P2X plants should be supported in order to reach commercial unit sizes
- Innovation policy should strengthen the domestic market for P2X products and support learning-by using P2X technologies in comprehensive project setups covering complete P2X value chains
- Clear rules for accounting for potential environmental benefits of P2X
- The role of P2X and the optimal use of P2X to achieve long-term energy and climate goals should be deepened in holistic studies, with particular attention to system integration and local aspects.

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**Research supported by:**
- Innosuisse
- Swiss Federal Office of Energy

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**Bundesamt für Energie BE**
Edipress Medienverlagsgesellschaft mbH
Innovations - Schweizerische Agentur für Innovation und Förderung