

B 2 Innovations for the energy transition

Sector coupling will play a pivotal role in the energy transition. It is based on direct and indirect electrification. In the case of direct electrification, fossil energy sources are directly replaced by electricity – such as using electric cars rather than vehicles with a combustion engine. Indirect electrification involves converting electricity into other energy sources. Electrolysis, for example, is a process by which electricity can be used to produce hydrogen or methane (power-to-gas), which can then be used as a fuel to power vehicles.

- Sector coupling
- Direct electricity supply
- Power-to-gas
- Power-to-liquids
- Power-to-heat

