

Energy

- **Main drivers/key objectives and target actions: *ensuring energy security, increasing the resilience of the energy system, and facilitating energy transition by clean and renewable energy production, adoption of new energy-efficient technologies, sustainable alternative (bio)fuels production and use, development of a charging and refuelling interconnected network/infrastructure etc.***
 - Reduction of greenhouse gas emissions
 - Reduction of operational and embedded carbon (ex. decarbonisation of architecture) / Decarbonization of economy
 - Decarbonization of gases
 - Protect the ecosystem and support preserving bio-diversity/positive effects for biodiversity
 - Reduce energy costs
 - Reduce the overall consumption of energy (green mobility, home insulation)
 - Alleviate energy poverty
 - Increase quality of life
- **Increase efficiency of existing wind turbines by proposing new, more efficient design solutions**
 - More green energy
 - Less impact on the ecosystem
- **Develop integrated energy production systems capable of handling natural fluctuations in renewable energy production**
 - Convert electrical power to (power-to-X) and from (X-to-power) storable
- **Promote small scale, modular electricity production systems suited for real Danube Delta conditions**
 - Suitable for small, isolated communities or individual households
 - Less intrusive into the protected Danube Delta ecosystem
 - Mobile, but capable to be easily integrated into larger scale units
- **Increasing the production and consumption of energy from renewable sources, Diversification of renewable energy production sources, Ensuring the sustainability of bioenergy**
 - Wind (most common in the present)
 - Solar, Biomass, Hydrogen (green or blue)
 - Bioenergy and advanced (bio)fuels (biobutanol, biomethanol, biohydrogen, hydrotreated vegetable oils/renewable diesel (HVO/HEFA), biogas/biomethane, cellulosic ethanol), ammonia and (bio)synthetic fuels - from biomass, agricultural residues, agro-industrial (organic) wastes, lignocellulosic materials, novel and sustainable energy crops, microalgae/plant tissues cultures
- **Innovative energy storage solutions**