



PERSPECTIVE	CO <sub>2</sub> -NEUTRAL RAW MATERIALS AND FUELS	RENEWABLE ELECTRICITY	INFRASTRUCTURE	SPATIAL PLANNING	NATURE	INDUSTRIAL TRANSITION
STARTING POINT	<p>Carbon-neutral fuels and raw materials are needed to reach climate goals.</p> <p>Start now to realize a cost-effective, net CO<sub>2</sub>-neutral energy system by 2050.</p>	<p>Electrify the energy system as quickly and as far as possible.</p> <p>Avoid that fossil-based solutions slow down the development of renewable energy.</p>	<p>Infrastructure is an important bottleneck in achieving the climate goals due to the long realization times.</p>	<p>Because of competing spatial claims, efficient use is necessary.</p> <p>Existing users must be left with sufficient space.</p>	<p>Improvement of nature and the environment is necessary.</p> <p>Cumulative impacts must not exceed carrying capacity of ecosystem.</p>	<p>The industry needs long-term investment security.</p> <p>The industry will have to develop circular, climate-neutral processes and at the same time remain competitive.</p>
REALISATION	<p>Integrate assets of oil &amp; gas with new energy functions.</p> <p>Develop CCS as a transition technology.</p>	<p>Large-scale roll-out of offshore wind is leading.</p> <p>Put efforts in electrifying the demand-side, before switching to hydrogen.</p> <p>Promote a sustainable business-case for the offshore wind sector.</p>	<p>Infrastructure requires long-term planning to keep the costs as low as possible.</p>	<p>Promote collaboration and coordination between stakeholders.</p>	<p>Strengthening nature outside protected areas, e.g. in wind parks.</p> <p>Designate protected (nature) areas.</p> <p>Minimize impact of human activities.</p>	<p>No preferred technique for decarbonisation yet: electrification, hydrogen, CCS, biomass, are all possible.</p> <p>Make use of a world market for raw materials and energy carriers.</p>
ROLE SYSTEM INTEGRATION	<p>Develop transport and storage of CO<sub>2</sub> and hydrogen.</p> <p>Explore options to reuse existing infrastructure.</p>	<p>Develop conversion options that increase stability of renewables and reduce energy loss.</p>	<p>Optimize energy transport with new, existing, and redesigned infrastructure.</p>	<p>Develop options that reduce spatial needs of energy and allow for multifunctional use.</p>	<p>System integration can be part of nature-inclusive construction and habitat restoration.</p>	<p>Develop solutions for flexible energy supply, like energy storage.</p>

