

Energy transformations for sustainable and beautiful future

Prof. Dr. Dr.h.c. Nebojsa Nakicenovic

Vice Chair Group of Chief Scientific Advisors, European Commission

Former Deputy Director General, IIASA

Former Professor of Energy Economics, TU Wien

Energy transformation is central for resolving challenges from war and hunger to climate change. Priorities are decarbonization and efficiency toward zero-carbon electricity and electrification of energy end uses. This should be complemented by zero carbon energy carriers such as hydrogen. Major challenges are mobility that can be electrified through electric and plug-in vehicles, heating and cooling through heat pumps and especially freight transport, aviation and shipping. This is about people, about societies and about values and behaviors, expressed as aggregation of sundry individual choices. Thus, the transformation requires an inclusive approach to achieve a sustainable and beautiful future for all.