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From 1990-1997 he directed the System Analysis Group at the Institute for Integrated Energy Systems, University of Victoria, in Canada, concentrating on integrated resource planning and hydrogen energy systems.

In 1997 Dr. Rogner joined the IAEA as Section Head, Planning and Economic Studies Section. His current work focuses on the contributions to sustainable energy development of different energy supply and demand options, capacity building in energy-environment planning in developing countries, and nuclear knowledge management, including the role of the IAEA's International Nuclear Information System (INIS).

He has contributed to two parliamentary inquiry commissions of the German Bundestag on atmospheric protection, served several times as a lead author or convening lead author for the Intergovernmental Panel on Climate Change, represented the IAEA in activities of the United Nation Framework Convention on Climate Change (UNFCCC), collaborated on major global energy analyses including "Global Energy Perspectives", a joint study by IIASA and the World Energy Council (WEC), and the "World Energy Assessment" prepared by the United Nations Development Programme, the UN Department of Economic and Social Affairs and WEC.