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Macroeconomic modeling for energy and environmental analyses: Integrated economy-energy-environment models as efficient tools

Integrated economy-energy-environment modeling has a long tradition in Norway. Early development of energy and environment statistics made it possible to develop computable multi-sectoral general equilibrium models (CGE models) with a rigorous description of energy supply and demand, and the inter-linkages between economic activity, energy production and use, and emissions to air. These integrated CGE-models have been used for forecasting purposes and numerous analyses of energy and environmental policy purposes during the last two decades. Especially the models have been developed to be suitable for analyzing different economic policy options to deal with the global climate issue as design of optimal carbon tax or carbon quota schemes.