## **Green Growth Accounting with Combined Use of Hybrid Input-Output Tables and Supply - Use Matrix**

Topic: National Economic and Environmental Accounts

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Korea recently adopted an eco-friendly policy on economic growth called the Green Growth Policy. To find a theoretical base for the policy, this study conducts a structural decomposition analysis of carbon dioxide emission changes in Korea based on green growth accounting which combines hybrid input-output tables with supply and use matrix. The advantage of incorporating Supply-Use matrix in a structural decomposition analysis lies in improvement for consistent forecasting of GDP based on different scenarios of CO2 emission targets because the Supply-Use matrix links Input-Output Tables to National Income Account. This study estimates the growth rate of future gross domestic product based on the recently adopted CO2 emission reduction targets and the effect of CO2 reduction on employment through combined use of hybrid input-output tables with Supply-Use Matrix.