Simulasi sistem dinamik untuk memprediksi nilai degradasi kesehatan akibat polusi Gas SOx di Udara ambien DKI Jakarta

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Abstrak

The improvement in society's income will affect their life style and increase their demand for energy. Fossil fuel, being the main source of energy, emits some gases to the ambience, one of them is sulfur oxide gas. The aim of this research is to estimate the value of health degradation caused by sulfur oxide (Sox) gas in Jakarta Province. The prediction of the cost that has to be paid by the persons who are exposured by SOx gas and will get LRI (lower respiratory illnesses). CDA (chest disccomfort among adults), or premature mortality is done by developing the dynamic simulationmodel. The result of this research is by 2025 the Jakarta the Jakarta the Jakarta residents who will have health degradation caused by the SOx should pay around 985 trillion (10 12) rupiah. To reduce this pollutant, it is recommended to develop public policies based on the economic and environmental concern.