

### **GROUP 7** Member



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### **Macroeconomic Effects**

1. Debt-to-GDP Ratio

Initial increase, then stabilization.



2. Interest Rates

Short-term rise, then decline



3. GDP & Capital Stock

Initial increase, then stabilization.



4. Consumption

Steady increase



5. Labor Supply

Slight decline, likely due to sectoral shifts

### **Fiscal Effects**



#### 1. Government Debt

Initial sharp increase, then stabilization



#### 2. Government Transfers

Increase, indicating revenue redistribution



#### 3. Tax Revenue-to-GDP

Short-term decline but gradual recovery



#### 4. Government Spending-to-GDP

Declines under reform, indicating efficiency improvements



### **Distributional Effects**



Increases uniformly across income groups

#### 2. Household Savings

Increase across all deciles, especially for higher-income groups

#### 3. Before-Tax Income

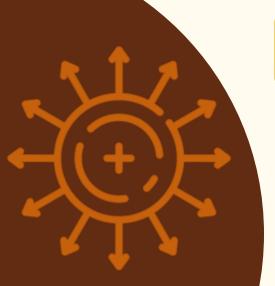
Growth across all income levels

#### 4. Labor Supply

Slight decline due to changing incentives

#### 5. Wage Rates

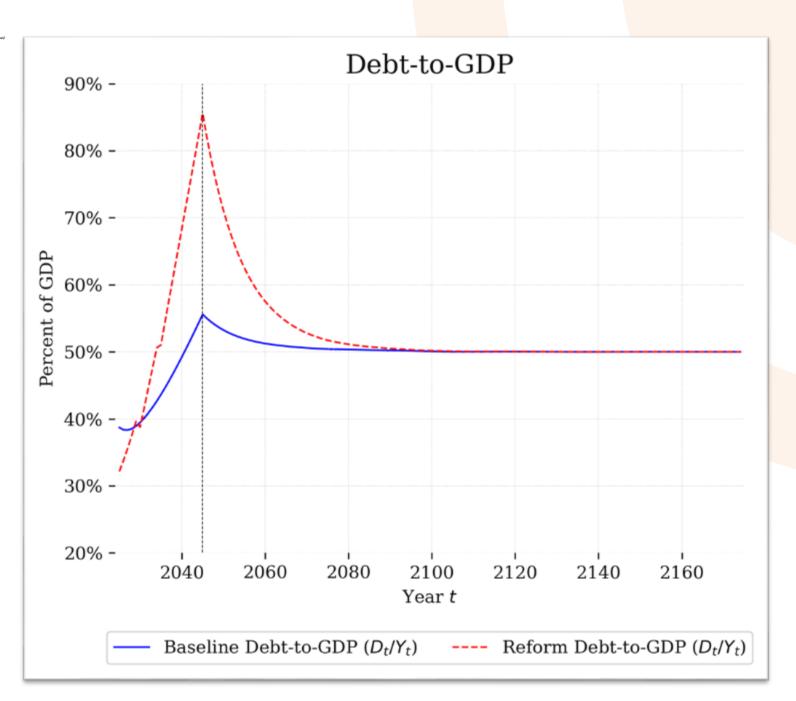
Significant increase, indicating labor productivity gains.









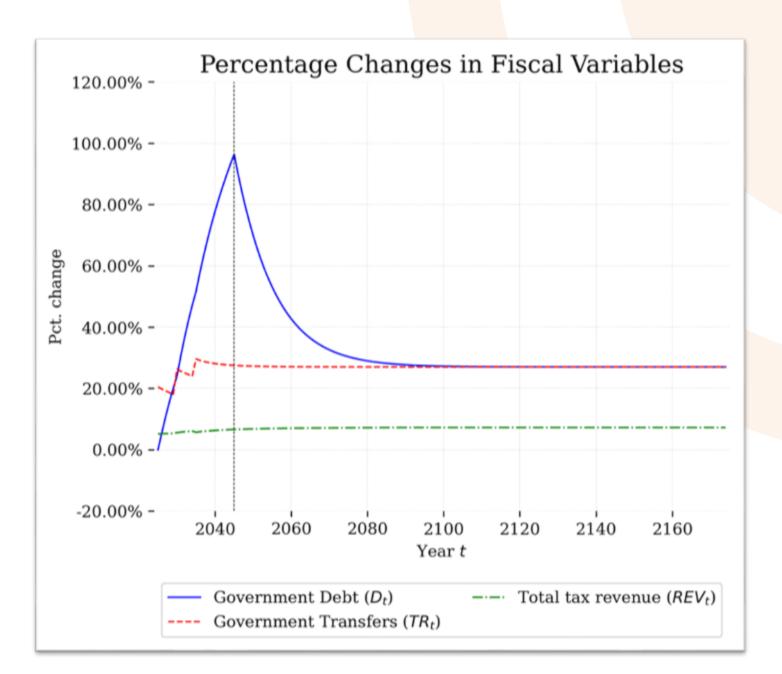




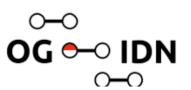






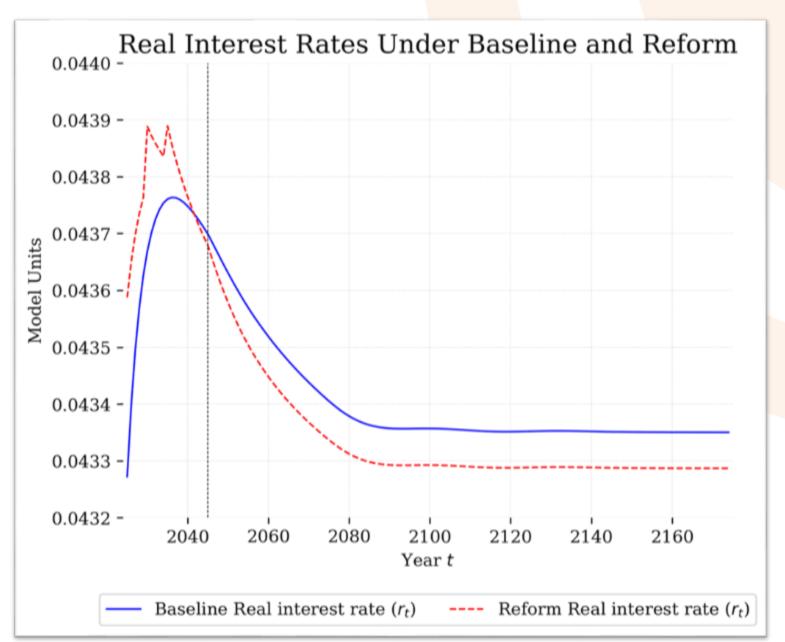










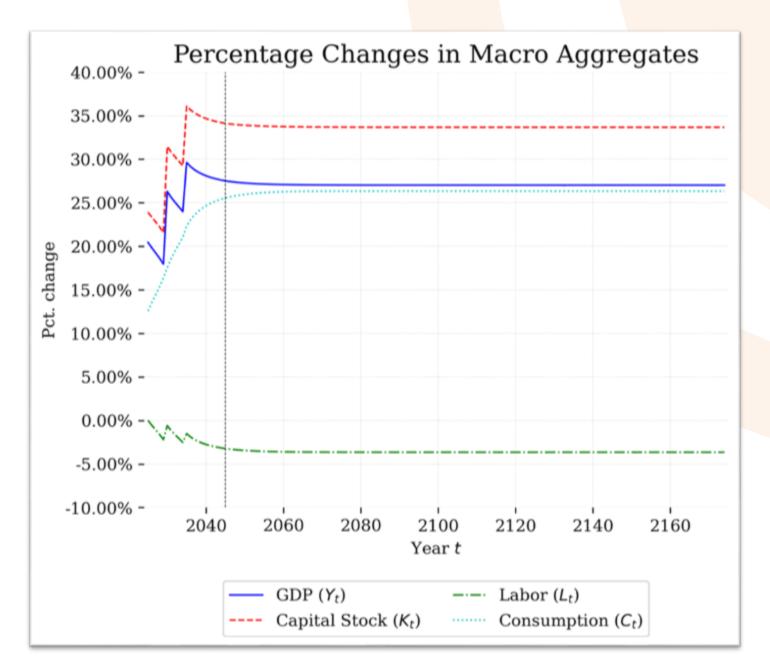




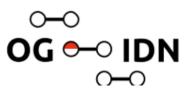






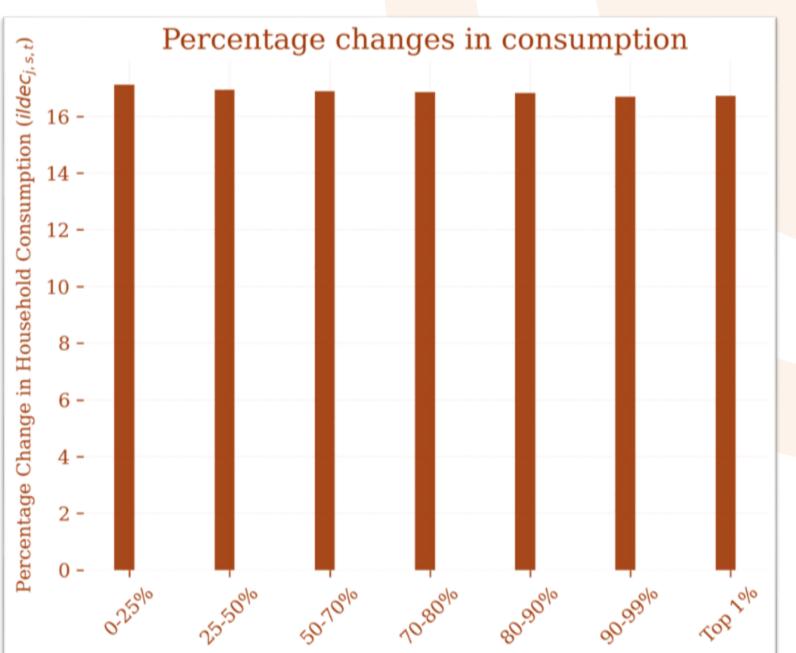








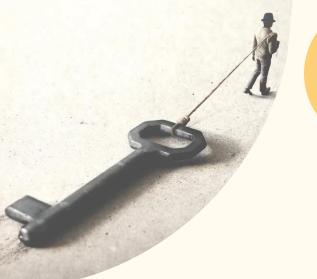












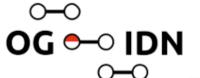
# Key Insights & Policy Implications





- Short-term fiscal stress but long-term economic benefits.
- Energy tax reform leads to higher GDP, investment, and wages
- Consumption and savings increase, but labor supply slightly declines.

- Policy must ensure fairness in savings and social security adjustments.
- Effective recycling of tax revenues can balance economic outcomes.



#### Improvement and Way Forward



# **Incorporate with Political Economy**

The model does not account for political resistance or the **challenges of implementing and maintaining energy tax reforms.** 

# **Integration with Climate Models**

Integrate the economic model with climate models to assess the broader environmental and economic impacts of energy tax reforms.

### Cross-Country / Open Economy

Conducting a cross-country/Open Economy analysis could provide insights into how different policy environments influence the outcomes of energy tax reforms.

## **Behavioral Economics**

Incorporating insights from behavioral economics could improve the model's realism by accounting for **how firms** and consumers actually respond to energy taxes.



204.41

1,121.58

26,966.00

7,609.27

28,830.67



# Thank you



"The best public policy is made when you are listening to people who are going to be impacted."

— Elizabeth Dole