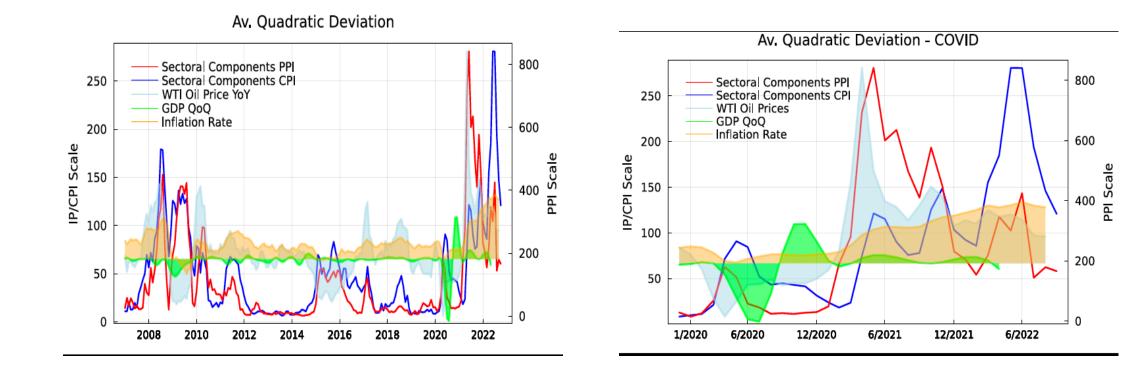
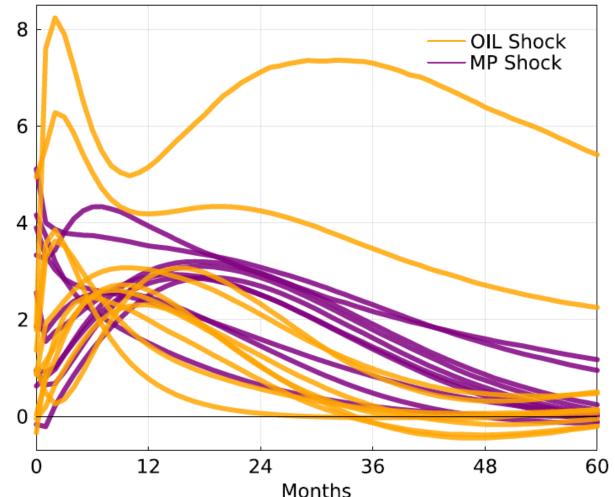
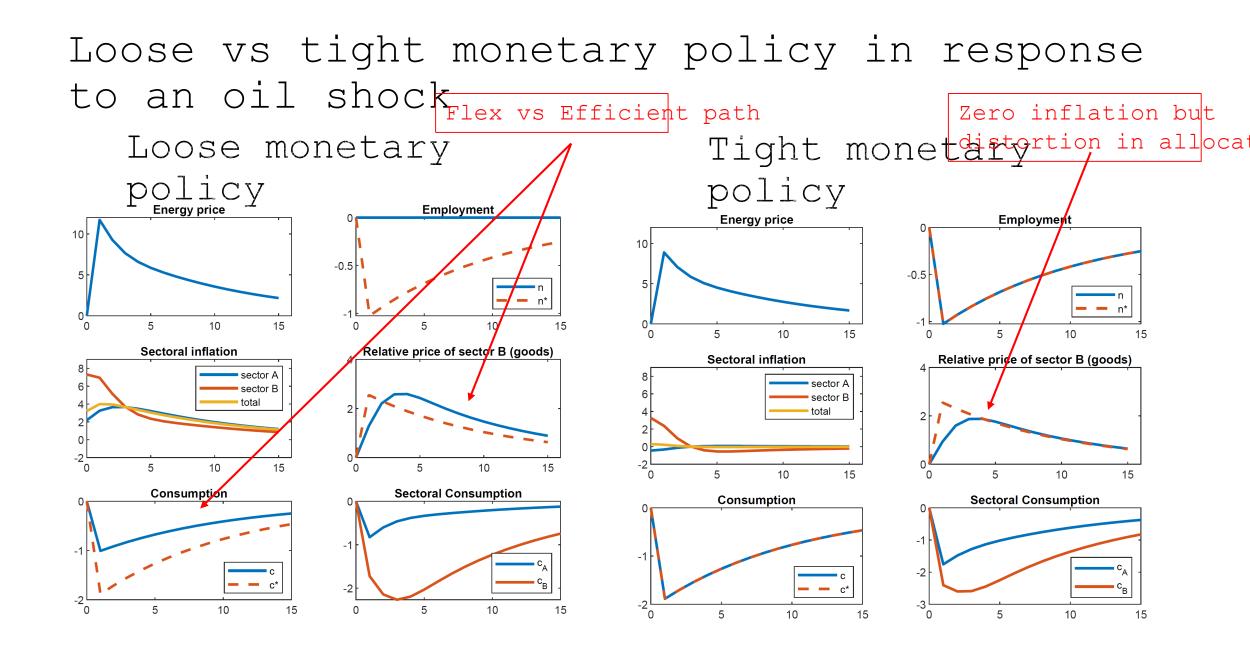
Covid and post covid Large changes in relative prices -The US

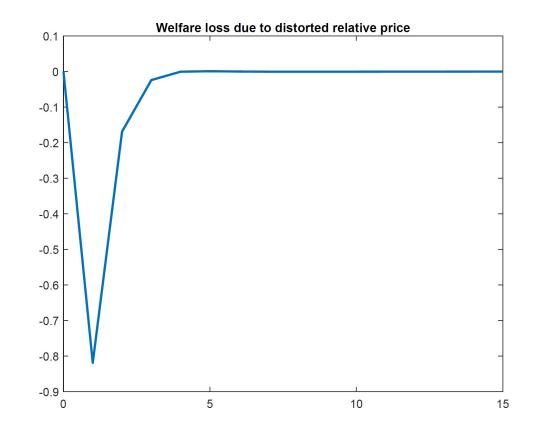


Historical analysis - VAR based Sectoral price response to oil shocks more heterogeneous than response to monetary shock





WELFARE LOSS DUE TO RELATIVE PRICES



Non-linear Phillips curve and negative supply shift

When supply shifts to the left, an increase in demand pushes the economy to the steep part of the supply curve

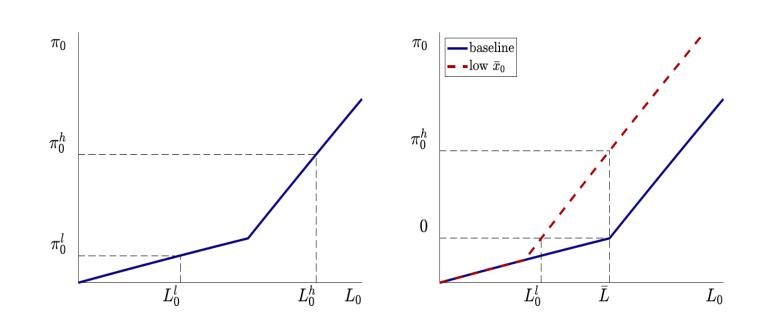


Figure 1: Phillips curve.

Effect of temporary dirty energy shortage - costly tradeoffs

- Under full-employment policy we have a recession because the tightness in access to dirty goods drives down productivity. Sharp rise in inflation
- Under inflation target, sharp decline in employment and deep recession. Also dampens relative price change needed for reallocation

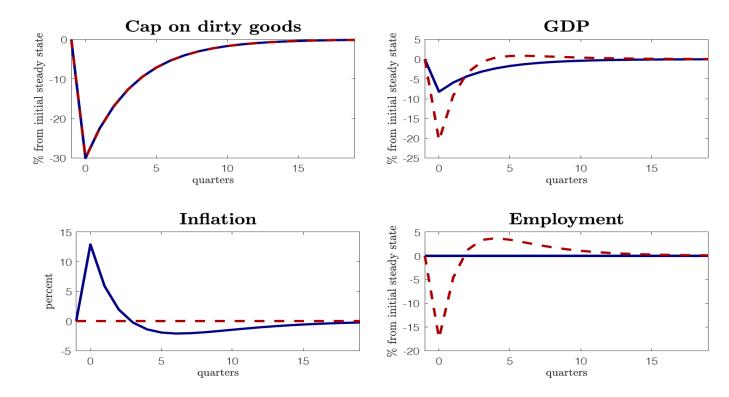


Figure 2: Temporary dirty-energy shortages.

Monetary contraction with and without endogenous growth

- Monetary tightening dampens inflation but the endogenous responses of investment and productivity lowers productivity growth creating inflationary pressures.
- In the medium run, the economy with endogenous investment features higher inflation, and lower output, compared to the fixed-investment economy.
- Endogenous investment in innovation creates an intertemporal inflation trade-off for the central bank.

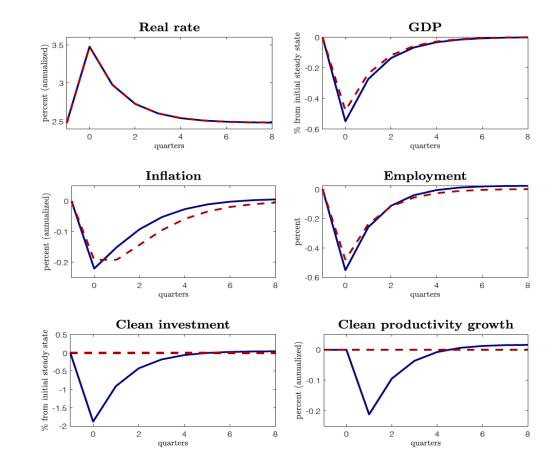


Figure 4: Impact of a monetary contraction. Notes: solid lines refer to the baseline model with endogenous investment, dashed lines refer to a counterfactual economy in which investment is fixed to its steady state value.