

Is Green Transition Painful?—An Endogenous Growth Perspective

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Outline

1 Motivation

- The effects of carbon taxation on the economy

2 Model

3 Calibration

4 Results

- The mechanism
- Inflation from one-sector and two-sector models
- Benchmark two-sector result
- Size of the final tax rate
- Exogenous growth (frontloaded or backloaded tax).
- Endo. vs. Exo. growth (benchmark calibration)
- Endo. vs. Exo. (higher inflation coefficient, 1.5)
- Fiscal subsidy

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Carbon taxation

- EU plans to raise the share of green energy by 20 pp. to 45 % by 2030.
- Green transition: taxing emissions (tax on the price of brown inputs) in the brown sector
- Green innovation: productive capacity improves
- The role of monetary policy



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Textbook endogenous growth model of Romer (1986)

- Final goods producer uses green and brown intermediary goods and labor:

$$Y_t = L_t^{1-\alpha} [X_{G,t} + X_{B,t}]$$

where $X_{s,t} = \int_0^1 A_{s,t,i}^{1-\alpha} x_{s,t,i}^\alpha di$ for $s = \{G, B\}$.

- Brown input is taxed and green input is untaxed (tax revenues are transferred back to HHs as lump-sum transfers):

$$\frac{P_{G,t}}{P_t} = \frac{1}{\alpha}, \quad \frac{P_{B,t}}{P_t} = \frac{1}{\alpha} (1 + \tau_t).$$

- Intermediary invests to improve the quality of the good (endogenous growth):

$$A_{G,t+1} = A_{G,t} + \chi S_{G,t}^\zeta A_t^{1-\zeta}$$



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Calibration

Param.	Description	Value	Target
β	time discount factor	0.99	nominal interest rate of 4%
α	share of intermediary goods	0.5	share of intermediary goods in data
χ	constant in innov. function	0.0286	innov. spending-to-GDP ratio of 2%
η	constant in discounting	0.075/4	annual corporate discount rate of 7.5%
ζ	curvature of innov.	0.12	to generate a growth rate of 2 %
ψ	el. of intert. subst. (EIS)	1.5	common choice in literature
ϕ_{π}	response to inflation	1.00	following Fornaro and Wolf (2023)
ϕ_{γ}	response to output gap	0.5	in the ballpark of Fornaro and Wolf (2023)
ξ	resp. of wages to labour gap	0.19	following Gali and Gambetti (2020)
λ	persistence of inflation	0.7	following Gali and Gambetti (2020)



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Intuition on the mechanism

- Green input decomposition:

$$x_{G,t} = x_{G,t}/x_{B,t} * x_{B,t} = (1 + \tau_t)^{\alpha/(1-\alpha)+1} \alpha^{2/(1-\alpha)} L_t \uparrow$$

- $Profit_{G,t} = markup * x_{G,t} \uparrow$; Labour: $x_{G,t} = \alpha^{2/(1-\alpha)} L_t \uparrow$

- Investment Euler: $INV_{G,t} = \left[\sum_{t=0}^{\infty} \prod_{j=1}^t \frac{1}{1+r_j+\eta} (Profit_{G,t}) \right]^{\zeta/(1-\zeta)} \uparrow$.

- Growth equation: $g_{G,t+1} \equiv A_{G,t+1}/A_{G,t} = 1 + \chi INV_{G,t}^{\zeta} \uparrow$.

- If monetary policy not too restrictive then consumption also higher (combine bond Euler+int. rate rule).

- $Y_t \uparrow = C_t \uparrow + INV_{G,t} \uparrow + x_{G,t} \uparrow + x_{B,t} \downarrow \downarrow$.

- $GDP_t \uparrow = Y_t \uparrow - x_{B,t} \downarrow \downarrow - x_{G,t} \uparrow = C_t \uparrow + INV_{G,t} \uparrow$



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One-sector and two-sector inflation

- Nominal wage rule: $\frac{W_t}{W_{t-1}} = G \left(\frac{L_t}{L} \right)^\xi \Pi_{t-1}^\lambda$
- One sector model (all intermediary inputs are brown):

$$\Pi_t = \frac{W_t}{W_{t-1}} \left(\frac{p_{B,t}}{p_{B,t-1}} \right)^{\frac{\alpha}{1-\alpha}} \frac{1}{G_t}$$

where $\frac{W_t}{W_{t-1}}$ is wage inflation, $p_{B,t} = \frac{1}{\alpha}(1 + \tau_t)$ is the price of the brown input including markup and taxes, and G_t is the growth rate.

- Two-sector model (green and brown inputs):

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where $A_{G,t}$ and $A_{B,t}$ are the productivities of the green and brown



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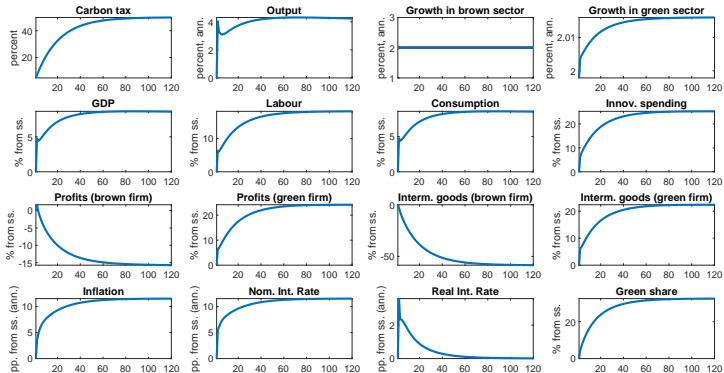
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Benchmark two-sector result



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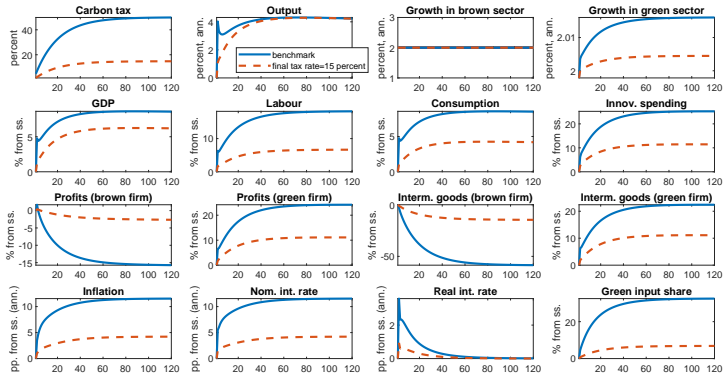
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15% final tax rate instead of 50%



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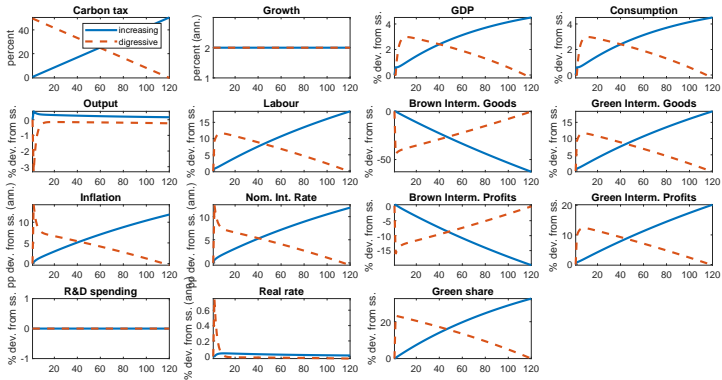
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Exogenous growth (frontloaded or backloaded tax)



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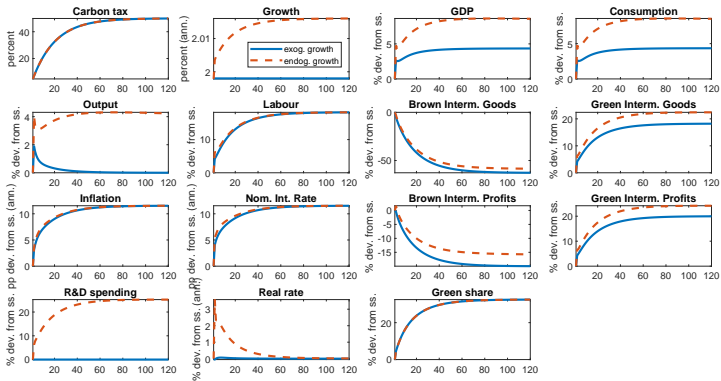
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Endogenous vs. Exogenous growth



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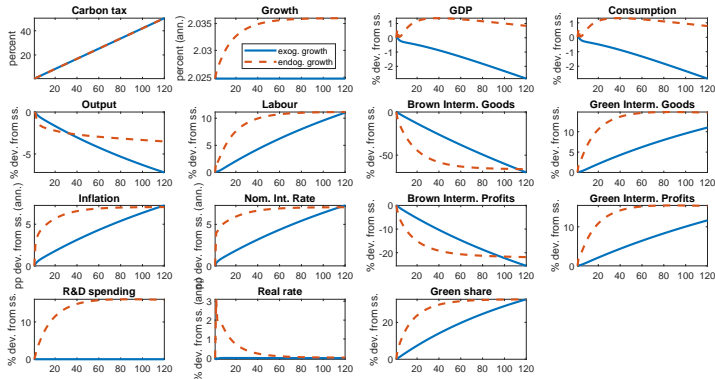
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Inflation coefficient in the int. rate rule is higher (1.5) than the benchmark (1.0)



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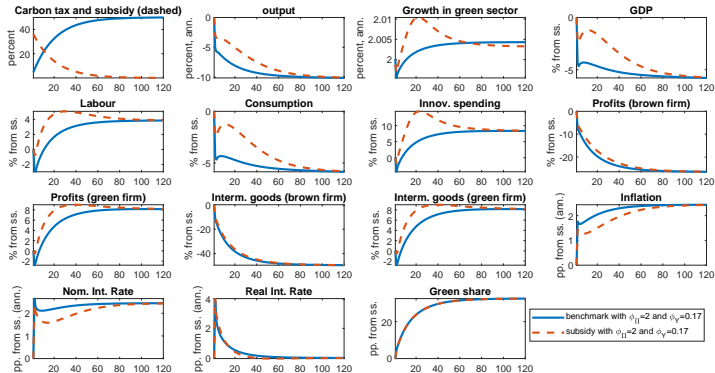
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- Green transition is not painful as long as monetary policy is not putting high weight on inflation
- With higher weight on inflation green transition still expansive with green innovation.
- Higher final tax rate implies higher final share of green inputs
- Fiscal policy has limited scope: business protecting subsidies.
- Our main message survives in the medium-size model of Boehl et al. 2024 and less sensitive to inflation coefficient there

