## Empirical Analysis of the Role of Energy in Economic Growth

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## Abstract

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Keywords: economic growth, energy, cobb-douglas, CES, LINEX

Caleb, put your LaTeX code here.

## 1. Cobb-Douglas Without Energy

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## 2. Cobb-Douglas With Energy

We can force  $\alpha$ ,  $\beta$ , and  $\gamma$  to be in [0,1] by a reparameterization:

$$a \in [0, 1], b \in [0, 1], \alpha = \min(a, b), \beta = |b - a|, \gamma = 1 - \max(a, b)$$

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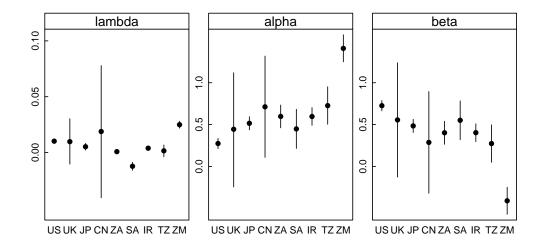


Figure 1: Cobb-Douglas (without energy) model parameters.

- 2.1. Cobb-Douglas with Q
- 2.2. Cobb-Douglas With X
- 2.3. Cobb-Douglas With U
- 3. CES
- 3.1. CES with Q