

A PUBLIC ECONOMIC ASSESSMENT OF THE USE OF BIOMASS FOR HEATING IN AUSTRIA

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1 Introduction

2 Method of approach

3 Potentials and costs

4 Macro-economic impacts

5 Conclusions

$$S = f (E, \eta(T))$$

S...Service

E...Energy

$\eta(T)$...Efficiency of technology

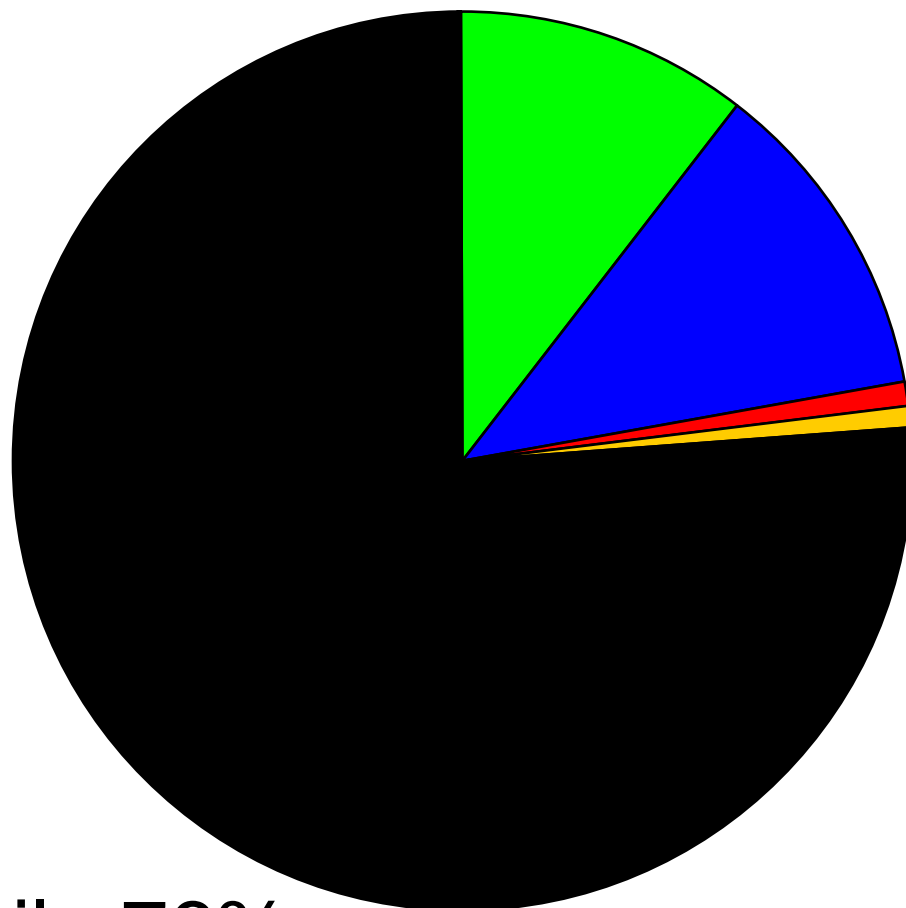
Basic objective: How can we provide energy services with the optimal mix of (biomass) energy and efficiency of technology?

Biomass 11% (130 PJ)

Hydro 11%

Waste 1%

Wind, Solar, Geothermal, ambient heat 1%



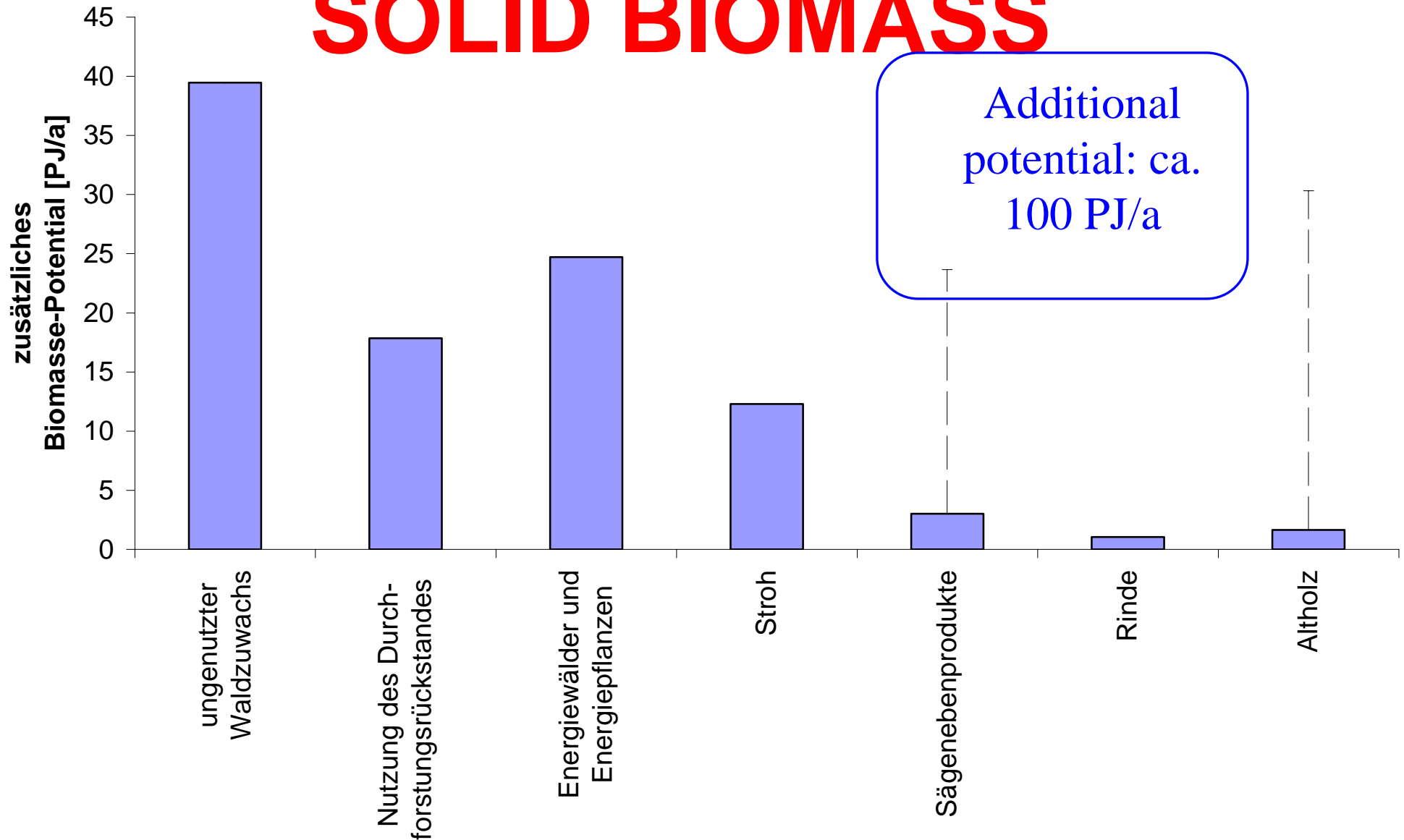
TOTAL: 1260 PJ

Fossile 76%

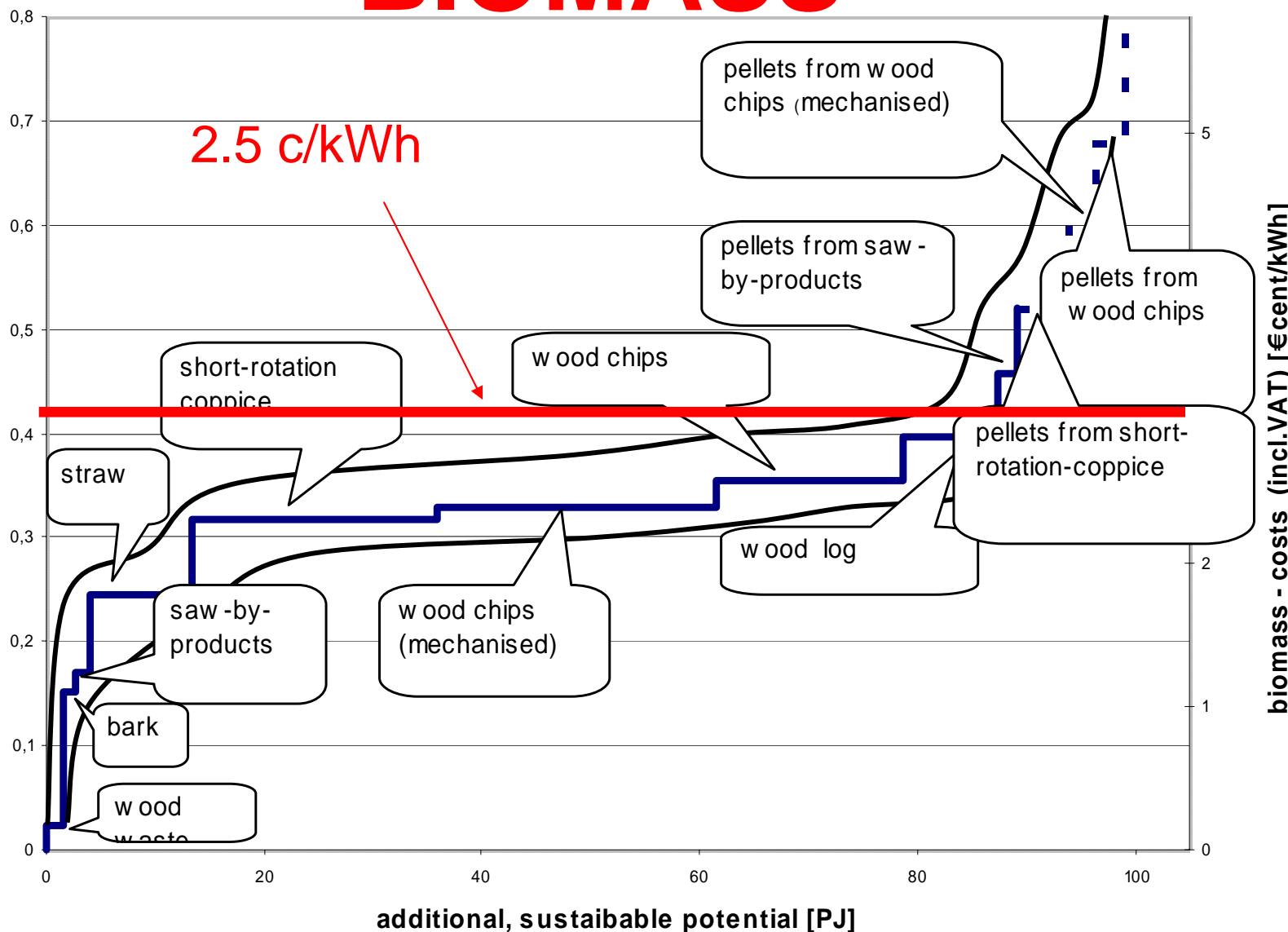
2 METHOD OF APPROACH

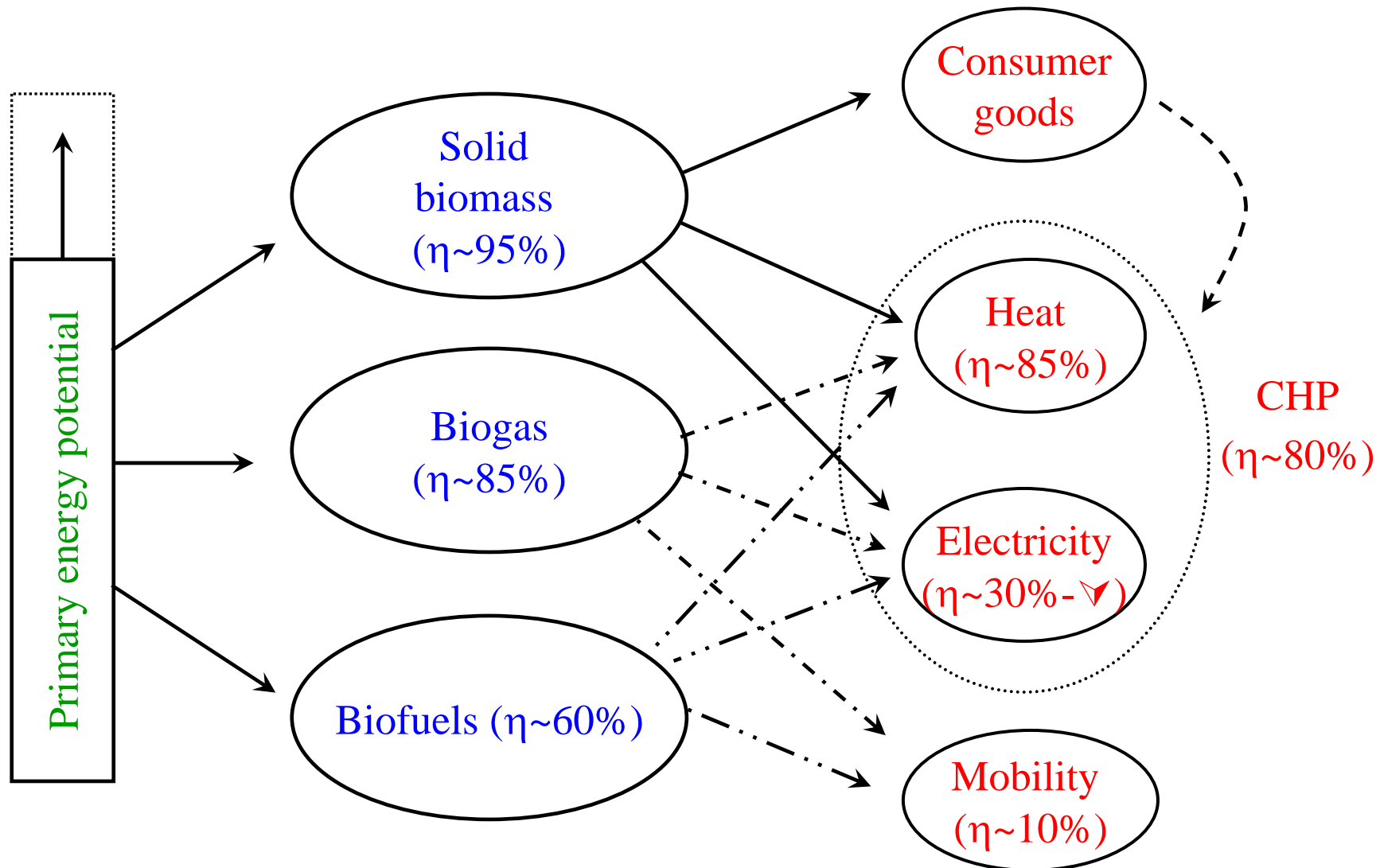
- **Estimate dynamic potential solid biomass**
- **Partial economic equilibrium model**
- **Starting point: Business-as-usual**
- **Dynamic simulation to 2020**
- **Scenarios: High vs low oil price from 2010, start promotion now or in 2010**

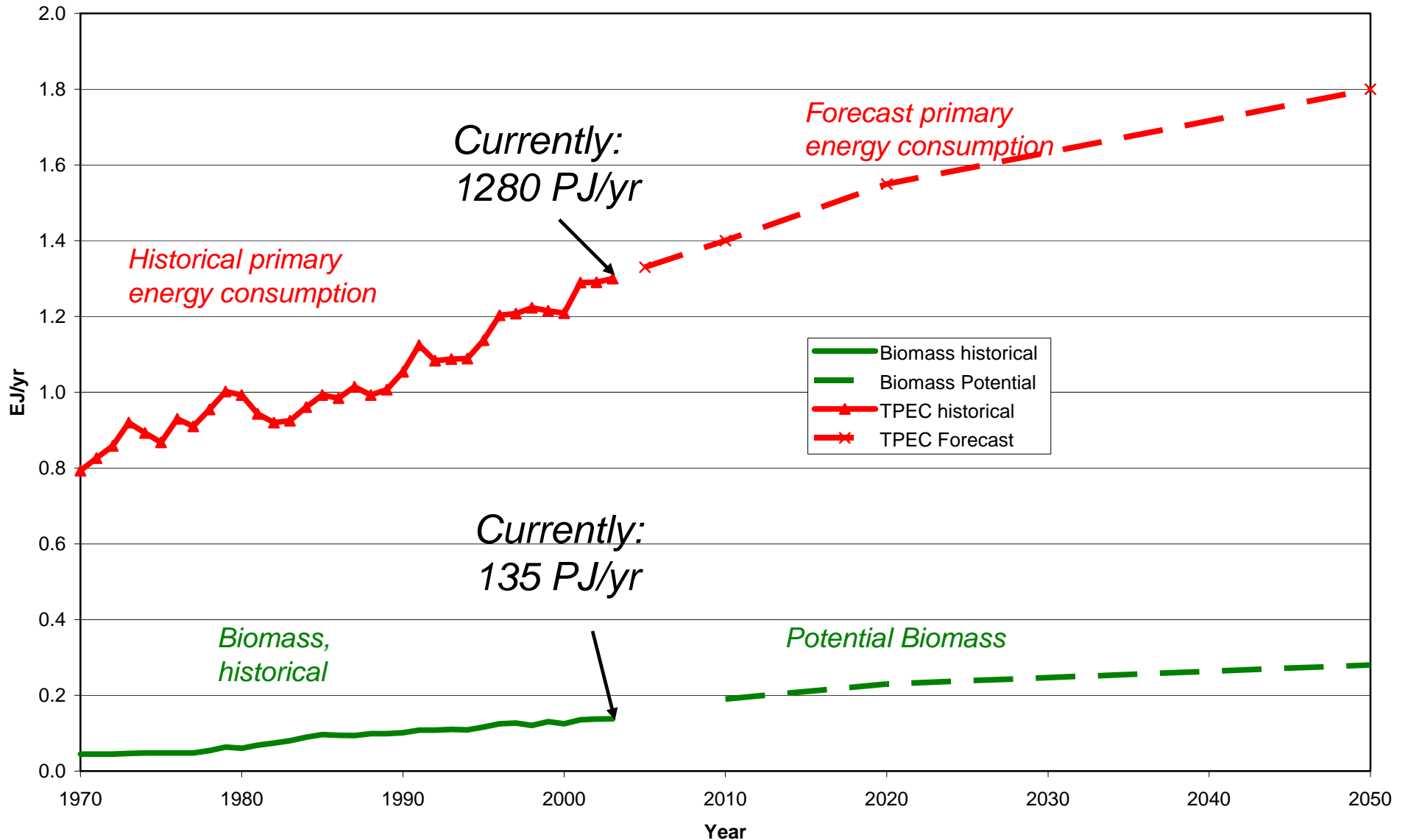
SOLID BIOMASS

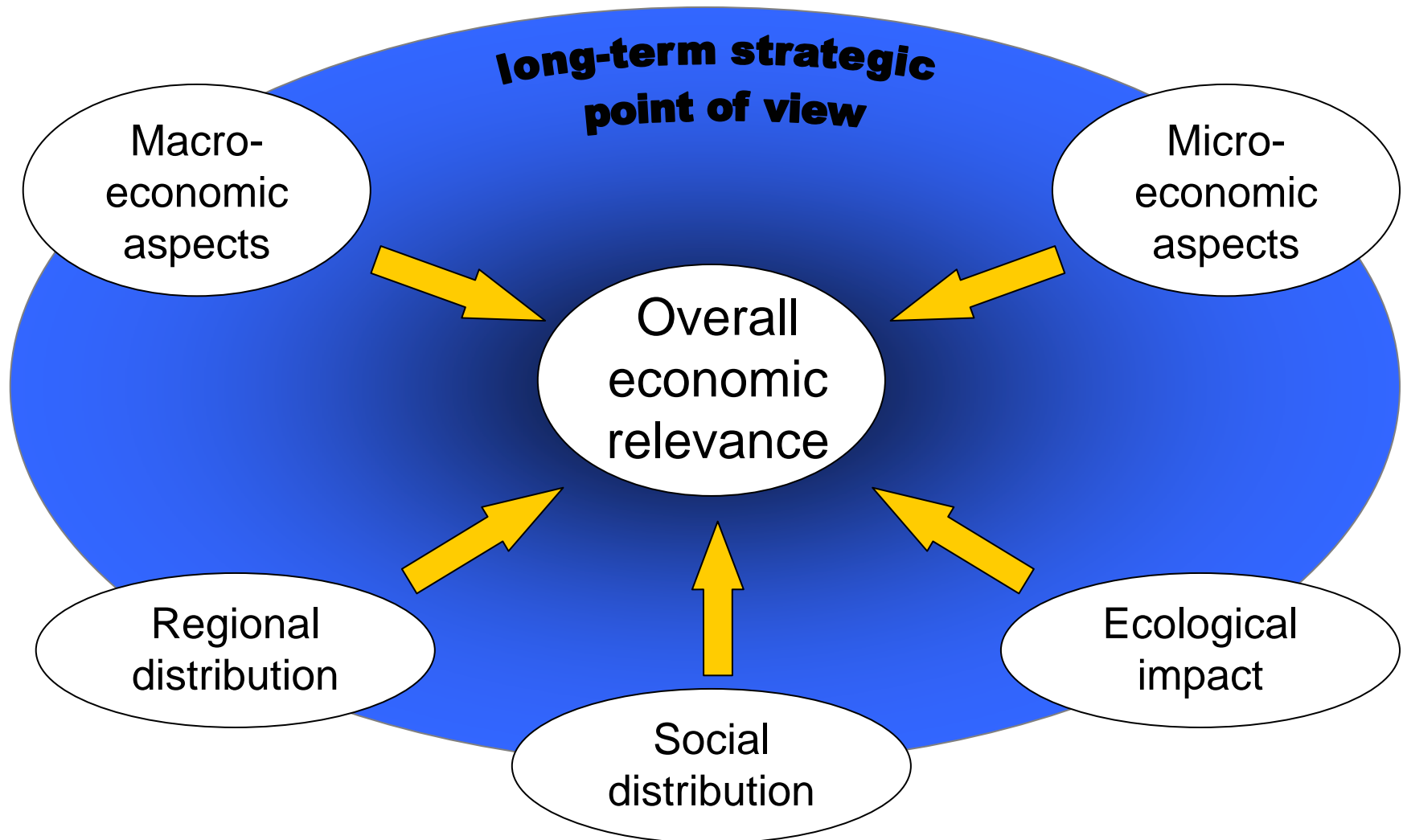


COST CURVE SOLID BIOMASS

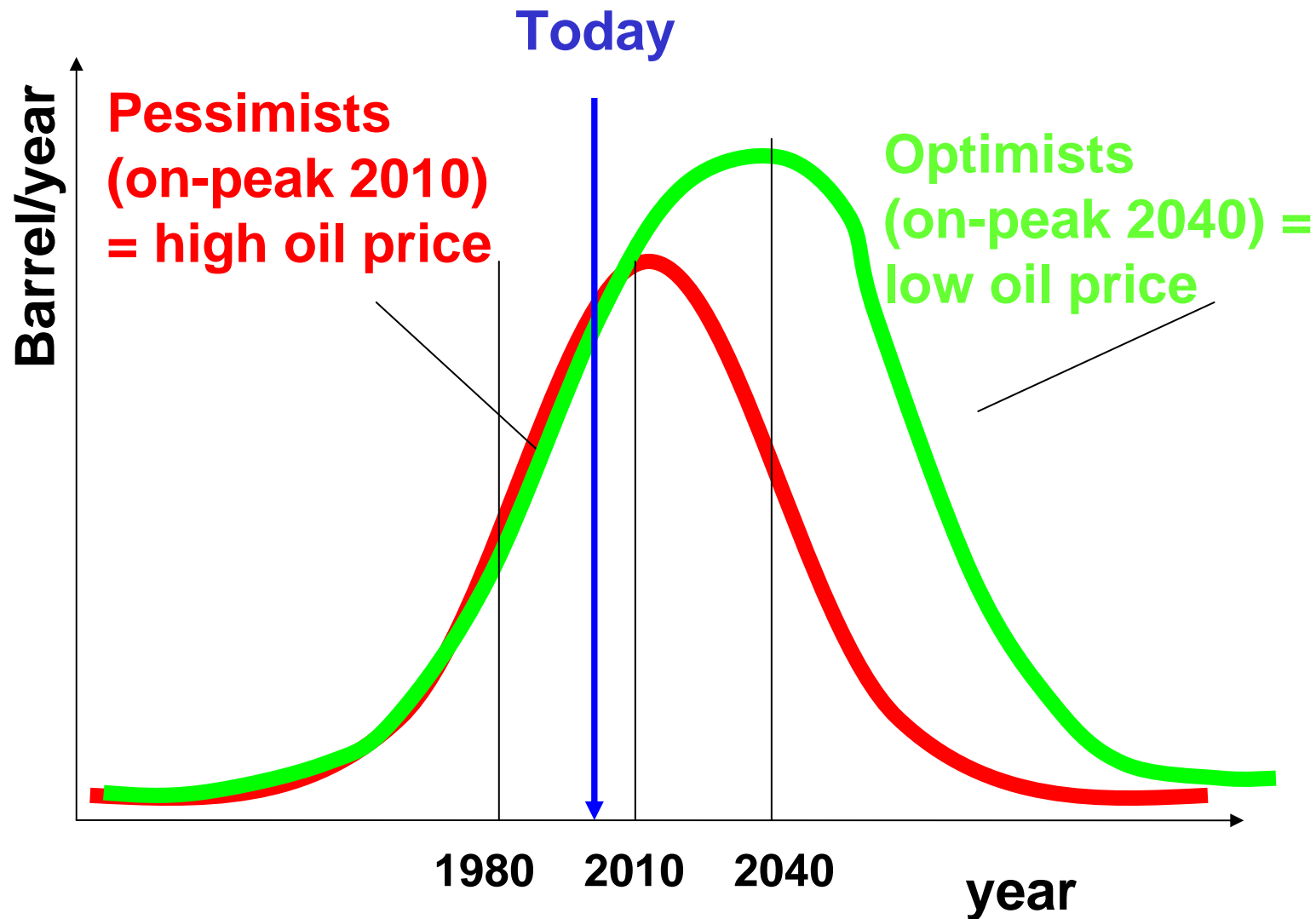




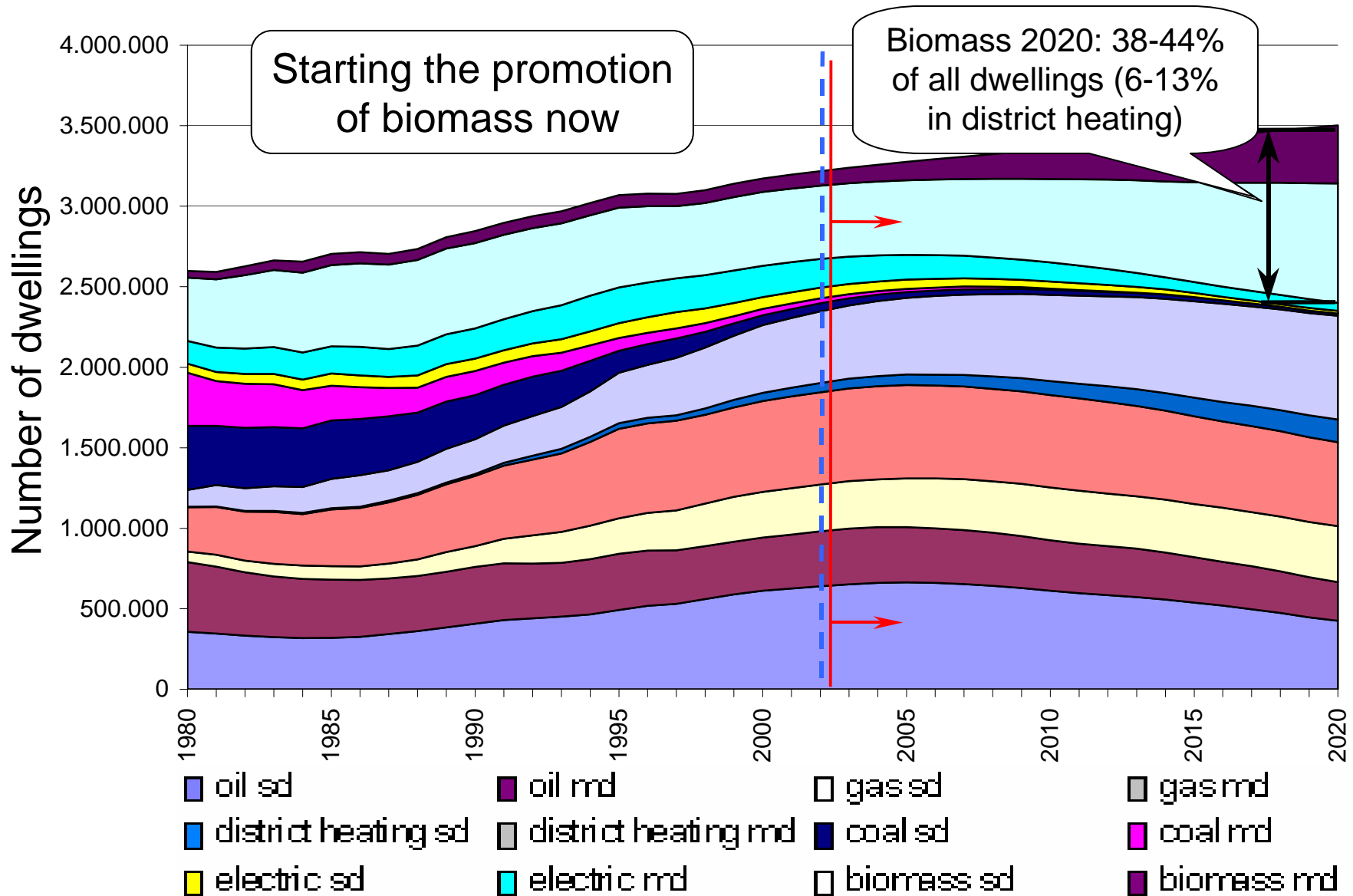


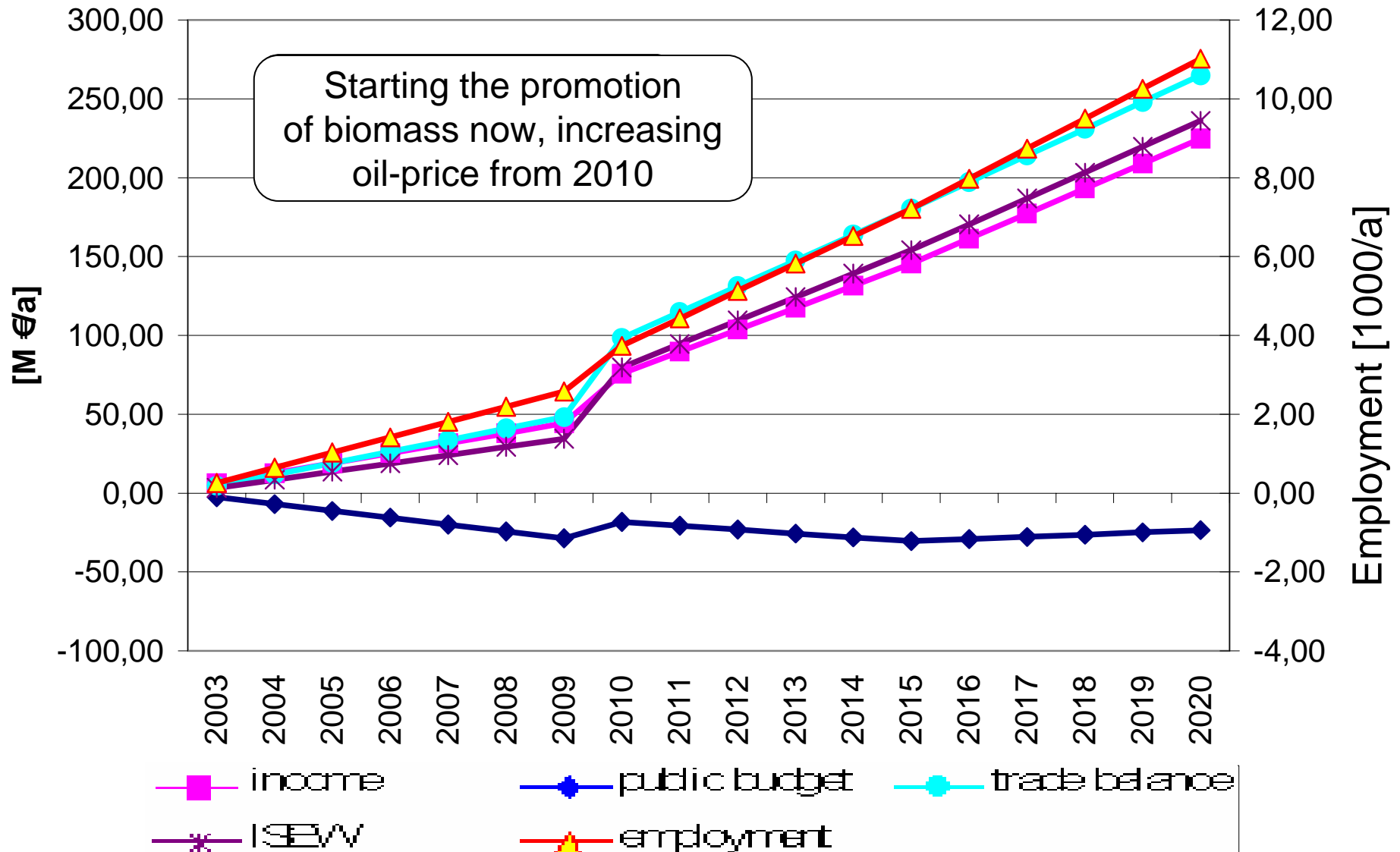


THE ROLE OF THE OIL-PRICE



Starting point of promoting biomass: now





Relevance of economic indicators (2)

