

Lao Final Energy Consumption- Changing Trend

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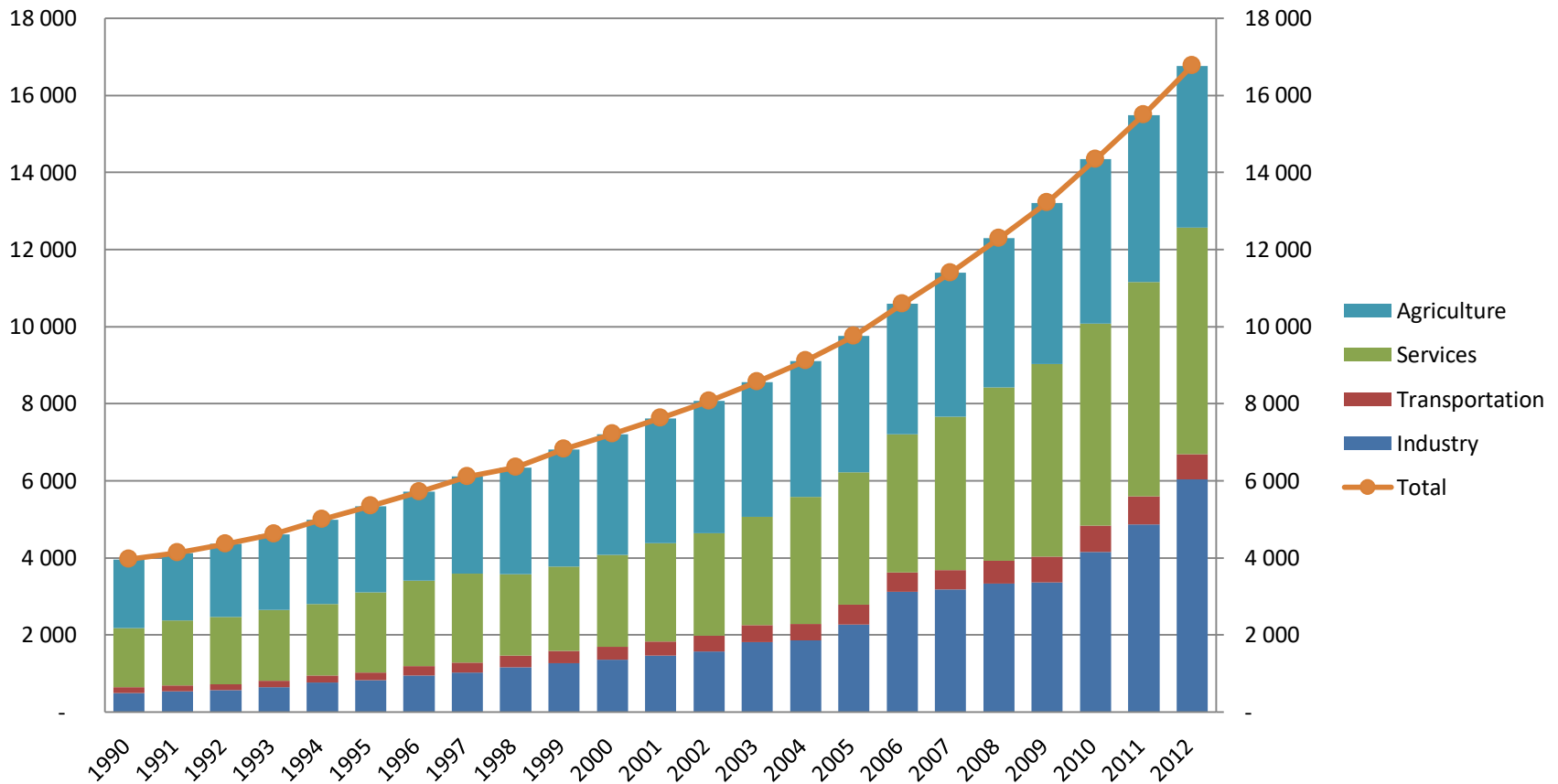
Contents

- GDP and Final energy consumption
- Energy intensity and energy elasticity
- Projection of energy demand by 2030

GDP 1990-2012

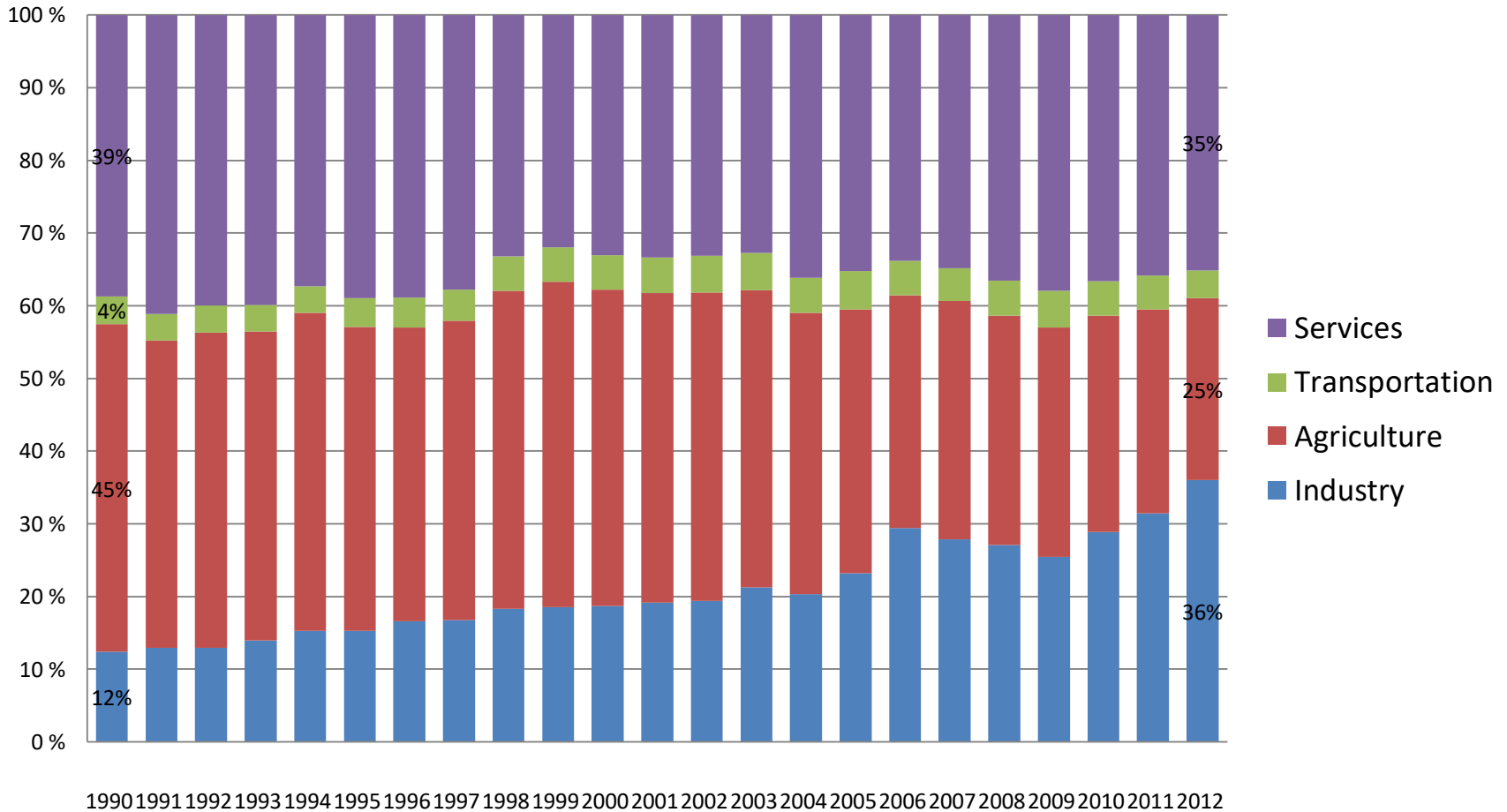
(units: million 2005 PPP US\$)

GDP by activities, (million 2005 PPP US\$)
Source: LBS, UNESCAP

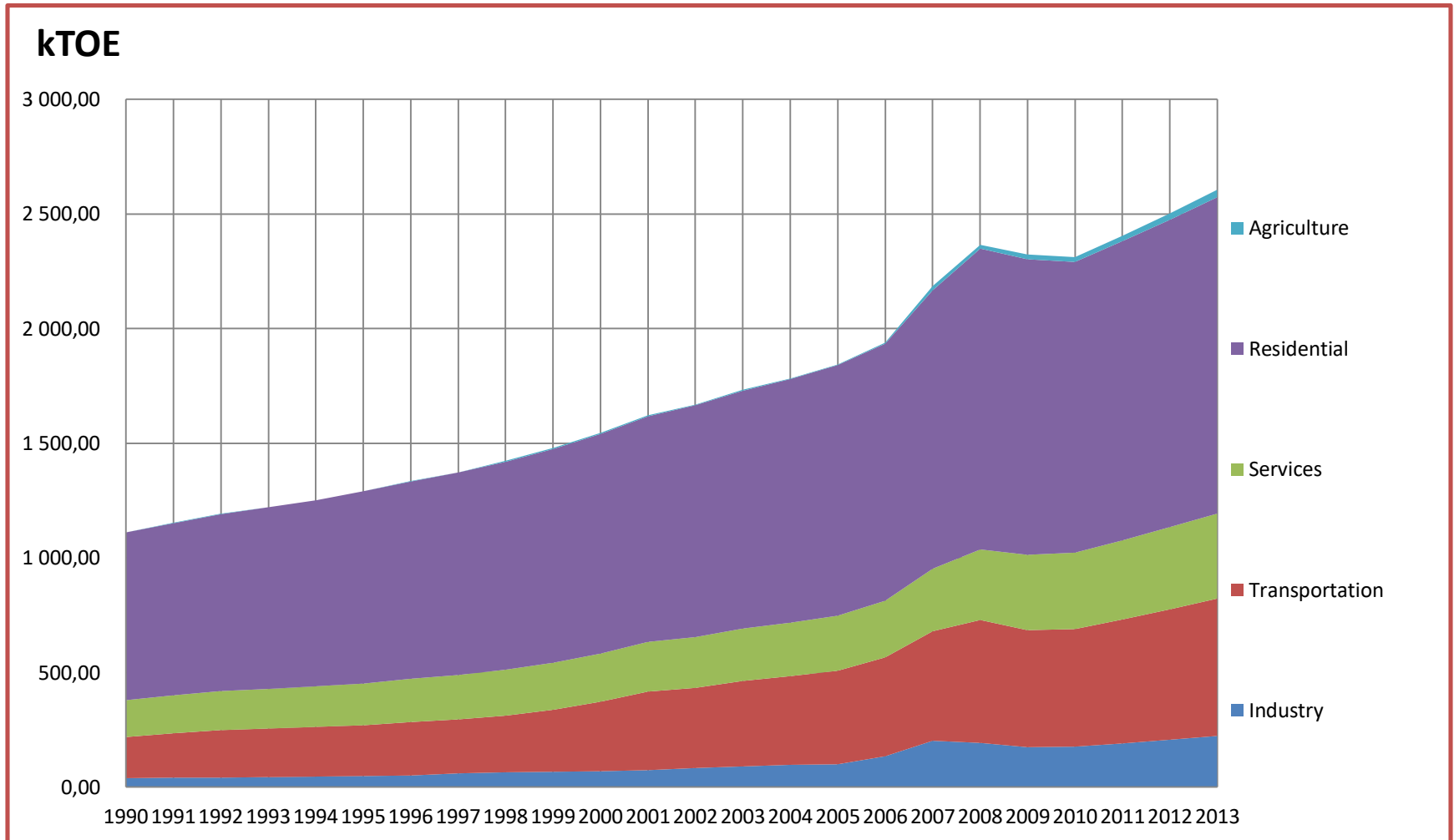


Shares in GDP 1990-2012

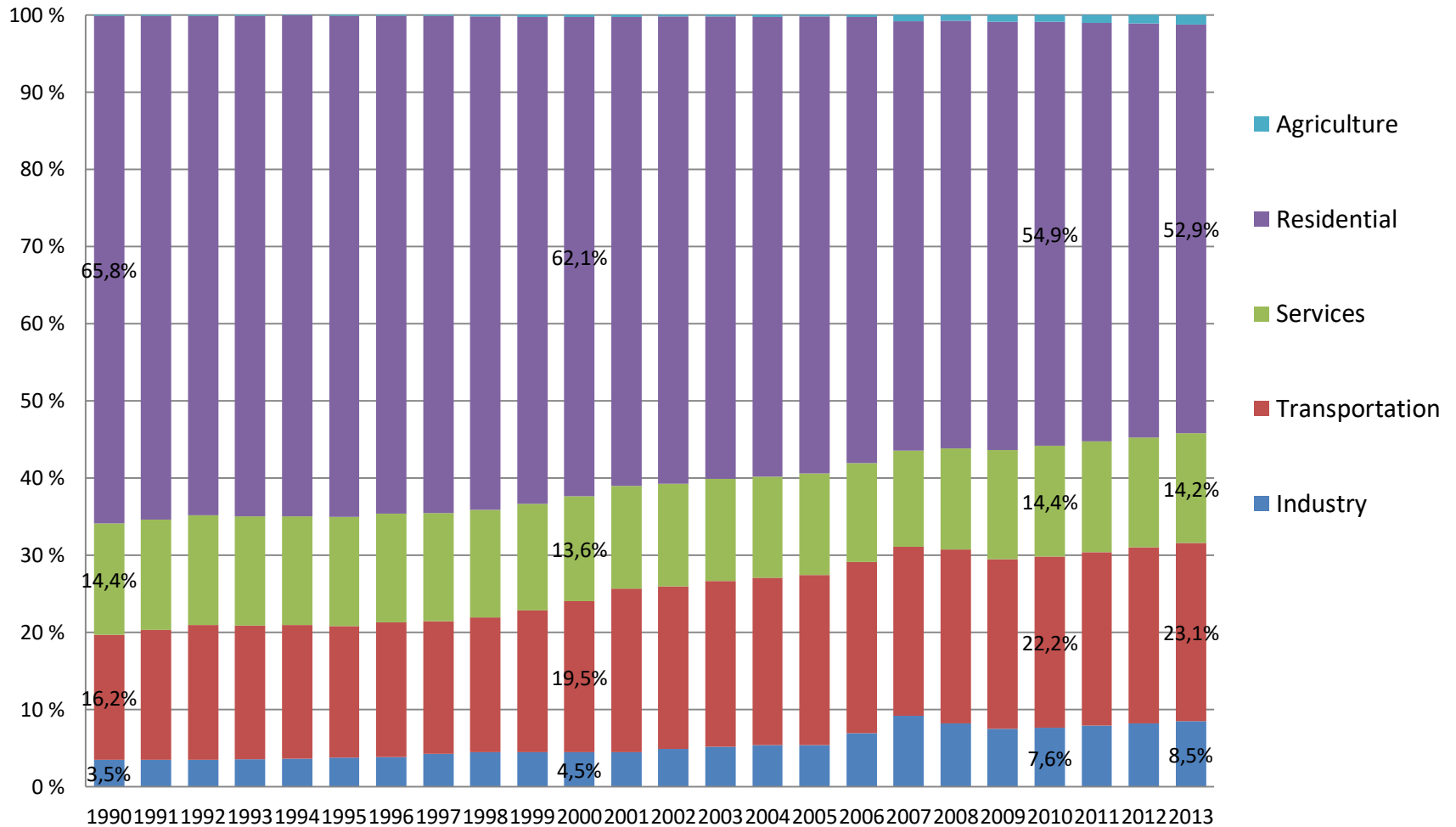
GDP share by sector



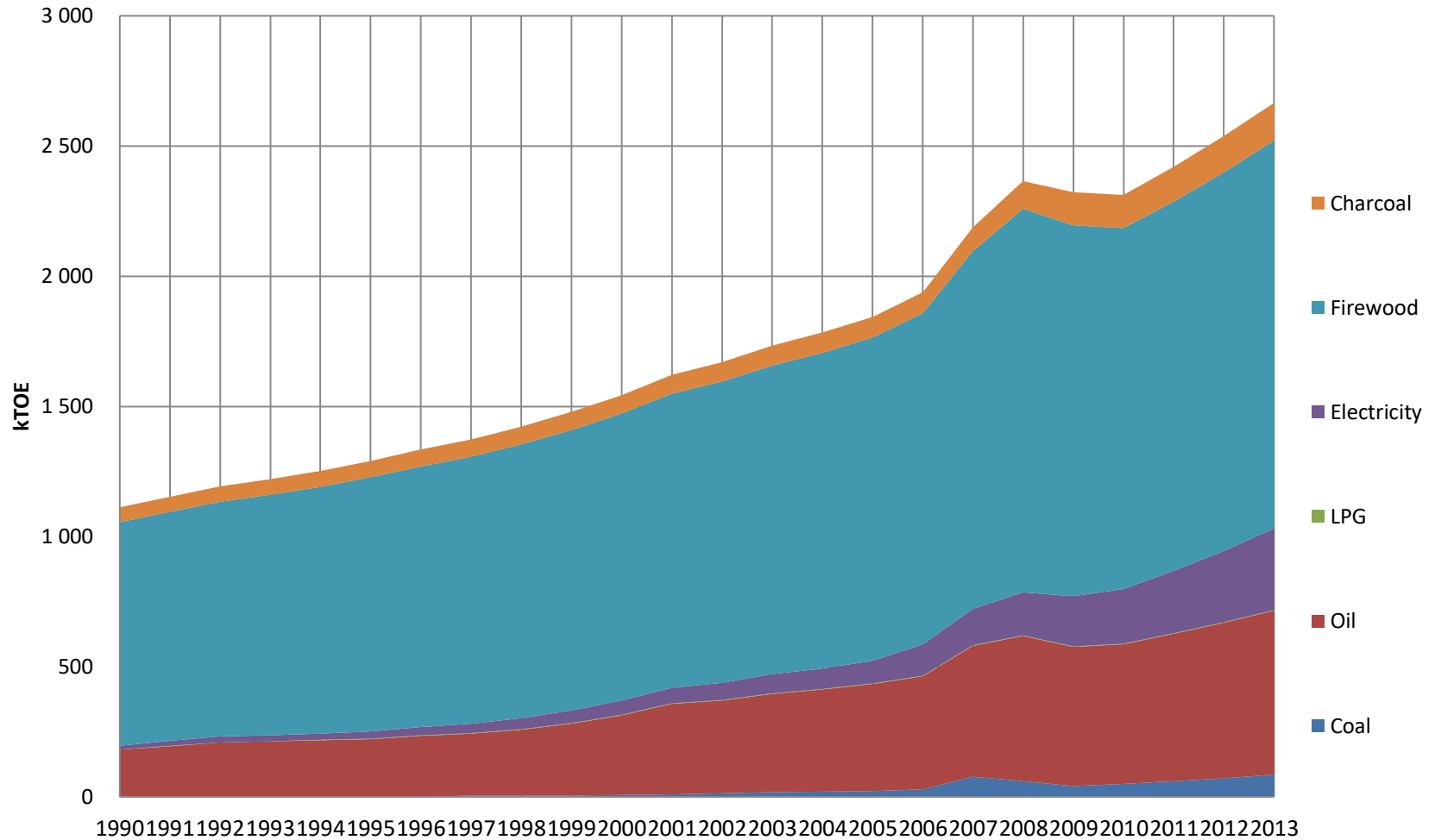
Final Energy Consumption by sector (1990-2013)



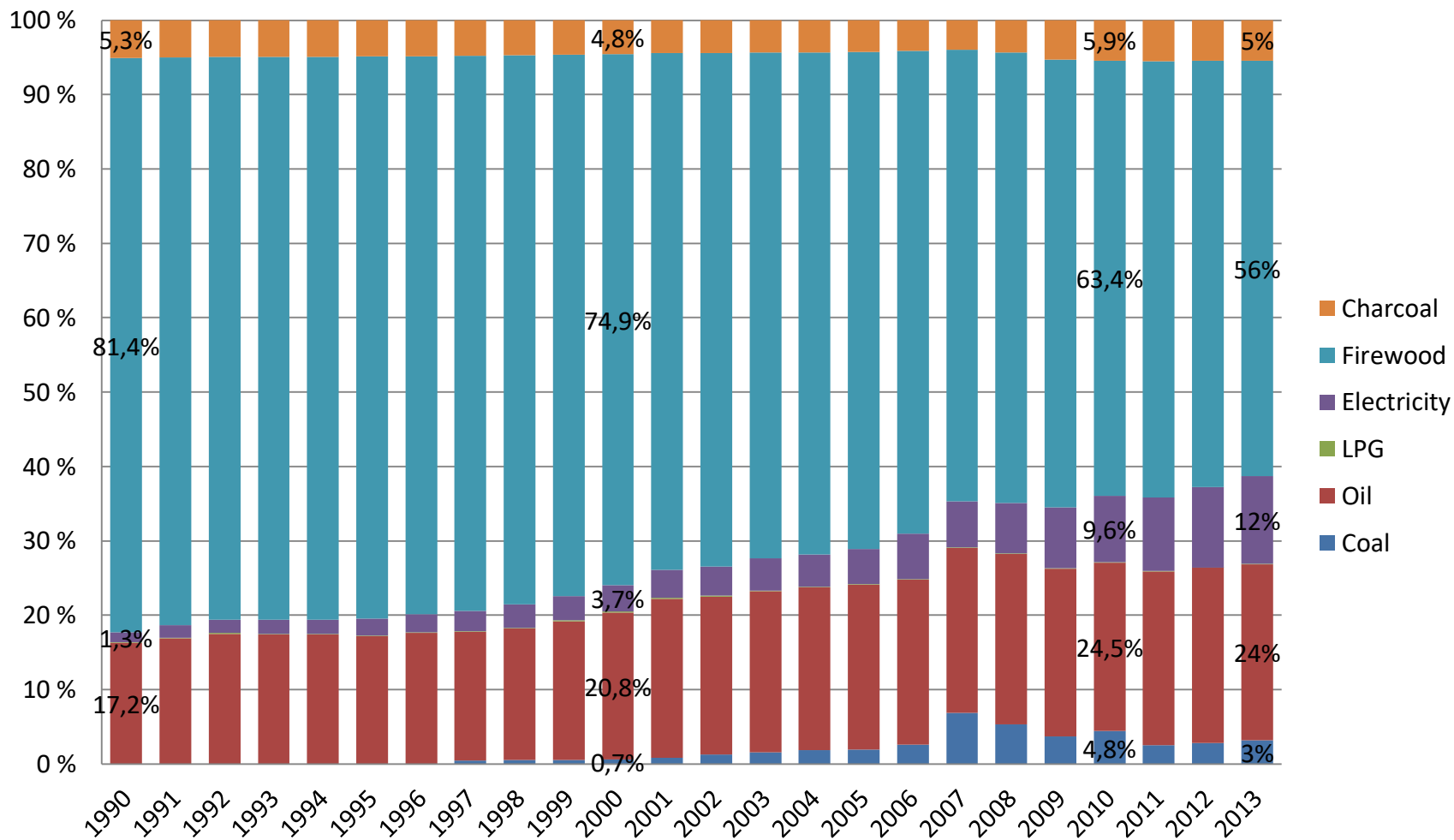
Shares by sector in Final energy consumption (1990-2013)



Final energy consumption by type (1990-2013)



By type share in final energy consumption (1990-2013)



Final Energy Consumption (1990-2012)

Energy Intensity and Elasticity

- Energy intensity, EI (Final energy)

$$\text{Energy intensity} = \frac{\text{Energy demand}}{GDP}$$

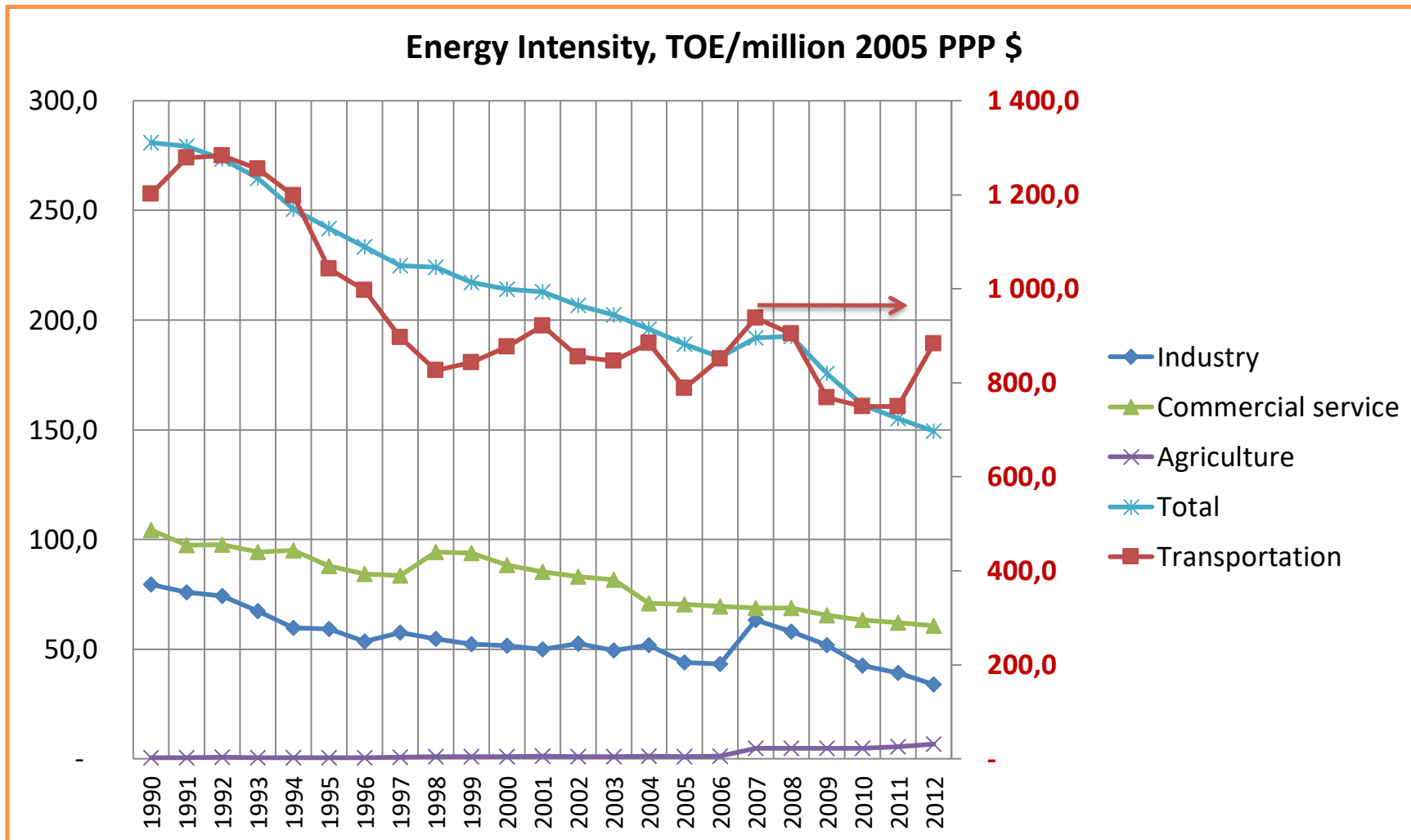
- Energy Elasticity to GDP (good, if < 1)

$$\text{Energy elasticity} = \frac{\text{Energy Demand growth}}{GDP \text{ growth}}$$

- For Lao PDR (1990-2013)

$$\text{Energy elasticity} = \frac{3.7\%}{6.8\%} = 0.55$$

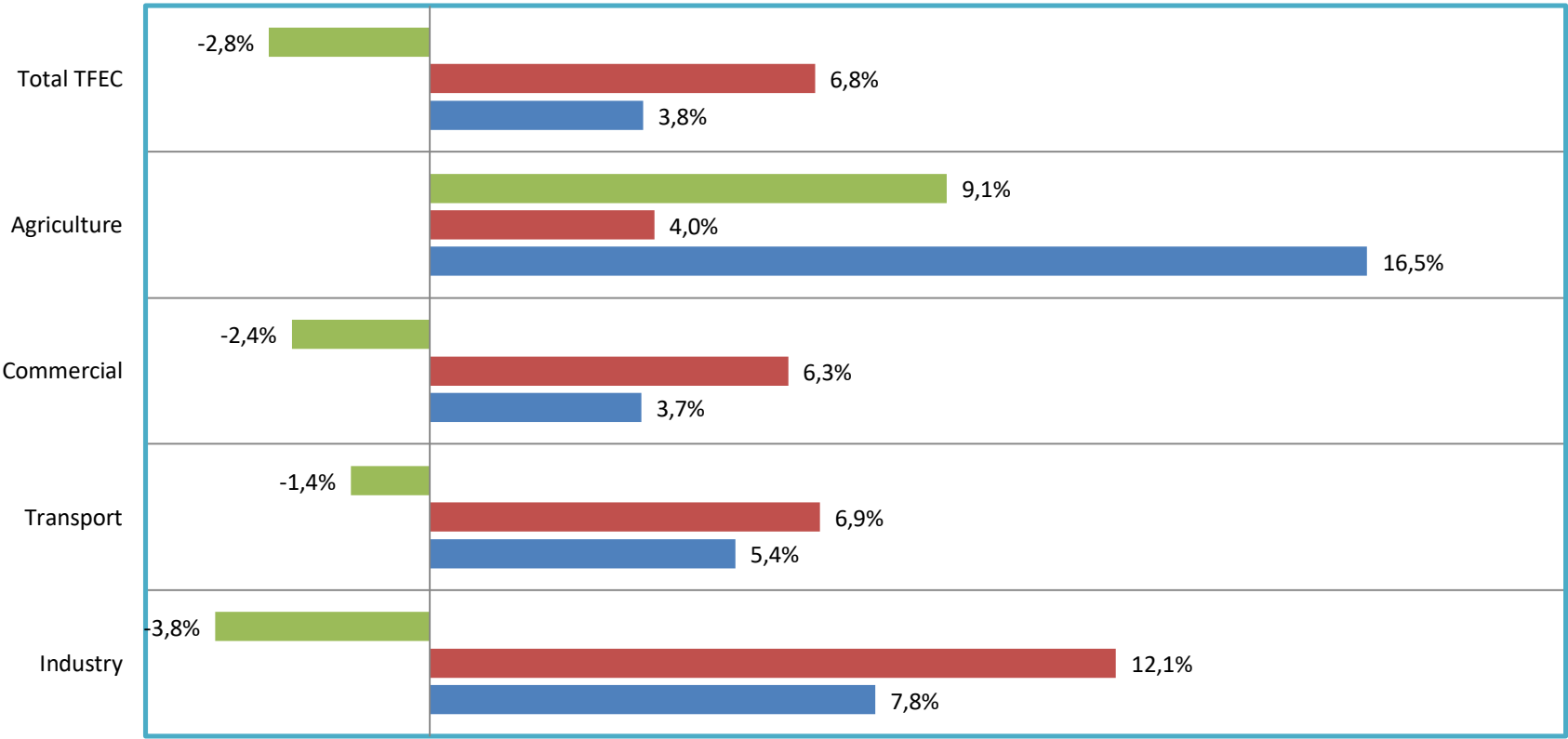
Changing trend of EI (1990-2012)



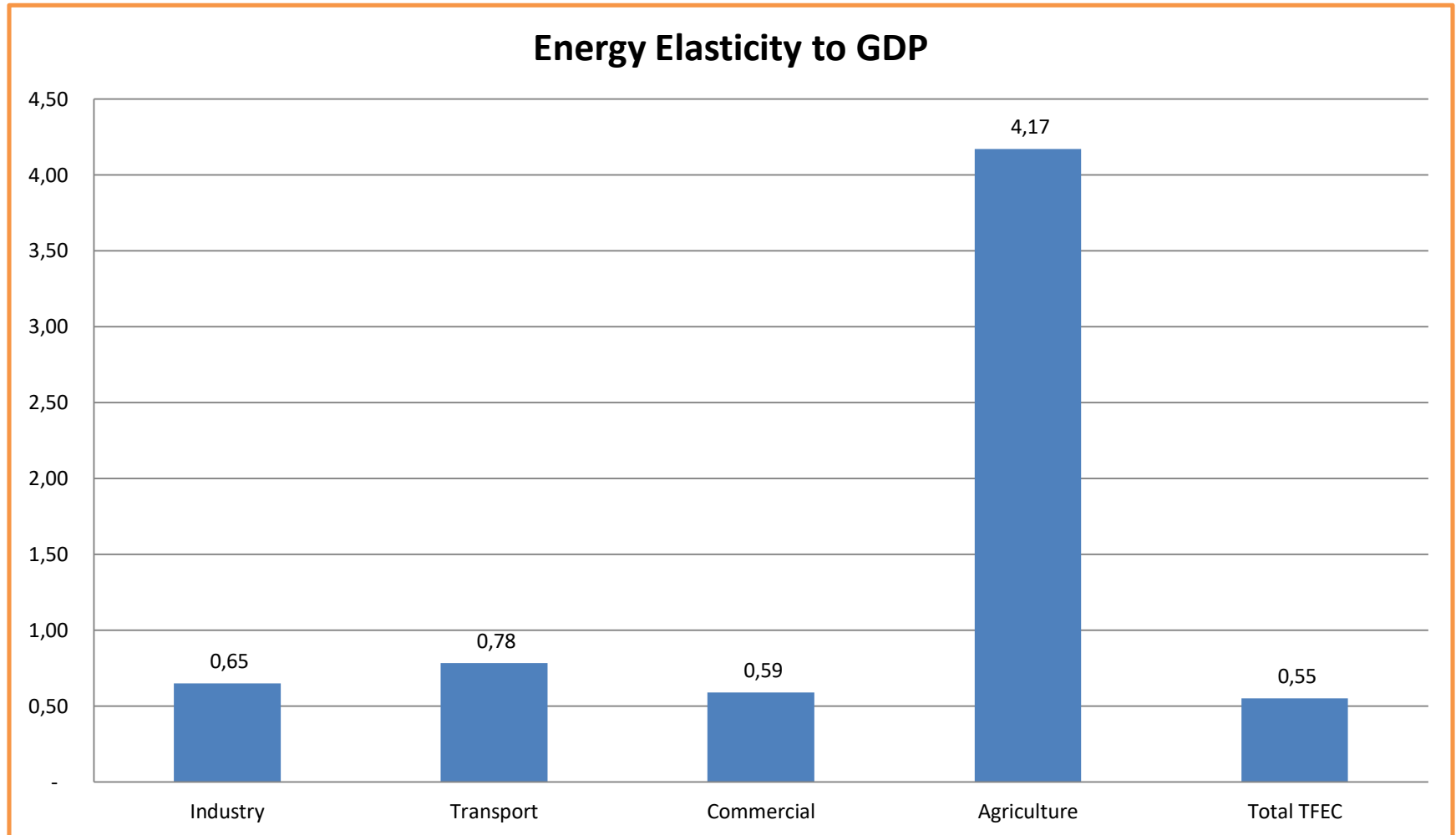
Changing trend for EI, GDP, FEC (1990-2012)

Change rate

■ EI ■ GDP ■ FEC

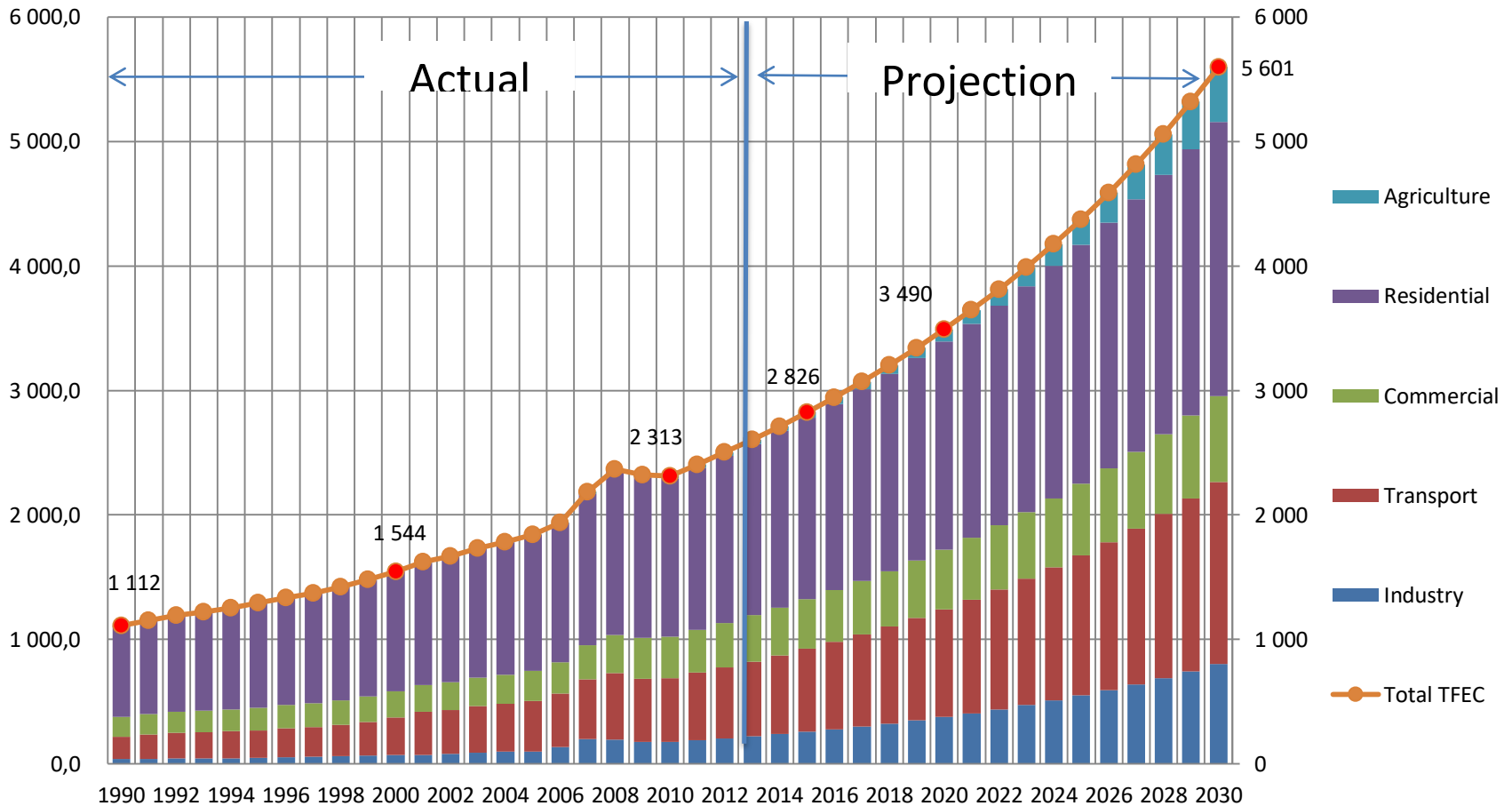


Changing trend in Energy Elasticity to GDP (1990-2012)



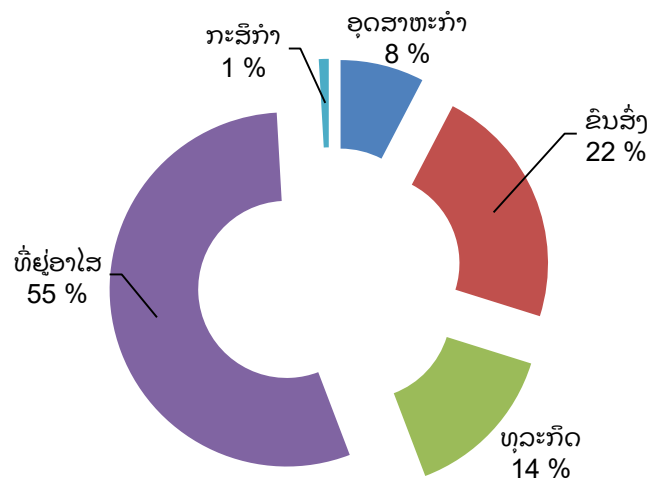
Energy demand projection by 2030 (BAU, 2013 - 2030)

Projection of Final Energy consumption, kTOE

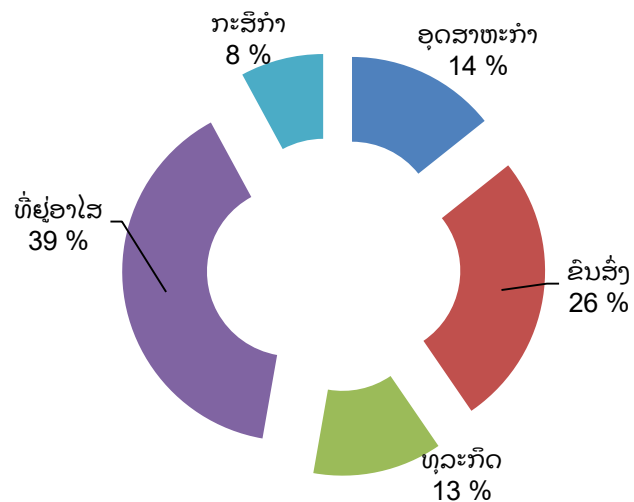


Energy demand Shares projection by sector (BAU, 2013 - 2030)

Shares in 2010 (Actual)



Shares in 2030 (projection)



Conclusions

- During 1990-2012, energy intensity has reducing trend, exception is for Agriculture
- Energy elasticity to GDP is less than 1 for all sector, except Agriculture
- Share of residential sector in FEC by 2030 will remain the biggest, but with smaller proportion.
- Industrial, Transportation and Agricultural sectors grow at highest rate and will account for bigger shares in FEC by 2030

Thank you !

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