



Energy trends and planning questions in Lao PDR FREPPLA workshop I

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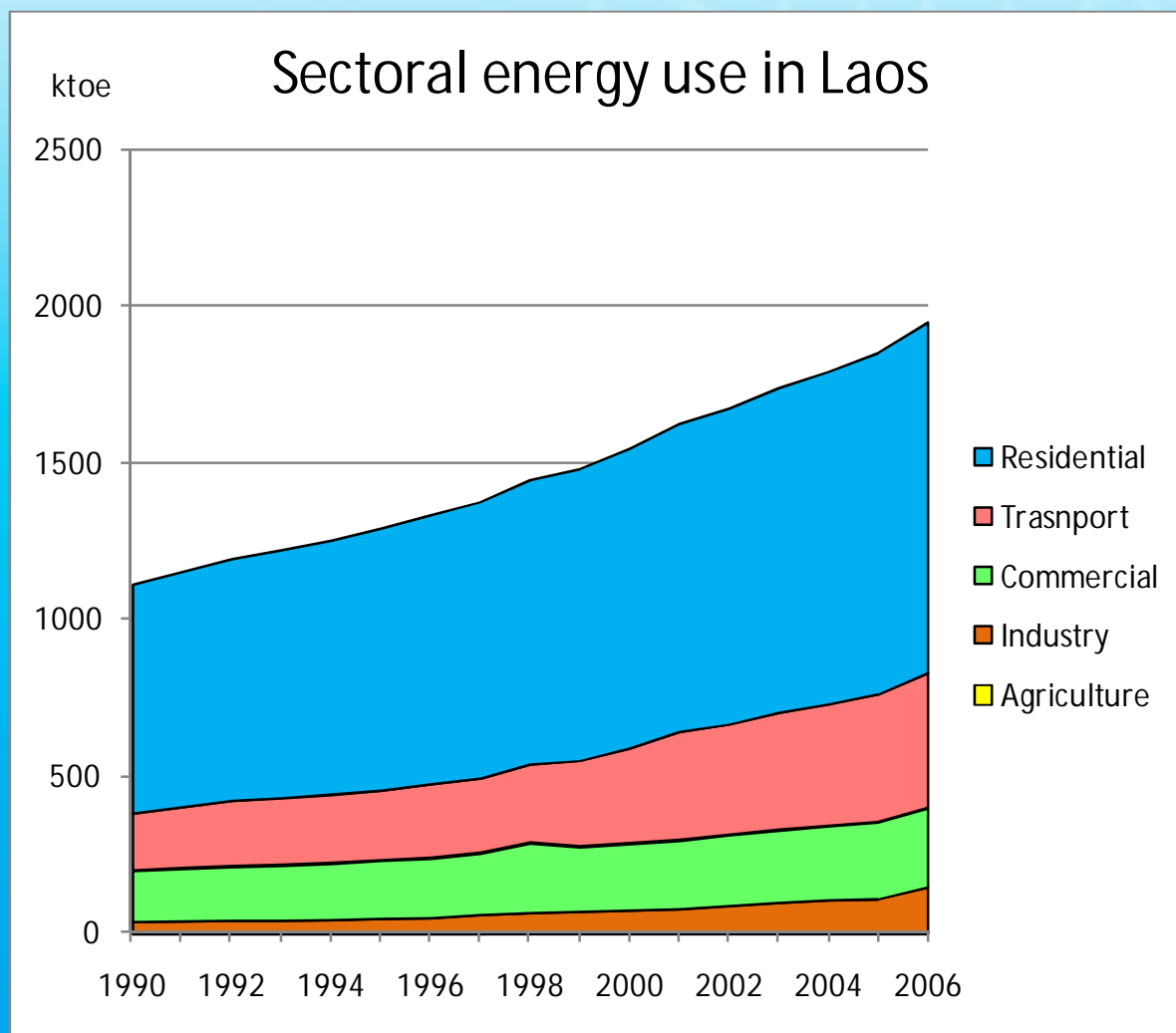
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Energy use in Lao PDR



Energy in different sectors of economy

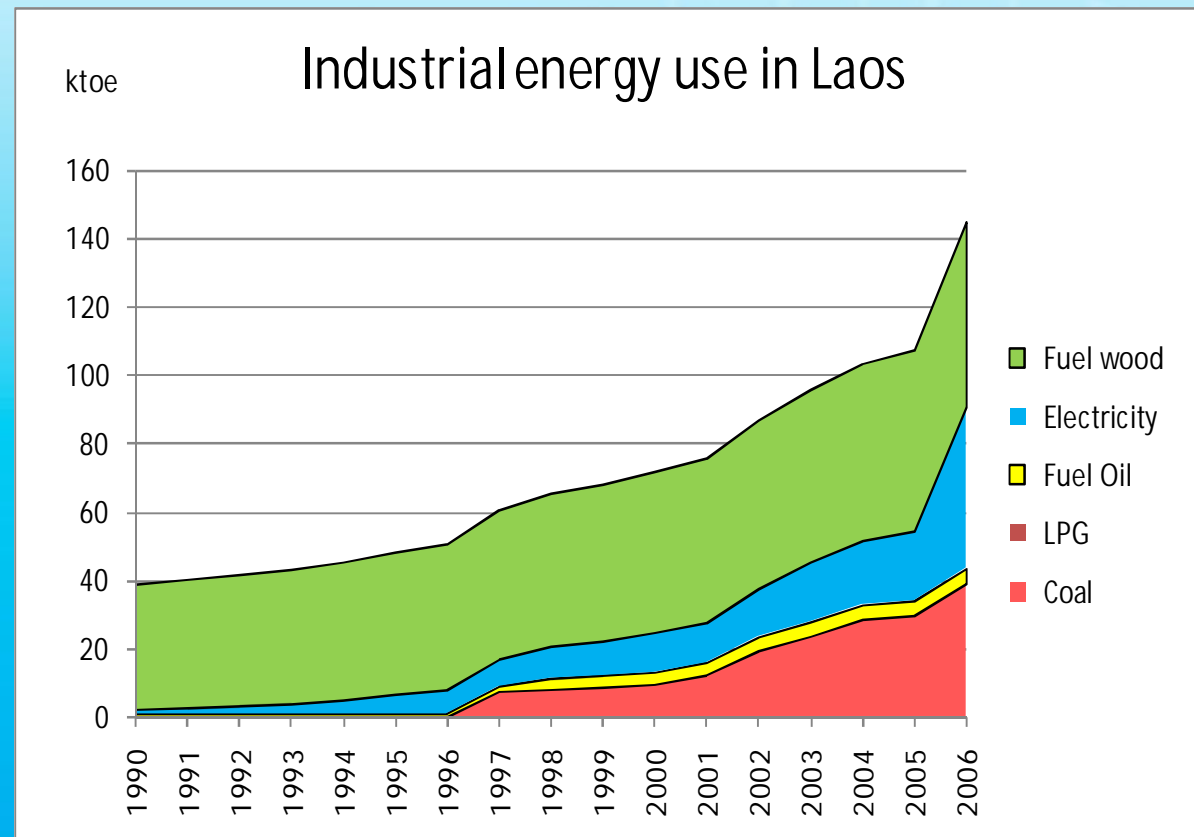
- Industry
 - Transport
 - Services
 - Agriculture
 - Household
-
- Future trends



Industrial energy use



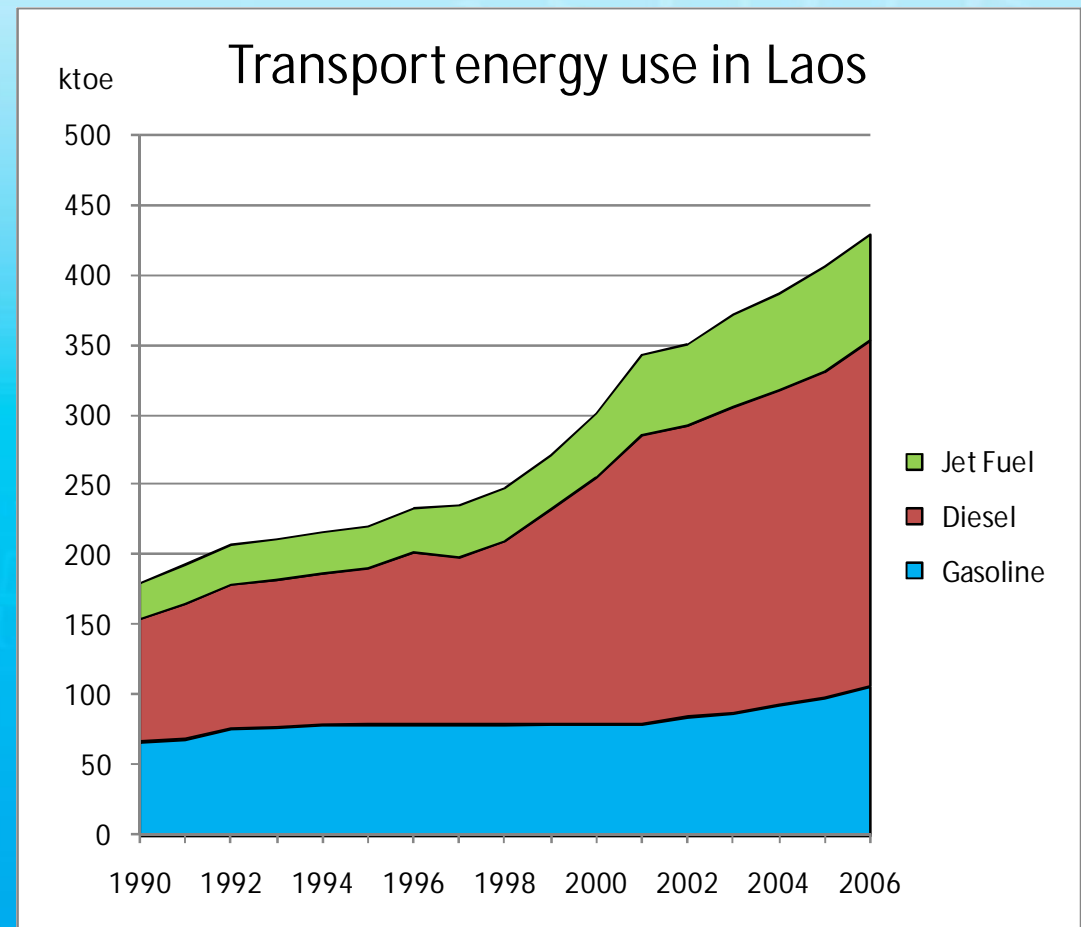
- Rapid growth in energy consumption
- What will be the role of mining and metal industry in future?
- Aluminium production?
- How do we estimate future growth?



Transport energy use



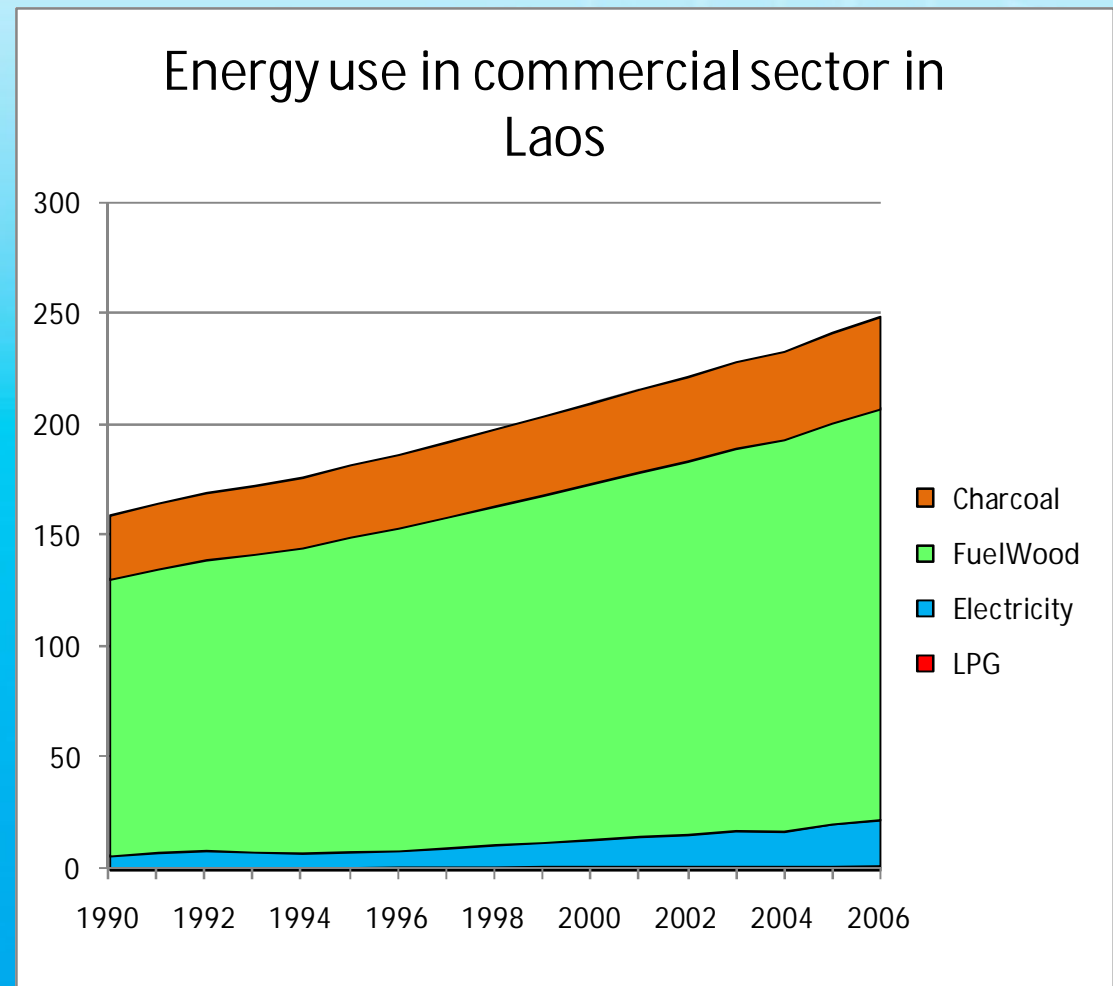
- Fast growth in number of cars and motorbikes
- Rapid growth in diesel consumption
- Continuous growth requires investments in infrastructure (roads)
- Increasing demand and oil price increase will rapidly increase import bill
- What is the potential for biofuels?
- When will the electric cars make a breakthrough?



Service sector energy use



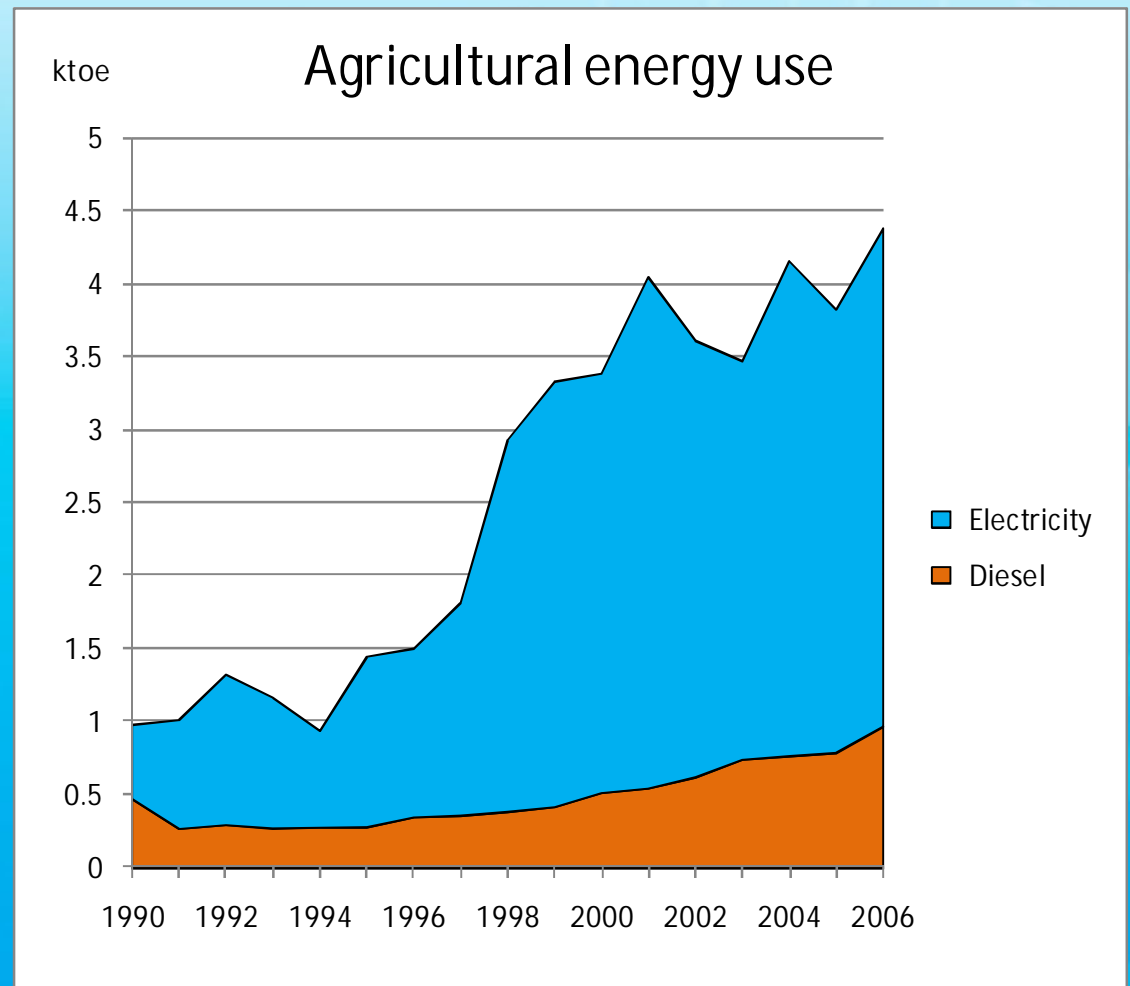
- With increasing tourism the energy use will grow, especially electricity
- Fuelwood and charcoal important in food production
- Structural change in economy in the long term will increase service sector energy use



Agriculture energy use



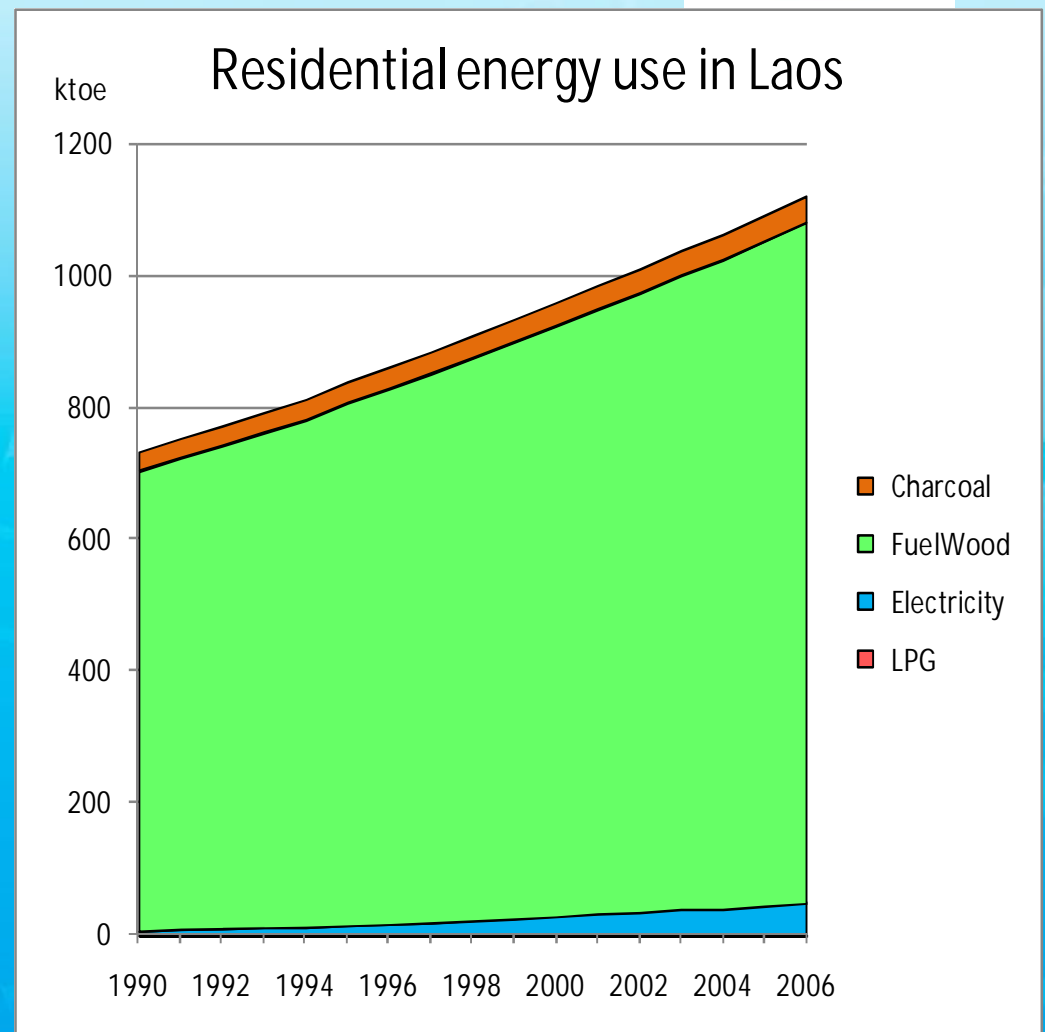
- Electricity use has increased
- Increased pumping for irrigation
- Increased mechanisation of agriculture will increase energy use
- Potential for renewables (biogas, biofuels)?



Household energy use



- Household energy use dominated by fuelwood for cooking
- Electricity consumption will increase with electrification rate and new appliances
- Urbanisation will increase LPG, charcoal and electricity use
- What is the potential of forests to supply enough of wood for energy and industry?



Future trends of energy use in Lao PDR



- Typical driving forces (to be discussed in the work groups)
 - Population growth
 - Migration (urbanisation)
 - Economic growth
 - Industrialisation
 - Increased mobility (Transport)

Trends in energy use

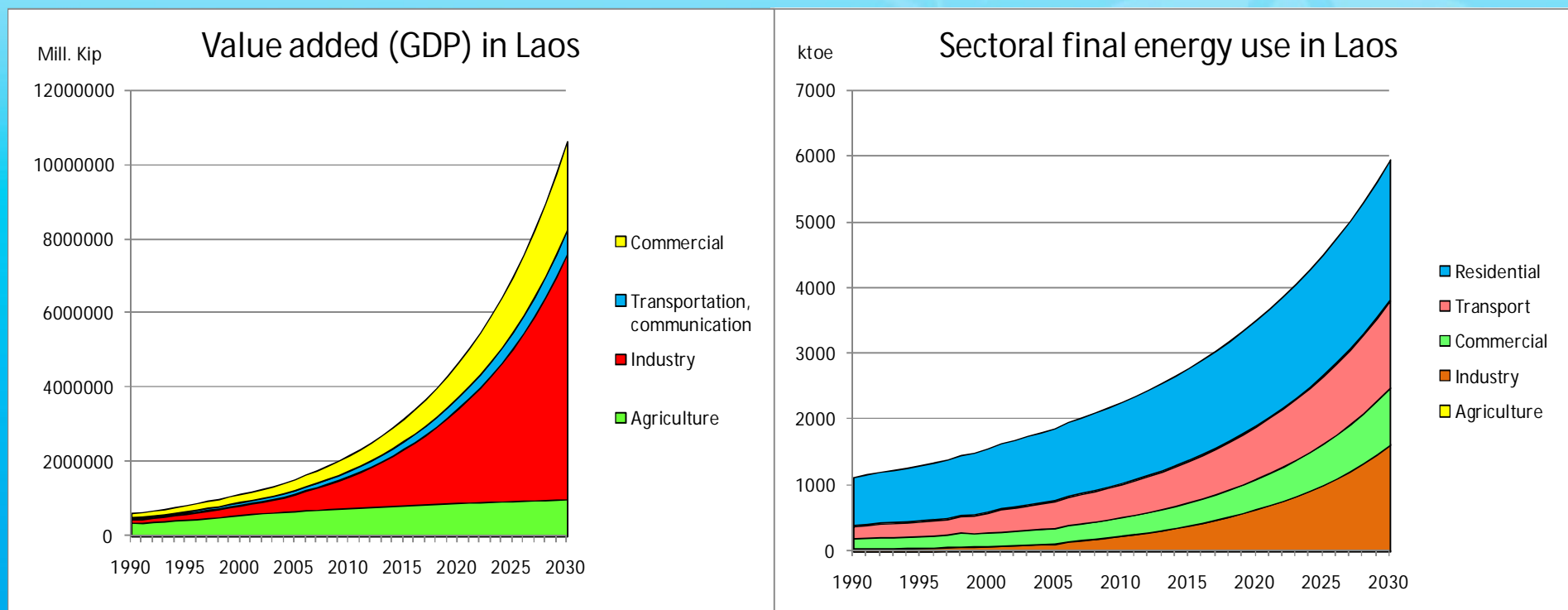


- To be discussed in the work groups
- Shift from fuelwood use to commercial fuels and electricity as a result of urbanisation and electrification of villages
- Shift from gasoline based cars to electric cars (charging based on hydro power potential and new automobile technology)
- Etc.

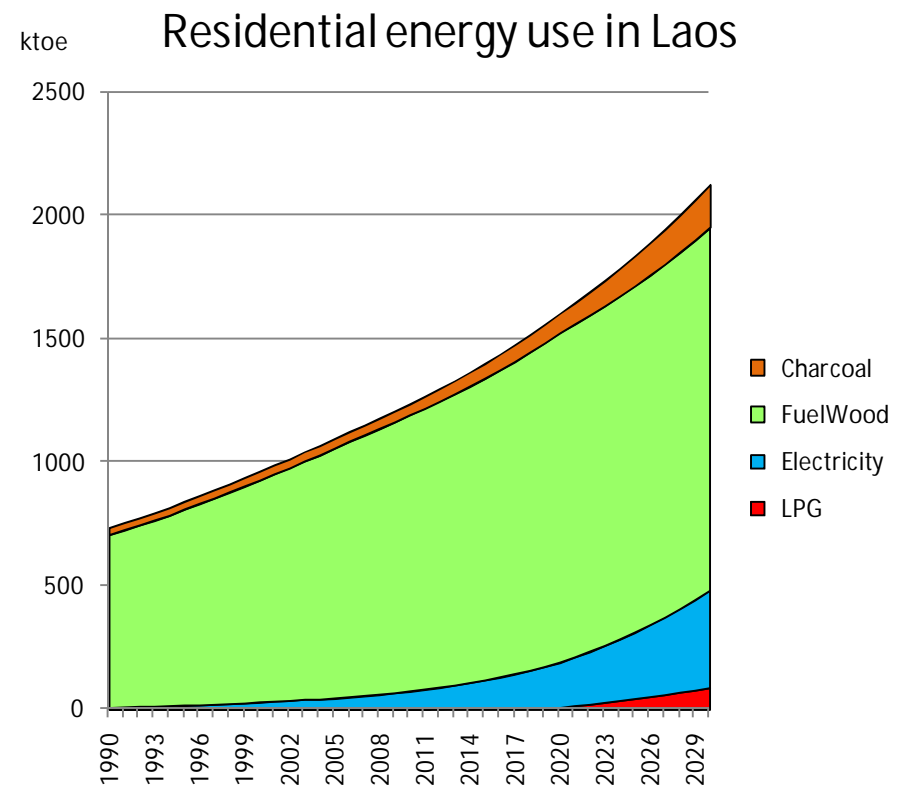
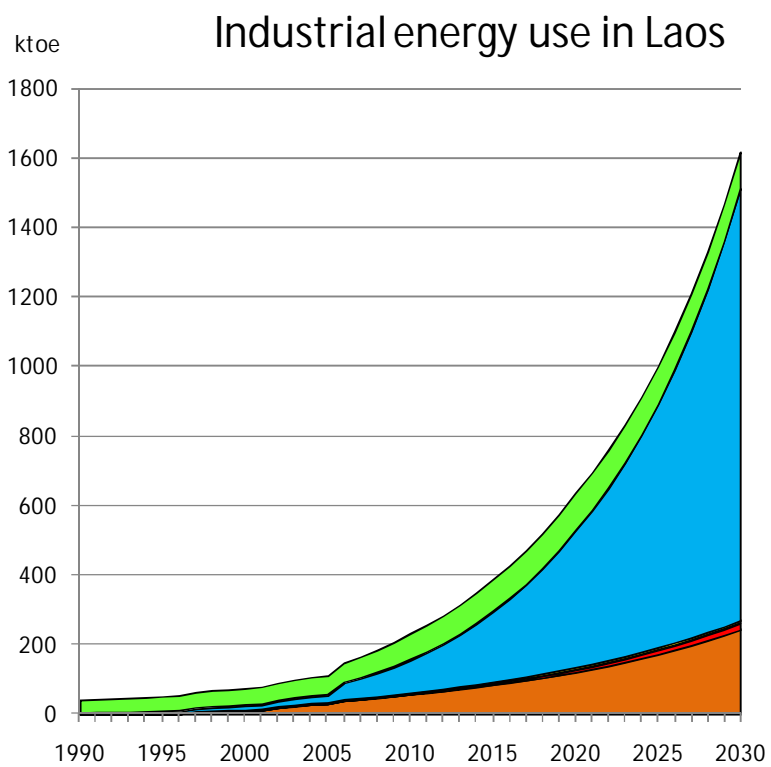
Future trends



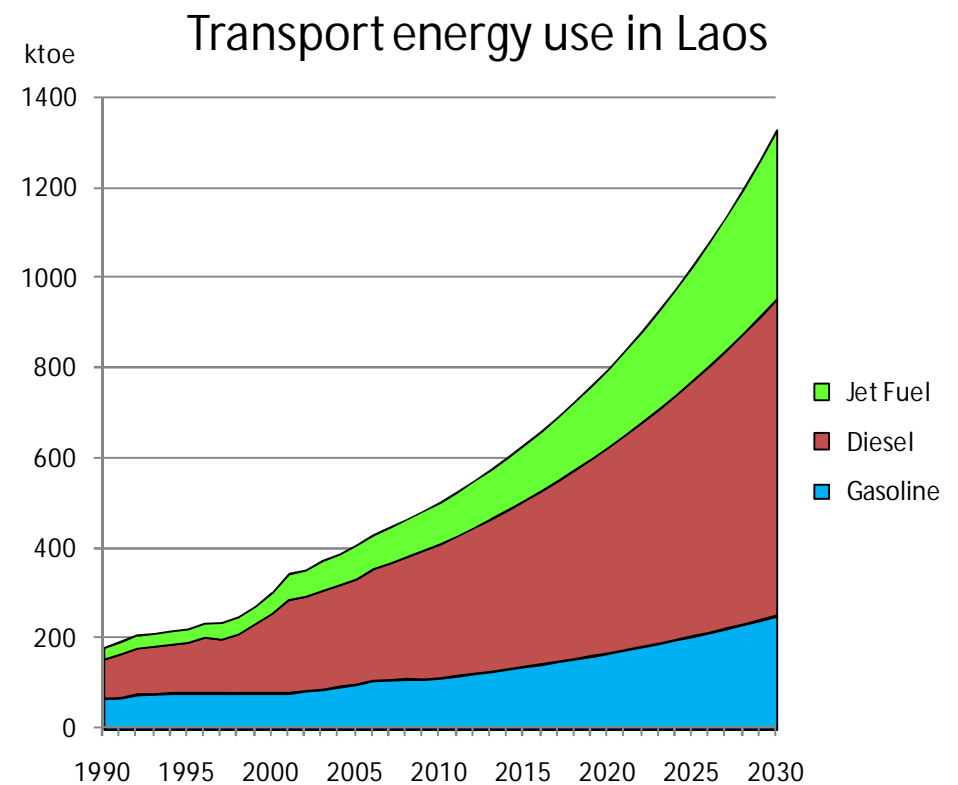
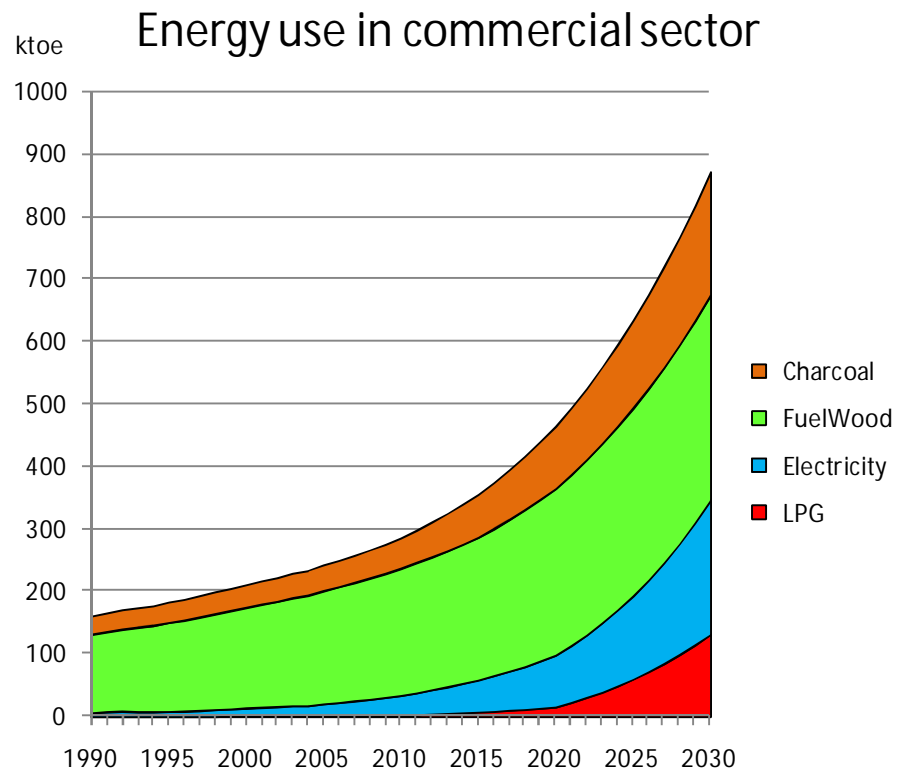
- Figures from LaoLinda model



Future trends



Future trends





Thank you

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