

# Serbia

## Homework 3

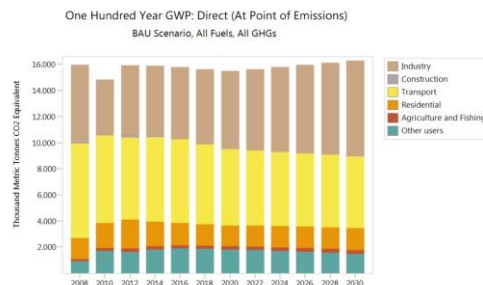
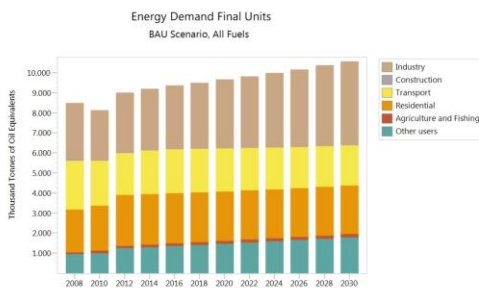
### Data sources

- Official Gazete of Republic of Serbia
- Statistical Yearbooks
- Technical reports of EPS
- Energy strategy of Republic of Serbia (draft)

# Scope of work

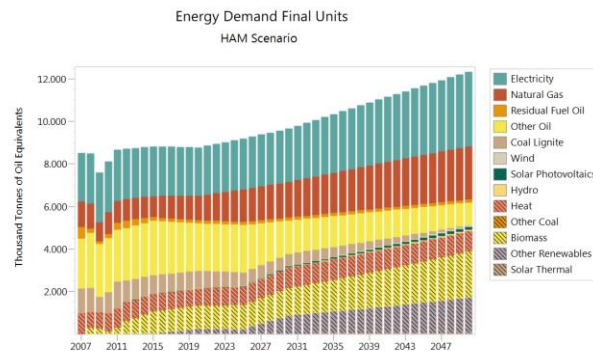
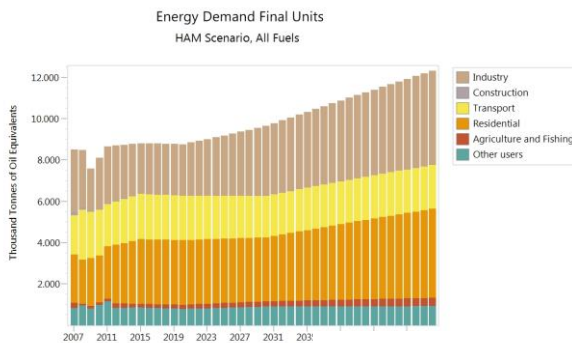
- Demand sector  
BAU and HAM scenario
- Transformation sector – HAM scenario

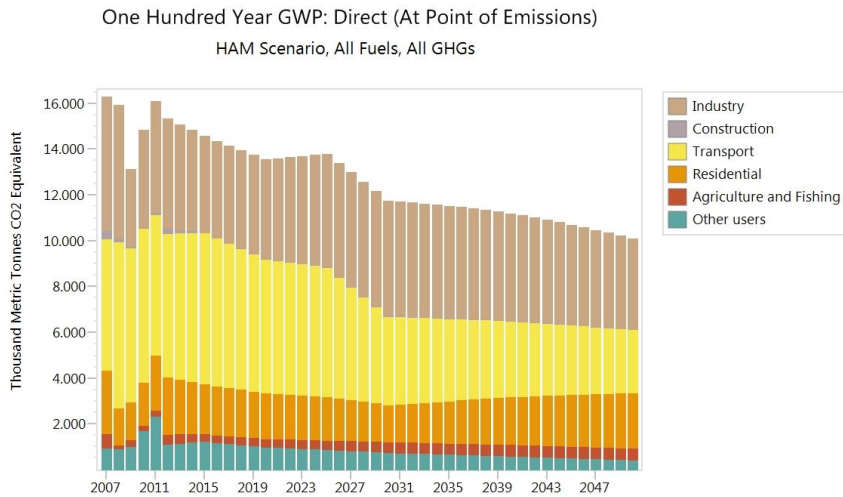
## Demand sector - BAU



## HAM scenario – demand sector

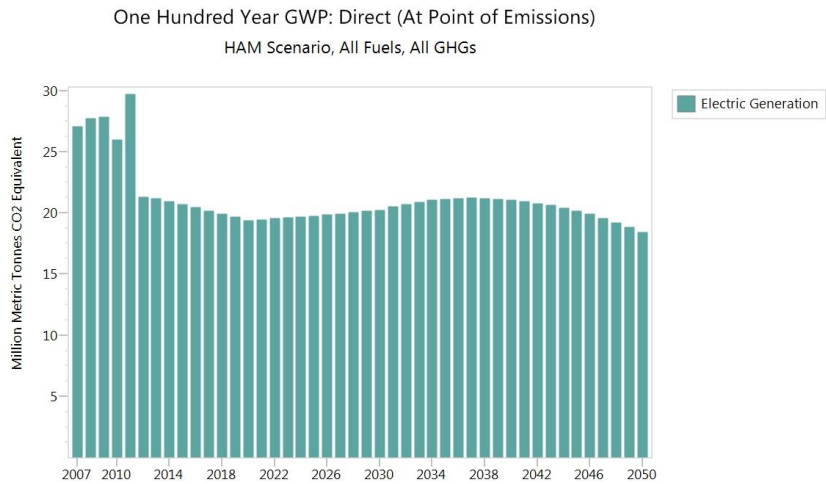
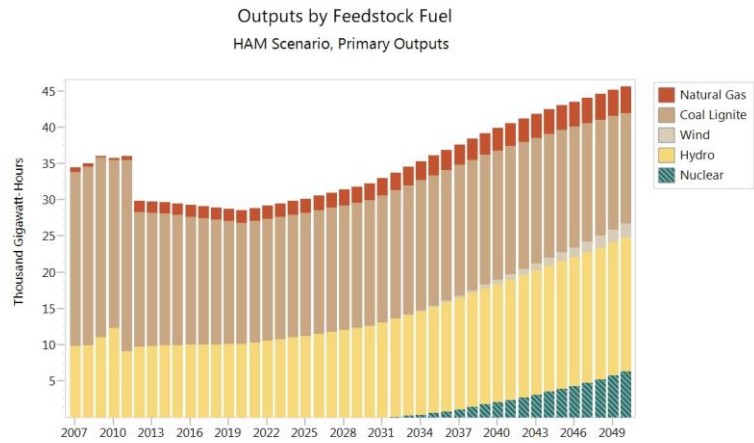
- Increase in energy demand from 2030. to 2050. by 20%
- Consumption of coal 0% in 2050.
- Decrease in consumption of oil products
- Increase in consumption of natural gas, biomass and renewable energy sources



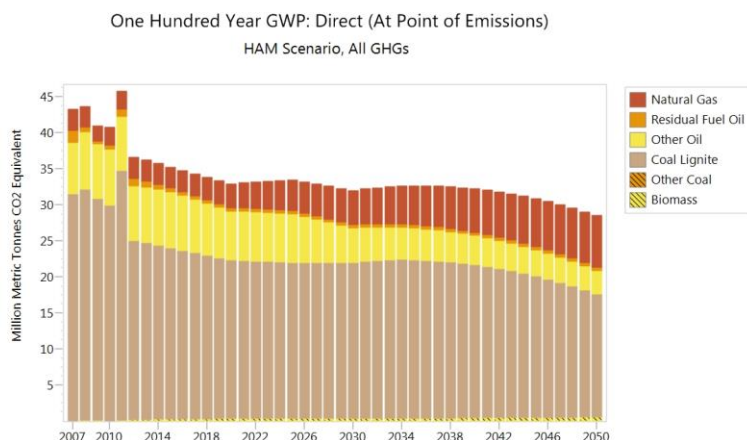


## HAM scenario – transformation sector

- Decrease in coal power plants from 4500 MWeI to 2000 MWeI
- Increase in hydro power plants from 2835 to 3100 MWeI
- Decrease in old gas power plants to 0 MWeI
- Increase in wind capacities from 0 to 600 MWeI
- New gas power plant 600 MWeI
- Nuclear power plant capacities of 2000 MWeI up to 2050.



# GHG emissions – demand and transformation sector



## Cost benefit summary

Cumulative Costs & Benefits: 2007-2050. Relative to Scenario: BAU.  
Discounted at 5,0% to year 2009. Units: Million 2009 U.S. Dollar

	HAM
<b>Demand</b>	<b>-1.890,2</b>
Industry	-
Construction	-
Transport	-
Residential	-1.890,2
Agriculture and Fishing	-
Other users	-
<b>Transformation</b>	<b>-109,2</b>
Distribution_Losses	-
Own Use	-
Electric Generation	-109,2
<b>Resources</b>	<b>7.379,2</b>
Production	7.379,2
Imports	-
Exports	-
Unmet Requirements	-
<b>Environmental Externalities</b>	<b>-</b>
<b>Non Energy Sector Costs</b>	<b>-</b>
<b>Net Present Value</b>	<b>5.379,8</b>
GHG Savings (Mill Tonnes CO2e)	384,8
Cost of Avoiding GHGs (US Dollar/Tonne CO2e)	14,0

# Appendix

