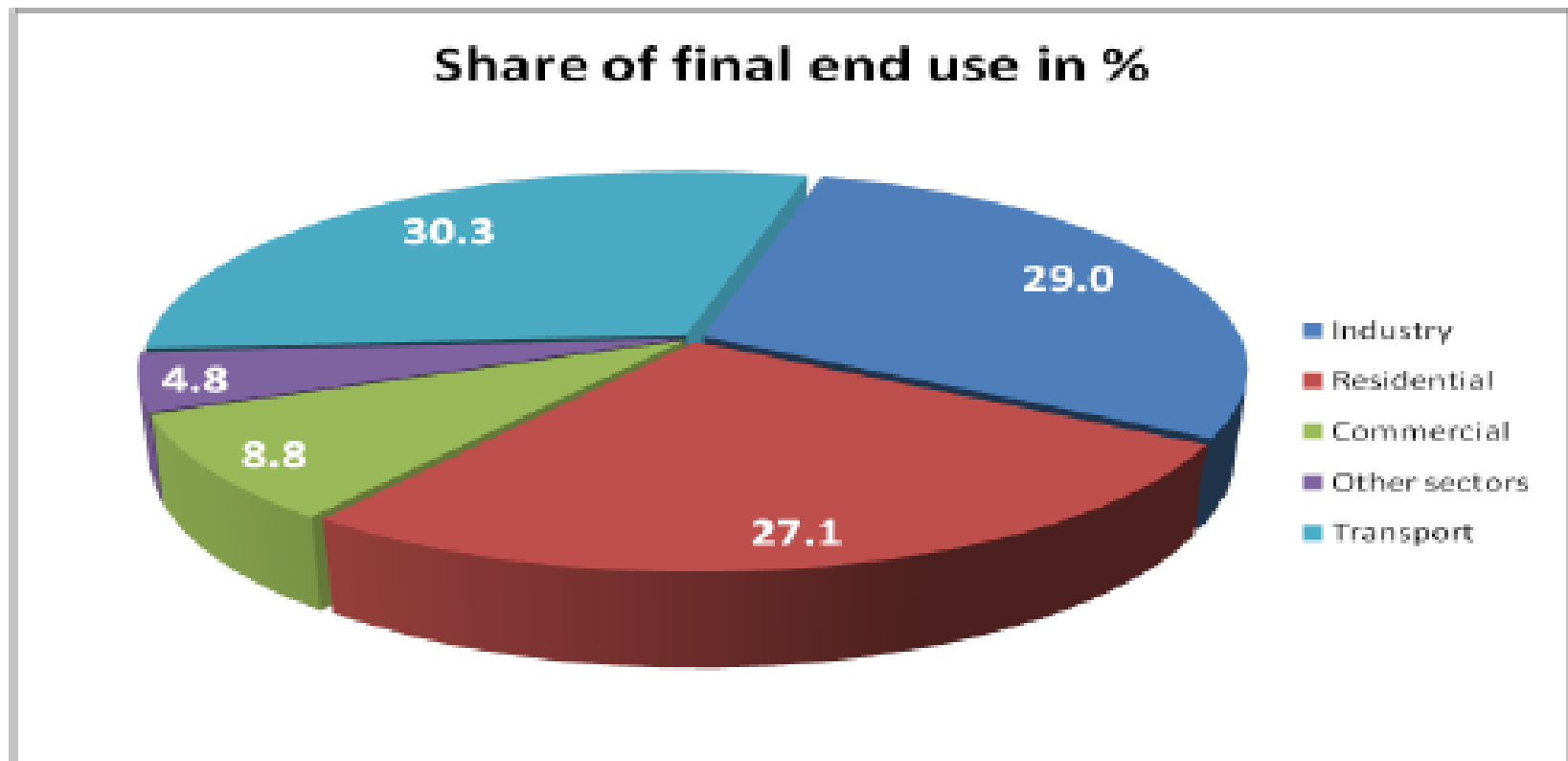


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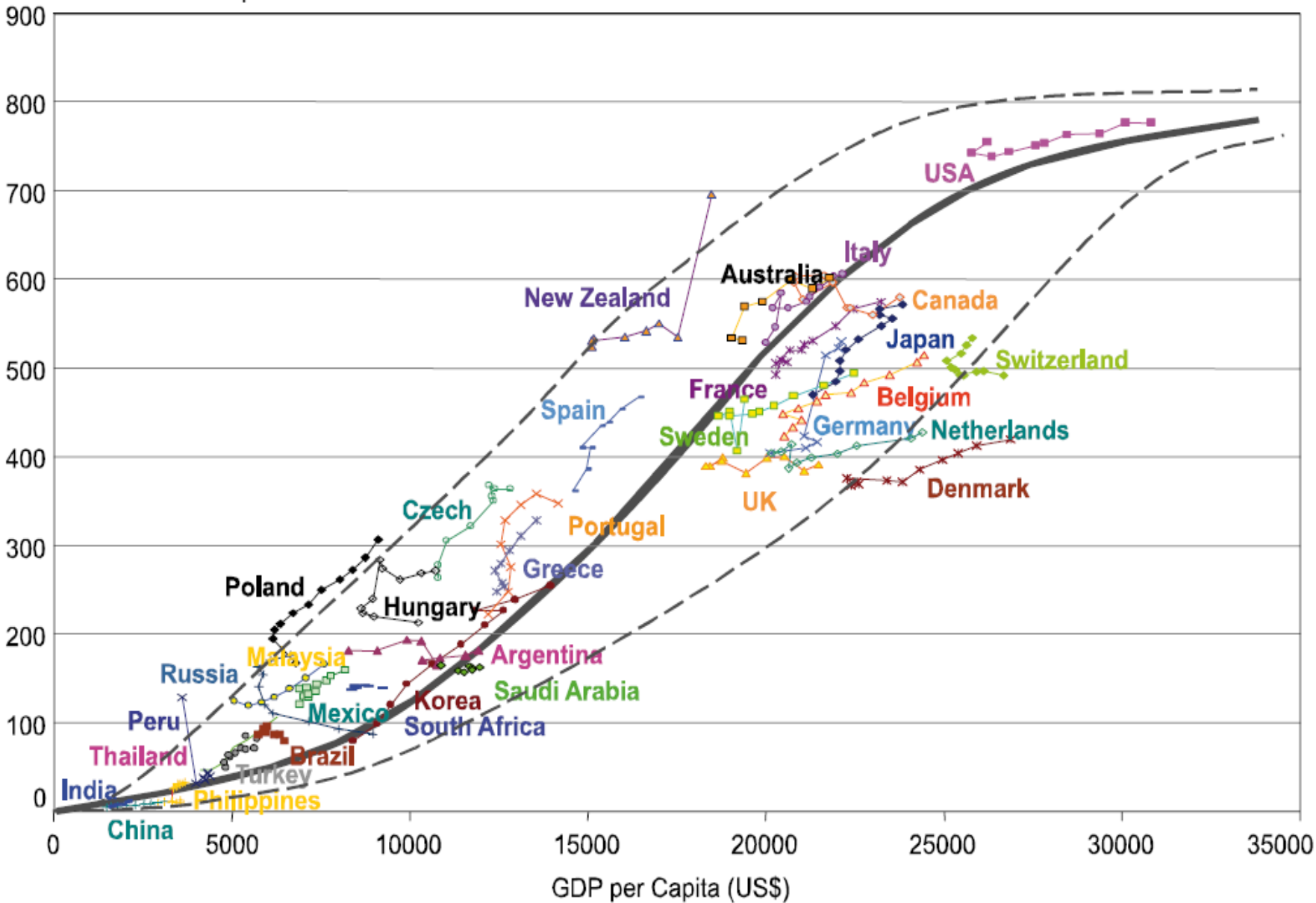
PROF. JOSÉ GOLDEMBERG

**Figure 1. Energy consumption in different sectors.**

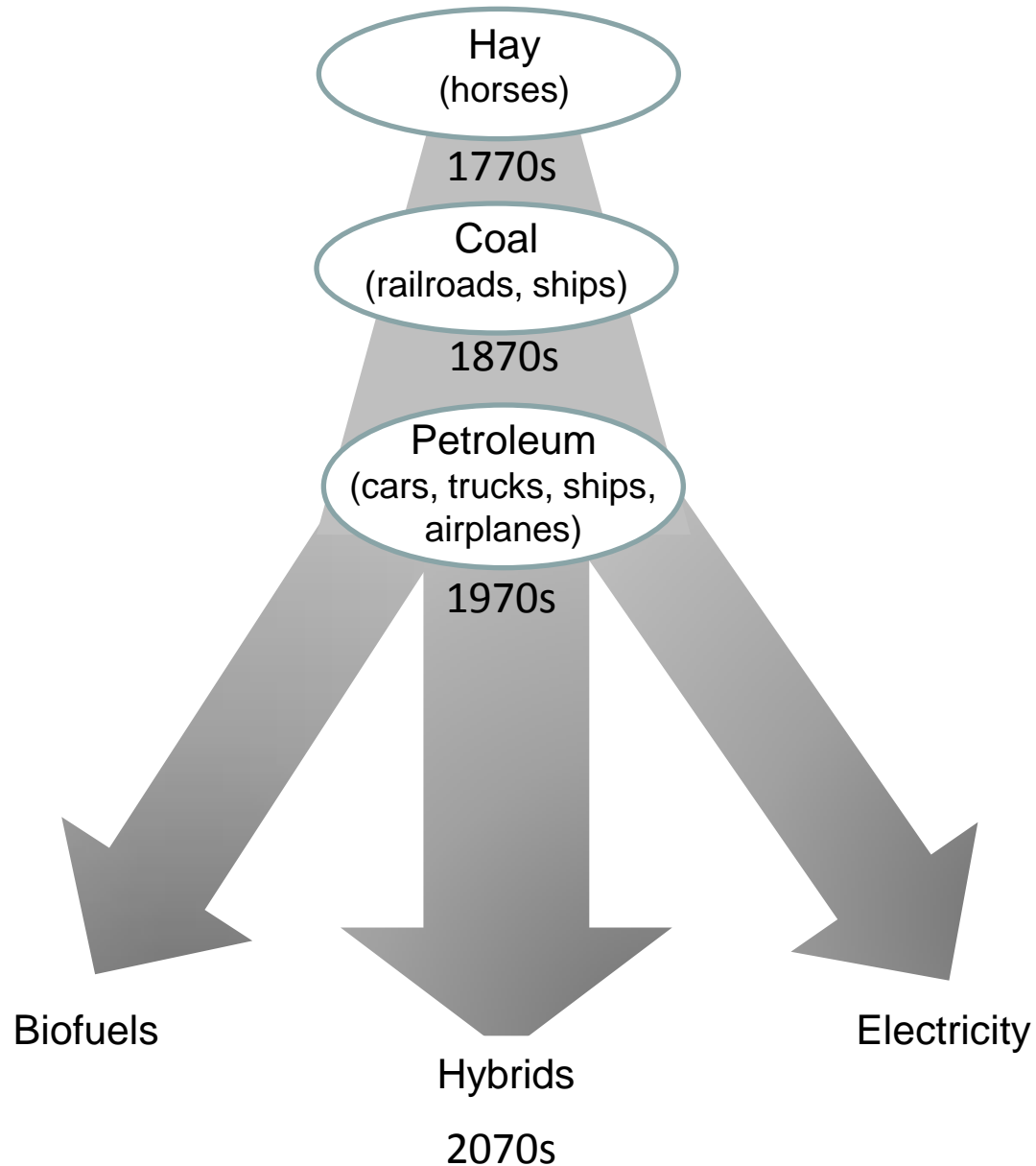


According to the IEA statistics for energy balance for 2004-2005, (2007 edition), the total final energy use globally accounts for 7209 Mtoe (Mega Tonnes Oil Equivalents). The residential and commercial sectors account for respectively 1951 Mtoe and 638 Mtoe, which is almost 40 % of the final energy use in the World<sup>1</sup>. The major part of this consumption is in buildings.

Vehicle Ownership/1000 Persons



# The Evolution of Transportation



## Present production and potential demand for ethanol

Country/region	Present gasoline consumption (billion liters per year) 2007	Present ethanol production (billion liters per year) 2008	Potential demand resulting from present mandates up to 2020/22 per year
US	530	34	136
European Union	148	2.3	8.51
China	54	1.9	5.4
Japan	60	0.1	1.8
Canada	39	0.9	1.95
United Kingdom	26	0.03	1.3
Australia	20	0.075	2.0
Brazil	25.2	27	50
South Africa	11.3	0.12	0.9
India	13.6	0.3	0.68
Thailand	7.2	0.3	0.7
Argentina	5.0	0.2	0.25
The Philippines	5.1	0.08	0.26
Total	943.2	67.3	209.75