



Potentials of Energy Conservation in Industry Sector of Iran

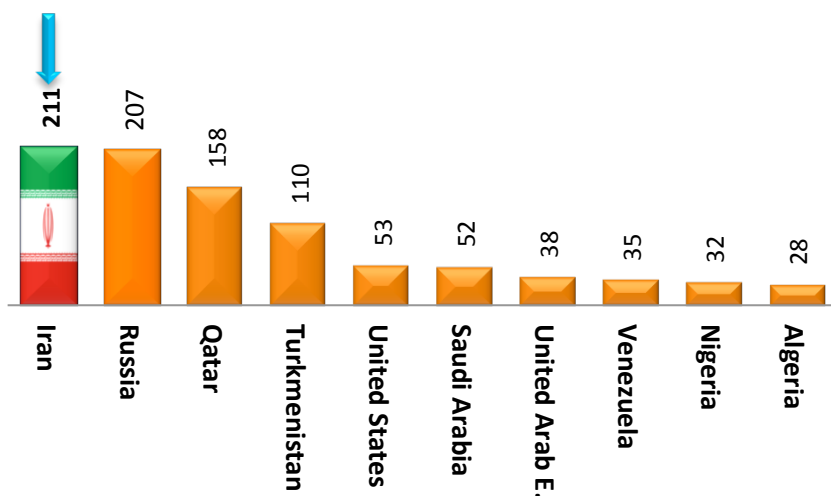
F. Sojdei - N. Sayfi - M. Eslami

Dana Energy Services

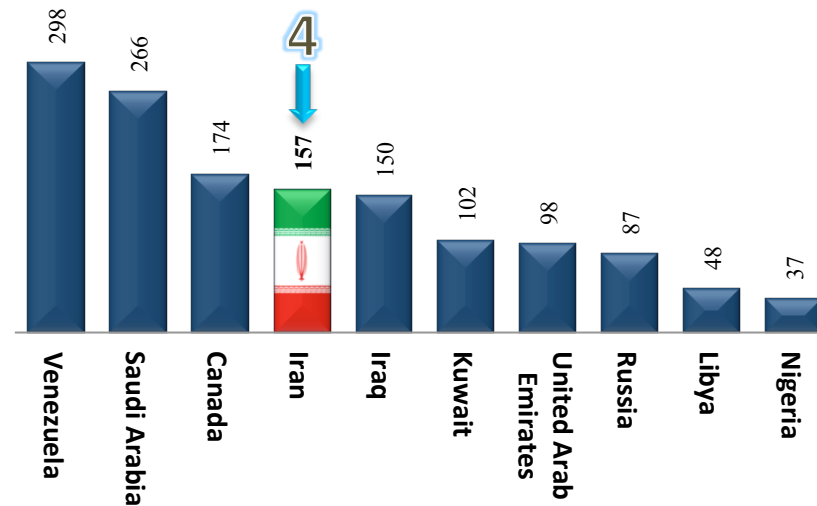
eceee 2014 Industrial Summer Study

Fossil Energy Resources

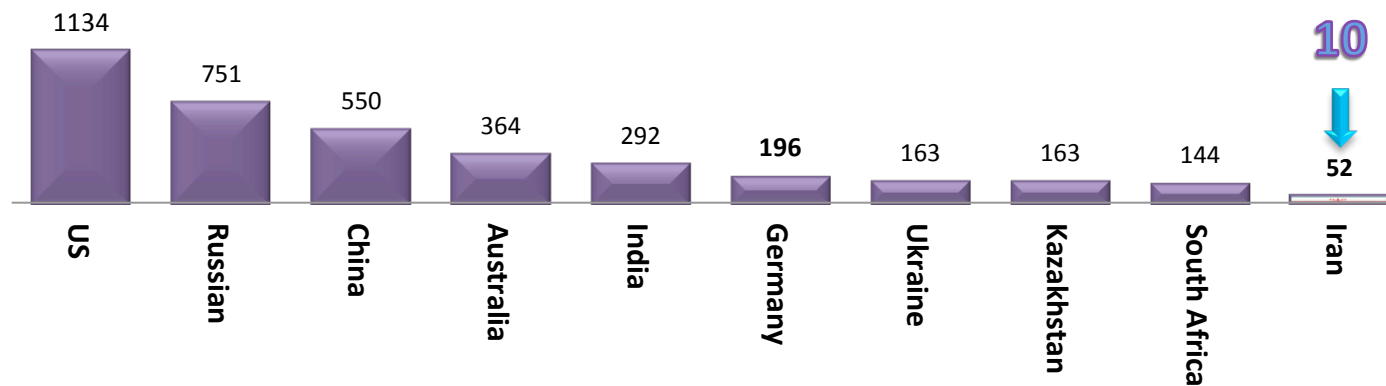
1 Iran Natural Gas Resource 2012 (1000 Mboe)



4 Iran Crude Oil Resources 2012 (1000 Mboe)

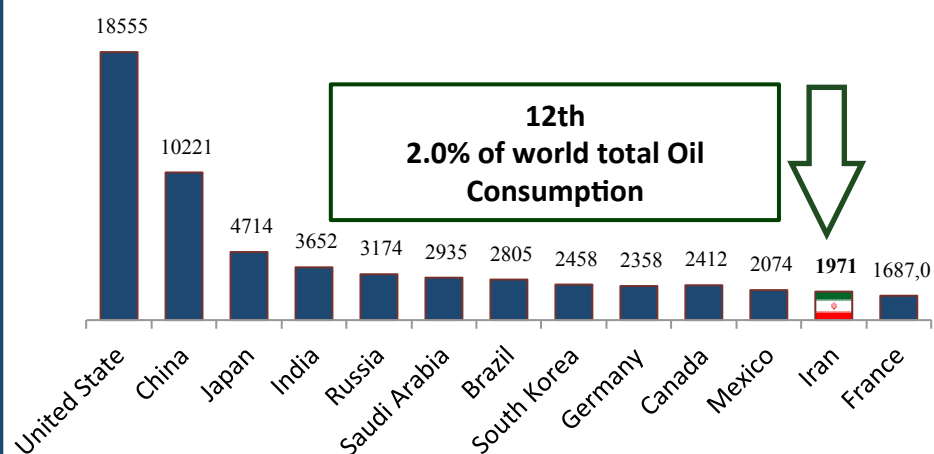


10 Iran Coal Resources 2012 (1000 Mboe)

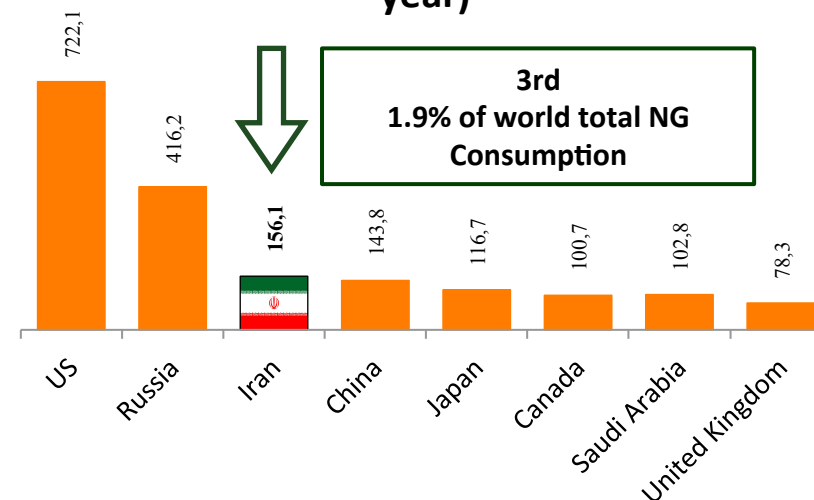


Energy Consumption

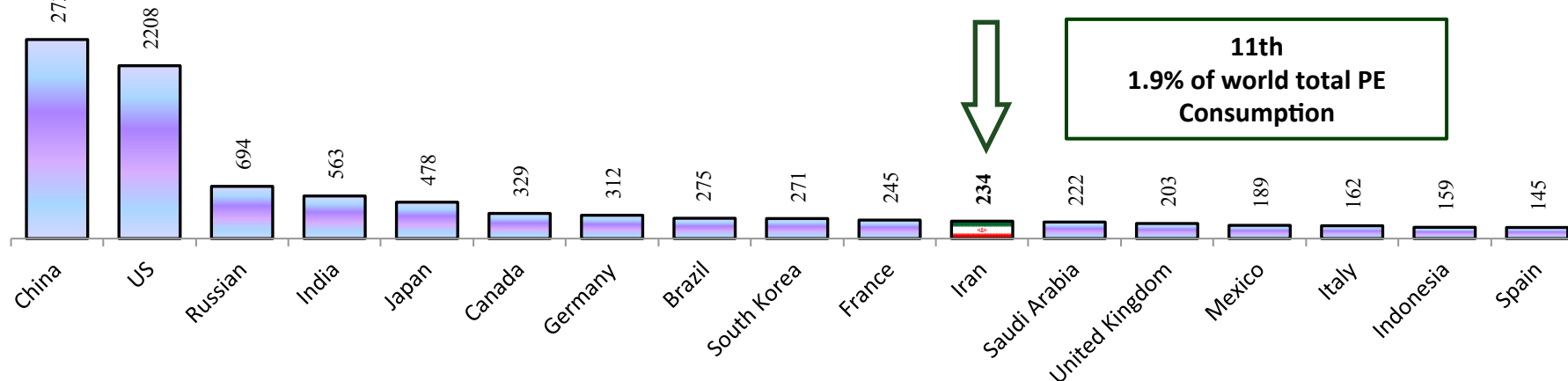
Iran Crude Oil Consumption (bbl/day)



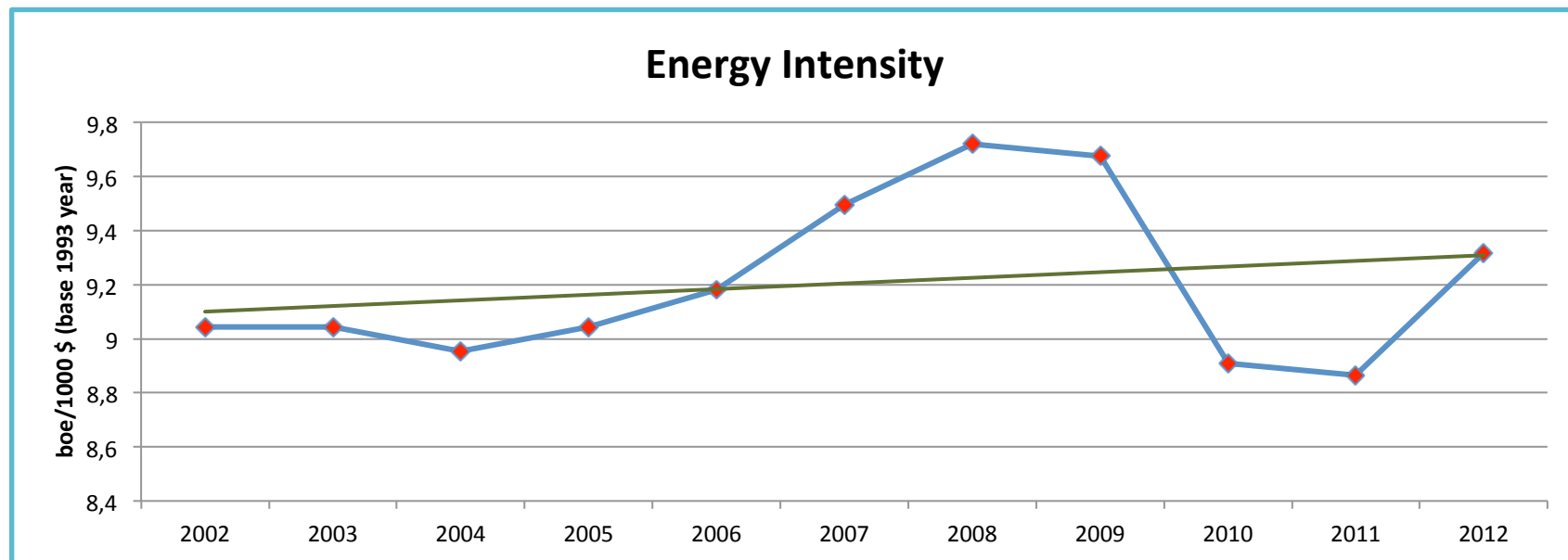
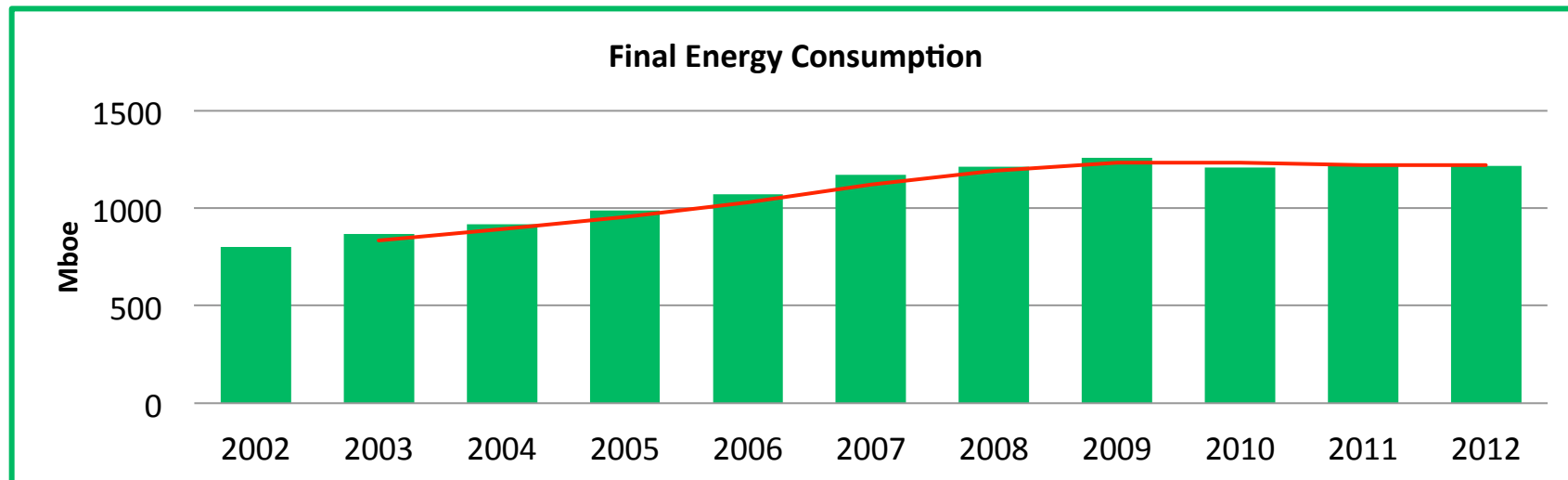
Iran Natural Gas Consumption (bcm/year)



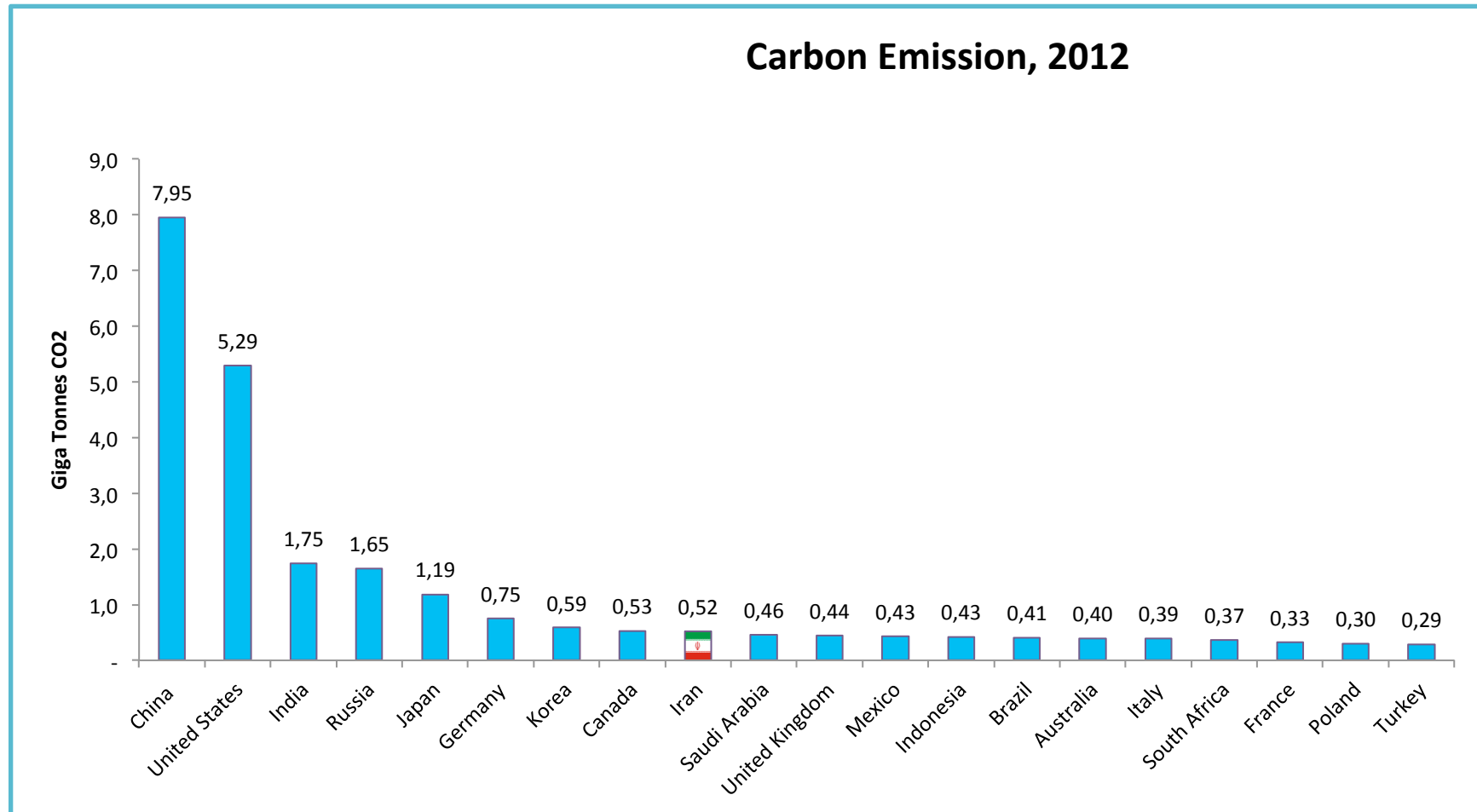
Primary Energy Consumption (Mtoe)



What is the trends?



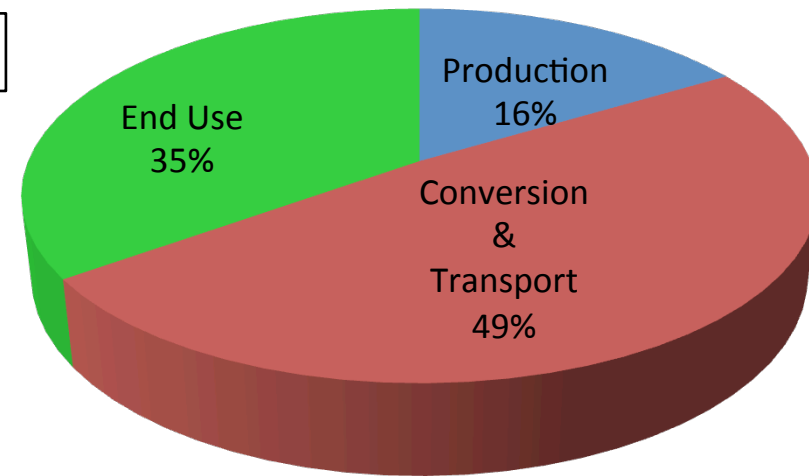
Carbon Emission is a problem?



Losses in Iran energy system

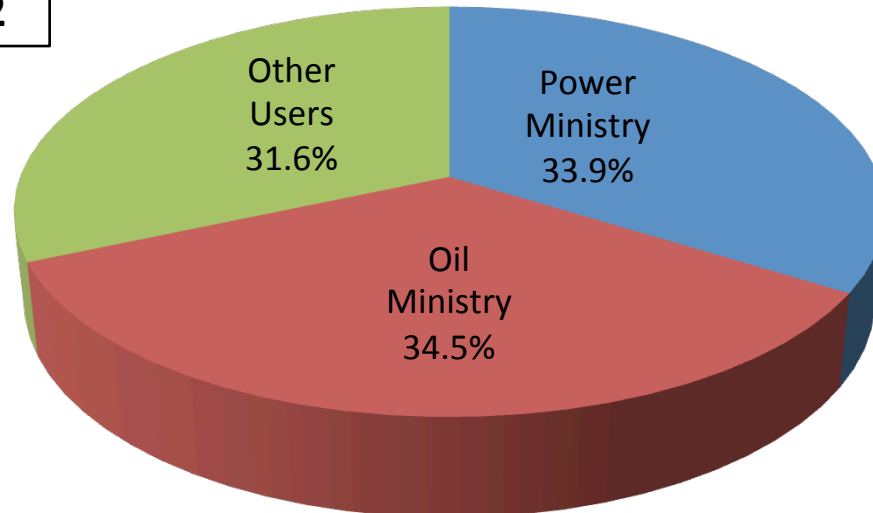
Losses Share in each section

1

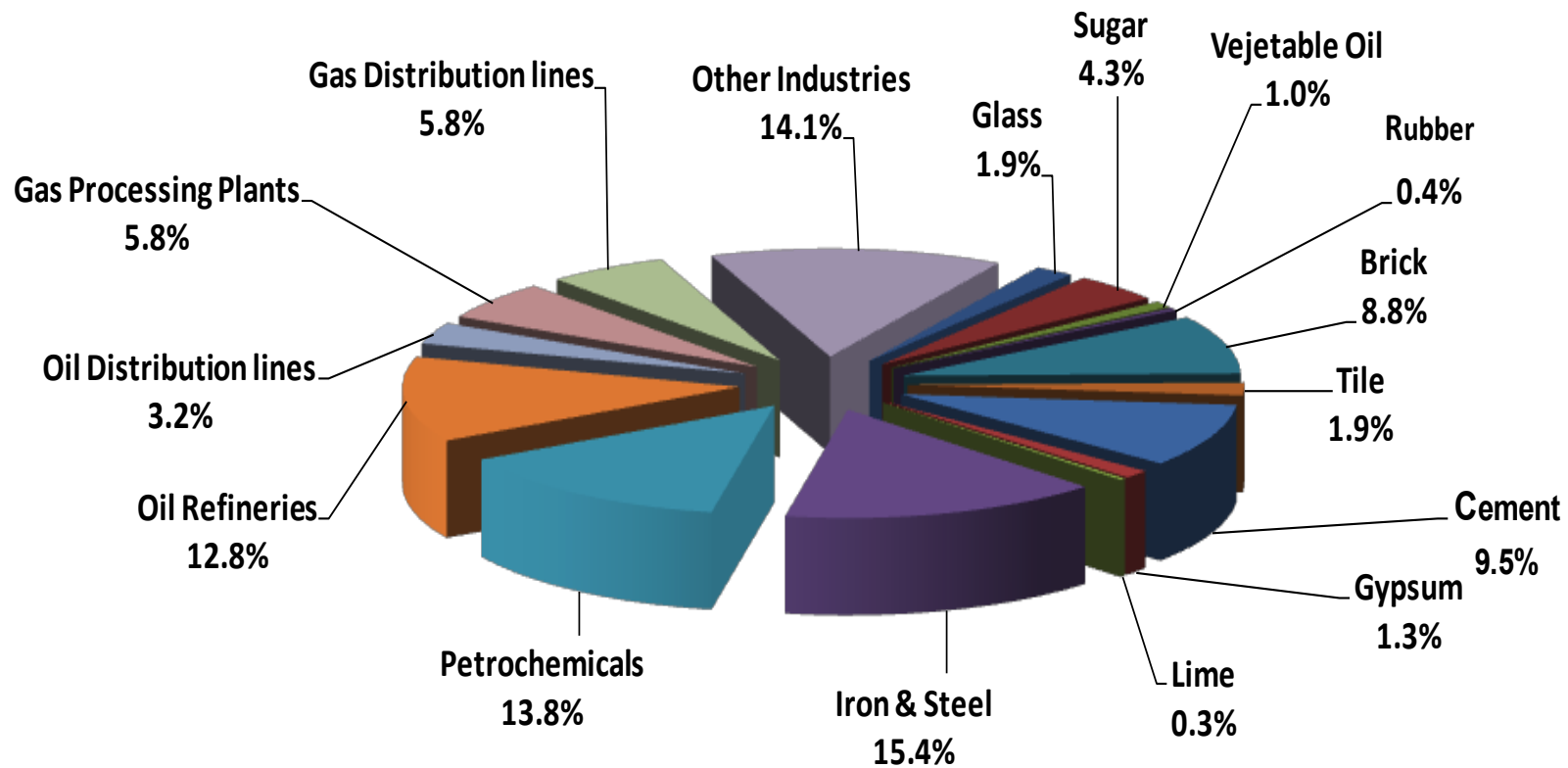


Losses Share in each organization

2



Share of each industry in Iran energy use



Power Plants are excluded

Potential energy saving based on industrial standard development

Industry	Potential energy saving (MBOE/Year)	CO2 Reduction on MT/ Year
Non- polymeric petrochemical complexes	9.02	3.12
petrochemical complexes (new plants)	33.22	11.5
Gas distribution line	6.16	2.1

Industry	Potential energy saving (MBOE/Year)	CO2 Reduction on MT/ Year
Cement (existing)	2.2	0.8
Cement (new)	2.25	0.8
Brick	3.24	1.1

Industry	Potential energy saving (MBOE/Year)	CO2 Reduction MT/ Year
Power plants (new plants)	49.13	17
CCHP	6.42	2.23

Industry	Potential energy saving (MBOE/Year)	CO2 Reduction MT/ Year
Iron & Steel (existing)	6.77	2.3
Iron & Steel (new)	6.33	2.2

Industry	Potential energy saving (MBOE/Year)	CO2 Reduction MT/ Year
Total	158.92	55.07

Industry	Potential energy saving (MBOE/Year)	CO2 Reduction MT/ Year
Oil refineries (9 existing)	10.92	3.8
Oil refineries (new)	9.12	3.2
Gas refineries (12 existing)	6.16	2.1

159 million barrels of crude oil equivalent
per year
(about 0.44 MBOE per day)

Conclusion

With very low investment in comparison
to most countries.

But...

barriers

low energy prices

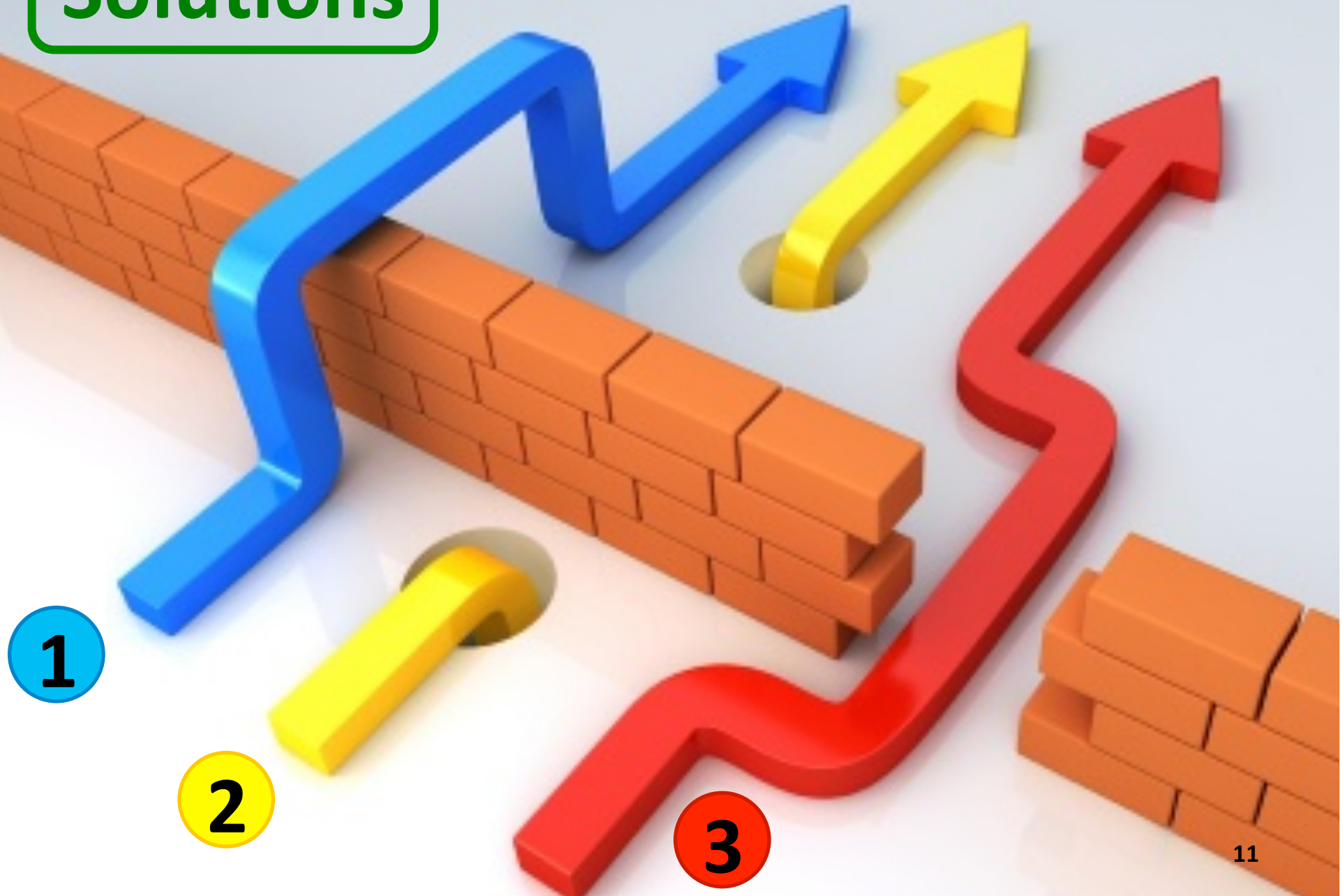
financial constraints

Lack of EE Technologies

Need Capacity building



Solutions



Iran
Energy
Efficiency



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