

\*independent Attorney at Law in cooperation with Karanović & Partners

# Energy and Natural Resources Industry Group

- One of 11 Karanovic industry groups
- Covering SEE region
- Managed and coordinated from Belgrade



# SBERINCETION

# Sustainable energy system



—Demand for electricity is constantly increasing

- —To meet demand, the policies to ensure:
  - Greener coal
  - Aggressive deployment of renewables (focus on wind)
  - Efficiency

Steps have been taken into a right direction, but acceleration is needed

# Greener Coal

### Carbon and TPPs

—Revitalization and phasing out

— Shortfall of some 6,000 GWh annually

— The Strategy envisages replacement with new conventional (Kostolac B3 construction already commenced)

# Carbon and TPPs

- -Revenues not enough to cover investments (only for revitalization some EUR 634 million planned)
- Incompatible state aid?
- Subsidies
- Carbon prices
- Other externalities

51 Sb Antimony	4 Be Beryllium	Borates	6 C Carbon
27 Co Cobalt	Coking coal	Fluorspar	31 Gallium
32 Ge Germanium	49 <b>In</b> Indium	Magnesite	12 Mg Magnesium
Natural graphite	41 <b>Nb</b> Niobium	Phosphate rock	Platinum Group Metals
Heavy Rare Earth Elements	Light Rare Earth Elements	14 Silicium (Silicon metal)	74 W Tungsten (Wolframium )

# Aggressive Renewables



—The total installed capacity of RES is approx. 3,500 MW (primarily large hydro)

-Private RES (small hydropower, wind, solar, etc.) approx. 530 MW of installed capacity

Only in wind more than 500MW in development waiting for new scheme





—Stability

—Bankability

-Competitiveness

# How to deal with challenges

Intermittency

—Distributed generation

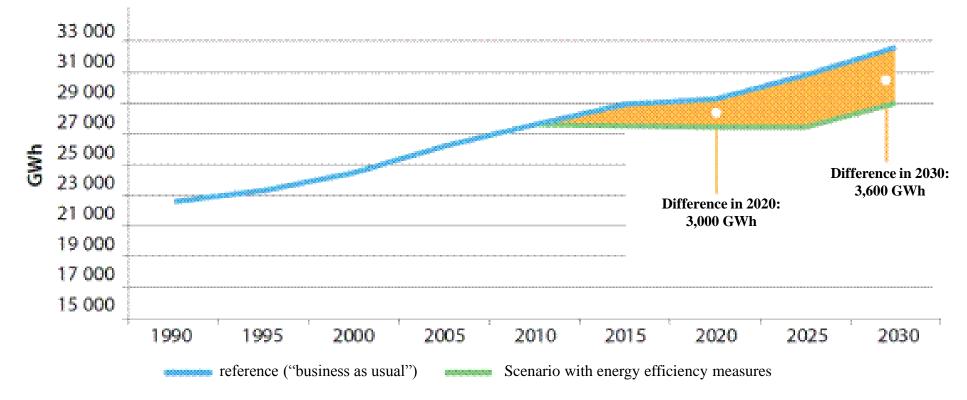
-Gas-fired plants

—Smart grids





### Efficiency is a new source



Source: Energy Development Strategy of the Republic of Serbia

# Key areas to boost efficiency

—Continue improvement of regulatory framework

—ESCO

—Public procurement

—Easy access to financing



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