Programme objective

Protection, development and utilization of Sava river from Slovenian border to Sisak
Programme stakeholders

Ministry of economy
Ministry of regional development and EU funds
Ministry of foreign and european affairs
Ministry of construction and physical planning
Ministry of environmental and nature protection
Ministry of maritime affairs, transport and infrastructure
Ministry of agriculture
Center for monitoring business activities in the energy sector and investments
City of Zagreb
Zagreb county
Sisak-moslavina county
Croatian waters
HEP inc.
Programme scope

- 130 km of riverstream
- 2000 km² of impact area
- Over ¼ of Croatian population
- 40% of Croatian GDP in the area
- Program cost – 1.4 billion euros
Multicriterial analysis

Evaluated criteria:
1. Flood defense
2. Groundwater protection
3. Navigability
4. Hydropower
5. Transport
6. Tourism and recreation
7. Urban regeneration
8. Agriculture
9. Downstream effects
10. Environment
11. Social involvement
12. Financial results
13. Climate changes
Energy production

150 MW of installed capacity

25% of capitals yearly consumption.

PRODUCTION IN CENTER OF CONSUMPTION
Spatial potential in Zagreb
Traffic potentials
Class IV river harbour in Velika Gorica
Groundwater and flood defense

✓ Groundwater levels stabilization
✓ Positive effect on water wells
✓ Long term solution for water supply
✓ Increase of flood defense level in the area
✓ Irrigation
Hydropower sustainability assessment protocol

1. Needs assessment
2. Option analysis
3. Policies and plans
4. Political risks
5. Institutional capacity
6. Technical risks
7. Social risks
8. Environmental risks
9. Economical and financial risks
SEA and feasibility study

1,5 million euro grant

SEA in regards to:
• Croatian legislation
• EC SEA Directive
• EC legislation (especially taking into consideration Directives on birds and habitats)
• Natura 2000
• EBRD Environmental and social policy

Feasibility study with following elements:
• MCA options assessment
• Detailed technical specifications of preferred option
• Financial model for the programme and all objects
• Project implementation plan
• Procurement plan
HPP Podsused (201?)

- part of the EU investment plan (so-called „Juncker’s plan“)
- present in local physical planning schemes
- development activities underway
HPP Podsused (201?)

- Run off hydropower plant
- Installed capacity: 43 MW
- Installed flow: 500 m³/s
- Average annual production: 170,23 GWh
- Length of the accumulation lake: 11.7 km

Total investment cost 260 million euro. (flood defense and energy elements combined)
HPP Prečko

- Run off hydropower plant
- Installed capacity: 42 MW
- Installed flow: 500 m³/s
- Average annual production: 172,41 GWh

Total investment cost 164 million euro. (flood defense, transport and energy elements combined)
4 small HPPs within Zagreb

- Small HPPs Jarun, Šanci, Petruševac and Ivanja Reka
- Installed capacity (each): 9,3 MW
- Installed flow: 3x150 m³/s
- Average annual production: 85,09 GWh

Total investment cost 213 million euro. (flood defense, traffic and energy elements combined)
HPP Sisak

- Run off hydropower plant
- Uses the hydropotential of two rivers, Sava and Kupa.
- Installed capacity: 27 MW
- Installed flow: 3x150 m³/s
- Average annual production: 85,09 GWh

Total investment cost 213 million euro. (flood defense, transport and energy elements combined)
Thank you for your attention