

Discussion Topics

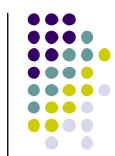
- 3 Key messages
- EU membersnip & environment
- Climate trends and projections for SEE
- Implications for investments
- Partnerships and lessons from Spain







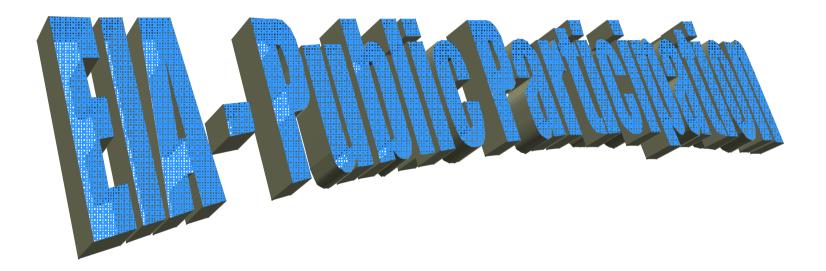




SEE Countries & the EU



EU membership & environment





Nature protection and biodiversity
Wastewater, drinking water, bathing water
Air quality: stationary & mobile sources
Waste prevention, recycling, reuse, disposal
Industrial pollution control
Chemicals and GMOs



Transposition

align national laws





Implementation

people & institutions



Compliance & Enforcement

<u>% population connected to wastewater treatment plant:</u> 0% Albania 4% BiH 23% Serbia 37% Croatia

> <u># of sanitary landfills:</u> 0 (of >12) in Albania 6 (of >100) in BiH

> > Costs to comply with EU acquis: 6 – 12 billion Euro for Croatia 34 billion Euro for Turkey: 12.7 B - drinking water 18.1 B - wastewater

Source: Regional Environmental Center; Oct 2007 on W Balkans; Turkish MoEF

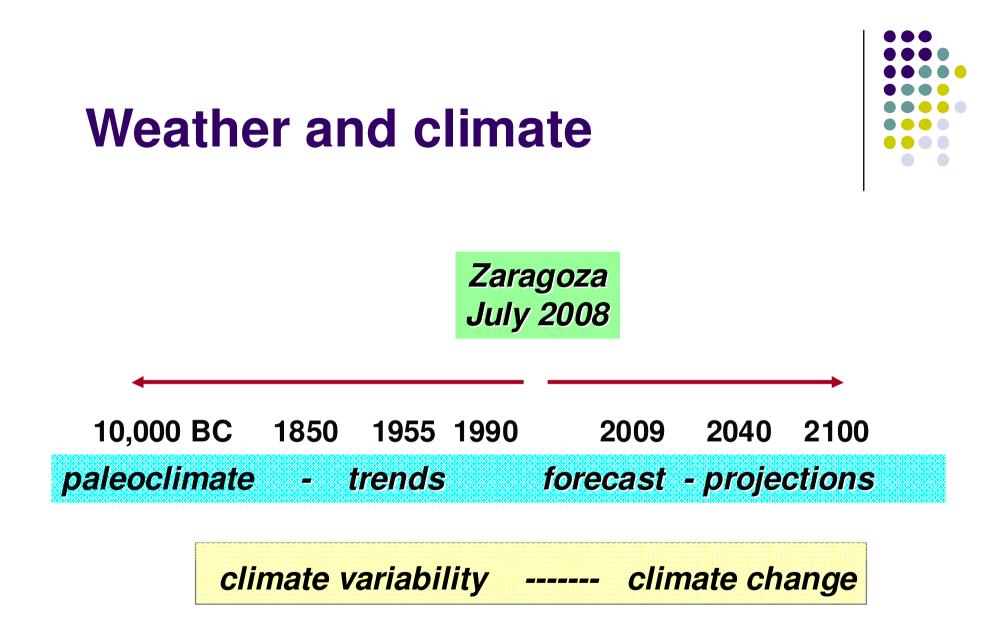
EU energy policy





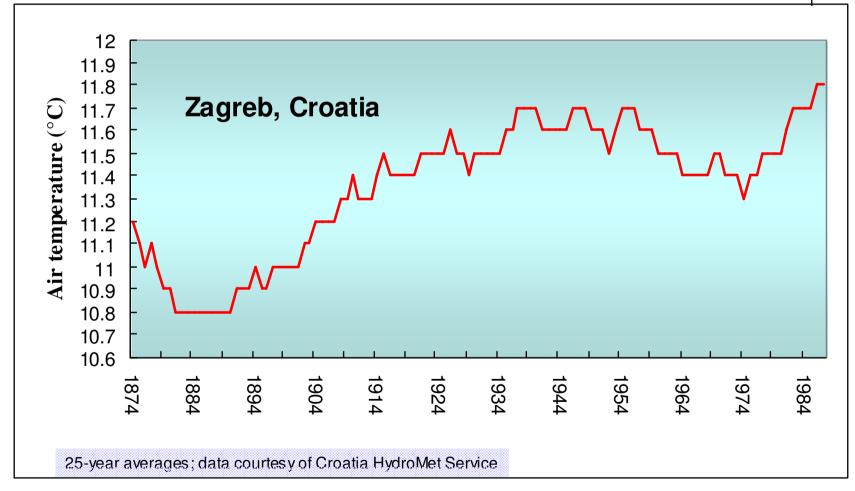
20-20-2020





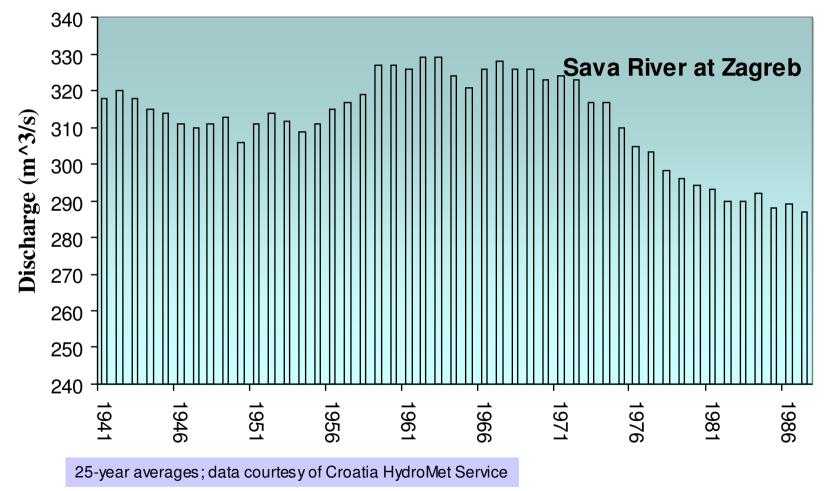


It has been getting hotter

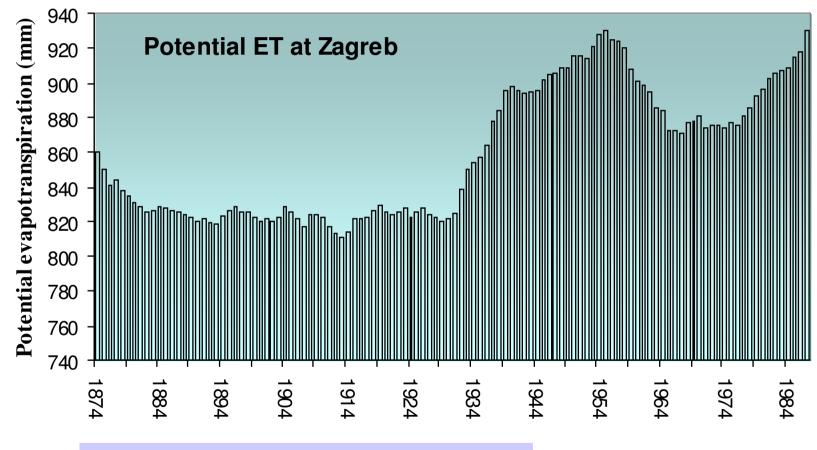




Runoff has been decreasing



Less moisture available to crops



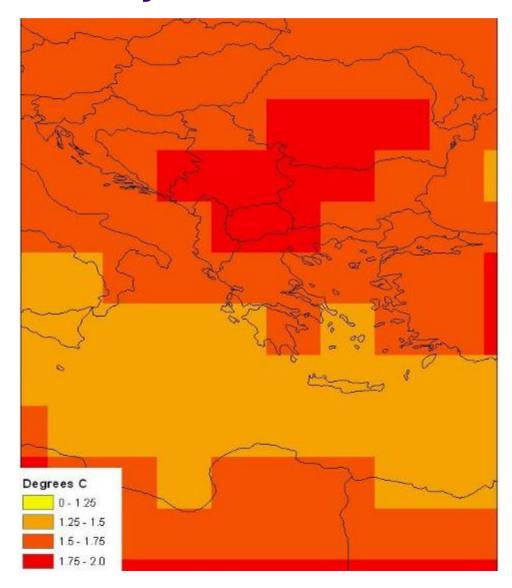
25-year averages; data courtesy of Croatia HydroMet Service

Projecting future climate





Temperature projected to increase by mid-century



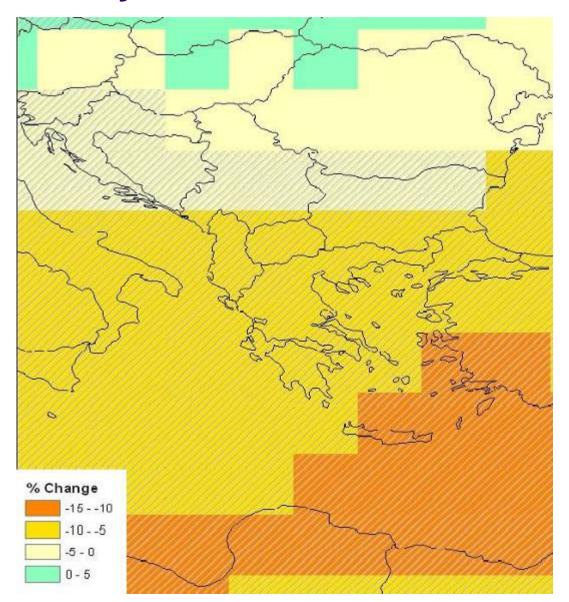


Change in mean annual temp projected to 2030-2049 from 1961-1980

Suite of GCMs

Source: World Bank

Precipitation likely to decrease by midcentury



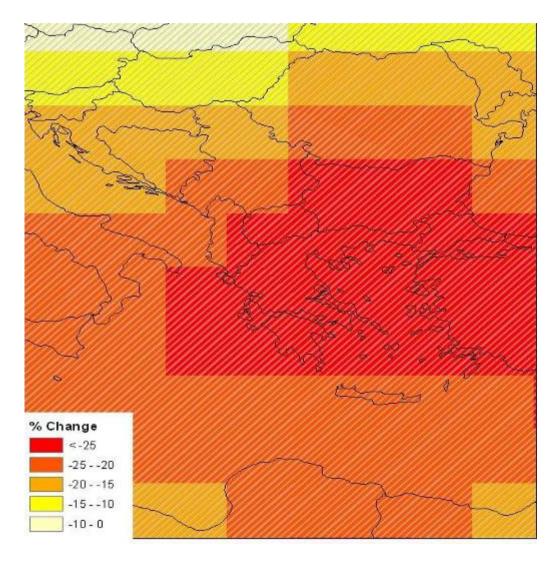


Change in mean annual precipitation projected to 2030-2049 from 1961-1980

Suite of GCMs

Source: World Bank

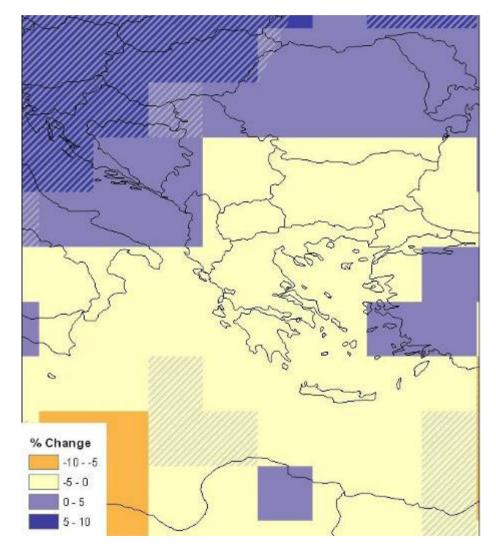
Water available to rivers projected to decrease by mid-century



Mean annual runoff projected to 2030-2049 from 1961-1980

Source: Milly et al. (2005, 008)

Storm intensity likely to increase by mid-century



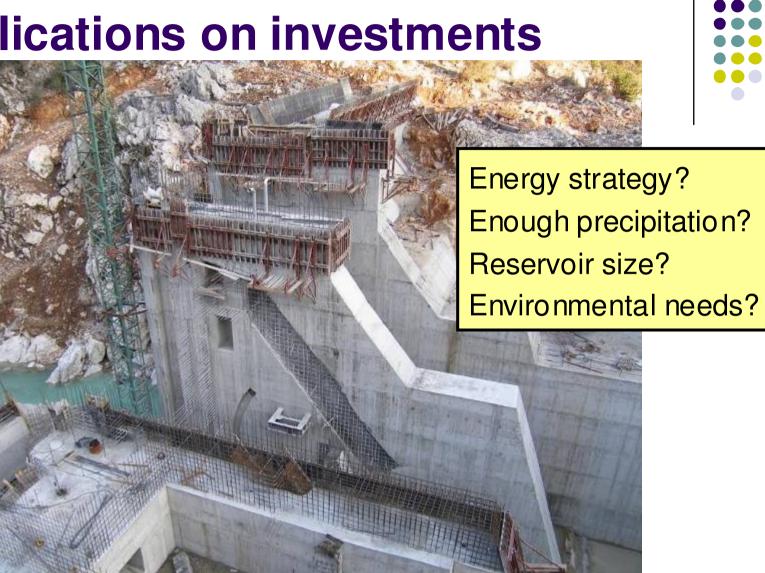


Change in maximum 5-day precipitation projected to 2030-2049 from 1961-1980

Suite of GCMs

Source: World Bank

Implications on investments



Adaptation: Simple or Complex?

- Expand planting of drought-tolerant crops
- Introduce more efficient irrigation technologies
- Enlarge storage reservoirs at hydropower plants
- Strengthen flood control dykes; shift to non-structural
- Expand health surveillance
- Resettle population and agriculture from drought stricken areas
- Expand programs for biodiversity protection beyond park boundaries





World Bank Interest – SE Europe

Knowledge Products

Pliot assessments of impacts & adaptation

Example investment Projects

- Energy community of SE Europe
- Irrigation and drainage rehabilitation
- Renewable energy
- Trade and transport
- Integrated ecosystem management
- Watershed management
- HydroMet service improvements
- Regional disaster risk management

