

Ministry of Environmetal Protection, Physical Planning and Construction Croatia

EU Accession Environmental legislation affecting the financial sector

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EU Accession Main challenges:

<u>Legislative</u>

• One of the widest area of the acquis (more than 270 pieces of legislation, 80 major directives)

• <u>Institutional</u>

- Strengthen administrative structures: ministries, agencies, implementation and enforcement institutions
- Support to development of regional and local administrations
- Strengthen interministerial coordinatiom
- Strengthen environmental management in business sector
- Transpositon of all legislation by the date of accession and setting in place administrative structures



EU ACCESSION Main Challanges:

- First priority for full implementation:
 - framework legislation: air, water, waste, Environmental Impact Assessment, Access to Information, and nature protection legislation
 - international conventions, trans-boundary pollution reduction
 - industrial and single market related legislation

Financial

• High compliance costs- investments in infrastructure, structures and human resources

All new investments should comply with acquis





EU ACCESSION Investment challenges— key "Investment-Heavy Directives"

Water supply / Wastewater Treatment

- Water Framework Directive
- Urban Wastewater Treatment Directive
- Drinking Water Directive

Air Pollution Control

- Fuel Quality Directives
- Air Quality Directives

Waste Management

- Landfill Directive
- Incineration of Dangerous Waste Directive
- Incineration of Waste Directive
- Packaging and Packaging Waste Directive

Industrial Pollution Control

- Large Combustion Plants Directive
- Industrial Prevention Pollution Control /IPPC /Directive
- Volatile Organic Compound /VOC/ Solvents Directive



EU ACCESSION Fransposition of "Investment - Heavy Directives" into Croatian Legislation

- > Environmental Protection Act (Official Gazette No. 82/94, 128/99)
 - New umbrella law planned to be adopted in 2006
 - Environmental impact assessment
 - Integrated Prevention Pollution and Control (IPPC) Directive
 - Access to information

EU ACCESSION

Transposition of "Investment - Heavy Directives" into Croatian Legislation — Air quality

➤ <u>Air Protection Act</u> (Official Gazette No. 178/04) and 6 regulations:

- Regulation on limit values and alert tresholds for SO2, NOx, CO, benzene, particulate matter and lead in ambient air (under preparation)
- Regulation on ozone in ambient air (under preparation)
- Regulation on liquid oil fuels quality (2006)
- Regulation on emission limit values for combustion installations, internal combustion engines and for gas turbines (2006)
- Regulation on emission limit values for processes of thermal treatment of waste (2006)
- Regulation on emission limit values for installations using solvents (2006)



EU ACCESSION Transposition of key "Investment-heavy Directives" into Croatian Legislation

Waste Act (Official Gazette No. 178/04)

Ordinances (under preparation):

- Ordinance on Packaging and Packaging Waste
- Ordinance on Landfills
- Ordinance on Incineration



Transposition of key "Investment-heavy directives" into Croatian Legislation

- ➤ Water Act (Official Gazette No. 107/95)
- Amendments to the Water Act (Autumn 2005)- alignment with Water Framework Directive (WFD)
 - Ordinances:
 - Ordinance on keeping water related documents (Autumn 2005)
 - Ordinance on limit values and indices of hazardous and other substances in wastewater (2006), and others
- Water Management Financing Act (Official Gazette No. 107/95, 19/96, 88/98) and implementing legislation

 /Amendments planned for 2006/





SECTOR	HEAVY INVESTMENTS	OTHER INVESTMENTS
Waste Management	Municipal waste Waste management centers Waste thermal power plants Waste collection sites (recycling yards, green islands, etc.) Facilities for mechanical- biological treatment Lanfill reconstruction/remediation Hazardous waste Incinerators Landfill and old industrial sites remediation/closure Other types of waste Facilities, equipment, etc.	Waste collection /transport - equipment Water / groundwater/soil monitoring equipment Air quality monitoring equipment Laboratories for testing sewage sludge, etc.
Industrial Pollution Control	Processes BAT technologies Pollution control systems Emission pollutants control systems Accident prevention measure	Air / water / groundwater /soil monitoring equipment



"Investment Heavy Directives" implications – heavy and other investments

SECTOR	HEAVY INVESTMENT	OTHER INVESTMENT
Air quality	Reduction of emission pollutants from stationary sources (combustion plants, industrial plants) and from mobile sources Improvement of liquid fuel oils quality-reconstruction of oil refineries, fitting to enable VOC collection during filling, VOC recovery units	Air quality monitoring Emission pollutants emission monitoring Testing systems (oil refineries)
Water quality	Wastewater treatment plants Wastewater collection systems Water supply system Pre-treatment of industrial discharges to sewers **	Surface and underground water monitoring Drinking water quality monitoring Effluent monitoring Ecological monitoring



EU Accession Priority investments — waste sector

- Establishment of waste management centres (on county and regional level) and remediation of landfills
 - <u>possible sources of financing</u>: county and local budgets, Environmental Protection and Energy Efficiency Fund and pre-accession funds (EPEFF), Croatian development and commercial banks, International Financial Institutions /IFI/
- Remediation of landfills (that are not in compliance with regulations)
 - financed primarily through the Environmental Protection and Energy Efficiency Fund (started in 2004)
- Remediation and closure of highly polluted industrial sites

 /Activities on development of remediation programmes initiated by the MEEEPC in 2004 /





Environmental Law Approximation – Cost estimates

Documents dealing with cost estimates:

- National Environmental Strategy and National Environmental Action Plan (2002) rough estimates of capital costs for reaching avarage EU standars/waste, water, air / 1,500 EUR 2,200 EUR per capita
- Economic Memorandum for Croatia, World Bank July 2003 (estimates on the basis of three scenarios of reform (basic scenario, medium reform, high reform): capital costs from EUR 1,390 to EUR 2,680 per capita (50% water sector; 50% sectors of waste and air and IPPC Directive implementation (basic scenario, a 20-year period)
- Draft Waste Management Strategy, June 2005 (developed): data used primarily from the Final Report CARDS 2001 National Waste Management Strategy—Focus on Municipal Waste (capital cost estimate of the Strategy's implementation: total 3.083 mil EUR/ municipal waste 68%/, 2005-2025)





Potential investors

Waste management:

- regional and local self-goverment units, State, Fund for Environmental Protection and Energy Efficiency (FEPEF), public utility companies, public institutions (hospitals,...), bussines entities (industry, transport...)
- Air quality: oil refineries, combustion plants, petrol distribution stations, storage installations, State, regional and local self-goverment units,
- > IPPC Directive: business entities (industry, agriculture, energy sector, ...); waste, sewage and wastewater utility companies, State
- **➤** Water quality:
- watersupply, sewage and wastewater treatment utility companies, local self-goverment units, Croatian waters





EU Accession Possible Sources of Finance for Infrastructure Investments

Public sources (budgetary and extra-budgetary funds)

- State Budget
- Environmental Protection and Energy Efficiency Fund
- Croatian Water Public Company
- Regional self-government units and the Town of Zagreb
- Local self-goverment units

Other sources:

- Concession agreements (especially with respect to public wastewater discharge and waste disposal systems); public/private partnerhip
- EU pre-accession funds (ISPA, IPA), Cohesion and Structural funds
- domestic and foreign loans (Croatian Bank for Reconstruction and Development, IFI, commercial banks
- Own resources
- Leasing agreements, direct investments, equity
- Donations, etc.