

# The Black Sea Basin



# **The Danube - Black Sea Strategic Partnership Program (World Bank/GEF)**

- **Objective: Pollution Control and Nutrient Reduction to the Danube River and Black Sea**
- **Program covers all 17 countries of the Danube River - Black Sea basin over the period 2001 - 2007**
- **Combination of GEF grant, World Bank loan, government, and other donor resources**



## **Projects under the Black Sea-Danube Program have focused on:**

### **(i) Changing behavior of rural populations, through:**

**Community-based investments, such as:**

- (a) Communal storage and handling systems for livestock and household waste**
- (b) Communal afforestation**
- (c) Vegetative buffer strips to protect water bodies**
- (d) Promotion of the Code of Good Agricultural Practices**
- (e) On-farm Nutrient Management**
- (f) Support to Agro-enterprises to reduce nutrient discharges**
- (g) Household waste water; latrines**

### **(ii) Enhanced nutrient controls on wastewater treatment;**

### **(iii) Restoration of natural nutrient controls (wetlands)**



**The Black Sea-Danube Partnership Program complements requirements for implementation of the EU Directives including:**

- **Water Framework Directive (WFD)**
- **Urban Wastewater Treatment (UWWT) Directive**
- **Nitrates Directive**
- **Integrated Pollution Prevention Control (IPPC) Directive**
- **Common Agricultural Practices**

**Newer projects (e.g. Turkey, Serbia, Romania, Croatia) have gradually moved to Integrated Nutrient Pollution Control Programs**



## **Other types of World Bank Projects in the Basin focused on Environment Sustainability include:**

- Hazardous Pollution Control (Romania, Moldova)**
- Wetland Management /Restoration (Bulgaria, Croatia, Georgia)**
- Flood Management (Serbia, Croatia, Romania)**
- Dam Safety (Romania)**
- Hydropower Rehabilitation (Ukraine, Macedonia)**
- Watershed Management (Turkey)**
- Coastal Zone Management (Georgia, Ukraine)**



# Environment Portfolio at a Glance

Project Title	Status	Funding (US\$ million)		Co-financing ratio (GEF:Other)	Estimated N+P Annual Reduction (tons) (**)	
		GEF Grant	Co-Financing (*)		N	P
<i>Under Implementation</i>						
Romania Agricultural Pollution Control	WB Board Approval: 12/13/01	5.15	5.65	1:1	200	25
Bulgaria Wetlands Restoration and Nutrient Reduction	WB Board Approval: 06/13/2002	7.50	5.78	1:1	218-813	23.4-37.4
Moldova Agricultural Pollution Control (part. blended IDA/GEF)	WB Board Approval: 02/26/2004	4.95	5.79	1:1	280	70
Turkey Watershed Rehabilitation and APC (blended IBRD/GEF)	WB Board Approval: 06/1/2004	7.00	38.00	1:5	200	25
Serbia Danube River Enterprise Pollution Reduction	WB Board Approval: 05/12/2005	9.02	13.12	1:1	430	70
Bosnia Water Quality Protection (part. blended IDA/GEF)	WB Board Approval: 6/7/2005	4.25	11.4	1:3	31	5
Hungary Nutrient Reduction (part. blended IBRD/GEF)	WB Board Approval: 3/29/2006	12.50	80.00	1:5	4108	181
Moldova Environmental Infrastructure (part. blended IBRD-GEF)	WB Board Approval: 6/2007	4.50	3.50	1:1	280	70
Romania Environmental Management (blended IBRD/GEF)	WB Board Approval: 10/2007	5.50	87.5	1:16	4000	1000
Croatia Agricultural Pollution Control (part. blended IBRD-GEF)	WB Board Approval: 12/2007	5.00	15.00	1:3	400	200
	<b>Total</b>	<b>65.37</b>	<b>265.74</b>	<b>1:4</b>		
<i>Under Preparation</i>						
Ukraine Odessa Nutrient Reduction ((part. blended IBRD-GEF)	Expected WB Board Approval: 12/2008	4.6	100	1:20	350	220
	<b>Total</b>	<b>70.00</b>	<b>365.74</b>	<b>1:5</b>		



# Work Ahead

- **Changing human behavior / public awareness**
- **Economic Incentives**
- **Policy Reforms**
- **Environmental Enforcement**
- **Win-win Technologies**
- **Waste Management**
- **Sustainable Fisheries Management**

