

Making polluters pay or paying the polluter? An NGO view on the challenges of policy integration

Workshop "WFD and Economics – Lessons-learned from Lower Saxony"

Session 3: Polluter-pays-principle and the internalisation of external costs

Brussels, 19 March, 2014

Tobias Schäfer GRÜNE LIGA e.V. Bundeskontaktstelle Wasser / Water Policy Office, Berlin Member of the European Environmental Bureau (EEB) in Brussels www.wrrl-info.de

Outline

- 1 Background
- 2 Water pricing and cost recovery
- 3 Drinking water protection and polluter-pays-principle
- 4 Adverse subsidies: Payments under CAP and renewable energies policy
- 5 Conclusions



1 Background



GRÜNE LIGA survey on economic instruments in Germany's River Basin Management Plans (2011)

- Shortcomings and need for action
- Compilation of all references to economic instruments in the WFD
- Questionnaire with 22 questions

Übersicht: Anwendung der ökonomischen Elemente der WRRL in der bundesdeutschen Praxis*

Frage / Indikator	schlecht/	nangelhaft/ m18to/ kaum telberba	gut/ vielfach	sehr gut/
 Wirtschaftlöche Analyse (allgemein): Liefern die Oaten eine ausreichende Enformationsbesis zur Beurteilung der wirtschaftlichen Bedeutung der Wassenutzungen? 	3		_	
 Erheblich veränderte Gewässen: Werden konkrete Aussagen zur Unverhältnismäßigkeit der Kasten gemacht? 		_		
3 Ausnahmen (Fristverlängerungen und weniger strenge Unweitziele): Werden konkrete Aussagen zur Unverhöltnismäßigkeit der Yoston gemacht?	(2)	_	-	
4 Verursacherprinzig und Grundsatz der Kostendeckung: a) Wurden alle relevanten Wassernutzungen als Wasserdienstleistungen qualifiziert?	-	3)		
b) Sind die Preise für die Offentliche Wasserversorgung/Abwasserentsorgung kostendeckend?	_		-	
c) Wurden Kossendeckungsgrade f ür die Übrigen im Bewirtschaftungsplan clefinierten Wassendienstleisungen (bindwirtschaftliche Bewitserung, industrielle Eigenwasservertorgung) ermittelt?	•	-		
5 Anneizwirkung der Wassenpreise: Ureien nie Wassenpreiz Abwassergebühren Anneize für einen sparsamen und efftel enten Wasserverbrauch in • dar öffentlichen WasserpreizungsAbwasserentsorgung?				
► Indusiria?			-	
► Landwirtschaft, Bergbau?				
6 Internalisierung von Umwelt- und Ressourcenkosten: a) Wurden die Umwelt- und Ressourcenkosten der Wasserdienstleistungen ernitzelt?				
b) Wurde versücht, Umwelt- und Ressourcen kosten durch Wasserentriahmeentgebe zu integrieren?	-	(4)	-	
c) Werden die Einnahmen aus Wasserentrahmeenzgeiten zweicigebunden für Gewästerschutzmaß nahmen oder ökologische Verbasserungen verwendet?	_	5)		
d) Worde versucht, Umwelt- und Ressourcenkosten durch die Abwasserabgabe zu integrieren?	-		-	
 Werden die Einnahmen aus der Abwasserabgabe zweckgebunden f ür Gewässerschutzmaßnahmen oder ökologische Verbesserungen verwender? 	_		-	
7 Gegenläufige Subventionen: a) Wurden gegenläufige Subventionen (Landwintschaft, Binnenschäffahrt, Wassentraft, Hochwassenschutz,) identifisiert und beziftett?	-			
b) Wurden gegenläufige Subventionen korrigiert?				
 Neue ökonomische Instrumente: a) Wurden Förder- und Finanzierungsinstrumente in die Wasserwirtschaft neu aufgenommen oder erweitert? 	_		(0)	
b) Wurden neue Rinderinstruments in relevante Politikbereiche (Politikintegration!) eingeführt, z.B. Rindertatbestände in Agrarumwetzprogrammen?	_	2)	-	
c) Wurden neue ökonomische Steuerungsinstrumente eingeführt (z.B. Stickstoffüberschussabgabe)?	_	(8) (9) (10)	-	
9 Kosteneffizienteste NaBnah merikambinationen: Wurden NaBnahm en nach ihrer Kosteneffizienz ausgewählt und priorisiert?		10		
 Nutzen f ür Umweit und Geseilschaft: a) Wurde der monestre Wert ökologischer Verbesserungen ermittelte (geringere Umerhaltzungskosten,)? 	-	100		



Diese Übersicht-gibt die Einschätzung der GRÜNEN LIGA vieder, die auf einer eigenen Auswertung der Bewirtchaftungspläten und Mäßnahmenprogramme für die lussgebietseinheiten in Deutschland beruht.

In due Regularisti mun die Brotswerschlöchung des Saktos erachtet: es folke der Besig der wirtschaftlichen Bedeusung den Bestungsgesteinen (pressure auf dingens). Kassenutingen wie Hodwasseschutz, Fischerei und Friederitutzaumnichten z.B. und ettechnic Bibdendrich keine Einsahnung. Die Unschläthrisstäfisigkeit der Korsenis ist nie der alleinige auffri die Inangrundlichnieren Affreisettillingerungen, wurde besin Angruch genommen und richt ein Einsahnen und niet.

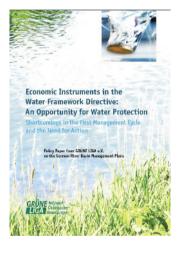
 Die Urterlassung ist Anlass für ein Vertragsverletzungsverfahren gegen Deutschland und undere EU-Wrigbiedscaben.
 In 12 von 16 Bundesähldern existierer Wasserentahmeentgabe. Die Länderregelungen weisen große Unterschiede

5) Zum Ref. Index side eine ogsizes zweckendung für anderstreiste oder zugenäufsige Varlaminen mit Gewässeasiese oder Deichbour, problematisch im Sinne der Verunscharzpielungs indig gewächstade zum Ausgehörtsachkengen im Thinkossonach ett zweiter im Verung von Sinne der Verunrichtimin aus Gewässentreinklaum nur den Fürderprogramme oder nichtimin aus Gewässentreinklaum nur dies Fürderprogramme oder aufstatter zus deren sollter aus der Verung einigeführt umglachtere oder mit mehr Herbeit ausgassente. In den Beritschaftur gescheren Lauden in Inizia und eringe keine Auguben

 Z.B. Gewässenschutzmaßnahmen in Agrarumweitsprogrammen in Sachsen und Thüringen, diverse Länder-Rinderrichtlinien für öckologische Sessiva seramischlung.
 Nasimfiltrung von Wassenentrah meerigelaar in Nordhein-Westfalen (2004) und im Saarland (2008); Abschaffung in Hassen (2002).

(Allerdings wurden Forschungsvorhaben hiersu vergeben. 20) Baratungsprogramme für Landwirte könnten als noue Instrumente angesehenwerden (z.B. Madenschen), Schlewig-Holstein); sie werden in den Bewirtschaftungsplänen nichterwöhnt.

1) 2.B. Processmang beil mestisionen in Abassachehandrigataloper in Miningen.
2) Heitzert für die Eminique von Umwelskosten, im Zuman schang ein die Prilling der "bassen Umwelsspind" of dem Varchlachbarungerweho (Artikal, 4.7.), Allerding undern in den Beweitschaftung gehan behang erstaustherweise leine Rolle mch Articel 4.7 auf.
10: Beitschaftung der Mutaatsvon wird Gawisstechtunriffweite auf gesettische wird is der WRBI, nicht zwögend öndert, enzgehört aber dem Geite Richsteins, Schon wingunggrundstecht 1 dieser Richtung, Wösser Heine Umbeit ausstechte auch eine Richsteines Schon wingunggrundstecht 1 dieser Richtung, Wösser Heine Umbeit aberdestanz, sondere ein einerbeite Gute ag spätister, verneizige und ensprechend behandet werten sp.⁵.



Ökenomische Ferschungsbeitröge zur Umweltpaliti



Falk R. Lauterbach, Ann Kathrin Buchs, Xing Contekar & Roiner Manggraf (Hg.)

Handbuch zu den ökonomischen Anforderungen der europäischen Gewässerpolitik

Rentionen und Erfahrungen aus Theorie und Praxis



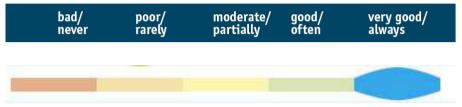
2 Water pricing and cost recovery



Charges for water supply

Polluter pays principle and recovery of costs:

b) Has recovery of costs been achieved in the charges for public water supply and wastewater disposal?



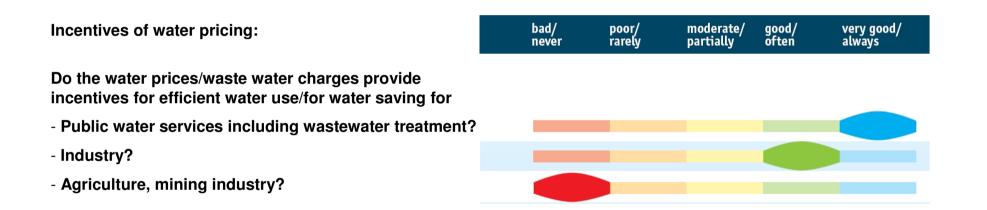
Quantity-dependent water prices (water charges) for public water supply in Germany by and large recover costs. They have been a successful model – also when compared to other EU member states – and have led to a significant reduction in drinking water consumption since 1990.

The incentive effect of this pricing structure should not be carelessly put at risk. Instead, the objective should be to transfer the effective incentives of quantity-dependent prices that recover costs to other water abstractions and uses.

> Implement water abstraction fees as pricing instrument



Water pricing and cost recovery



The polluter-pays-principle needs to be applied more consistently: the energy sector, mining companies, the agricultural sector and other water users should be obliged to pay adequate contributions to the recovery of costs, including environmental and resource costs.



Water abstraction fees in Germany



Total revenue (2012): 382 Mio. Euro numbers compiled by Alexandra Gaulke, GRÜNE LIGA



Where polluters don't pay: Exemptions from water abstraction fees



Mining is by and large exempt from water abstraction fees. Since 2011, Northrhine-Westphalia charges the full rate for water abstractions in open pit lignite mining.



Water abstraction fees for cooling water usage (2010)

Federal state	Groundwater per m ³	Surface water per m ³
Baden-Württemberg	0.00 EUR	0.01023 EUR
Berlin	0.31 EUR	0.00 EUR
Brandenburg	from main drainage: 0.005 EUR from other groundwater: to be clarified by Legislature	0.005 EUR
Bremen	0.025 EUR 0.005 EUR > 500 m ³	0.003 EUR < 500 m ³
Hamburg	0.11 EUR 0.12 EUR from deeper aquifers	0.00 EUR
Mecklenburg-Western Pomerania	0.077 EUR	0.006 EUR
Lower Saxony	0.02556 EUR	0.01023 EUR
North Rhine-Westphalia	0.027 EUR 0.0027 EUR for cooling flow	0.027 EUR 0.0027 EUR for cooling flow
Saarland	0.03 EUR 0.022 EUR für EMAS plants	0.00 EUR
Saxony	0.076 EUR	0.005 EUR
Schleswig-Holstein	0.07 EUR	0.0077 EUR

Where polluters don't pay (2)



Most German states do not address **hydropower** or exempt it from water abstraction fees, only three do:

Saxony (since 2014)

• 0,01 Cent/m³

Schleswig-Holstein

• 0,077 Cent/m³

Baden-Württemberg

• total revenue: 1.96 Mio Euro



Variability of water abstraction fees within a state

Charge rates in Brandenburg for selected water uses

(according to § 40 of the Brandenburg Water Act [Brandenburgisches Wassergesetz])

	Groundwater		Surface water			
	per m³	actual charge (as % of statutory rate)	per m³	actual charge (as % of statutory rate)		
Statutory rate	0.10 EUR	100 %	0.02 EUR	100 %		
Abstraction for: Public water supply	0.10 EUR	100 %	-	-		
Other production purposes	0.10 EUR	100 %	0.02 EUR	100 %		
Cooling water	to be clarified by legislature		0.005 EUR	25 %		
opencast main drainage with exemptions	0.00 EUR	0 %	0.00 EUR	0 %		
 for "consumed" share 	0.02 EUR	20 %	0.02 EUR	100 %		
 for "commercially used share" / production 	0.02 EUR	20 %	0.02 EUR	100 %		
 for "commercially used share" / cooling water 	0.005 EUR	5 %	0.005 EUR	25 %		
Irriguation*	0.007 EUR	7 %	0.0014 EUR	7 %		
Aquaculture	0.00 EUR	0 %	0.00 EUR	0 %		

* Under § 40, 93% of the irrigation water abstracted is deemed to have been "redischarged"; an untenable regulation.

Water abstraction fees: Summary

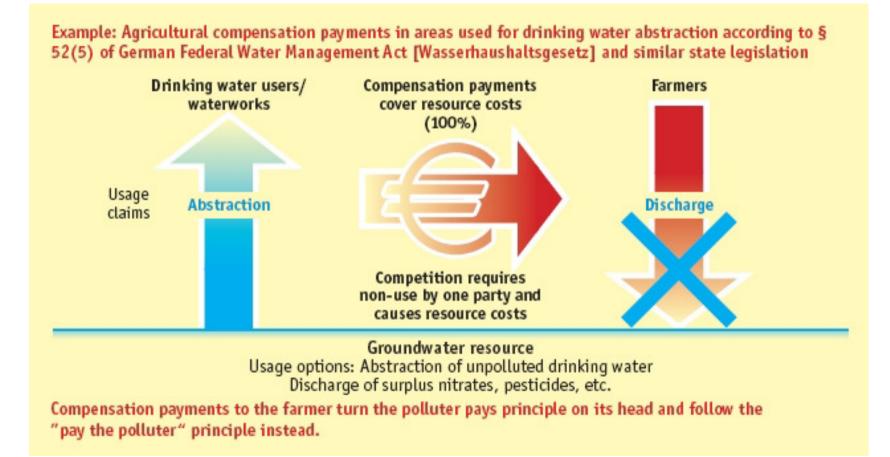
Water abstraction fees (and the wastewater fee) are currently the most important instruments for attributing environmental and resource costs to users (polluters).

- should be introduced in all states
- great potential to (re)design water abstraction fees in an environmentally sensible manner
- earmarking the revenue for environmental improvements is essential!
- revision of far-reaching exemptions (=subsidies) for mining, the energy sector, hydropower and agriculture
- 2010 would have been a good time for this (article 9 WFD)
- lively debate over the last years
- introduction/adaptation of water abstraction fees in several states





3 Drinking water protection and polluter-pays-principle





Cooperation of drinking water suppliers and farmers

Payment schemes for farmers should

- promote organic farming
- bring forward additional ecological benefits
- include consultation of farmers (Farm Advisory Systems)

Positive examples from Germany:

- Leipzig
- Munich
- Oldenburg (OOWV)
- (...)

But: We also need much stricter obligations for better water protection in agriculture!

RECEIPTION Factsheet on WFD Implementation

Water Friendly Farming in Leipzig's Water Protection Zones Cooperation, precautionary drinking water protection, organic farming



Reason , Cause The Leipzig Manicipal Waterworks GmbH (KWL) provides some 600,000 people in Leipzig and the administrative district Leipziger Land with diritising water from calchemets with intensive farming. The KWL pruses a dual strategy to reduce nitrate political in a row water long-term to 25 mg/: first, the agricultural management of the Canit; Water Estate was converted to organic farming in 1002. The estate is a subsidiary of KNL and comprise approximately 800 hectares of arable and grassland, which the city of Leipzig acquired in 1907. Second, an ares-based protection plan for farminal in the water protection zone is implemented through contracts between KNL and long traces. This gives the economic tracettive for convoltant farms to be water-friendly.

In the ice-age brash of the glacial Mulde Valley are the most important groundwater resources near Leipzig. This source has been used for drinking water since 1912. The Cantiz Water Works provides one third of the water applied by the Leipzig Municipal Waterwork (KWL). The water preteriors are so Canttz T-Halbertis is located approximately 30 km cant of a barbor of the Water of the Water and Water Market (Market Market) and the since approximately 50 hocterized with shalm 50% is used for gravitanter. KWL, perform the Water and the Man 50% is used for gravitanter. KWL operates the two largest of its four major waterworks here. Groundwater is only protected to a minor degree by the top soillayer.

 Rise thank district and gate. Ube: Stormy

 Continuit on walkable: Bloc Stormy

 Continuit on walkable: Bloc Stormy Chain

 Chain (Salow and Male Bloc Storm Storms There Storms and an analysis of the storm of the storm

Objective The aim is to reduce the nitrate content in raw water to 25 mg/l.

1. The conversion of the Canitz Water Estate to organic farming: The conversion was decided in 1991 by the KWL to prevent further agricultural pollution of groundwater. The central measures of preventive groundwater prevention—as part of the organic land management of the area—are full-year land cover by a crop rotation on seven fields with legumes, cereals, rost crops and freed crop as well as catch crops, the remanisation of mineral N-refitzers and synthetic periodices, as well as a sufficient rotection of stocking rate to least hum 0.2 fvertock utility protectare. The conversion was reinforced by actions in marketing as well as through advice and scientific backing (see below) to secure the KWL long term carring.

2. Area-based protection plan for farmland in the KWL drinking water protection zone: The concept include protection requirements differentiated after hydrogoological, local and farm-type elements, and componation payments (see box). The targets are reached fluengy constraint with the far farmers. In areas crucial for waterstratents for a garcellaral enterprises farm organizally on circa 900 heteras. On a further 2, 170 heterase of important candomer areas, garcelennal init the permitted N-balance, under-auge are reavoid thread. The basis in a tudy on the implementation of a compensation claim for gericulture from 2002. In Staroy the compensation obligation for land use turitrations in the water protection zones has been for responsibility of water athlises in Staroy since 2002.

 Actors / Procedure
 As early as 1907, the ofly of 1 enjoys acquired about 800 Waterworks in the anthrone of the planet Constraint Tublicity Waterworks in order to influence local land use. While the after 1945, land rights were retransferred to the diry after 1900, Acity occurred locational 1997 gas with Waterworks to organic family and are the Waterworks to organic family at the order to influence in the Bioland Constraint, and the 1998, the order to be active at the organic family at the order of 1994, the Canitz Water Itata Constraint was funded and a well on order to influence in the Disard Constraint was funded and the Oliver of the Water Itata Constraint was funded and well on order of 1994, the Canitz Water Itata Constraint was funded and well on order of the Water Itata
 A seasonal well on order to influence or direction to order to influence order or the organic family and well on the Disard Constraint was funded and well on order to order to order to order to the order order to order to order to order to the order order order to order to order to the order order order order order order order order to the order or the order order order order order order order order order or the order order order order order order order or order or the order order order order order order or order or the order order order order order or order or order or the order order order order order or order or order or order or the order or order order order order or order or order or order or the order order order order or order or order or order or the order order or order order or order or order or order or the order order or order or order order or order or order or the order order or order order or order order order order order or order or order order order order order



4 Adverse subsidies: Payments under CAP and renewable energies policy



4 Adverse subsidies: Payments under CAP and renewable energies policy

Harmful subsidies:

a) Have subsidies with adverse ecological effects (agriculture, inland navigation, hydropower, flood protection, etc.) been identified and quantified?

b) Have adverse subsidies been revised?



The large number of ecologically harmful subsidies should be evaluated comprehensively in terms of their their impact on water resources.

It is necessary to revise such adverse subsidies, particularly in the area of agricultural policy, including biomass payments. This should take priority over the deployment of additional funding.

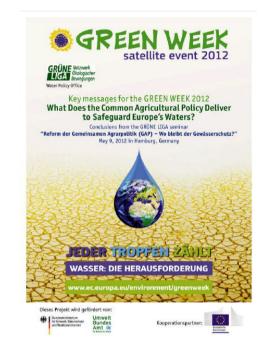


CAP Reform 2014-2020: No improvements for water protection?

Werner Doose, Ministry for Agriculture and Environment Schleswig-Holstein at the GRÜNE LIGA seminar on CAP, biomass subsidies and water protection in Hamburg (May 2012):

"WFD requirements regarding the reduction of nutrient inputs cannot be met for groundwater, surface waters and coastal waters.

Accordingly, **objectives of WFD and MSD will overall not be met**."





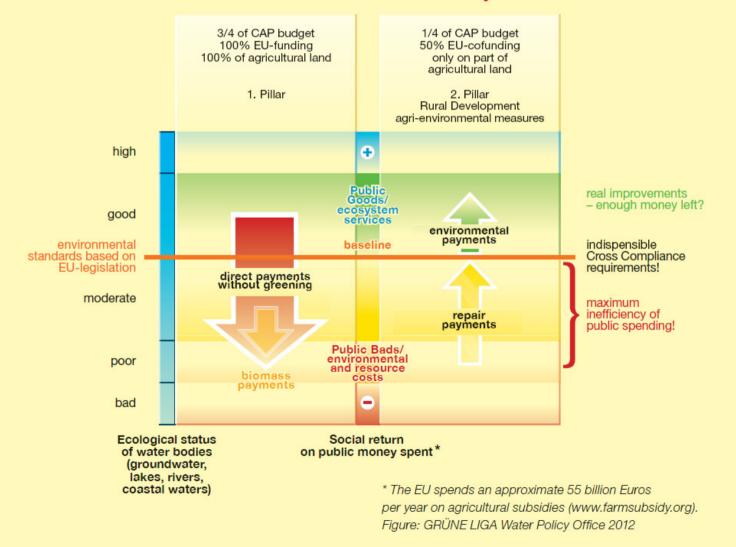
Cyanobacterial bloom (blue algae) in the Baltic Sea, summer 2010.

Note also that on the southeastern coast, the large Vistula and Curonian Lagoons are difficult to distinguishable as water bodies, due to massive bloom of green algae.

Source: ESA - European Space Agency



What Does the CAP Deliver to Safeguard Europe's Waters: Public Goods for Public Money?





EEB Position on CAP reform and water

Key recommendations:

- 1. Ensure strict Cross Compliance including WFD
- 2. Use ecological focus areas for water protection
- 3. Ensure sufficient funding for water protection measures and water friendly farming in Pillar 2

DECEMBER 2012

EU COMMON AGRICULTURAL POLICY 2014–2020: CAP-REFORM MUST DELIVER TO SAFEGUARD EUROPE'S WATERS!

387 BILLION EUROS OF PUBLIC FUNDS REQUIRE EFFECTIVE ENVIRONMENTAL STANDARDS

Position of European Environmental Bureau, GRÜNE LIGA, NABU, Living Rivers Foundation, Global Nature Fund, Bodenseestiftung, Deutsche Unweithlife, Coalition Clean Baltic, DUENE, Quercus and PAN Germany

KEY RECOMMENDATIONS:

1. ENSURE STRICT ENVIRONMENTAL OBLICATIONS IN PILLAR 1 AS FROM JANUARY 17 2014: No direct payments to farmera without strict cross compliance including environmental standards based on the Water Framework Directive and bin-

based on the Water Framework Directive and binding obligations for water metering, nutrient balancing, pesticide application and erosion control.

2. INTEGRATE 10% ECOLOGICAL FOCUS AREAS ON AGRICULTURAL LANDS (COMPUL-SORY AT FARM LEVEL) FOR WATER, SOL AND BIODIVERSITY IMPROVEMENT: Misate nutries and exetcide fects from action.

tural runoff and improve water dependent ecosystems with buffer strips, wetlands and riparian zones along all water courses, ditches, ponds and lakes. 3. SECURE SUFFICIENT FUNDING BY EARMARKING 50% FOR AGRI-ENVIRON-MENTAL MEASURES, COMPENSATION PAY-MENTS RELATED TO WATER FRAMEWORK DIRECTIVE AND NATURA 2000 AND ORCA-NIC AGRICULTURE IN A STRONG PILLAR 2 FOR SUSTAINABLE RURAL DEVELOPMENT: Support rail environmental improvements through rehabilitation of wellands, floodplains and ripation habilitation for wellands, floodplains and ripation habilitation of uvelands, floodplains and ripation habilitation of oparilo agriculture.

EUROPE'S LARGEST FEDERATION OF ENVIRONMENTAL CITIZENS' ORGANISATIONS

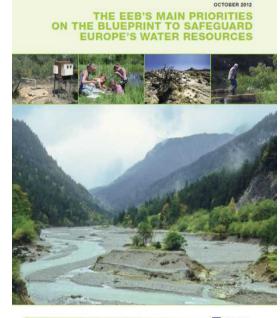




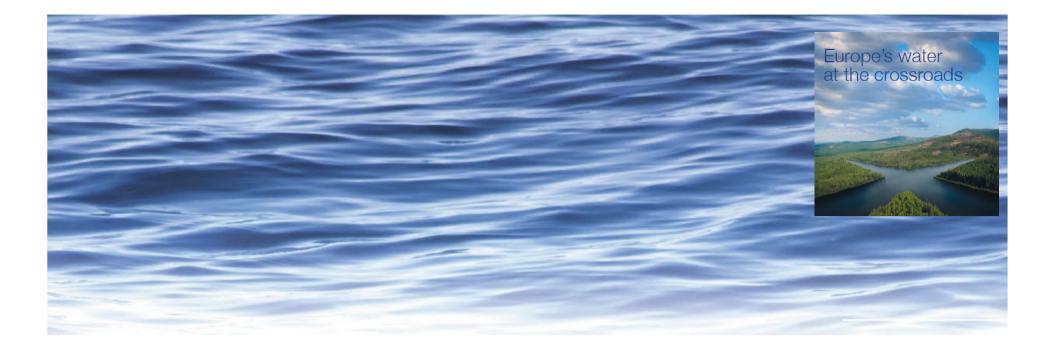
5 Conclusions

In line with the polluter-pays-principle, Europe's waters need

- better integration of water protection with other policy fields
- corrections of adverse subsidies
- better water pricing policies that address cost recovery in a broad sense



EUROPE'S LARGEST FEDERATION OF ENVIRONMENTAL CITIZENS' ORGANISATION EUROPEAN ENVIRONMENTA BUREAU



Thank you for your attention!

Tobias Schäfer Co-authors: Michael Bender, Alexandra Gaulke

GRÜNE LIGA Bundeskontaktstelle Wasser / Water Policy Office, Berlin <u>wasser@grueneliga.de</u> www.wrrl-info.de