



EU water related policies GNF Living Lakes Webinar



An ecological, policy and economic perspective

Water Framework Directive – policy coherence as a key factor for improved water management and nature conservation in a changing climate

Berlin / Europe, 2 April 2014

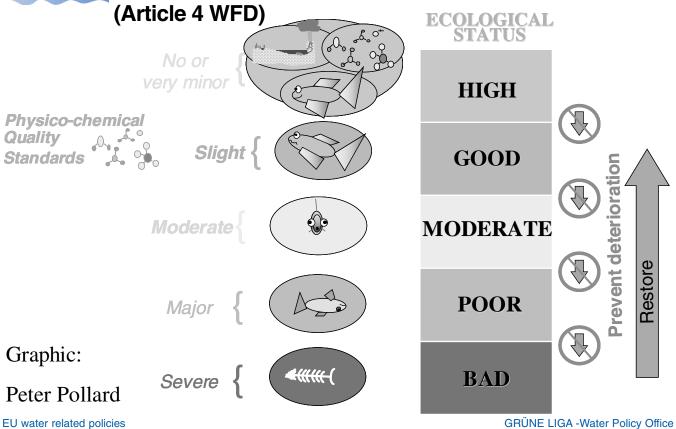
Michael Bender GRÜNE LIGA e.V.

Bundeskontaktstelle Wasser / Water Policy Office

EU water related policies

GNF Living Lakes Webinar

GRÜNE Netzwerk Ökologischer Bewegungen lakes, rivers, transitional and costal waters by 2015



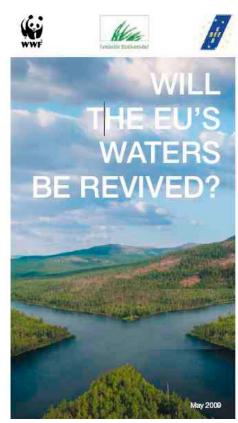
GNF Living Lakes Webinar

Michael Bender, wasser@grueneliga.de



Five priorities for better water management:

- Transparent and publicly owned water management
- Reducing wastage and using water well
- More space for living rivers
- Healthy, safe water for people and nature
- Visionary and adaptive water policies



GRÜNE LIGA -Water Policy Office Michael Bender, wasser@grueneliga.de

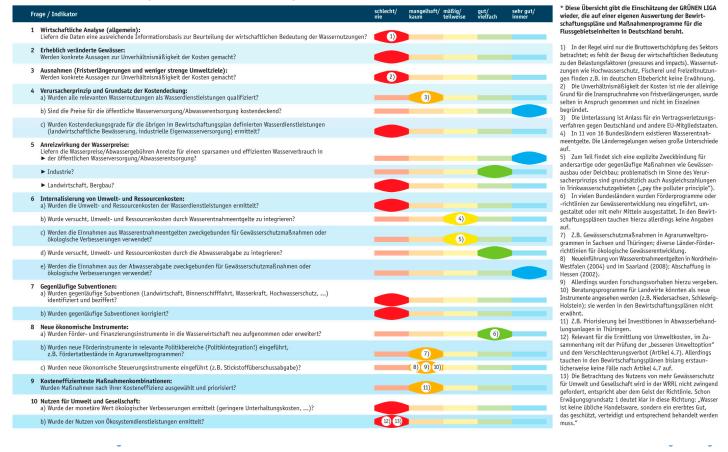
EU water related policies

GNF Living Lakes Webinar

Economic Instruments in the Water Framework Directive:









bad/ poor/ moderate/ good/ very good/ never rarely partially often always

1 Economic analysis (general):

Do the economic analyses provide sufficient information to assess the economic relevance of water uses?

2 Heavily Modified Water Bodies:

Have disproportionate costs been specified?

3 Exemptions (extension of deadlines and less stringent environmental objectives):

Have disproportionate costs been specified?



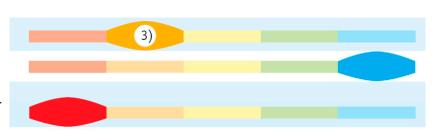
4 Polluter pays principle and recovery of costs:

- a) Have all relevant water uses been defined as water services?
- b) Has recovery of costs been achieved in the prices for public water supply and wastewater disposal?
- c) Have rates of cost recovery been determined for all other water services according to their definition in the RBMP

(abstraction for irrigation, industrial "self-abstraction")?

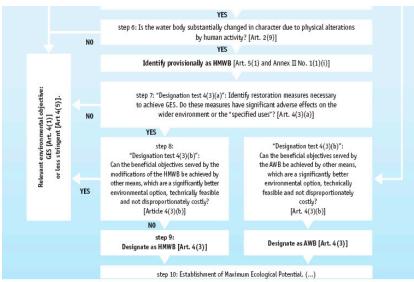
EU water related policies

GNF Living Lakes Webinar





Heavily Modified Water Bodies and exemptions



Excerpt of the decision tree for HMWB designation as given in the Guidance Document of the CIS Working Group 2.2

Most federal states simply list very generally those uses of the water body whose *mere existence* justifies designation as an HMWB The designation Tests (step 7 and 8) have not been carried out.

»Conclusions of GRÜNE LIGA: It can be assumed that by designating a water body as "heavily modified" and "artificial" there has been almost no serious assessment of the economic criteria as required by the WFD! This is a striking contravention of the Directive's requirements.

Thus, a reassessment of HMWB designation must be carried out as a matter of urgency.

Where there has been recourse to deadline extensions and less stringent environmental objectives, disproportionate costs must be discussed in a more concrete manner than has hitherto been the case in the RBMPs.

EU water related policies

GNF Living Lakes Webinar



Heavily modified Water bodies

After about 20 years of discussion the ministry of transport starts to reconsider infrastructure investments in inland navigation according to actual transport volume.

Gütertransport Prognose 2025

Seewärtige Zufahrten

Classification

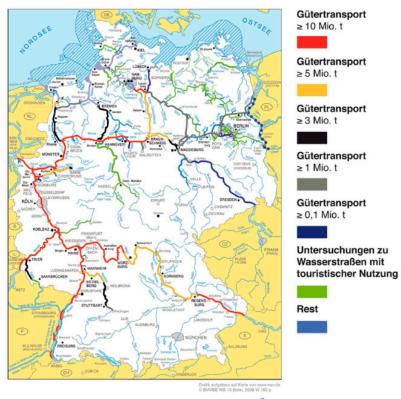
"Bundeswasserstraße" (navigation route of national interest) does not nessesaryly mean heavily modified or artificial Water Body

Current discussion on national waterways:

- > Upgrade and maintainance priorities
- > Tourism
- > Elbe is no longer included in TEN-Projects

EU water related policies

GNF Living Lakes Webinar





Building New large dams – a sustainable solution for Climate Change mitigation?



Tignes dam, Les Breviêres, France. Photo: ©Heidi Megerle 2007

Problems like:

- interruption of biological continuity & change of habitats massively contribute to the loss of migratory fish population like eel and salmon
- > violations of human rights
- => led to World Commission on Dams (WCD) risks and rights based approach

With its final report, the WCD fulfilled its mandate to establish internationally acceptable criteria, guidelines and standards for the planning, design, appraisal, construction, operating, monitoring and decommissioning of dams.

Compliance with article 4.7 WFD (no deterioration) must be a prerequisite for any new hydropower and dam project or other massive infrastructure.

EU water related policies

GNF Living Lakes Webinar



Building New large dams - a sustainable solution for the world?

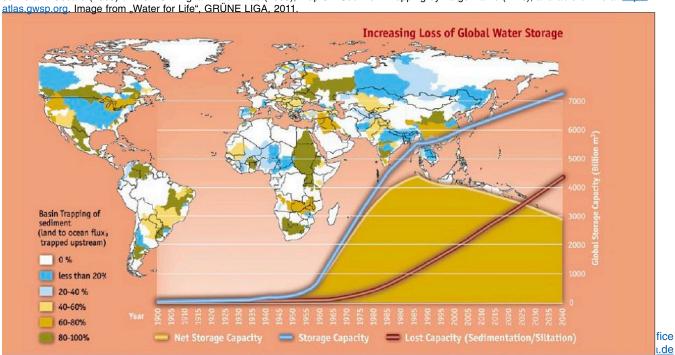
Just one Detail: Sedimentation

Sediments trapped behind dams not only impair the functioning of reservoirs, but are also missing downstream, resulting in increased erosion of river beds and deltas.

The WCD estimates that 1% of reservoir storage capacity is lost per year.

- > Projected dams are not even able to compensate the loss of reservoir volume through sedimentation.
- > 20% of all reservoirs will be inoperable by 2015.

Since the early 1990s, the loss of reservoir space through sedimentation exceeds the storage capacity of newly built dams. Based on data from Jenzerand Cesare (2005) and GWSP Digital Water Atlas (2008), Map 51: Sediment Trapping by Large Dams (V1.0), available online at http://



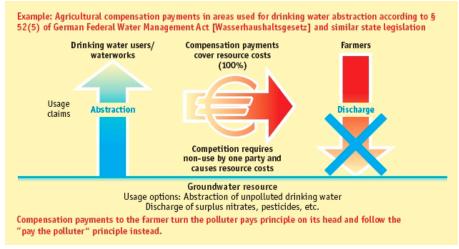


Polluter pays principle and principle of cost recovery

»Conclusions of GRÜNE LIGA:

The polluter pays principle and the principle of cost recovery are set forth in article 9 WFD. In view of its impreciseness and the dispute surrounding the meaning of article 9, it should be remembered that the "polluter pays" principle and the principle of cost recovery have been anchored in German water management and environmental policy for many years.

However, the use of these two principles ranges from nearly full application to no inclusion and anywhere in between, depending on the water use. A more systematic application for all water uses is called for.



EU water related policies

GNF Living Lakes Webinar

To apply the polluter pays principle more consistently: oblige energy producers, mining companies, agricultural business and other intensive water users to pay adequate contributions to the recovery of costs.



Water prices and Water abstraction fees

>

Conclusions of GRÜNE LIGA:

Quantity-dependent water prices for public water supply in Germany, which by and large recover costs, have been a successful model – also when compared to other EU countries – 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.

Current discussion:
Water abstraction fees have recently been introduced in the states of Rheineland Pfalz and Sachsen-Anhalt.

Figures compiled for GRÜNE LIGA by Alexandra Gaulke on the basis of the budgets of individual federal states.

EU water related policies

GNF Living Lakes Webinar





Internalisation of environmental and resource costs

Example from the policy paper: Lack of water abstraction taxes for mining and energy production

Mining and energy production are by and large exempt from a duty to pay in all federal states where a tax or fee is levied on water abstraction. In future, the full rates for water abstraction charges should be applied in particular to these sectors as their water uses are associated with high external costs.

Thermal power stations – which abstract 20.1 billion m³ (2007) of water annually – represent the largest water users nationally across Germany. Coal mining requires about 800 million m³ of additional freshwater.

The long-term negative implications are clear from the decision to set less stringent environmental objectives (according to article 4 paragraph 5 WFD) for nine groundwater bodies in the German Elbe River Basin that are affected by mining because it will not be possible to achieve a good status even by 2027.

Yet there have not even been rudimentary calculations in the River Basin Management Plans nor in the economic analysis which allow the enormous costs of mining and cooling water usage to be quantified.

There is some progress!

Full Water abstraction tax for open pit coal mining has been introduced in North-Rhine Westphalia in 2011.



EU water related policies

GNF Living Lakes Webinar



Internalisation of environmental and resource costs



>>

Conclusions of GRÜNE LIGA:

Water abstraction taxes and the wastewater tax are currently the most important instruments for allocating environmental and resource costs to polluters. The national wastewater tax should be retained. Introduction of water abstraction taxes in all federal states and the expansion of the scope of these usage-linked taxes is a matter of urgency.

There is still a great deal of leeway to (re)design water abstraction taxes in a sensible manner from an ecological and environmental perspective at the state level. This room to manoeuvre should be used promptly in order to achieve the environmental objectives of the WFD. In accordance with article 9 WFD, 2010 would have been a good time for this.

There is a particularly urgent need for far-reaching exemptions, such as for mining and energy production, as well as agriculture, to be removed since these act as subsidies that cause considerable environmental damage. In essence, failure to remove unreasonable privileges for individual groups of users is down to a lack of political will.

EU water related policies

GNF Living Lakes Webinar



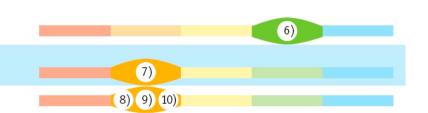
bad/ poor/ moderate/ good/ very good/ never rarely partially often always

7 Harmful subsidies:

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

8 New financial instruments:

- a) Have financing and funding instruments been introduced into water management or expanded?
- b) Have new funding instruments been introduced into other relevant policy fields (policy integration), e.g. funding in agri-environmental programmes?
- c) Have new economic incentive instruments been introduced (e.g. nitrogen surplus tax)?

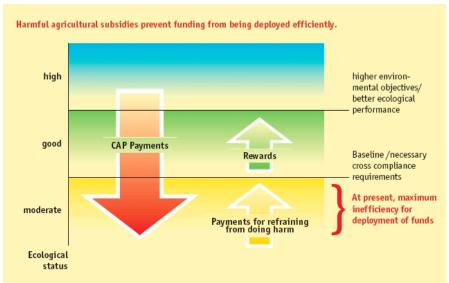


EU water related policies

GNF Living Lakes Webinar



Harmful subsidies



There has been no reassessment or reversal of subsidies for ecologically harmful water uses by agriculture, inland navigation, energy production, flood protection, tourism, etc. in the RBMP's. ...

Conclusions of GRÜNE LIGA:

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

It is necessary to take corrective action for subsidy policy, particularly in the area of agricultural funding, and this must take priority over the deployment of additional grants and funding.

EU water related policies

GNF Living Lakes Webinar



Water related EEB & GRÜNE LIGA recommendations for CAP-reform:

ENSURE STRICT ENVIRONMENTAL OBLIGATIONS IN PILLAR 1 AS FROM JANUARY 1ST 2014: No direct payments to farmers without strict cross compliance including environmental standards based on the Water Framework

Directive and binding obligations for water metering, nutrient balancing, pesticide application and erosion control.

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 Rivere Foundation, Global Nature Fund, Bodenseestiftung, Deutsche Umwelthilfe, Coalition Clean Baltic, DUENE, Quercus and PAN Germany

KEY RECOMMENDATIONS:

1. ENSURE STRICT ENVIRONMENTAL OBLIGATIONS IN PILLAR 1 AS FROM JANUARY 1⁵⁷ 2014:

No direct payments to farmers without strict cross compliance including environmental standards based on the Water Framework Directive and binding obligations for water metering, nutrient balan-

2. INTEGRATE 10 % ECOLOGICAL FOCUS AREAS ON AGRICULTURAL LANDS (COMPUL-SORY AT FARM LEVEL) FOR WATER, SOIL

Mitigate nutrient and positioide effects from agricultural runoff and improve water dependent ecceyetems with buffer strips, wetlands and riparian zones along all water courses, ditches, ponds and lakes. SECURE SUFFICIENT FUNDING BY
EARMARKING 50% FOR AGRI-ENVIRONMENTAL MEASURES, COMPENSATION PAYMENTS RELATED TO WATER FRAMEWORK
DIRECTIVE AND NATURA 2000 AND ORGAMIC AGRICULTURE IN A STRONG PILLAR 2
FOR SUSTAINABLE RURAL DEVELOPMENT:
Support red environmental improvements through
retabilitation of wetlands, floodylations and sparian
habitist, through land use adapted to natural water
dynamics such as publicabilities and extensive

grazing in floodolains, and through water friendly

The following short-list of **basic measures to be included** into the scope of cross compliance was agreed on by the Common Implementation Strategy Expert Group **on Water Framework Directive and Agriculture** in October 2012. They are readily applicable and compulsory for farmers, they need to become cross compliance provisions by January 1, 2014:

- Respecting Compliance with the authorisation for water abstraction (WFD art. 11.3.e).
- 2. Respecting Compliance with the authorisation for the creation of an impoundment that affects a water body or a riparian area (WFD art. 11.3.e).
- Respecting requirements for water metering as implemented by Member States (WFD art. 11.3.b).
- 4. Respecting the prior authorisation for the modification of riparian areas and the requirement for restoration of riparian areas as implemented in the Member States (WFD art. 11.3.i).
- Respecting mandatory requirements to control diffuse sources of pollution by phosphates as implemented in the Member States (WFD art. 11.3.h).
- 6. Respecting requirements for slurry storage and spreading outside of Nitrogen Vulnerable Zones, to reduce diffuse pollution of nutrients and minimise organic pollution as implemented in the Member States (WFD art. 11.3.h).

Note that WFD article 11 lists basic measures as "minimum requirements to be met" in every river basin management plan.

EUROPE'S LARGEST FEDERATION OF ENVIRONMENTAL CITIZENS' ORGANISATIONS





- 2. INTEGRATE 10% ECOLOGICAL FOCUS AREAS ON AGRICULTURAL LANDS (COMPULSORY AT FARM LEVEL) FOR WATER, SOIL AND BIODIVERSITY IMPROVEMENT: Mitigate nutrient and pesticide effects from agricultural and improve water tural runoff 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-ENVIRONMENTAL MEASURES, COMPENSATION PAYMENTS RELATED TO WATER FRAMEWORK DIRECTIVE AND NATURA 2000 AND ORGANIC AGRICULTURE IN A STRONG PILLAR 2 FOR SUSTAINABLE RURAL DEVELOPMENT:

Support real environmental improvements through rehabilitation of wetlands, floodplains and riparian habitats, through land use adapted to natural water dynamics such as paludiculture and extensive grazing in floodplains, and through water friendly farming through organic agriculture.

EU water related policies **GNF Living Lakes Webinar**



Wetlands for Clear Water





Reducing nutrient loads of Baltic Sea tributaries through restoration, creation and management of wetlands

Baltic Sea Case – the use of restored Wetlands to reduce nutrient input

Eutrophication is, along with overfishing, the most severe environmental problem of the Baltic Sea. Baltic rivers carry large amounts of nutrients. About 70% of the nitrogen inputs and 44% of the phosphorus inputs originate from diffuse sources, mainly from agricultural lands. The resulting eutrophication of coastal and marine waters leads to algal blooms which deteriorate marine habitats through drastically decreased water transparency and oxygen depletion. The HELCOM Baltic Sea Action states the goal of "a Baltic Sea unaffected by eutrophication" and addresses the need for action in its "clear water" objective.

In the context of river basin management for Baltic Sea tributaries, wetlands can play an important role in reducing diffuse nutrient inputs from agricul-ture. This is reflected in many water and marine protection policies, from the Water Framework Directive (WFD) to the **HELCOM Baltic Sea Action Plan** to – most recently – the **EU Strategy for the Baltic Sea Region**.

But although wetland management is part of several policies, it is not sufficiently addressed on a strategic level, e.g. in the Baltic River Basin Management Plans.

EU water related policies

GNF Living Lakes Webinar

24 - 25 March 2011 in Greifswald, Germany Greifswald University



Cyanobacterial bloom (blue algae) in the Baltic Sea, summer 2010 Source: ESA -European Space Agency

GRÜNE LIGA Conference Conclusions

- 1. Wetlands are indispensible for nutrient reduction in the Baltic Sea
- 2. Wetland measures need clear priorities
- 3. Wetland strategies need a policy mix to be effective
- 4. Integrate wetlands strategies in River BasinManagement Planning!
- 5. Make use of the high cost-effectiveness of wetlands!
- 6. Factor in the wider environmental benefits of wetlands!
- 7. Adapt and redesign agricultural policies for better wetland management!
- 8. Learning from Sweden: Integrate wetlands in theagricultural landscape!
- 9. Make use of existing "ecohydrological" planningand management tools!
- 10. Support wetland strategies with economic instruments!
- 11. Better wetland management needs communication and information

Distribution of constructed wetlands (red) in Southern Sweden. Map: DAWA 2010, Swedish Board of Agriculture

EU water related policies

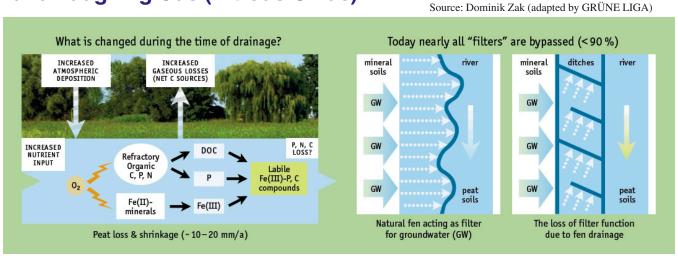
GNF Living Lakes Webinar



Drained Wetlands contribute to Climate gas emissions

Drainage, degradation and unadapted management of wetlands continue to cause significant harm to the Baltic Sea. More than 90% of all fens in the region were transformed into agricultural lands that emit large quantities of nutrients and CO_2 .

Emissions of Carbon Dioxide and Laughing Gas (Nitrous Oxide)



EU water related policies

GNF Living Lakes Webinar

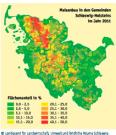




Biomasseförderung leistet aktiven Beitrag zum Artensterben

Die fehlende Eriboziehung der Wassenrahmenrichtlinie in die Bestimmungen zum Greening der landwitschaftlichen Biraktzahlungen verhindertwesentliche Fortschritte bei der Verbesserung der Gewässerungstät im Bewitschaftungszekraum ab 2015. Befür schan in EU-Haushalt Spiritch sehn 40,5 killurden Euro Desart (Basis 2012).

Disser Tatbestand wird in Deutschland durch die Biomassamben-Förderung sliedings noch weit in das Schatten pestellt. Hie werden die in derVergangenheit durch der Bresätzvor milliandenschwaera Investitionen in den Itälizenlagenbau erreichten Fostschritzt in der Lewassregulantzt vor stallen hinterfühlte der Martorthautstung durch die von sillen Bürgern zu zahlende EEG-Unlage altw zunichte gemacht.



© Landesamt für Landwittschaft, Umwelt und ländliche Räume Schleswig-Holstein, Abteilung 4 Gewässer

Der sprunghaffe Amstieg der Hattmonokulturum für den Blomasse nacht neigen des matterliche Auszelle. In eilungen Gebitsteil der Leutz in Schlessing-Holstein wird Innertoten auf über 50% der Gemeindelliche () Meit angebach er Hünstliche Nationen verstärkt selbst in norddeutschen Talland die Bodendegradation und Geschlen der auf des der deutsche Verlag der Enchafteren Acksoholom seint tet der als vermeihrer Einerag om Sand, Bünger und Pestische in des Friben und Gesche werden.

Biomasseförderung

- Wasserentnahmeentgelt im Bundesvergleich
- Agrar-Reform muss Gewässer besser schüt
- Ventalit/Tonnanium

Kontakt/Impressum

Ber Silemstanbau mecht auch vor Schutzgebisten nicht halt. Auf seitigen Richen des Biosphärerssezust schrichtigkeit. Abmeiste seit 2000 bereits im tusten abhr in leige Meis engeleitung in seit zum der Ausselfung des Anhabs vom Einespleitungen leitzt erkem direkt ein Beitrag zum Artemetzehn (vgl. Meister- und Landschaftgefleger Standschaftg. Hilf 4/2011 mit den Einpfallungen der Batterials Berückeitung der 4/2011 mit den Einpfallungen der Batterials zu. Häuge ungegflügt und deutstenspendelse Gebristense am Uter des geben ungegflügt und deutstenspendelse Gebristense am Uter des despellet.

beim Entsorgen der Gürneste zum zusätzlichen Einsatz schwer kalkullerbarer Hengen von Wirtschaftsdünger. Die Bioraektoren werden danüber hinaus terlevois mit importierter Biomasse betrieben, deren Gürneste nicht wieder reexportsert werden.

uer amenutne zuwachts sein sichmissindur unt in einigen Gebieder zu erheblichen Belastungen von Grundvasser, kleineren Fileßgewässern und Seen, der Küsten- und soger der Neeresgawässer und konterkeriert die bisherigen Erfolge der Anstrengungen der Bundesländer

Del Einstel Instelle Einstell Einstell Einstell Einstelle Einstell

EU water related policies

GNF Living Lakes Webinar

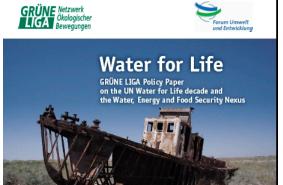
Harmful subsidies

Additional pressure on water resources is caused by the massive increase of public money spent on **biomass payments** in the context of renewable energies policies. Truly alarming developments can be observed in Germany. Artificially created high returns of biomass production, mostly maize and rapeseed, have led to drastic increases of the price for agricultural land. Investments in these lands compete with agricultural use for food production. In light of the low net renewable energy gain of biomass production through conventional farming, these production schemes need much stricter environmental criteria.

As of 2011, approximately 17 % of all arable land in Germany was used for biomass production (2 million hectares). Particularly the increase in maize production has in many areas resulted in a significant deterioration of the status of Germany's waters. The modest successes of agrienvironmental schemes and other measures that had been achieved in reducing eutrophication are literally overrun by these developments.

From official estimates it can be clearly concluded that with current impacts, the environmental goals of the Water Framework Directive and the Marine Strategy Framework Directive will not be achieved in any of the groundwater bodies classified in bad status in 2009, in all coastal and marine waters (Baltic Sea and North Sea), as well as in most rivers and lakes e.g. in the state of Schleswig-Holstein.

















The handling of our water resource is mainly driven by sectoral water de mands. It still Lacks a Water Manage ment approach that integrates a wife during of policies and economic activities taking into account ecosystements. This policy integrative rould much better reflect how my a use water not only economically, but water not only economically, but so socially and culturally – for pools as cally a continual of the policy of the p

des climats changs, them are her auguste of a globally changing and global that all influences the water opcure has a population growth, land use of water works are not claused by district change and one string tampers, many so are not crossed by districts change attend searchy and desights, but the water water government. Plansamment is not water and the strength of funding— no matter if public riviate — offen inding now driving yout and as-

ntation when they are needed most. Overuse and pollution of surface water and groundwater continue to pose a threat to human lives and to the prospects for humane bring conditions and increasingly impair diversity and productivity of natural ecosystems.

first Water Decade in War ded Plats in 1000, water has been high on this interactional agenda. If they are to be associated in the long run, astroad and global development spelicia can ded global development spelicia can set ignore to surface that availability of natural resources. As Appenda 21 monty activation of the properties of natural properties. As Appenda 22 monty activation of the properties of t



WFD-Policy Papers and WRRL-Infonewsletters on www.wrrl-info.de





EU water related policies

GNF Living Lakes Webinar





in Germany and in Europe

Can we do it? Yes we can!

The European Citicens Initiative

"Water and sanitation are a human right!

Water is a public good, not a commercial product!!"

has been signed by about 1.9 Million European Citizens thus making it the first successful European Citizens Initiative ever. European Parliament and European Commission talked to the initiators on 17th February 2014. www.right2water.eu



GRÜNE LIGA -Water Policy Office Michael Bender, wasser@grueneliga.de

EU water related policies

GNF Living Lakes Webinar





EU water related policies

GNF Living Lakes Webinar