

GEF International Waters Indicators

Process Indicators

- Indicators which establish frameworks for improving transboundary environmental/water resources quality or quantity but do not in and of themselves deliver improved transboundary environmental/water resources quality

Stress Reduction Indicators

- Indicators which characterize specific reductions in environmental stress on shared water bodies, e.g. reduction in pollutant releases, more sustainable fishing levels and/or practices, improved freshwater flows, reduced introduction of invasive species, increased habitat restoration or protection, etc. Best reported against baseline year/level (e.g. mt/yr in 2000 and 2005)

Environmental/Water Resources & Socioeconomic Status Indicators

- Indicators which provide evidence for the environmental or water resources status of shared waterbodies. These indicators are usually ‘static’ snapshots of environmental, water resources or socioeconomic conditions at a given point in time so, like Stress Reduction, are usually reported against a baseline year and level to show change/improvement.

Foundational project – Generic P & SR Outcomes

- Multi-country agreement on transboundary priority concerns, impacts and causes (P)
- Multi-country Agreement on governance reforms and investments to address priority transboundary concerns (P)
- Effective national Inter-ministry Coordination (P)
- Stakeholder involvement in transboundary waterbody priority setting and strategic planning (P)
- Multi-country waterbody legal framework adopted and/or strengthened (P)
- Newly established and/or strengthened (existing) transboundary waters institutions (P)
- Financial sustainability of joint transboundary waters institutions (P)
- Pilot/demo projects demonstrate stress reduction measures on initial priority concerns (SR)

SAP Implementation CB/TA Project – Generic P, SR & ESS Outcomes

- Effective national Inter-ministry Coordination (P)
- Stakeholder involvement in SAP implementation (P)
- Adoption and implementation of national and regional legal, policy and institutional reforms that address priority transboundary concerns (P, SR)
- Newly established and/or strengthened (existing) transboundary waters institutions (P)
- Financial sustainability of joint transboundary waters institutions (P)
- Pilot/demo projects demonstrate stress reduction measures on priority concerns (SR)
- Reduction in water pollution levels, increase in fisheries biomass, increase in local per cap incomes, etc. (ESS)

SAP Implem – Investment Fund; Demo projects – Generic P, SR, ES Outcomes

- Stakeholder involvement in preparation and implementation of investments or demos (P)
- Adoption and implementation of national and regional legal, policy and institutional reforms that address priority transboundary concerns (P, SR)
- Stress on waterbody reduced through completion of investment or demo (SR)
- Stress reduction investments or demos being replicated (SR)
- Reduction in water pollution levels, increase in fisheries biomass, increase in local per cap incomes, etc. (ESS)

SAMPLE INDICATORS

Mt/year of nitrogen reduced
by a Bucharest, Romania
wastewater treatment plant
co-funded by GEF and the
World Bank

Adoption of a SAP by the FrePlata countries

Level of Chlorophyll-A
in surface waters of the
Black Sea in 2005

Number of fish species
identified in the Kura
river basin in 2007

Adoption of Fisheries
protocol to the Bucharest
Convention (Black Sea)

Completion of TDA for the Yellow Sea LME

500 kg of mercury
emission to Mekong river
reduced (2002-2006)
through improved artisanal
mining practices

With PEMSEA help,
Danang, Vietnam
prepares and adopts its
Integrated Coastal
Management Plan

Buy-out of 20 percent of
Yellow Sea LME fishing
fleet capacity

Western Pacific Island states
adopts Convention for
Management of Highly
Migratory Tuna Stocks; GEF
helps SIDS participate

Suspended particulate matter
concentration in surface
waters of Lake Tanganyika in
2005

500 ha wetland
protected in the Tisza
river and under effective
management

Caspian Sea environmental
convention adopted at
ministerial level

Trophic index for
Humboldt Current Large
Marine Ecosystem in 2006

\$ value of Tanzania and
Mozambique fish exports in 2007
through sustainable harvesting of
previously unexploited fisheries
resources in the Agulhas Current
LME (against baseline of \$20
million in 2003)

Benguela Current
Commission established via
ministerial signature of
agreement at high level
meeting

Number of jobs in
Romania's sustainable
agriculture industry in
2007 (vs. Baseline of
2003)

EU-financed investment in
Constanta, Romania
wastewater treatment plan
reduces nitrogen emissions to
Black Sea by 30 mt/yr

15% increase in Niger River
water flows to the Niger Delta
(vs. baseline) through
improved upstream water
resources management and
water use efficiency

2,500 hectares of Niger
Delta mangrove restored

7 Pacific Islands states
adopt national tuna
management plans

Albatross death rate lowered
by 37% (2005-2007) through
use of improved long-lining
technologies on Patagonia
Shelf LME

Demonstrated establishment
and operation of Kura River
basin interministerial
committees in each country

Aral Sea salinity in 2005

Average concentration
(ug/g) of PCBs in Volga
delta (Caspian Sea)
sediments in 2002

15% increase in agricultural
water use efficiency in Lake
Chad basin (2001-2006)

Niger Basin Authority adds 3
new technical posts based on
recommendation of GEF-
funded NBA institutional
review

Global community adopts
Ballast Water/ship invasives
convention through IMO-
mediated process over 5 years
(no direct GEF support)

Areal extent of Aral Sea
(km²) in 2007

Independent adoption of a
lake basin convention in a
GEF project site
(no GEF \$ support)

50% increase in
consumers using non-
phosphate detergent in
the Danube basin, 1999-
2005

% of Dnipro River
industries practicing
cleaner production in
chemicals
manufacturing in 2007
(vs. base year of 2004)

Average concentrations
of Polycyclic Aromatic
Hydrocarbons (PAH) in
Dnipro river water and
sediments in 2005

International Commission
for the Protection of the
Danube River fully
financially sustainable
following 15 years of GEF
support in the Danube

Average biomass of
western Pacific
yellowfin tuna stocks in
2006

% reduction (2003-2006)
in Xiamen, China
aquaculture facilities
applying antibiotics to
cultured stocks

Increase (2004-2007) in %
of large container ships
applying open ocean
exchange of ballast water

20% increase (2005-2008) in
annual renewable
groundwater supplies in Egypt
through application of
managed aquifer recharge
(MAR)

Nubian Aquifer countries
agree on suite of capacity
building measures to
strengthen the Nubian
Joint Authority

Average concentration of
methyl-mercury (ug/g) in
sampled Amazon River
basin fish in 2006

Fiji government fully finances
and constructs new wastewater
treatment plant in Suva, reducing
BOD emissions by 1,000 mt/yr
and N emissions by 170 mt/yr