

Estimations of additional costs for combating eutrophication in changing climate – Task 4.4

BNI will estimate the additional potential cost to obtain the basin-wide water quality targets of the Baltic Sea Action Plan due to climate-induced changes in the Baltic Sea. This will be done in two different approaches:

Approach one:

The change in the water quality for each basin will be obtained from the biogeochemical models in ECOSUPPORT. The worsening of the water quality in relation to the BSAP targets (delta change) will be used to approximate the cost per basin of the extra nutrient (N and P) load reduction necessary to obtain the water quality targets in a changing climate. The approximations will be based on the costs reported in the study by Katarina Elofsson (Baltic-wide and Swedish Nutrient Reduction Targets, Report to the Expert Group for Environmental Studies 2010:2, Ministry of Finance 2010).

Approach two:

In close co-operation with the Bonus project “RECOCA” (Reduction of Baltic Sea Nutrient Inputs and Cost Allocation within the Baltic Sea Catchment, co-ordinated by Christoph Humburg, BNI) the updated cost model will be applied to approximate the cost of the BSAP.