BUSINESSEUROPE

Industry and IPPC

Dr. Peter Breidenbach, Chairman,
BUSINESSEUROPE IPPC Task Force

HES II Study Tour, Brussels, 4 November 2009

IPPC

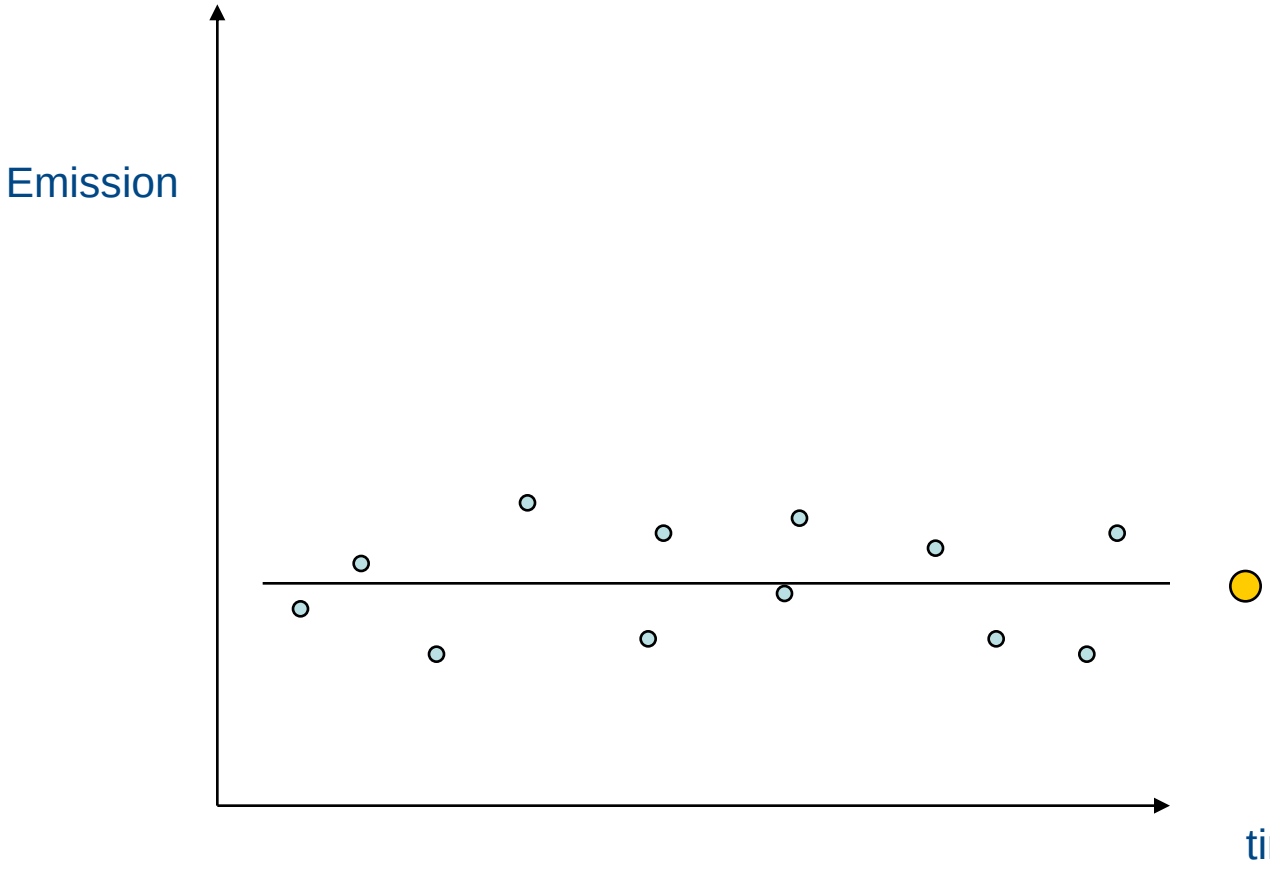
Industry supports IPPC because

- Best Available Techniques,
- Flexibility, and
- Integrated Approach

allow economical and ecological production

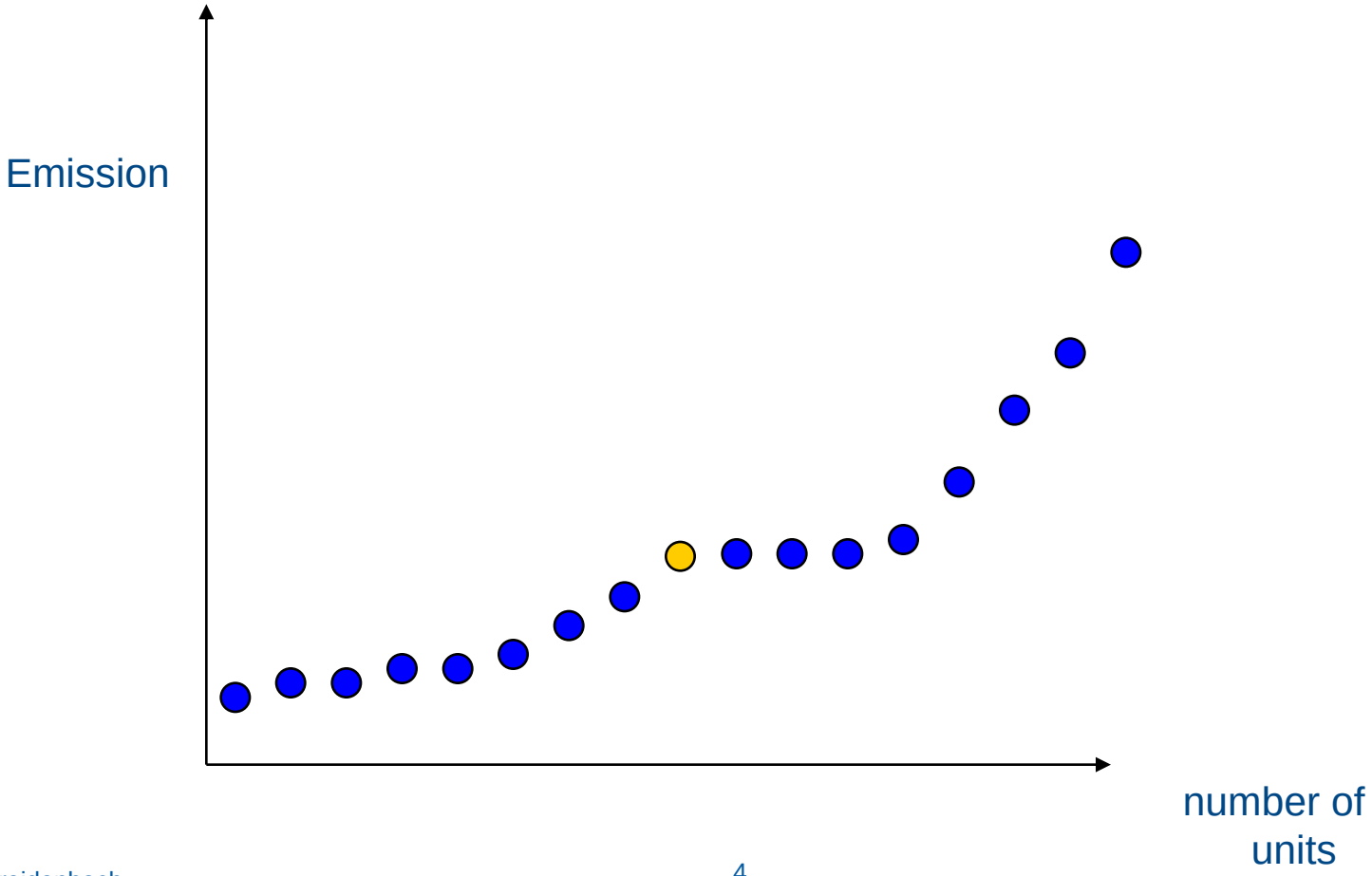
IPPC BAT

Emissions of a unit over time result in an average value



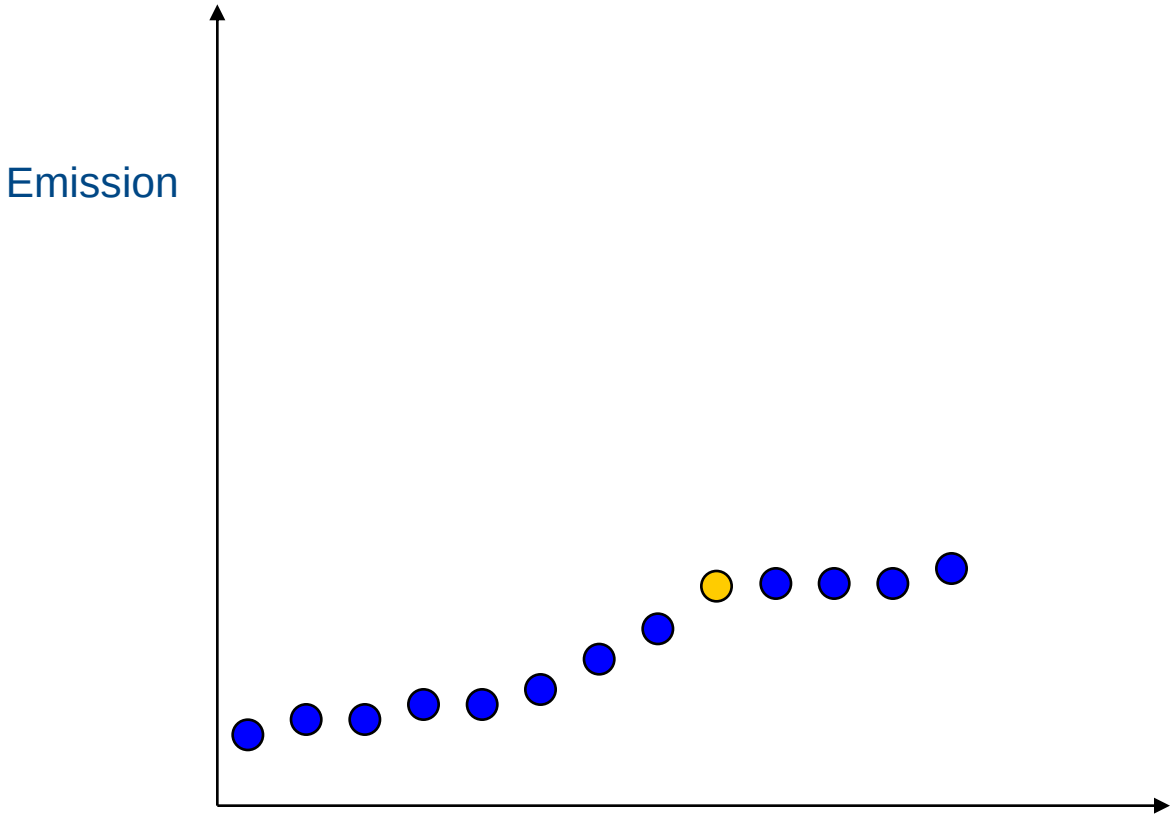
IPPC BAT

If this value is compared with the emissions of other productions …



IPPC BAT

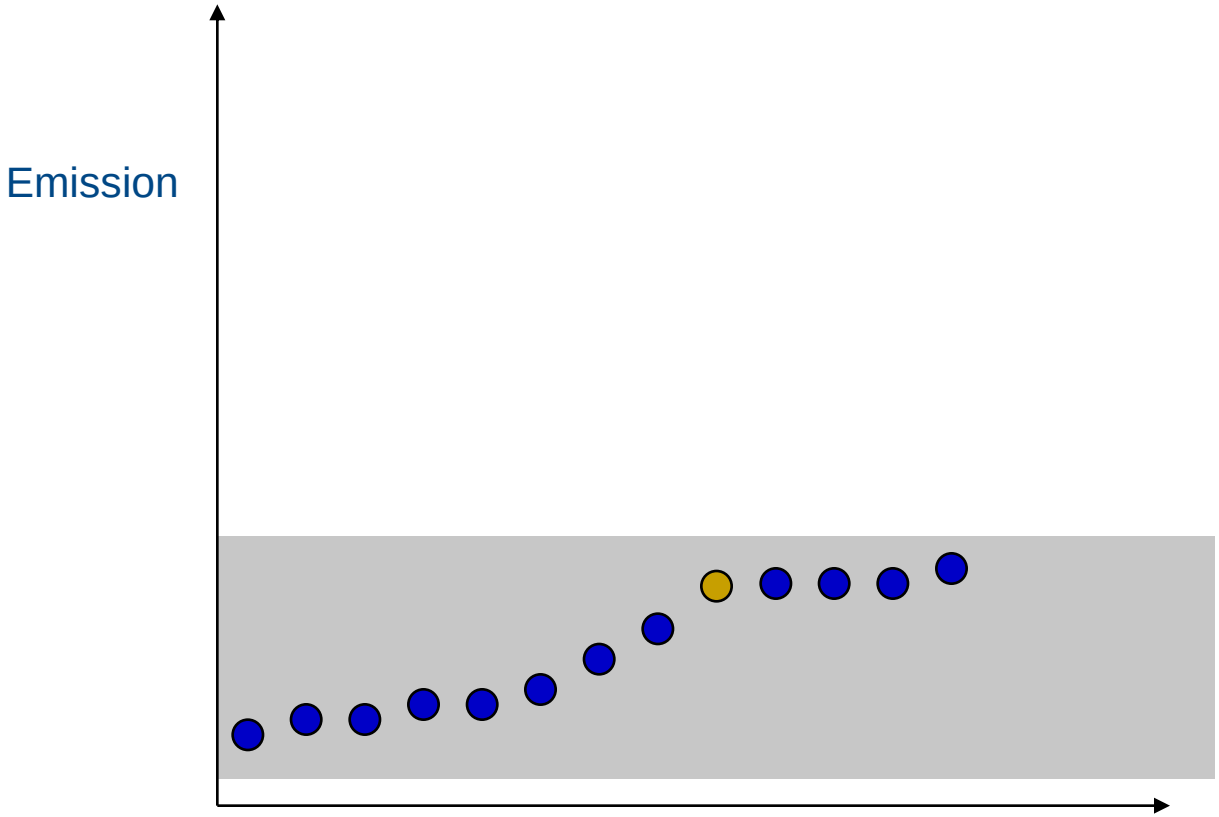
… one can define Best Available Techniques, BATs, and …



B est
A vailable
T echniques

IPPC BAT

… consequently, emission levels that can be achieved while applying BATs or equivalent techniques.



B est
A vailable
T echniques
A ssociated
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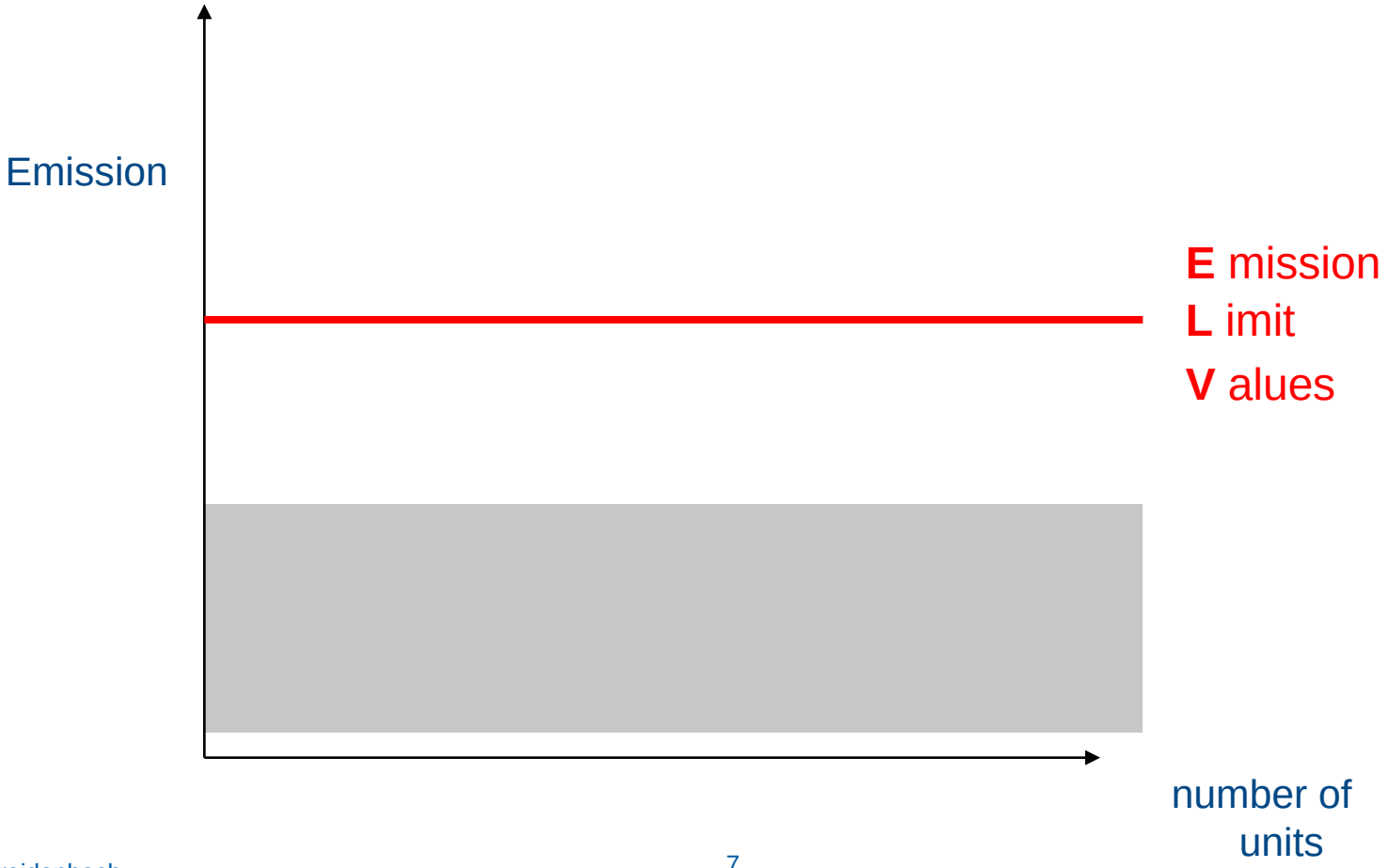
L evels

IPPC BAT

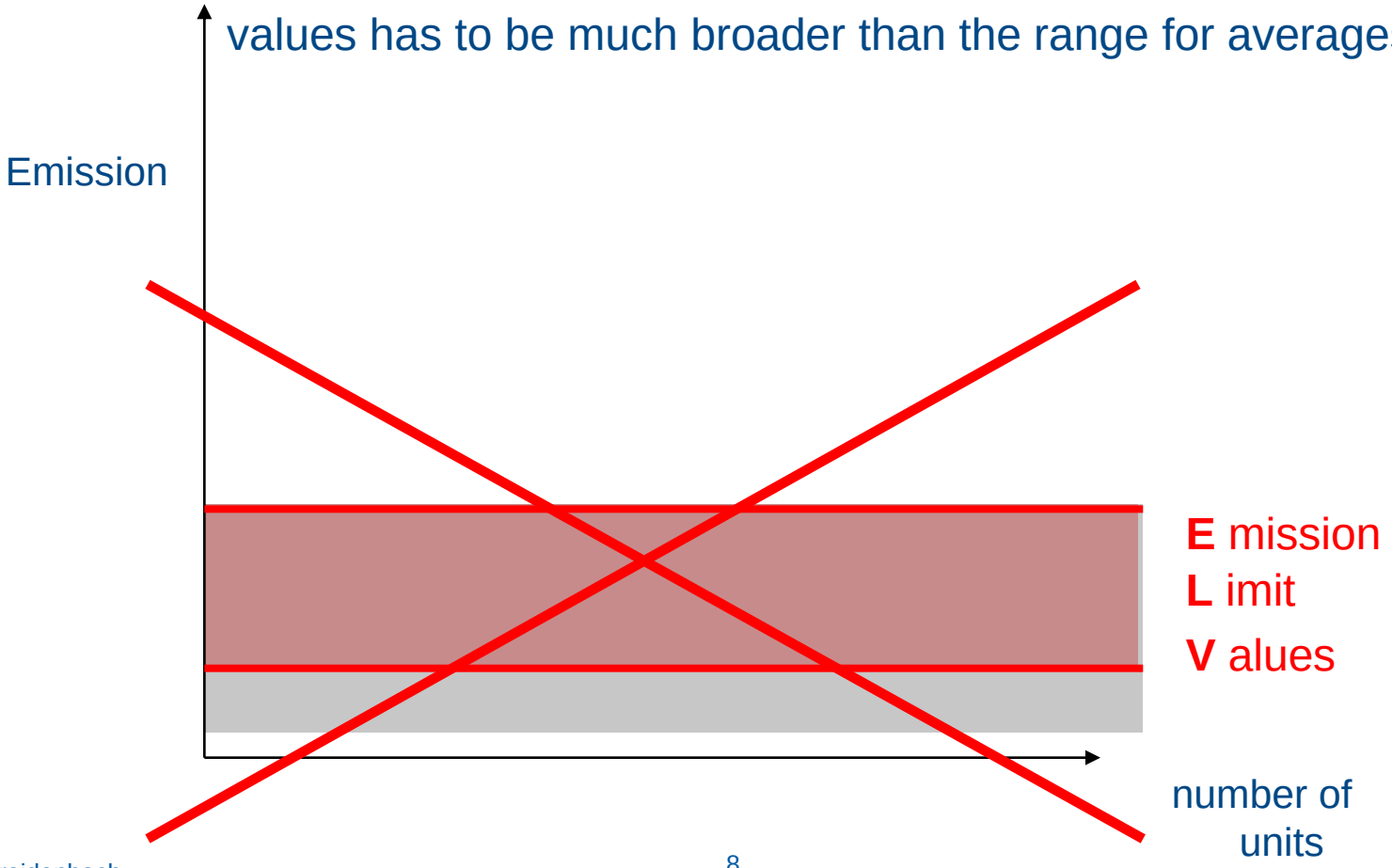
One way to achieve “BATAEL-emissions” is to set Emission Limit Values (ELVs) in a way that average emissions are within BATAEL



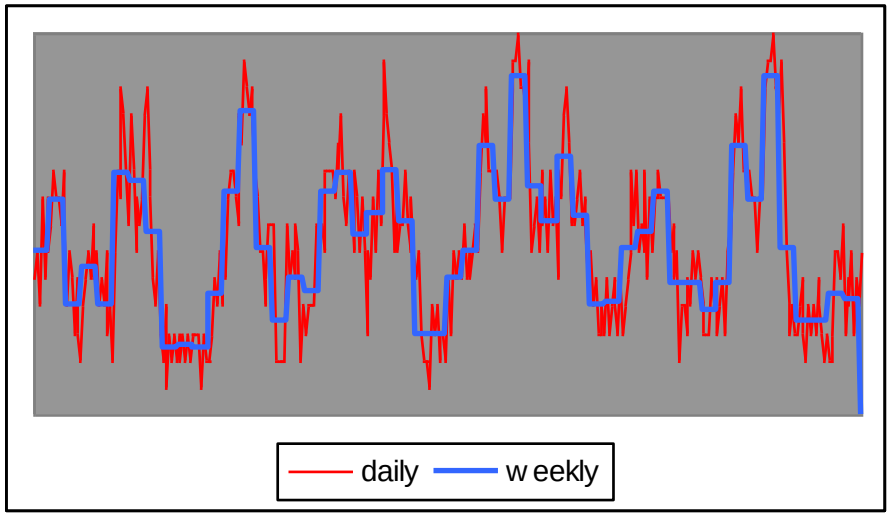
IPPC BAT

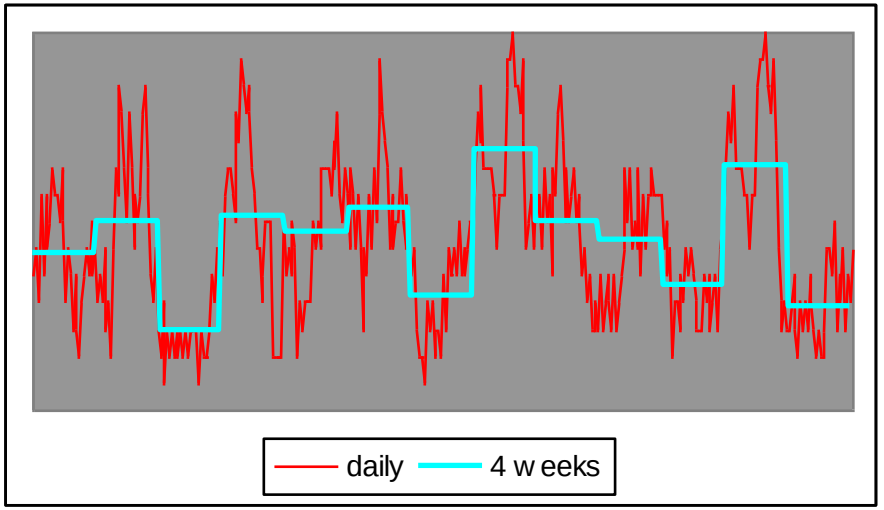
However, if ELVs are set too low, undesirable costs would result in fullfilling the demands!

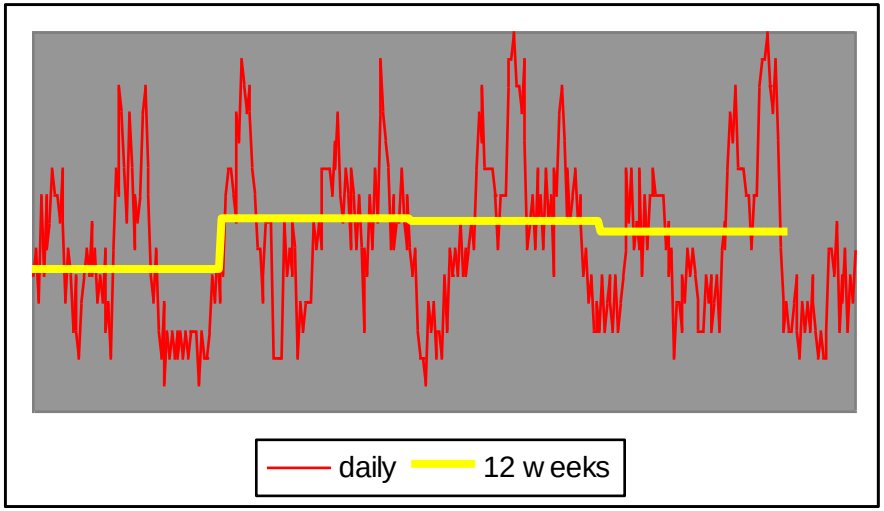
As can be seen on the following chart, the range for instantaneous values has to be much broader than the range for averages!

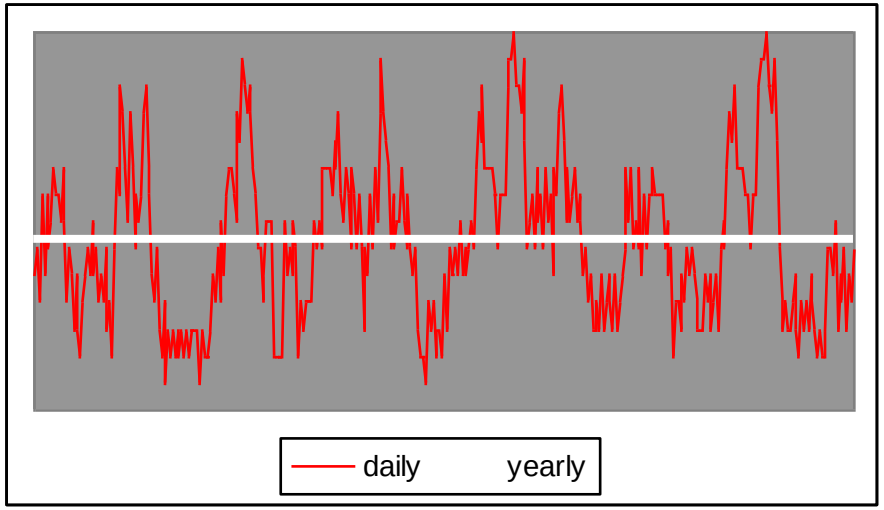


IPPC Averages



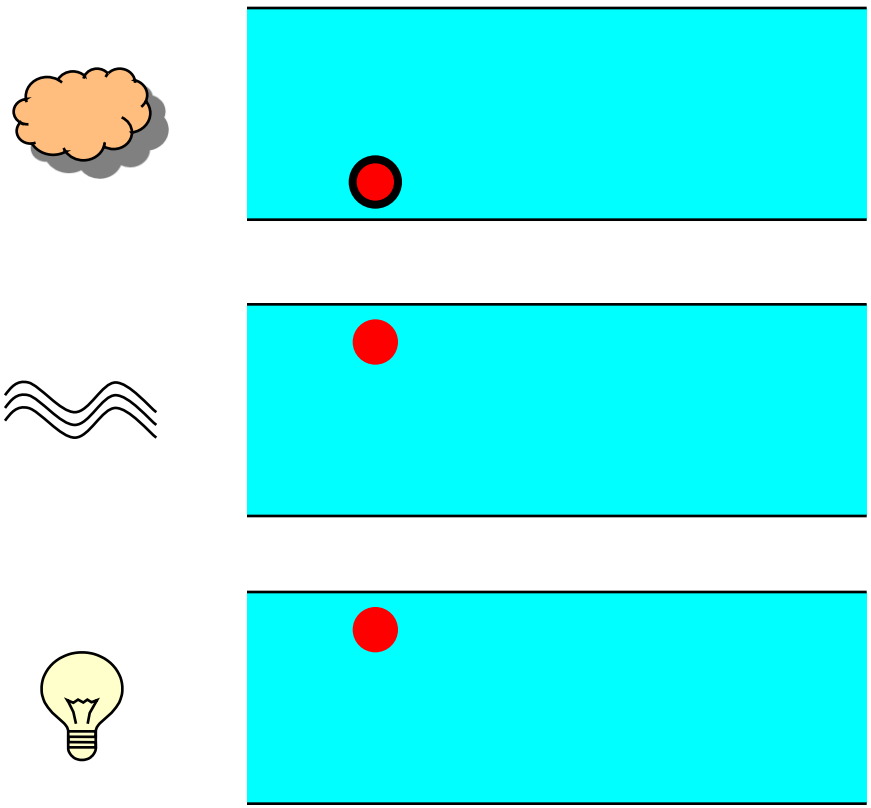






IPPC

Flexibility

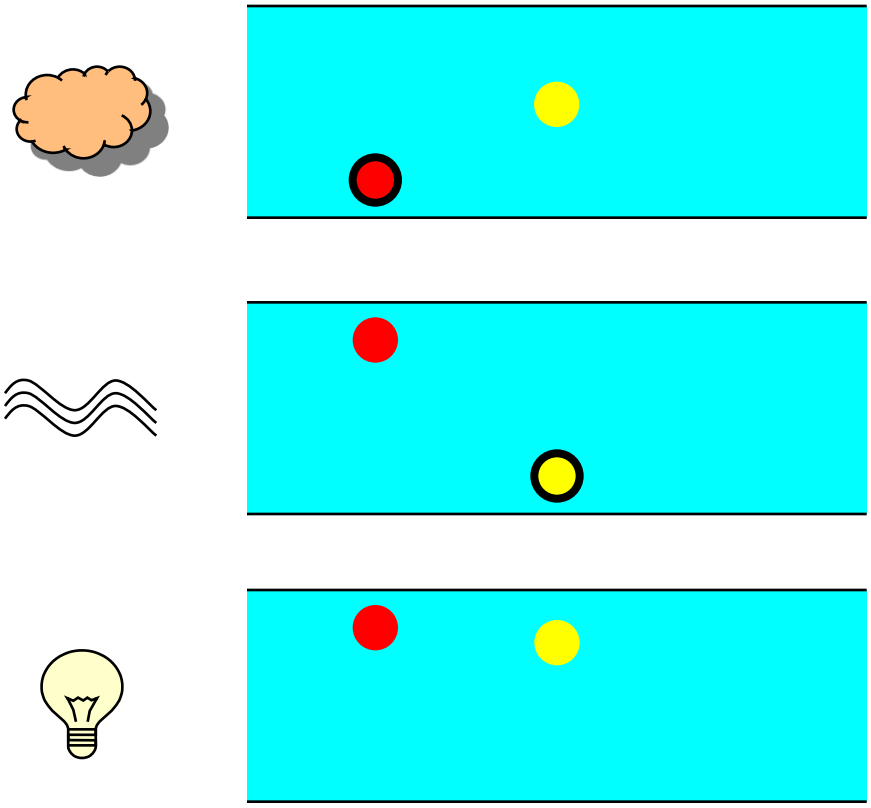


If an installation has minimized its emissions to air (e.g. because of local restrictions), but has, therefore, higher emissions to water and a high energy consumption (equivalent to CO_2, SO_2, and NO_x emissions) …

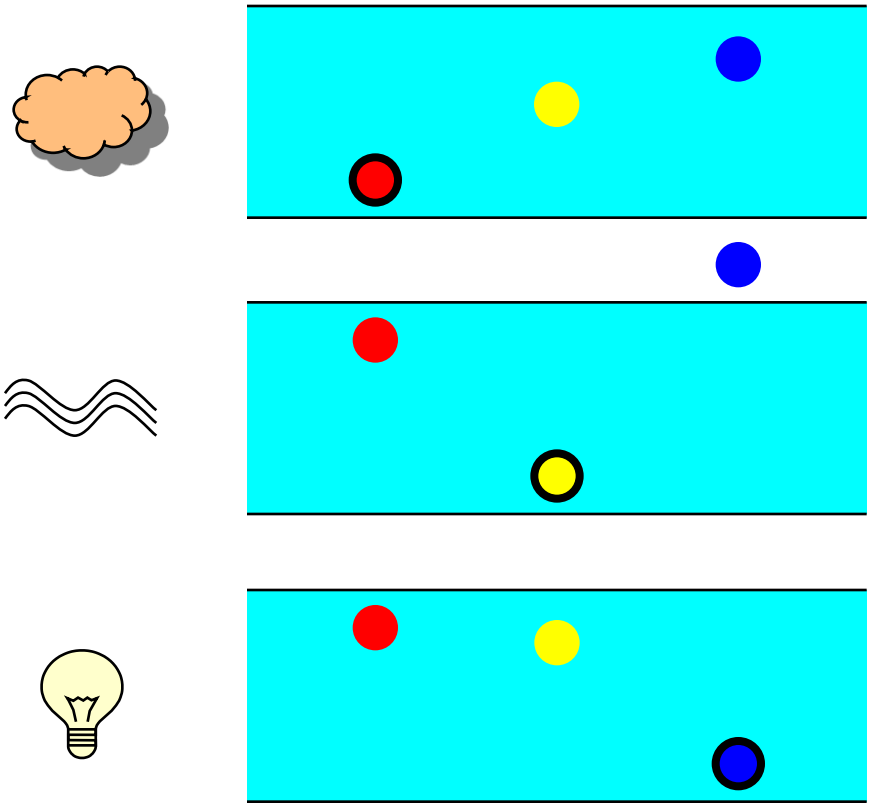
IPPC

Flexibility

… and another installation, having minimized its water emissions because of restricted availability of water, and …



IPPC Flexibility



… a third installation, having optimized its energy consumption (though having water emissions above BATAEL):

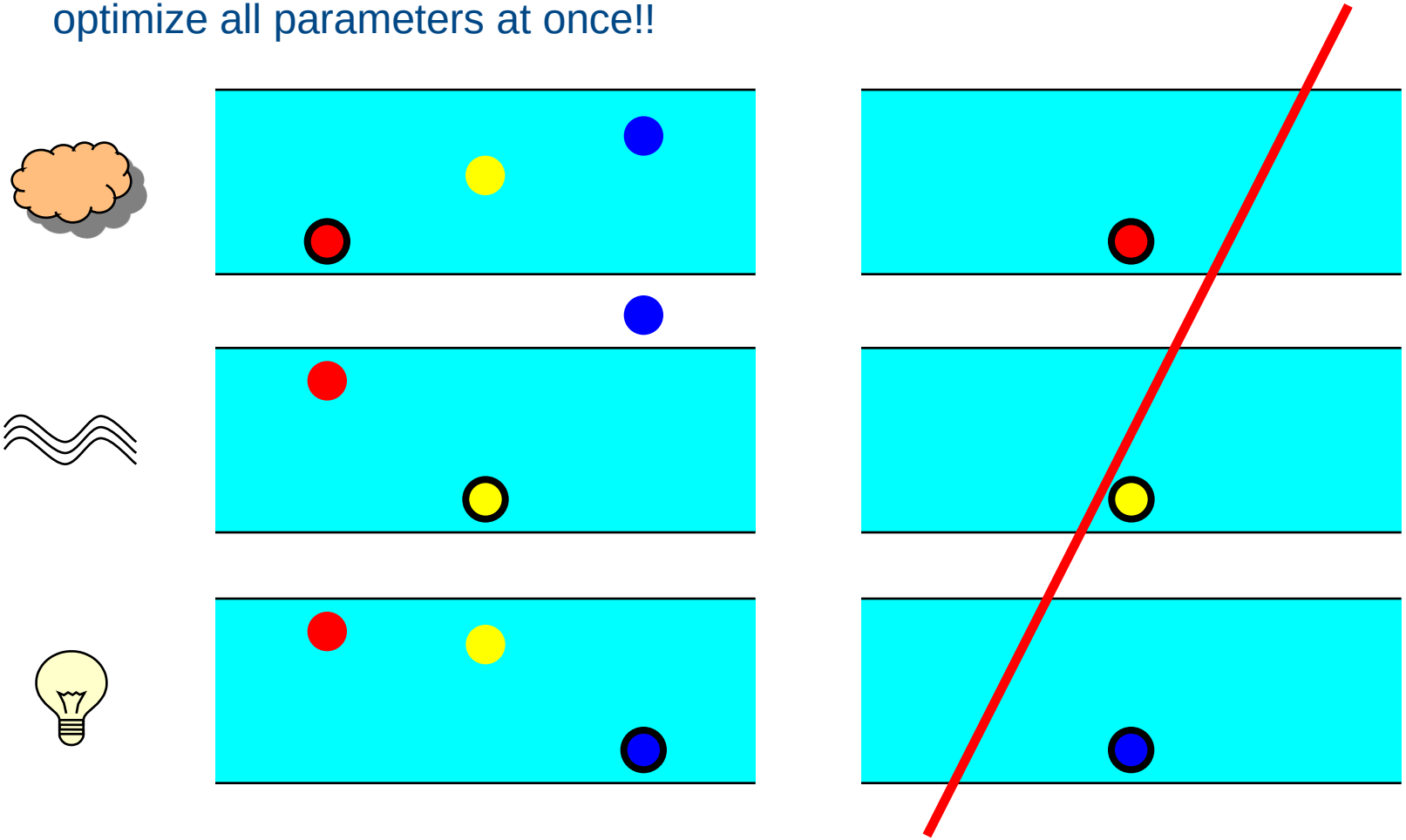
All units obey the IPPC principle because of the so-called

Flexibility Principle

which considers local circumstances.

IPPC Integrated Approach

At the same time this demonstrates the **integrated approach** of IPPC because the goal is to protect the environment as a whole. Which means it is invalid to optimize all parameters at once!!

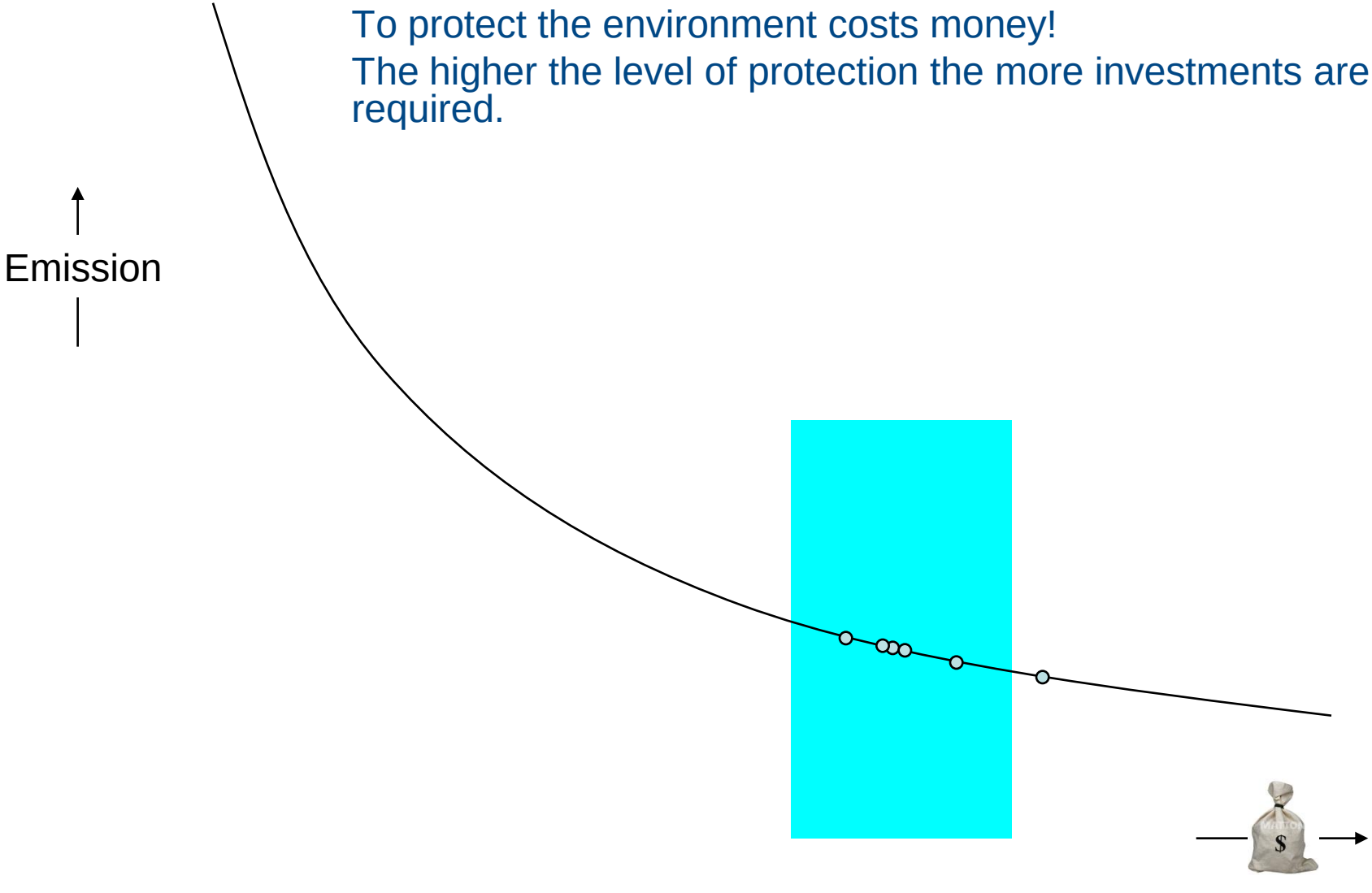


IPPC

Cost effectiveness

To protect the environment costs money!

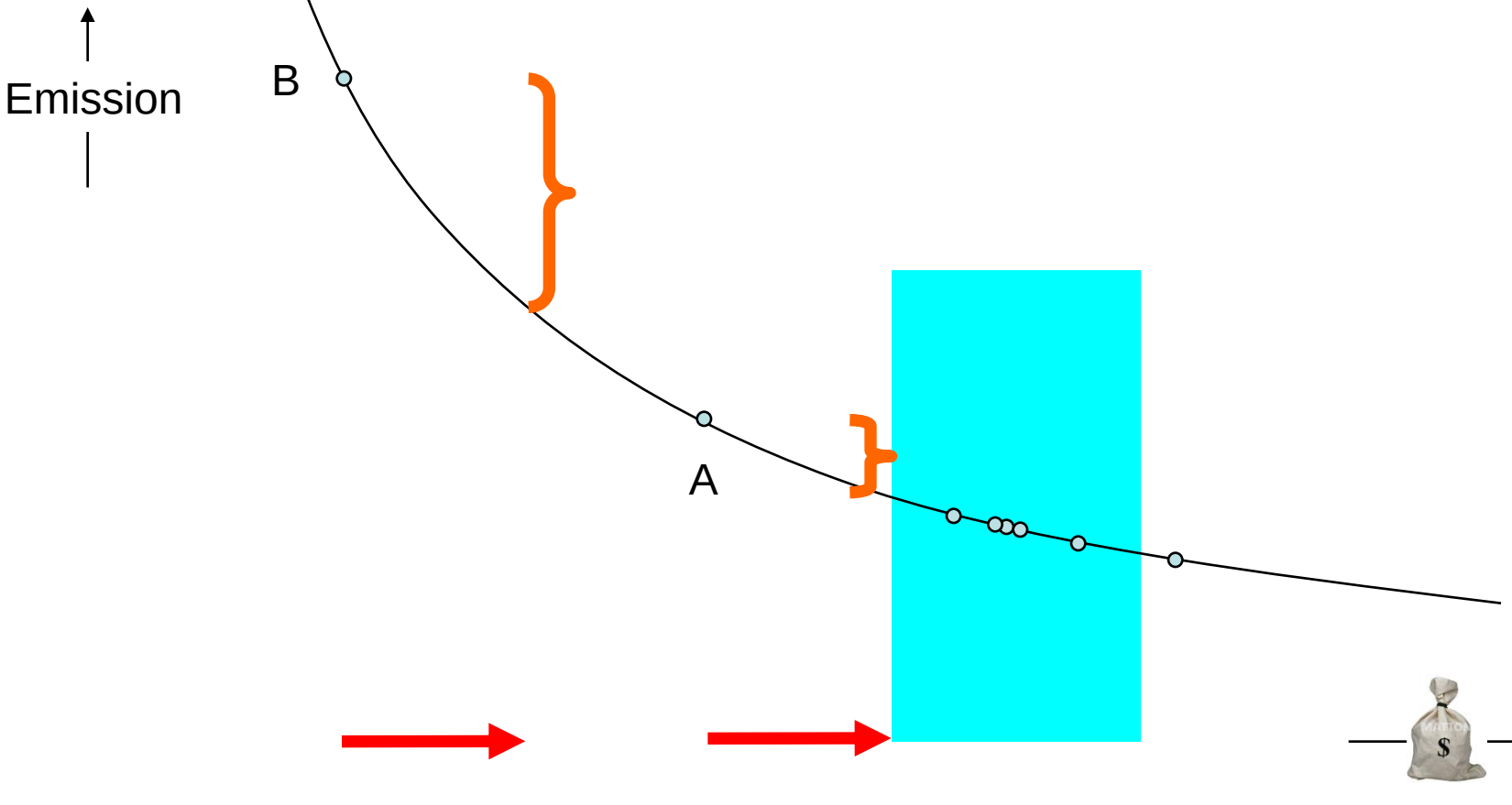
The higher the level of protection the more investments are required.



IPPC

Cost effectiveness

It's important to consider that bringing an installation "B" closer to the BAT(-AEL) range requires the same amount of effort than bringing "A" into BATAEL, but results in a much higher efficiency with regard to environmental protection!



IPPC YES !

BAT-principle is good

but

- Flexibility must be guaranteed
- Integrated Approach has to be maintained
- Cost effectiveness is essential

The goal of IPPC is a high level of protection of the environment,

not the highest possible