**Sustainability and the environment**

* Define the concept of environmental sustainability. Evaluate a management strategy at a local or national scale designed to achieve environmental sustainability.

The concept of sustainability can be applied on all scales, different geographical environments and environmental, social and economic activities. If society continues as usual, the increasing ecological footprint will result in an ecological debt.

**Environmental sustainability:** Meeting the needs of the present without compromising the needs of future generations.

Environmental Performance Index (EPI)

Environmental sustainability index, developed between 1999 and 2005 by Yale University, was replaced with the EPI in 2205, focusing on outcome-orientated indicators. First: Iceland. Last: Sierra Leone.

Masdar city – aims:

Zero waste, zero carbon and fossil fuel free. Achieving these includes:

* Producing all of its energy through **renewable sources** (solar, wind, geothermal and hydrogen)
* Eliminating waste through **recycling**. Biological waste will be used as fertilizer. Any waste that cannot be recycled will be incinerated to generate electricity.
* Pedestrianizing the city and only using public transport within its boundaries.
* Designing buildings that both maximize natural light and allow air to circulate, reducing lighting and air conditioning.
* **Educating** all citizens every year on sustainability methods.
* Desalination of water using solar energy and recycling grey water for irrigation.