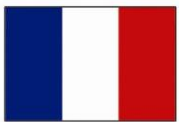




# European Union Comenius Multilateral School Partnerships Project "Greener World"



France



Spain



Italy



Portugal



Poland



Slovakia



Turkey

**The World  
Eco  
Problems**

# Dangerous landfills

- 40% of the world waste
- the poorest countries
- dangerous for environment
- infections and diseases

# Senegal



→ Located in Africa, Dakar

- 1300 tones of garbade every day (475 thousand tones every year)
- In the past just biodergadable waste
- These days toxic chemical and electronical waste





- 1000 recyclers living nearby, 400 on the site
- School, medical and religious centre



Pape Ndiaye (57)

- More than 50 huge landfills
- 60 millions people around the world are endangered
- Toxic fumes infect water
- This sites aren't regulated or controlled



# Arrangements for solving problems with waste

- Sweden –needs to recycle waste from Norway to fuel its energy programmes
- Germany – ecological supermarket
- Family which doesn't produce any waste <https://www.youtube.com/watch?v=W3Gu4qTvbJU>

<https://www.youtube.com/watch?v=ZQiqHgE0h3U>



# Energy problems

- Lack of coal, gas, oil – they aren't good for environment
- dangerous fumes, oil rigs collapses...
- Atomic energy covers 17% of energy production





# Water and Wind Power Plants

- Renewable sources of energy
- Do not produce emissions
- Minimal environment disruption
- Wind power plants – a need of many turbines, dependent on force of wind
- Water plants – damming the watercourse, eviction of citizens required

# Solar thermal power plants

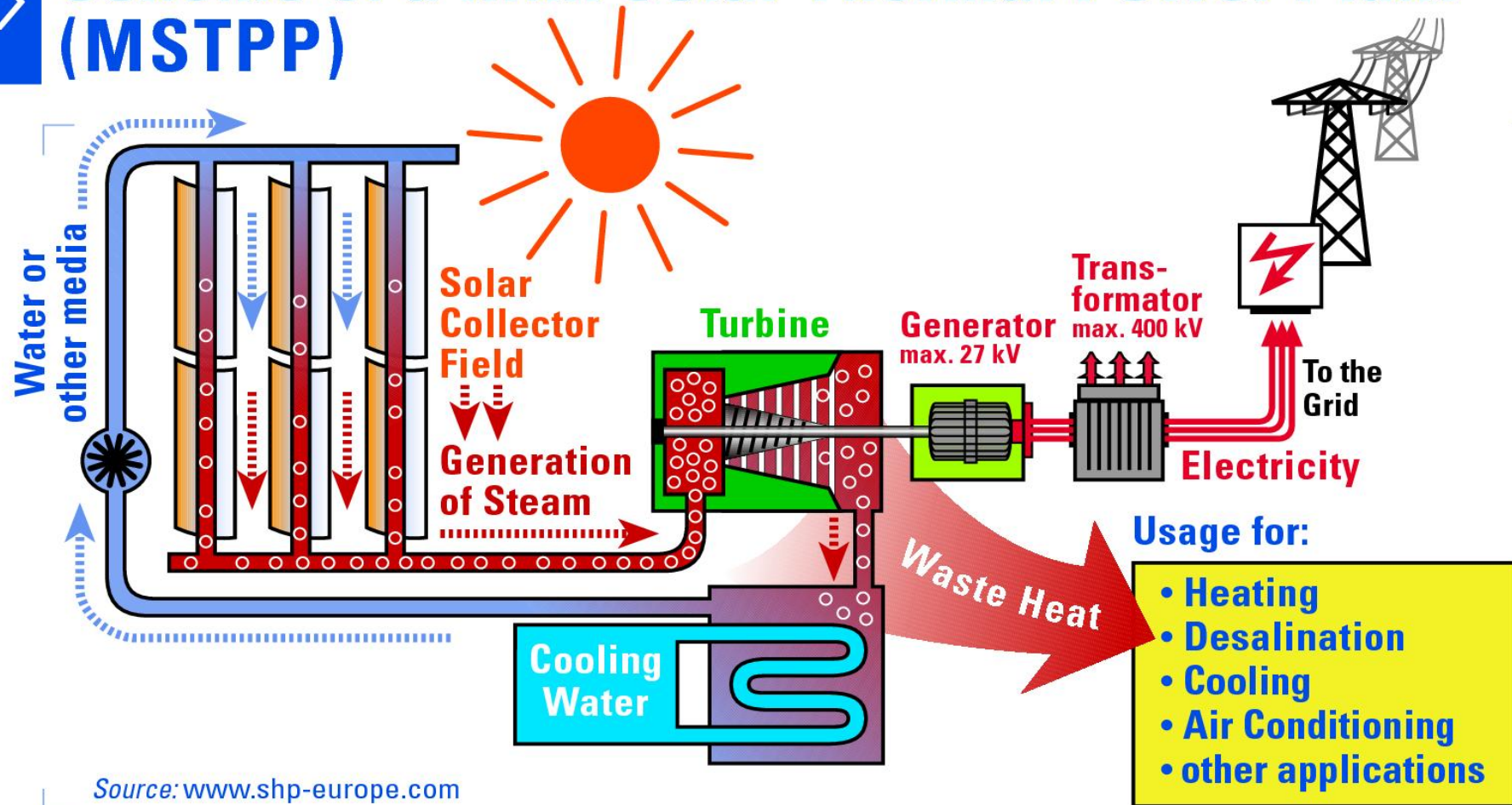
- Deserts – 14% of our planet
- Temperature 40-50 C
- 83000 km<sup>2</sup> would cover all world energy consumption

# **Project of solar thermal power stations – Sahara desert**

- Organisation Desertec (found in 2009)
- 21 financiers, 35 partner firms
- 2050 – energy for north-african countries and 15% of Europe
- 400 billion €
- New technology – Concentrated Solar Power
- <https://www.youtube.com/watch?v=tdivW7inP0k>



# > Scheme of a Mini Solar Thermal Power Plant (MSTPP)



Go to where the market is! [www.fair-pr.com](http://www.fair-pr.com)

IMPLEMENTING NEW IDEAS

EVERS





# Aral Sea disapearing



- Location: Central Asia - border of Kazakhstan and Uzbekistan
- Original size: 68 000 km<sup>2</sup>
- Actual size: 3 300 km<sup>2</sup> (North), 3 500km<sup>2</sup> (South)
- Catchment area: Syr Darya - North, Amu Darya - previously South





# Soviet project - expectation









Арал  
Aralsk

Барсакельмес  
мемлекеттік...  
Barsakelmes  
Nature Reserve

Айтеке Би  
Aytke Bi

Бай  
Bai

# Salt concentration

→ 1960.....10g/l

→ 1998.....45g/l

→ 2014.....over 100g/l



Aralkum desert

# How to save our lakes, seas and oceans?



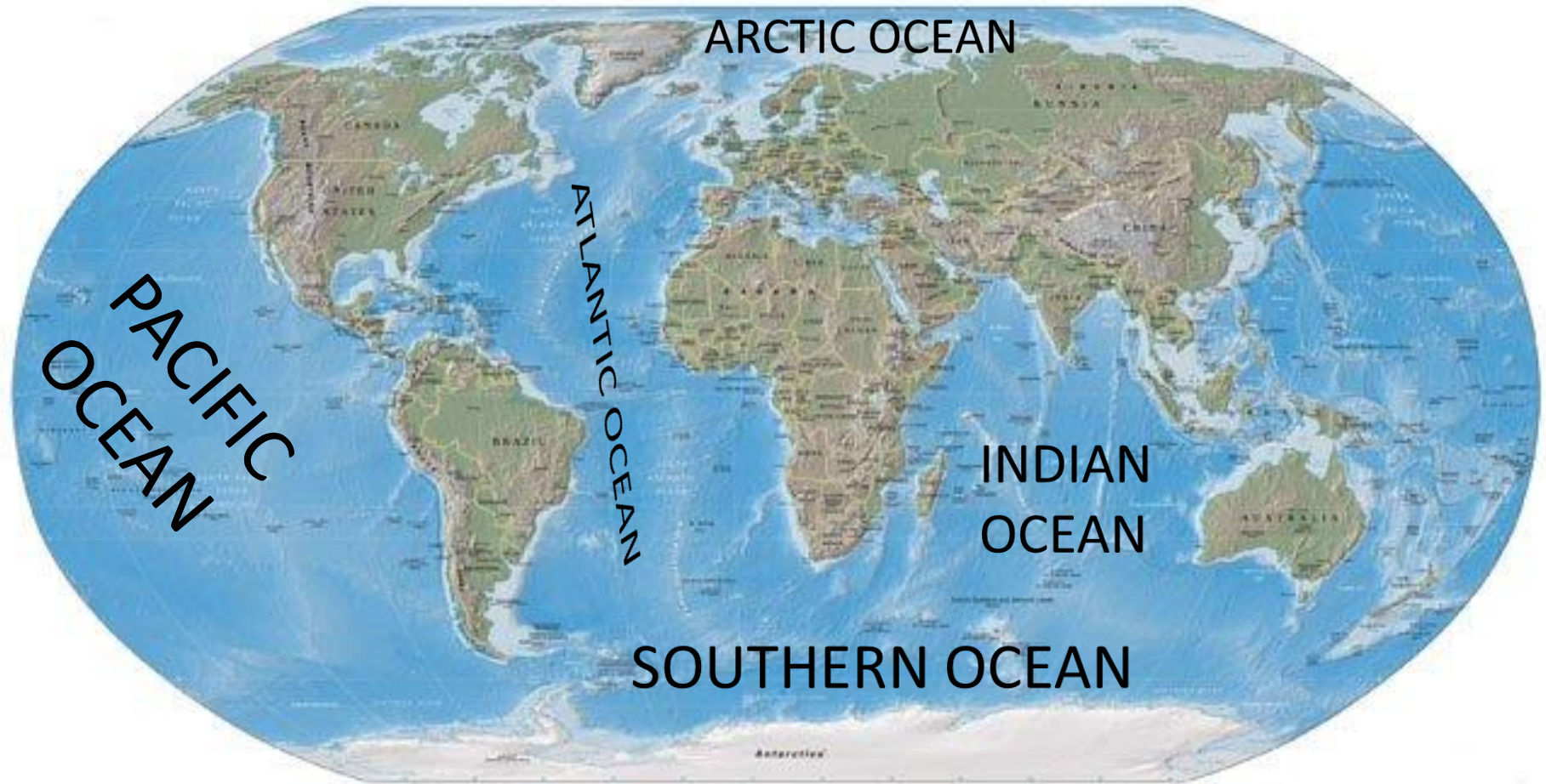
ARCTIC OCEAN

PACIFIC OCEAN

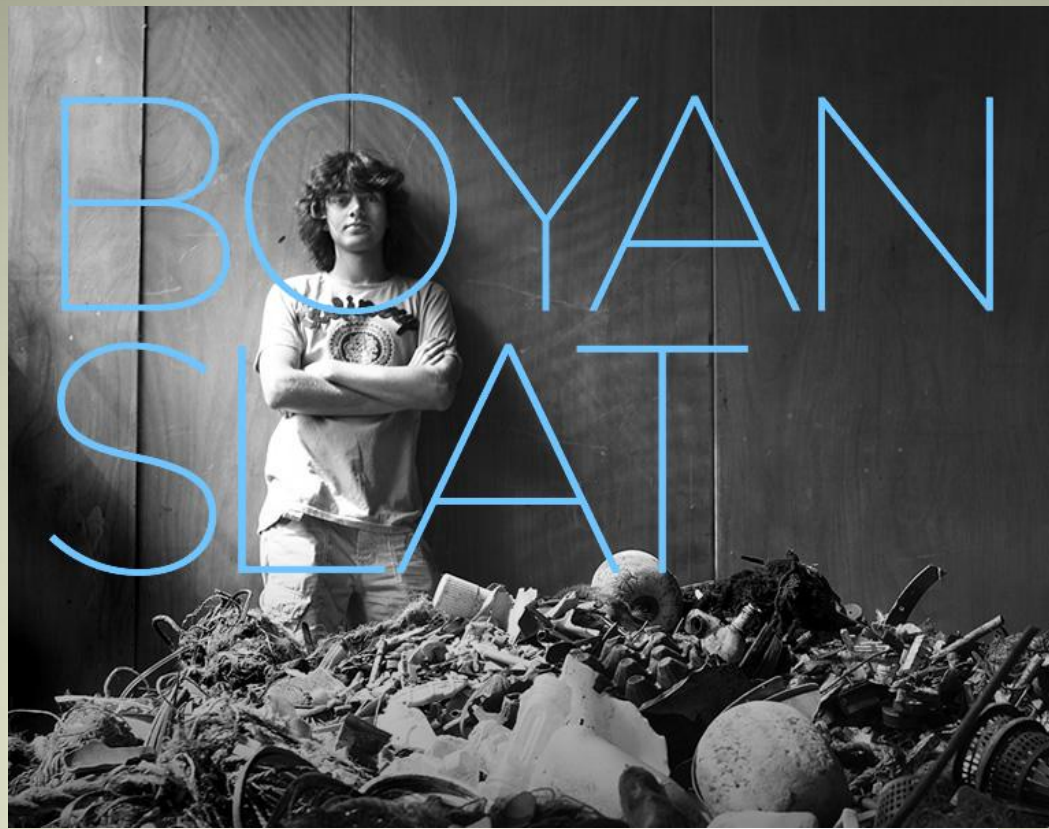
ATLANTIC OCEAN

INDIAN OCEAN

SOUTHERN OCEAN

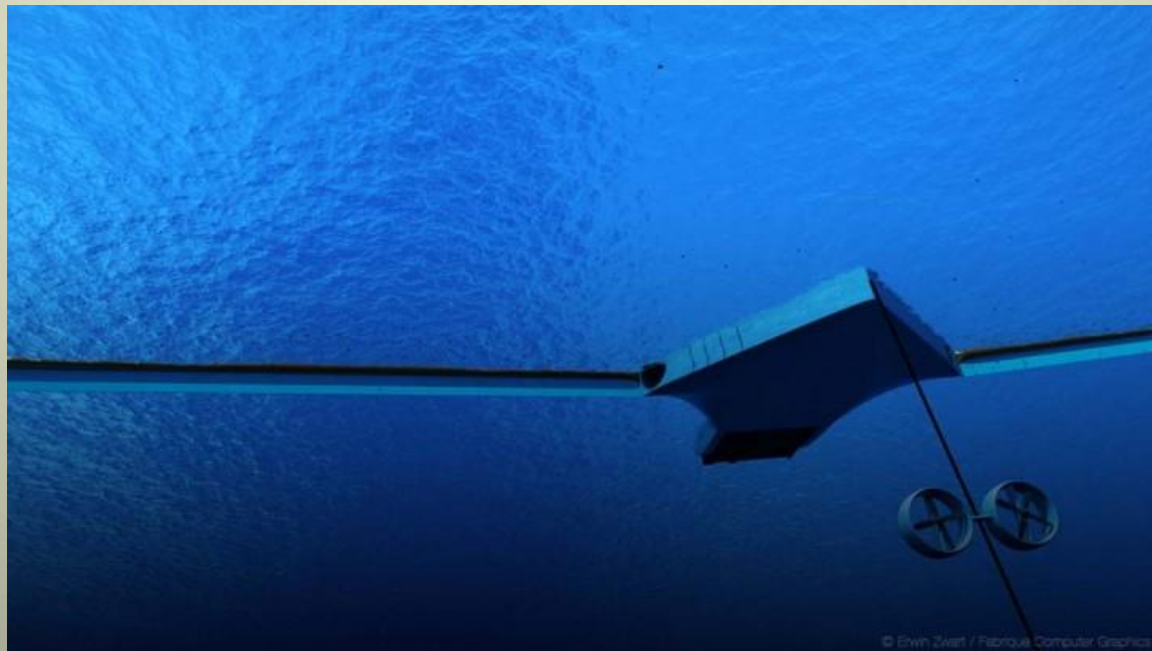








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# Environmental questions

- 1. How many litres of oil pollute oceans every year?  
a) 4 000 l    b) 16 000 l    c) 37 000 l
  
- 2. How many litres of water can pollute one broken mobile phone battery?  
a) 80 000 l    b) 700 000 l    c) 130 000 l
  
- 3. How much drinkable water do we have on Earth?  
a) 0,82%    b) 1,16%    c) 0,27%



- 4. When car is running, it spends oxygen. In 100km it spends as much oxygen as one person in:  
a)1 week    b)1 month    c)1 year
  
- 5. One hectare of leafy forest produces 15 tons of oxygen per year. How much oxygen does 1 ha of coniferous forest produce?  
a)8 tons    b)equally (15)    c)30 tons
  
- 6. If we recycle all the newspapers, how many millions of trees we would save every year?  
a)250 millions    b)150 millions    c)90 millions