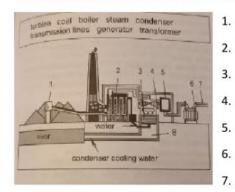
## **Generation of electricity**

## Write the terms next to the numbers:



8.

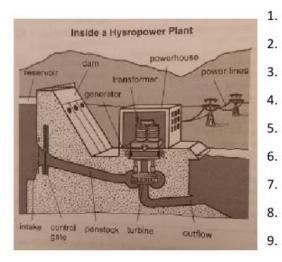
## Complete the text using the words in italics:

carbon dioxide, coal, emits, fission, generate, heat, nuclear, permanent, similar, spins, steam, through

The most cor	nmon turbine driver is 1	in fossil fuel plants or
		al-fired units produce electricity by
		ter to produce steam. The steam, at
	lows into a turbine, which 4	
	The electricity generated in at the p	
	high-voltage power lines.	
The problem	with fossil fuels is that they will not	last forever and when combusted,
they 6	sulphur dioxide, nitrogen ox	ides and 7,
which cause acid rai	n and the greenhouse effect. What'	s more, a typical coal-burning power
plant 8	more radiation than a properly functioning nuclear power	
plant.		
Nuclear pow	er plants nowadays produce about	30% of the world's electric power. In
a nuclear power plan	nt the fuel is placed in a reactor and	the indivudual atoms are allowed to
split apart. The splitt	ing process, known as 9	releases great ammount of
energy in the form o	f gamma rays. This energy is used to	o 10 water unti it
turns to steam. The	process that follows is 11	to what happenes in
coal-fired plants. The	e problem to be solved is that the sp	pent fuel stays toxic for centuries and
there is not yet safe,	12. storage fa	cility for it.

## Look at the picture of the hyrdoelectric dam, read the definitions and write the terms which are defined:

dam, generator, intake, long distance power lines, penstock, reservoir, transformer, turbine, water head



- 1. It holds water back, creating a large reservoir.
- 2. It is often used as a recreational lake.
- 3. Gates on the dam that open and gravity pulls the water through the penstock
- 4. A pipeline that leads to the turbine. Water builds up pressure as it flows through this pipe.
- 5. It can weigh as much as 172 tons and turn at a rate of 90 revolutions per minute (rpm). The water strikes and turns its large blades. It is attached to the generator.
- 6. Its giant magnets rotate past copper coils, producing alternating current (AC).
- 7. It takes the AC and converts it to higher-voltage current.
- 8. It refers to the distance between the water surface and the turbines.
- 9. They come out of every power plant.