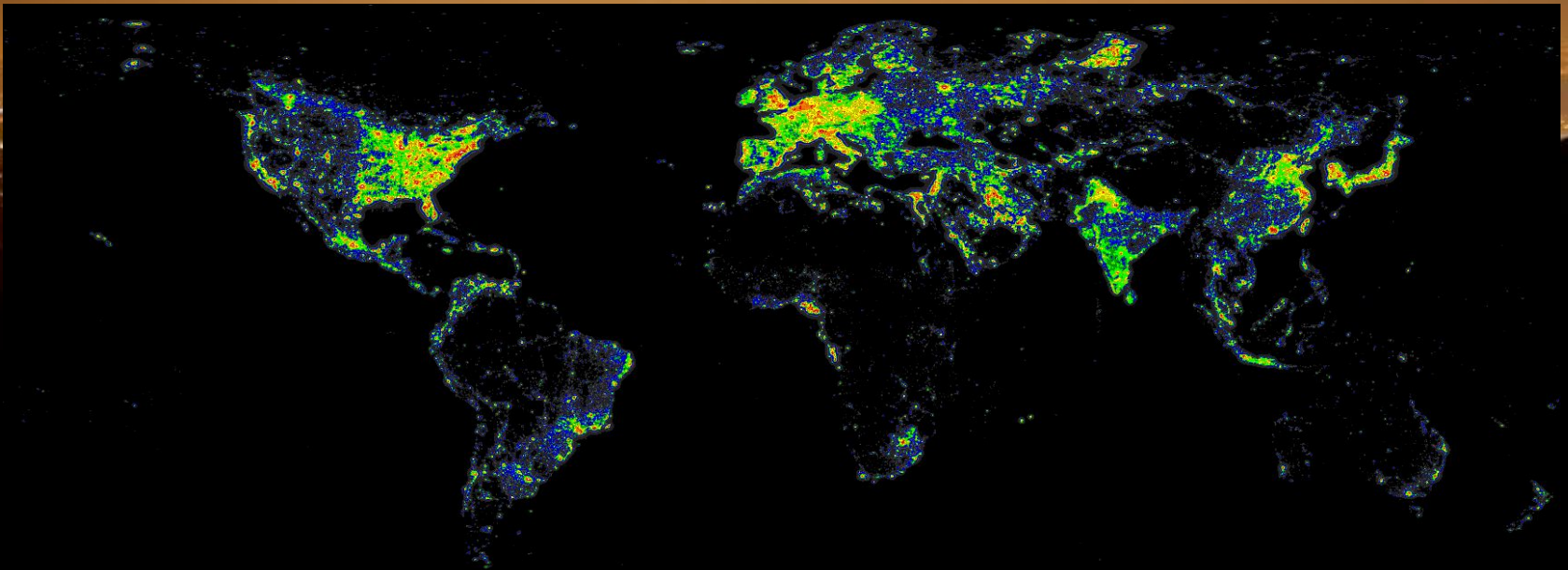




Light Pollution

What is light pollution?

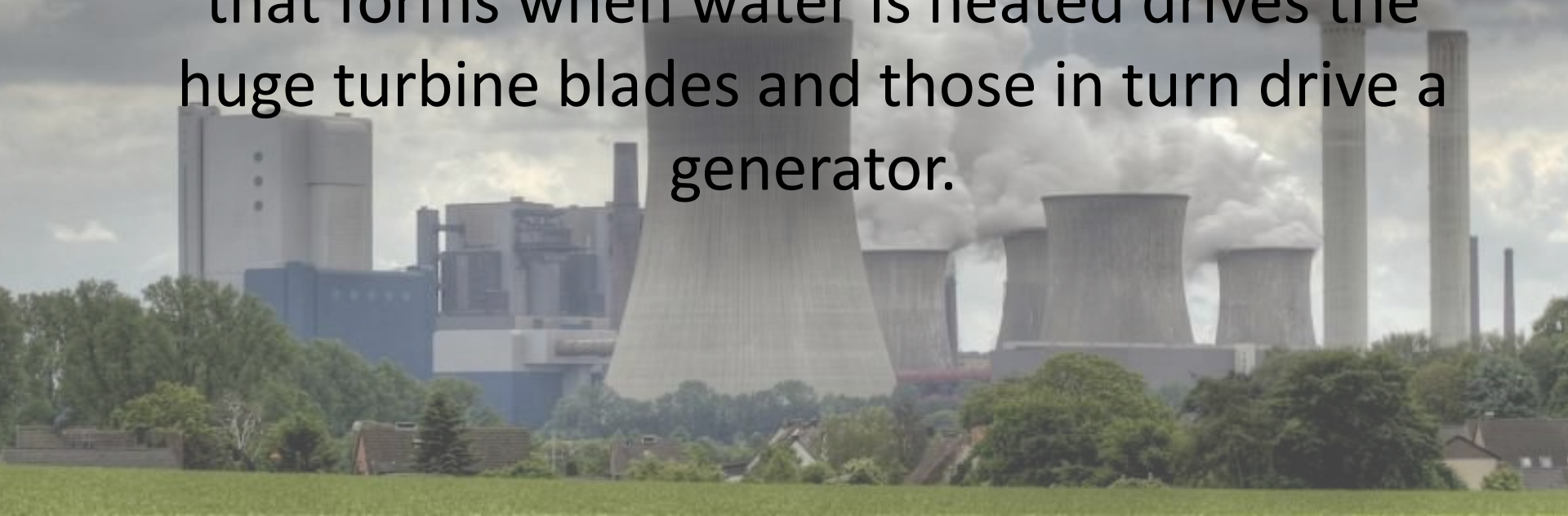
Light pollution is the lighting of the night sky by artificial light sources whose light is dispersed in the lower atmosphere, making it difficult to conduct astronomical observations, and modifying the biorhythms of living creatures.

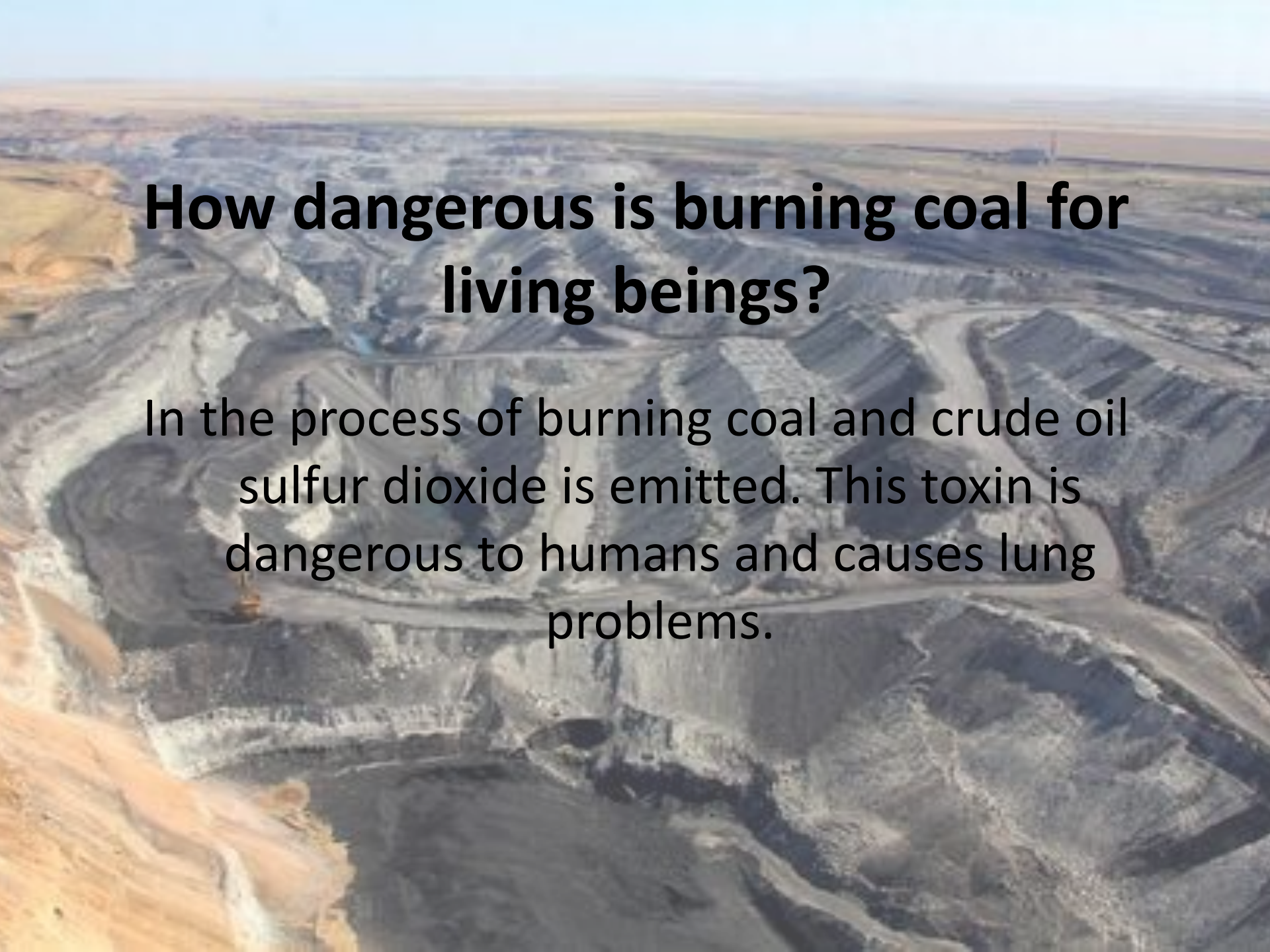


How do we get electricity?

We get electricity through large power plants.

Power plants have generators. Usually the source is steam. And to heat water, coal, oil, natural gas or nuclear fuel are used. The vapor that forms when water is heated drives the huge turbine blades and those in turn drive a generator.



An aerial photograph of a large-scale open-pit coal mine. The mine is characterized by deep, terraced levels of dark grey earth and rock, with a winding road or conveyor system cutting through the site. The surrounding landscape is arid and hilly, with some orange-brown soil visible in the foreground. The sky is clear and blue.

How dangerous is burning coal for living beings?

In the process of burning coal and crude oil sulfur dioxide is emitted. This toxin is dangerous to humans and causes lung problems.

What are the dangers of light pollution for people?

- Reduces the production of melatonin.
- This hormone is synthesized at night.
- It regulates the cycles of sleep and wakefulness.
- It also prevents the formation of cancer cells.

A large group of sea turtles, likely hawksbill turtles, are gathered on a sandy beach near the water's edge. The turtles are densely packed in some areas, with their dark, patterned shells and flippers visible against the light-colored sand. The ocean waves are visible in the background, creating a white foam as they break onto the shore.

What are the dangers of light pollution for animals, fish and insects?

- Animals stray from migration routes.
- Disturbed reproduction cycles.
- One glowing billboard kills 300000 insects.
- The oxygen depletion.
- Water reservoirs become lifeless.

A night scene featuring a glowing street lamp and a large evergreen tree, illustrating light pollution. The lamp is a classic, ornate design with a warm, yellow light emanating from it. The tree is a large, dense evergreen, possibly a spruce or fir, with its branches filling much of the frame. The background is dark, suggesting a night sky. The overall mood is one of artificial light intrusion into a natural environment.

What are the dangers of light pollution for plants?

- Light pollution affects photosynthesis of plants.
- The leaf fall starts earlier.
- Cold resistance is reduced.

Quiz

- How many thousands of insects does one billboard kill?

Right answer: 300000 insects

- How does light pollution affect people?

Right answer: Melatonin production decreases

- What are the main sources of light pollution?

Right answer: Big cities and factories