

# Pollution

A photograph of a power plant with cooling towers and smokestacks emitting thick plumes of smoke or steam against a dramatic, cloudy sky at sunset or sunrise.

From 11

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**Pollution** is the introduction of contaminants into the natural environment that cause adverse change. Pollution can take the form of chemical substances or energy, such as noise, heat or light.


Pollutants, the components of pollution can be either foreign substances/energies or naturally occurring contaminants. Pollution is often classed as point source or non-point source pollution.



# Industry

A photograph showing a person in a red shirt sitting on a concrete structure amidst a vast field of industrial waste and debris. In the background, there are industrial buildings and a body of water reflecting the scene. The overall atmosphere is one of environmental degradation and pollution.

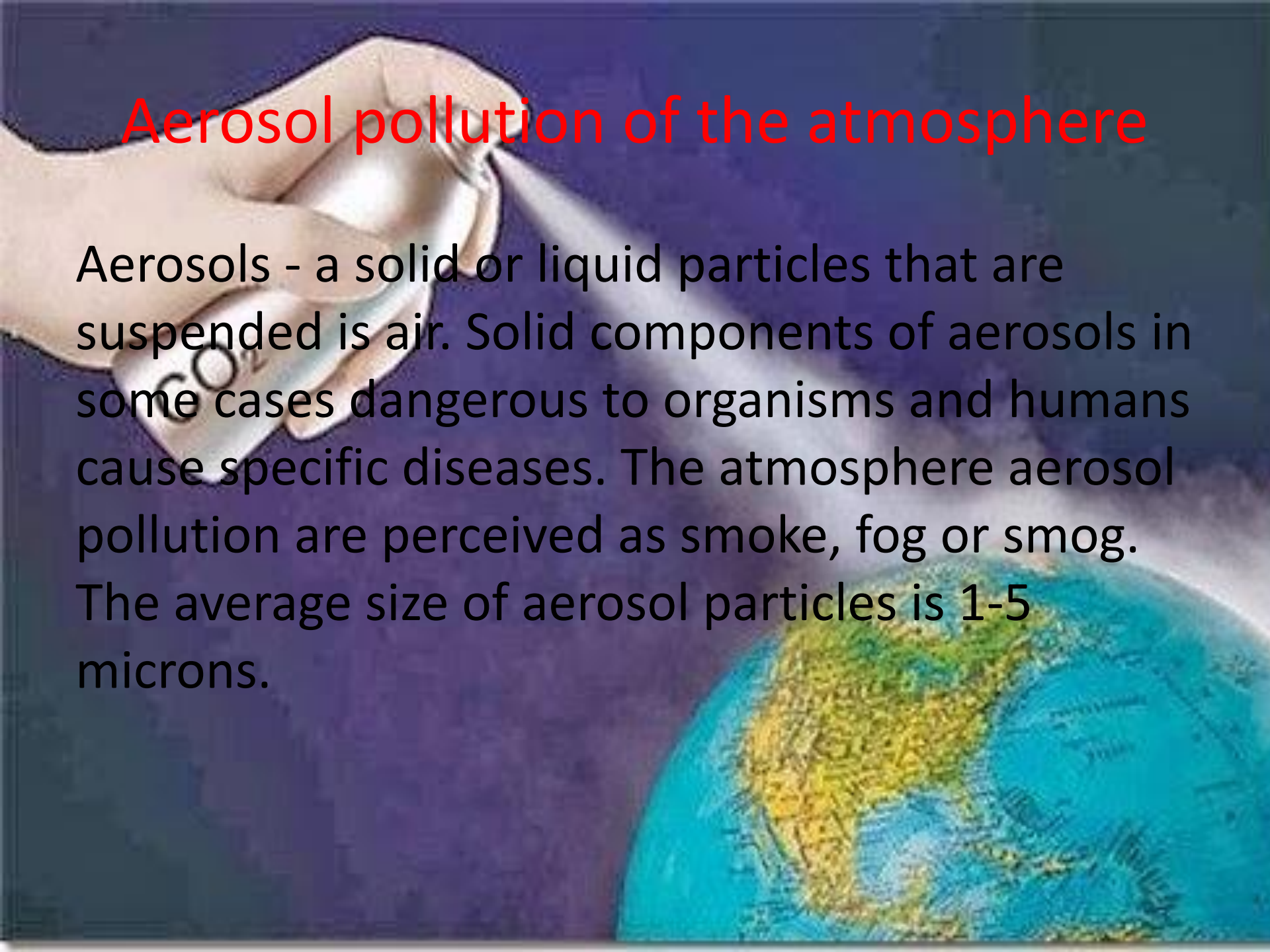
The main anthropogenic factors of ecological crisis in Ukraine are primarily large industrial complexes - voracious consumers of raw materials, energy, water, air, land and space at the same time the most powerful source of virtually all types of pollution (mechanical, chemical, biochemical).

A photograph of a steel mill interior. Molten metal is being poured from a ladle into a mold, creating a bright, glowing stream of liquid. The scene is dimly lit, with the primary light source being the intense heat of the molten metal. The background shows industrial structures and pipes. The text is overlaid on the left side of the image.

The main pollutants of the environment with heavy metals, especially lead and arsenic , as well as sulfuric and nitric acids - non-ferrous metals .

# Aerosol pollution of the atmosphere

Aerosols - a solid or liquid particles that are suspended in air. Solid components of aerosols in some cases dangerous to organisms and humans cause specific diseases. The atmosphere aerosol pollution are perceived as smoke, fog or smog. The average size of aerosol particles is 1-5 microns.



# Violation ozone layer

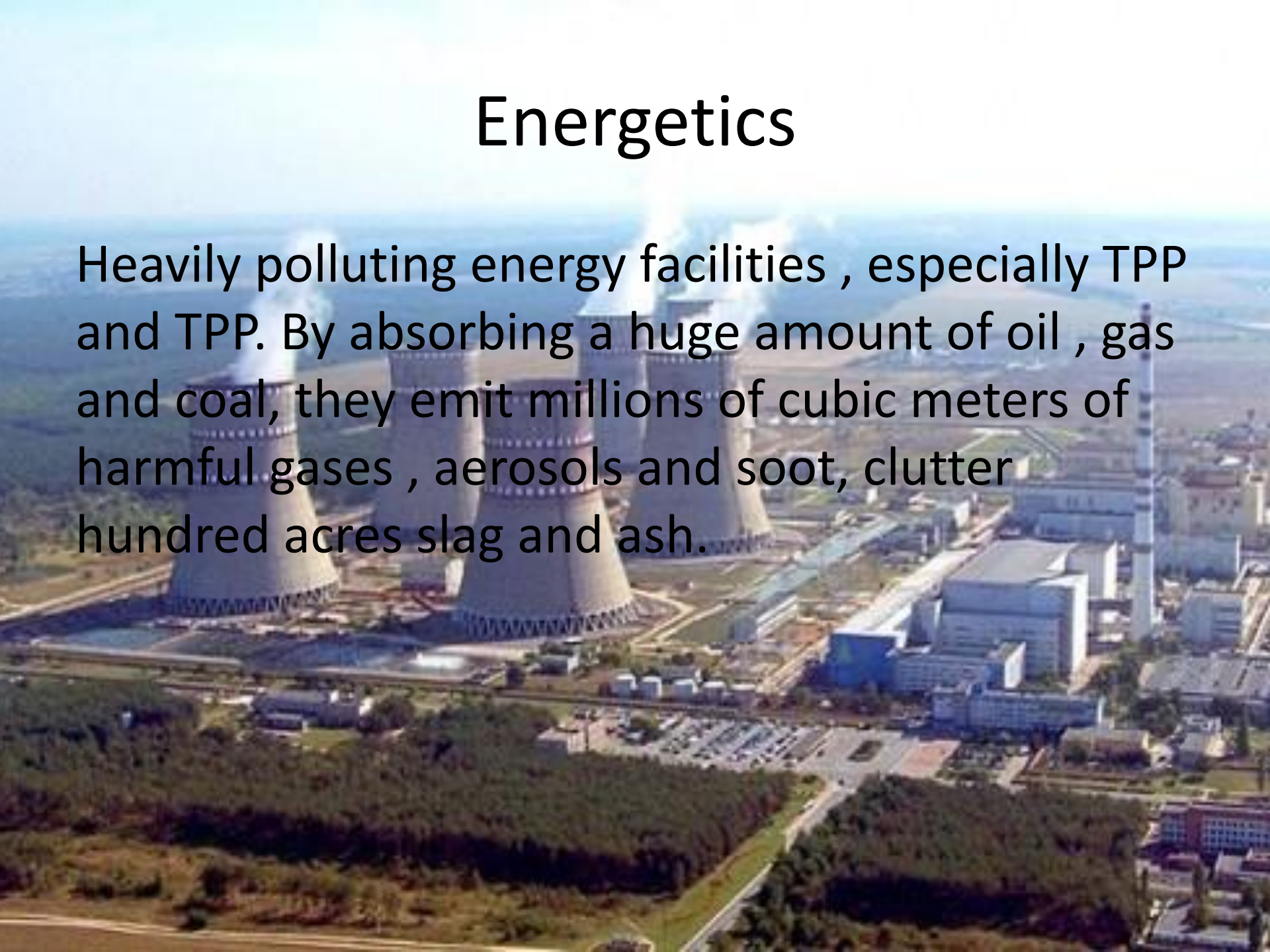
Ozone - a form of existence of a chemical element oxygen in Earth's atmosphere - its molecule consisting of three oxygen atoms  $O_3$  to form ozone necessary preliminary formation of free oxygen atoms.

The ozone hole - a phenomenon reduction in the total amount of ozone .

Many countries have begun to take measures to reduce the production and use of CFCs . Since 1978 the US was banned CFC use in aerosols . Unfortunately , the use of CFCs in other areas was not limited .

# Energetics

Heavily polluting energy facilities , especially TPP and TPP. By absorbing a huge amount of oil , gas and coal, they emit millions of cubic meters of harmful gases , aerosols and soot, clutter hundred acres slag and ash.



# Energy prospects for Ukraine

Alternative Energy - the criteria by which a country can show the degree of development. Many European countries have already had the desire to preserve the environment and solve the problem of environmental pollution with preservation of natural resources.

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Transport - road, rail, water and air - is another source of pollution of nature Ukraine

Emissions of pollutants road in an average year is about 5.5 million . Tons ( 39 % of total emissions in Ukraine ). In large cities, air pollution sometimes reaches 70-90 % overall pollution. In addition, more than 20 % of vehicles operated in excess of established standards for content of harmful substances in exhaust gases.







Alternative electric cars

# Municipal wastewater

More urgent environmental problem cities in Ukraine, especially large and spa , is cleaning various municipal waste - residential and industrial - and their processing . Every year in Ukraine reservoir dropped about 4 billion M3 of contaminated wastewater.

**PROMIN PROSVITY**



OUR

A pair of hands, one light-skinned and one dark-skinned, are shown from the bottom, cupping a small globe of the Earth. The globe is centered on the Americas, showing North and South America in green and yellow, surrounded by blue oceans and white clouds. The word "Planet" is written in a large, black, sans-serif font across the center of the globe.

Planet



Should



be





the