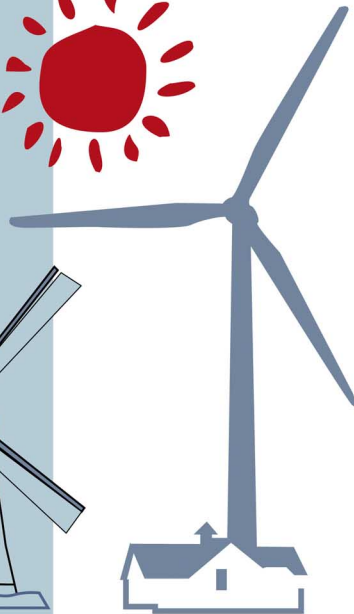
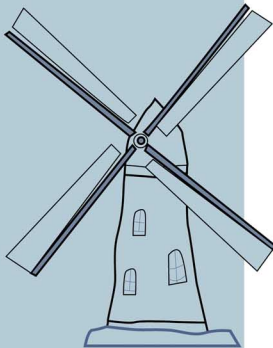
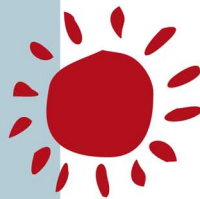


Riyada Development



Alternative sources of energy

Alternative sources of energy



An alternative source of energy - replaces the traditional sources of energy, operating on oil produced natural gas and coal. The purpose of the search for alternative sources of energy - the need to get it out of energy from renewable or virtually inexhaustible natural resources and phenomena. Can be taken into account as ecology and economy.



A long time ago, seeing what destruction can bring storms and hurricanes, people thought about whether it is possible to use wind energy.





Windmills with wings, sail cloth were the first to build the ancient Persians more than 1.5 million years ago. In the future, the windmills were improved. In Europe, they not only floured but pumped water churned butter, such as the Netherlands. The first generator was designed in Denmark in 1890 after 20 years working in the country for hundreds of similar installations.



Wind energy

Wind energy is very high. Its reserves are estimated by the World Meteorological Organization, are 170,000,000,000,000 kW h per year. This energy can be produced without polluting the environment. But the wind has two major drawbacks: its energy is strongly scattered in space and it is unpredictable - often change direction suddenly calms down, even in the windiest areas of the globe, and sometimes reaches such force that break the wind turbines.



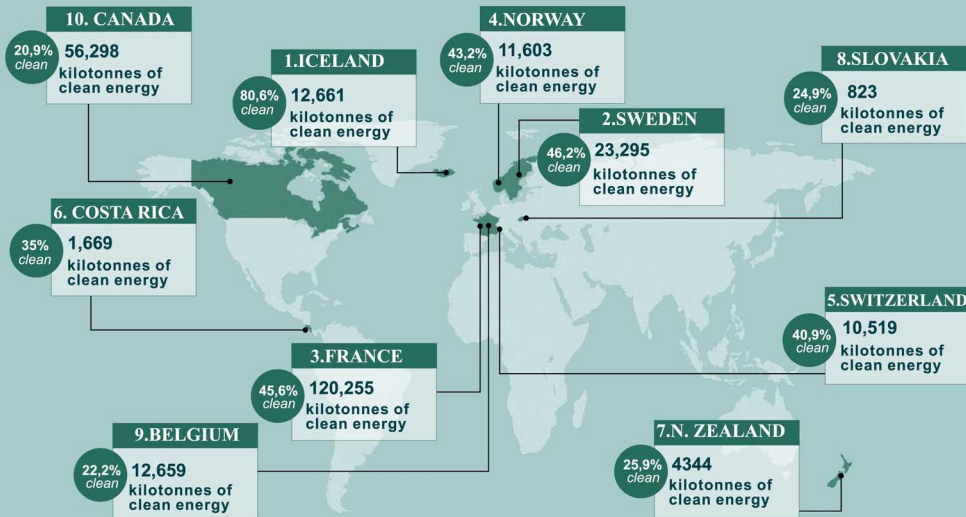
Construction, maintenance, repair wind turbines, working around the clock in any weather in the open air is not cheap. Wind power plant with the same capacity as the power plant, power plants or nuclear power plants, in comparison with them should occupy a large area. In addition, wind power unsound: they interfere with the flight of birds and insects, noise, reflect radio waves rotating blades, creating interference to TV in nearby towns.



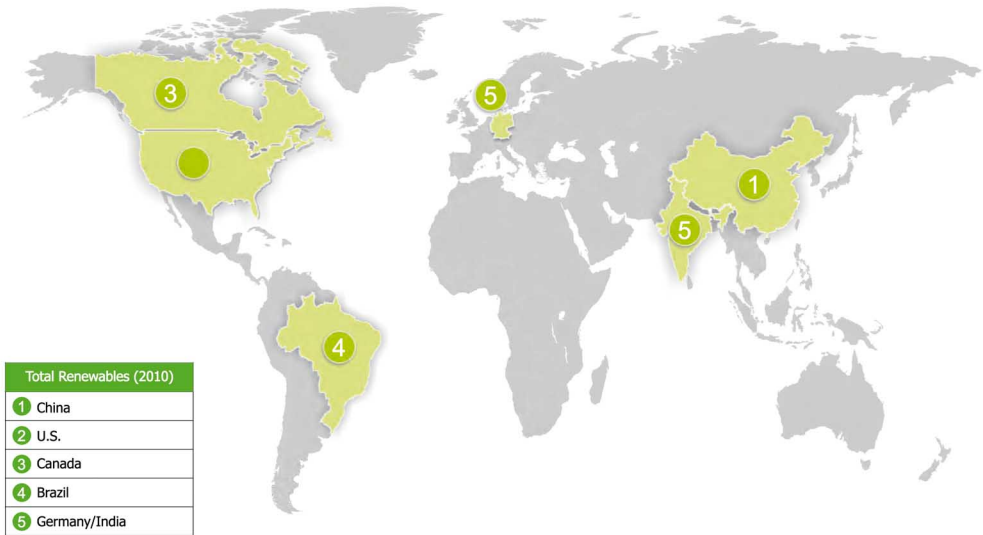


TOP 10 COUNTRIES WITH CLEAN ENERGY

Clean energy - it's a way to generate energy without carbon emissions(hydropower, nuclear, thermal, wind, solar, etc.)



Top Countries with Installed Renewable Electricity



Riyada Development



The principle of wind power is very simple: the blades that rotate by the force of the wind through the shaft transmitting mechanical energy to an electric generator. That in turn generates electrical energy. It turns out that wind farms operate as a battery-powered toy cars, just the opposite of the principle of their action. Instead of converting electrical energy into mechanical energy, wind energy becomes electric current.





In order to somehow compensate for the variability of wind, constructing huge "windy farm". There are rows of wind turbines over a wide area and are working on a single network. At one edge of the "farm" could wind blowing on another during this quiet time. Wind turbines cannot be placed too close, so they do not obstruct each other. Therefore, the farm occupies a lot of space. Such farms have in the United States, in France, in England, and in Denmark "wind farm" put on the shallow coastal waters of the North Sea: there it does not hurt and wind resistant than on land.



For wind energy use different designs: multibladed "daisy"; screws like airplane propellers with three, two or even one blade (if it has a load of contrast) vertical rotors, reminiscent of the cut along the axis and mounted on a barrel, a sort of "who stood on end" helicopter rotor blade: the outer ends of its blades bent up and connected. Vertical structures are good because they catch wind of any direction. The rest have to turn downwind.

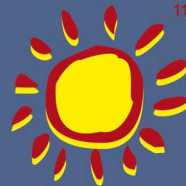




To reduce dependence on non-permanent wind strength and direction, in include flywheels, partially smoothing wind gusts, and all kinds of batteries. Most often, they are electric. But also used air (wind turbine forces air into the balloon coming from there, it is flat jet turbine rotates an electric generator) and hydraulic (wind force water rises to a certain height, and, falling down, turns a turbine). Put the batteries as electrolysis.



The sun pours on Earth ocean energy. The man is literally bathed in the ocean, the energy is everywhere. And the man did not seem to notice it, cutting into the earth for coal and oil to produce energy for factories, for lighting and heating. And it produces, it is all the same energy of the sun, which "absorbed" plants of yore, who later became coal. Plants are able to detect less than one percent of incident solar energy on the leaves, and after the burning of coal, and it stands out even less. Solar energy is available to everyone. Its almost as much as necessary. It is environmentally friendly - do not pollute, does not break anything, it gives life to all beings on Earth. Moreover, this energy is gratuitous, but for all its virtues, and the most expensive. This is why solar power is not as common as.



Solar energy



Irreversible effects, scientists say, will come when the power consumption exceeds the current level of one hundred. To lose sight of this can not be. The conclusion of scientists is that at a certain stage of civilization large-scale use of clean solar energy becomes completely unnecessary. But that does not mean that solar power is not the opponents. Here are their reasons: because of the low density of the solar radiation equipment installation for its recovery will lead to the withdrawal of the land of huge living spaces, except at the high cost of equipment and materials.



Solar energy is also used in small solar-powered cars, space stations and satellites. Work is in progress, are estimates. While they are, admittedly, not in favor of solar power: today these buildings are still among the most complex and most expensive technical methods of obtaining Solar energy. But it may create a situation in the world, when the relative high cost of solar energy will not be its greatest weakness. This is the "thermal pollution" of the planet due to huge scale energy consumption.



In the meantime, there is still a long way to go to be able to generate electricity from sunlight, which is comparable to the cost of produced by the burning of traditional fossil fuels. Of course, it is unrealistic to expect such conditions, at least in the foreseeable future, to transfer all the energy in the solar technology. While her destiny - to gain power and to reduce the cost of their kilowatt- hour. We should not forget that from the point of view of ecology solar energy is really ideal, as it does not disrupt the equilibrium in nature.

