

Organic energy

Energy is the power to move or work an object. High objects and moving objects have functionalities, or energy, that allow them to do bigger things than objects on the ground and stationary objects. In order to create such energy, we humans have made progress by utilizing depleted energy sources such as oil, coal, and nuclear power to lead a convenient life. However, these resources will definitely have a limit of their reserves and will eventually run out. If you think you can't use cars, computers, or telephones right now, no one would be able to stand it.

Renewable energy means new and renewable energy. Energy used by converting existing fossil fuels or converting them into renewable energy, including sunlight, water, precipitation, and biofuels. Renewable energy includes solar heat, rays of the sun, bio, wind and hydro, and new energy includes fuel cells and hydrogen energy. Although it may seem unreasonable that the initial installation cost is high and the environmental requirements of the energy need are strict to stick to, but it is the most necessary energy source in the current situation considering the environment which is environmentally friendly as it is renewable and has low carbon dioxide emissions.

New and renewable energy can be used as local energy suitable for each region. Local energy literally means the energy produced by the local. What is important is that to produce energy, which is characterized by the use of renewable energy sources, such as solar, wind, water power, geothermal heat, trash and livestock waste. This definition focuses on producing energy in a physical natural space, a specific range of areas. The administrative definition of local energy is to plan and execute on energy demand and supply in the region. Combining the two concepts, it can be defined as 'The establishment and implementation of energy policies in regions, the improvement of energy efficiency, and the expansion of renewable energy production using local natural resources'.

The city of Graz, which is located in Austria, is famous for buses that use cooking oil. All 150 green Mercedes buses operated by Graz use biodiesel (BD100) made from waste oil as fuel. After putting biodiesel in two buses for the first time in 1994, the number gradually increased, and in 10 years, all buses were used with eco-friendly fuel. Currently, more than 60 percent of taxi drivers operating in the Graz use biodiesel as fuel. In the United States, there are also a rapid increase in self-development villages, especially in California, Texas, New Jersey and Wisconsin. In the United States, there are 180,000 households that produce and use electricity directly from their villages

and homes. The village has no electricity pole or cable because the village is self-developed. Both 250 households in the Three Rivers use electricity from solar and wind power. It is an energy-independent village. Lastly, there are 120,000 dogs in San Francisco that are larger than the number of children, and dog droppings account for about 4 percent of the household waste. There are as many as 10 million tons of dog and cat excrement in the U.S. over a year. One ton of excrement is said to produce energy equal to 50 gallons of diesel fuel. Therefore, San Francisco produces methane gas through feces of pets and uses it for cooking and heating at home.

You may have seen and experienced many phenomena such as fine dust that makes you hazy in front of your eyes, extremely heat waves in summer, and warm winters that doesn't snow. All of these phenomenas are closely related with the indiscriminate use of fossil fuels which is waste of depleted energy source. Just as organic farming started from the self-examination of pollution and harmful effects on the soil by using chemicals and bio-pesticides in large quantities, Local energy should be implemented to prevent further destruction of the environment and to prepare for the coming future. Components of local energy should recognize the characteristics of the energy that can be produced in the region and the limits of production and have members who can change their lives accordingly. The practice of saving with the perception of active energy producers, not passive energy consumers, will enable local energy to be implemented.

The seventh goal of U.N.'s sustainable development goals, environmental guarantee and energy production. I introduced local energy to implement this goal. We don't need difficult engineering knowledge or elaborate plans to practice this goal, it can be done by just paying attention to local energy policies in each region and saving electricity at home. What we all can do easily will be using stairs instead of elevator, removing all unused plugs, and turning off the light when we are out..