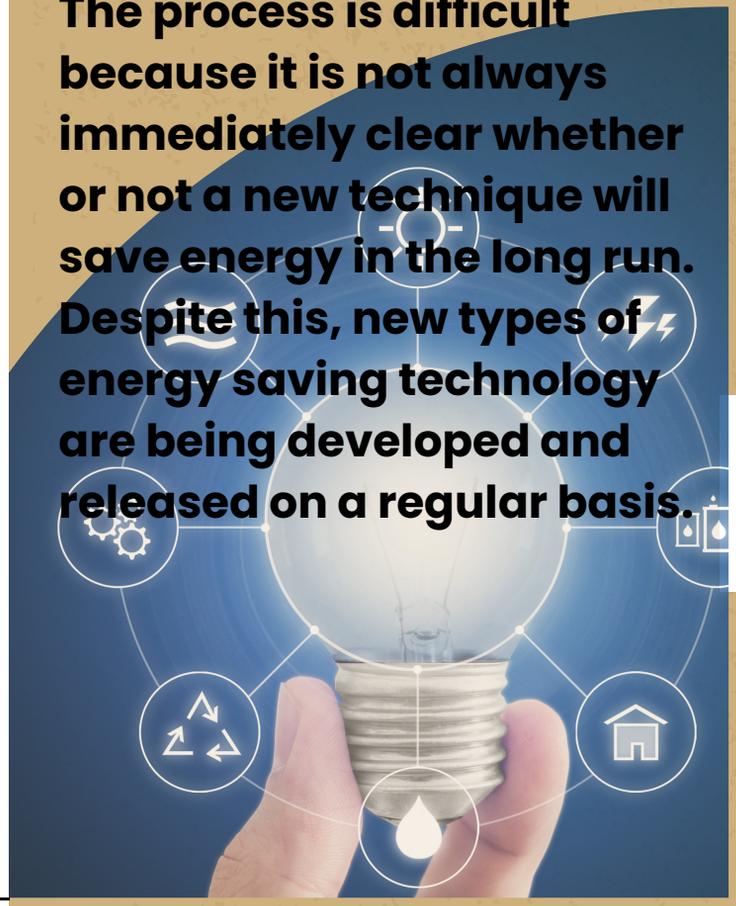
THE FUTURE OF ENERGY EFFICIENCY TECHNOLOGIES

As demand for both energy and the cost of energy increases, many companies have begun researching new ways to save energy. The process is difficult because it is not always immediately clear whether or not a new technique will save energy in the long run. Despite this, new types of energy saving technology are being developed and released on a regular basis.



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Climate Change and Development Authority

PAPUA NEW GUINEA

ENERGY EFFICIENCY

WHAT IS ENERGY EFFICIENCY?

Energy efficiency is the use of less energy to perform the same task or produce the same result. Energy-efficient homes and buildings use less energy to heat, cool, and run appliances and electronics, and energy-efficient manufacturing facilities use less energy to produce goods.

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ENERGY EFFICIENT TECHNOLOGIES

GREEN HOMES

A variety of energy saving technologies are combined with efficient architecture in green homes. Some of these technologies, including compact fluorescent light bulbs and energy efficient appliances, simply replace older less efficient technologies. Other energy saving technologies operate by generating new energy. The most common example of this technology is home solar panels. Green homes may also implement flash water heaters, which heat water as needed instead of expending energy to maintain a hot water tank.

HYBRID AND ELECTRIC VEHICLES

Hybrid cars and fully electric vehicles are an increasingly popular form of energy saving technology. These vehicles are much more fuel efficient than similar vehicles with conventional combustion engines. Electric vehicles do not use gasoline at all, but instead use electric motors powered by large rechargeable batteries. The main limitation for electric vehicles is the weight of batteries that provide enough power to travel long distances.

ENERGY EFFICIENT ELECTRONICS AND COMPUTER

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