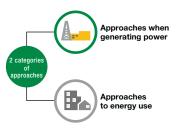
Protecting the Earth from global warming Well-balanced mixture of power sources



TEPCO approaches

Terminology

Liquefied natural gas (LNG)

LNG is produced by liquefying natural gas, which consists mainly of methane (CH₄) and ethane (C₂H₆), by cooling it to minus 162°C.

The level of CO₂ emissions varies with the method of power generation

Nuclear power, hydropower, and natural energy (e.g., solar and wind power) do not emit CO₂ in the power generation process. Thermal power stations fired with fossil fuels such as coal and oil emit CO₂, but can lower these emissions relatively by using liquefied natural gas (LNG)* as fuel.

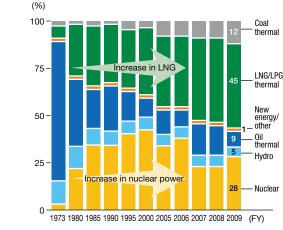
Utilization of nuclear power and LNG helps to curtail CO₂ emissions

TEPCO utilizes the well-balanced combination of energy resources to provide an economical and stable supply of electricity with consideration for the environment. Especially, our longtime efforts to promote use of nuclear power and LNG are helping to curtail CO₂ emissions.

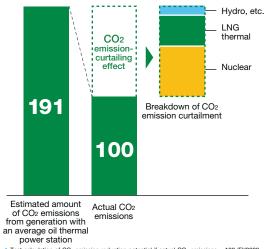
TEPCO therefore has power stations of the nuclear. LNG-fired thermal, other thermal. hydro, and other types. If we had only oil-fired thermal power stations, our CO₂ emissions would be over 1.9 times as high.

Life cycle CO₂ emissions by type of power generation

Trends in the composition of power generation

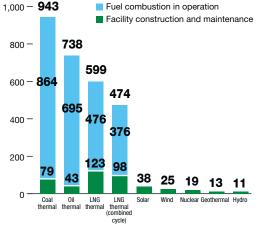


CO₂ emission-curtailing effect



Test calculation of CO2 emission reduction potential if actual CO2 emissions = 100 (FY2009 performance)





Due to rounding, total figures may not equal sums from additions. The above figures show CO2 emissions from energy consumed during all stages: extraction of raw materials, construction of power generation facilities and the like, fuel transportation and refining, plant operation and maintenance and burning of fuel to generate power. CO₂ from nuclear power includes emissions from domestic reprocessing of spent fuels and the utilization of MOX fuels in light water reactors as per current plans and also includes disposal of high-level radioactive wastes. Source: Central Research Institute of Electric Power Industry report, "Evaluation of Life

Cycle CO₂ Emissions of Power Generation Technologies"

TEPCO is working to reduce CO₂ emissions with a well-balanced combination of generation methods.

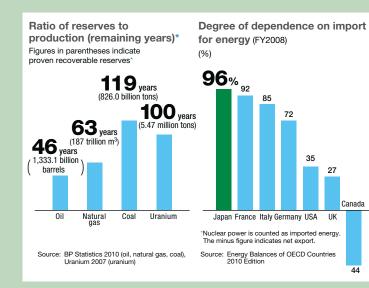


⊕ Protecting the Earth from global warming

Japan – aiming for well-balanced energy utilization Column

The situation in Japan, which has to import finite energy resources

The supply of energy resources such as oil and natural gas is limited. Moreover, the future is projected to bring an increase in energy consumption, especially in China and other Asian countries, and this is causing apprehensions about a tighter supply of energy worldwide. Under these circumstances, assurance of energy supply stability is a vital issue for Japan, which has few resources of its own and depends on import for almost of all of its energy.



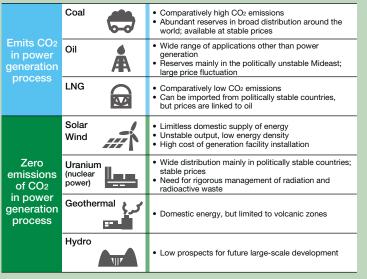
Well-balanced energy utilization

Energy resources each have their own distinctive features in a variety of other aspects as well as the environmental one. The important point is to find the well-balanced combination of energy resources based on these features while also taking account of not only effect for lowering environmental impact but also economic merit and supply stability.

Characteristics of types of energy

Canada

44



Terminology

Proven recoverable reserves The amount of buried resources

6

whose extraction is estimated to be economically viable at the current level of technology.

Ratio of reserves to production (remaining years)

The quotient of division of the proven recoverable reserves (the yearly demand in the case of uranium) by the yearly production volume