

NATURAL GAS:

A PARTNER FOR RENEWABLE ENERGY

Solar and wind are renewable energy sources that promise **zero carbon emissions**. However, **we still cannot rely on them exclusively for our growing power needs**.

Several factors affect solar and wind's output variability.



Short-term fluctuations



Day-to-day variability



Seasonal changes

Sudden drops or rises in output can affect power quality and even damage expensive grid infrastructure.

For now, renewable energy sources require a storage or complementary energy source to keep up with demand when output drops.

NATURAL GAS is a complementary energy source for wind and solar.



IT'S CLEAN

Compared to coal, natural gas emits 60% less carbon dioxide.



IT'S FLEXIBLE

Natural gas plants can be dispatched quickly to stabilize the grid when there is no sun or wind.



IT'S AFFORDABLE

Generation charges for natural gas are competitive with coal and oil.



NATURAL GAS + renewable energy works for the PH

The pressure is on to diversify our power mix away from coal dependency because it contributes to climate change. While the Philippines isn't the biggest carbon emitter, we are among the most vulnerable to its impact.

Our power demand fluctuates at peak intervals daily. Thus, we need a stable supporting source of power that can turn on quickly.

Natural gas plants are flexible.

It can turn on when the demand is high and off if it's low, therefore generating electricity when it's needed the most.

SOURCES:

- International Gas Union
- Department of Energy
- Energy Development Corporation Fact Sheet on Natural Gas