

## Kongres Container

# The cost of building a hybrid energy base station in South Korea



## Overview

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How does integrated energy conversion work in South Korea?

The integrated energy conversion system was simulated under South Korean 2018 annual climate conditions. The conventional system obtains all the required energy from the grid electricity and natural gas pipelines.

How is system operation cost calculated in Korea?

The system operation cost was calculated using the utility rate announced by the government (Seoul City Gas; Korea Electric Power Corporation (KEPCO)). The maintenance cost depends on the total amount of energy provided to the building, and the disposal cost was assumed to be 10% of the initial investment cost.

What is a hydrogen based energy system (nZEB)?

The buildings in the electricity-based energy scenario utilize only electricity, without natural gas. Natural gas-based facilities are not used, and most of the electricity is supplied from the photovoltaic (PV) panels. These hydrogen/electricity-based NZEBs are expected to significantly reduce energy consumption and CO<sub>2</sub> emissions.

Are nzeb's a problem in South Korea?

The construction of NZEBs in South Korea has become a major issue in recent years. To reduce energy consumption and CO<sub>2</sub> emissions from buildings, the Korean government is considering the energy transition to a (1) hydrogen-or (2) electricity-based energy supply.

What are the advantages of transparent BIPV in South Korea?

When installed on windows, transparent BIPV have the advantage of maintaining the daylight area while obtaining solar energy. In addition, building energy scenario in South Korea only has a direction of hydrogen-based and electricity-based, but it is not reached a specific scenario

establishment.

What is a reference system in South Korea?

The reference system was a conventional residential building in South Korea. Building envelopes, such as insulation, window properties, and airtightness, were modeled according to extant Korean building standards (Guidelines for the design and, 2009). The building operates using grid electricity and natural gas.

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