

What is the energy model for pig house?

Energy model for pig house The energy model developed in this study will be used for analyzing energy efficiency relevant to total energy consumption rather than for monitoring and analyzing real-time energy consumption. Fig. 10 shows the monthly energy consumption figures of the completed energy model.

Are pig houses energy efficient?

This study developed an energy model for pig houses and examined energy efficiency measures by using the model. This is a basic research in tackling inefficient energy consumption of pig houses and contribute to design standardization. Furthermore, the possibility of creating a sustainable pig house by introducing renewable energy was conducted.

Can geothermal energy be used in a pig house?

Studies on utilizing geothermal systems to pig house have increased recently[6,35]. However,while several studies have applied PV energy in general buildings [,,,],few studies have utilized sustainable energy such as PV power and solar heat.

Do pig house ventilation systems consume energy?

First, energy consumption efficiency of the existing ventilation system in the pig house was analyzed. A case study on the energy consumption of fans was conducted assuming that ventilation systems with the same air flow were installed in the developed energy model.

Are virtual pig houses energy-consuming?

Thus, a model implementing energy-consuming virtual pig houses is essential in facilitating energy consumption analysis of pig houses; however, research on the development of energy models in pig farms is insufficient.

Can pig houses be sustainable?

This is a basic research in tackling inefficient energy consumption of pig houses and contribute to design standardization. Furthermore,the possibility of creating a sustainable pig house by introducing renewable energywas conducted. The results of this study can be summarized as follows: Energy model for the pig house.



Solar power generation on the pig farm roof

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