

Analysis of energy storage and agricultural and animal husbandry profits



Overview

Does feed cost affect the economic profit of pig husbandry?

The cost of feed accounts for greater than 80% of the total cost for the SF, TF and HTF but 60.1% for the BF. Clearly, the feed cost is the primary factor to affect the economic profit of pig husbandry. The main difference derives from the commercial feeds and soybean meal.

Does large-scale livestock husbandry have better economic performance than specialized farms?

Our results indicate that large-scale livestock husbandry shows better economic performance but worse environmental consequences than the backyard and specialized farms. In other words, the larger production scale causes better economic benefits and worse environmental consequences.

Does large-scale livestock husbandry improve pig production?

In this study, the LCA, EME and ECA methods provide three different but complementary standpoints to compare pig production with different models. Our results indicate that large-scale livestock husbandry shows better economic performance but worse environmental consequences than the backyard and specialized farms.

How does livestock contribute to sustainable agriculture?

Honeyman (1996) indicated that the incorporation of livestock into agricultural systems ensured a more sustainable agriculture. Tilman et al. (2002) also stated that pastured animals consume plants growing in a field, and plant growth is increased by the animal wastes deposited and recycled in the field.

Does Agricultural Bioenergy utilization depend on crop and livestock production?

Nature Food 3, 1052–1064 (2022) Cite this article Agricultural bioenergy utilization relies on crop and livestock production, favouring an integrated

crop-livestock-bioenergy production model.

Can life cycle evaluation and economic analysis improve pig production in China?

Livestock husbandry in China is rapidly changing in structure from traditional backyard rearing toward large-scale and intensive production. In this study, a joint use of life cycle assessment, energy evaluation and economic analysis provides different but complementary standpoints for comparison of four typical pig production models.

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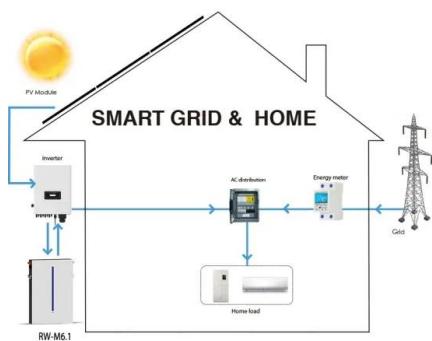


Analysis of energy consumption in poultry management for table ...

Energy audit and mass flow studies of commercial agricultural systems are increasingly becoming of utmost importance, due to high operation costs and dependence on ...

Estimates of energy demand and energy saving potential in China...

This paper analyzed the energy saving potentials of China's agricultural sector by using an econometric approach and a scenario analysis. First a co-i...



Livestock development in China: animal production, ...

At the same time, the net livestock production index increased by 15%, and the structure of the agricultural sector has experienced ...

Revenue Analysis for Energy Storage Systems in the United

...

For this work, we evaluate the potential revenue

from energy storage using historical energy prices, forward-looking projections of hourly energy prices, and historical reported revenue.



Structural Analysis of Animal Husbandry and Fishery in Turkey: ...

This study investigates the structural interdependency of the animal husbandry and fishery sector and other sectors in Turkish economy. It reports the relationship between animal husbandry ...

Economic Analysis of Animal Husbandry Based on ...

Abstract In order to improve the effect of animal husbandry economic analysis, this article studies the animal husbandry economy based on system dynamics ...

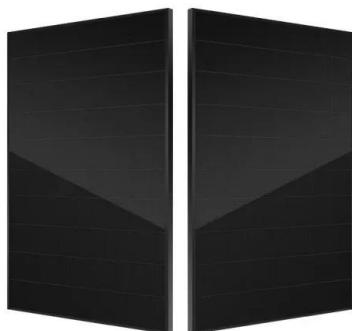


Agrivoltaics, a promising new tool for electricity and food ...

Increased global demand for food and energy implies higher competition for agricultural land. Photovoltaic installations contribute to more sustainable solutions to satisfying ...

A Study on the Relationship Between Livestock Carbon Emission ...

The development of animal husbandry directly affects climate change and the ecological environment. This study aims to explore the relationship between carbon emissions ...



Frontiers , The effect of animal husbandry on economic growth: ...

Promoting animal husbandry industry is important to help strengthen the agricultural sector. This study starts from both socio-economic and natural factors ...

Survey analysis on the market potential of an ...

Thanks to the existing buildings (stables and storage buildings) that are necessary for animal husbandry, the farmer also can generate energy

...



JAST (Journal of Animal Science and Technology)

Animal welfare or consumer organizations are advocating for ongoing transformations, prompting changes in animal agriculture systems to reduce stocking density ...

Typical average daily electricity consumption of ...

The production of renewable energy fluctuates in terms of sun and wind and must be supplemented by storage in the system. On an individual basis, i.e., for ...



Crop-Livestock Interaction for Sustainable Agriculture

Crop-livestock is a form of land use system whereby livestock husbandry and cropping are practiced in association. The production system safeguards ecosystem balance ...

Structural Analysis of Animal Husbandry and Fishery ...

This study investigates the structural interdependency of the animal husbandry and fishery sector and other sectors in Turkish economy. It reports the ...



Estimates of energy demand and energy saving potential in ...

In this section, two kinds of scenario analysis are conducted to analyze the future energy saving potentials, showing the effects of different energy-saving policies on China's ...

Herders' adaptation strategies and animal husbandry ...

The intensification of land use and the accelerated integration of three industries (agricultural production, agricultural product processing industry, and agricultural product market service ...



Relationships between agricultural growth and energy

...

Empirical results show that from 1953 to 2020, feedback existed between the growth in agricultural output and energy use. From 1980 to 2020, unidirectional Granger ...

Holistic system analysis of the energetic power and efficiency of

As part of a broader holistic system analysis, I also provide preliminary thoughts about how power-efficiency relationships at lower levels of biological organization may affect ...

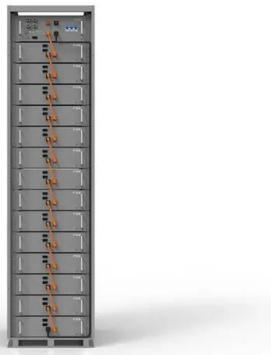


Estimation of cost efficiency of fattening pigs, sows, and

The hog industry is the core industry in the field of agriculture and animal husbandry in China, which development is related to the improvement of people's quality of life. ...

Carbon emissions changes of animal husbandry in China: Trends

It introduces a spatial shift-share analysis method to evaluate the competitiveness of the industrial structure and carbon efficiency in the regional low-carbon ...



Importance of Animals in Agricultural Sustainability and Food ...

In this article, we highlight the importance of animals to achieving food security in terms of their valuable contributions to agricultural sustainability, especially in developing countries, and the ...

Economic Analysis of Animal Husbandry Based on System ...

This article studies the animal husbandry economy based on system dynamics and constructs an intelligent model to intelligently analyze the animal husbandry economy so ...



The relationship between agricultural and animal husbandry ...

This article combines two models to study and predict the relationship between carbon emissions from agriculture and animal husbandry in Henan Province and the economy, ...

Impacts of agricultural industrial agglomeration on China's

For each province, the statistical yearbooks of China and the various provinces for the corresponding years were used to acquire the raw data of the following: the GDP and ...



12.8V 200Ah



Carbon emissions changes of animal husbandry in China: Trends

The direct and total effects of EXP on the carbon intensity of animal husbandry are significantly negative at the 1 % level, illustrating that increased governmental financial ...

Research Review on the Energy Coordination and Carbon ...

Large-scale distributed energy resources integration has brought serious challenges for regional power grid operations such as power redundancy and limited external ...



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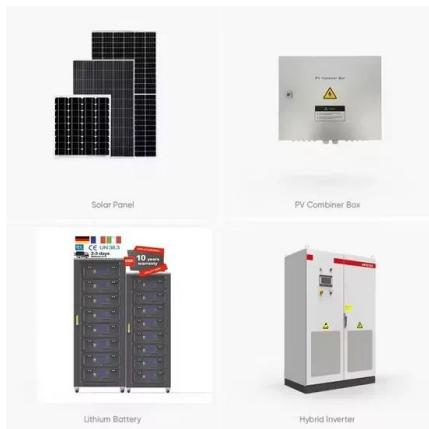


Economic and environmental analysis of energy ...

This report illustrates case studies with an in-depth analysis of the interactions of energy efficiency measures with farm economics and the ...

Energy for Agriculture

Overview Modern agriculture needs modern energy - the two are closely linked. For many developing countries, agriculture is the dominant sector in developing the economy. Increasing ...



IS MOVEMENT TOWARDS SUSTAINABLE LIVESTOCK FARMING POSSIBLE? ANALYSIS

...

PDF , On Jun 4, 2022, Xueli Chen and others published IS MOVEMENT TOWARDS SUSTAINABLE LIVESTOCK FARMING POSSIBLE? ANALYSIS OF THE CHINESE ...

Large-scale production: A possible way to the balance between ...

The data of rate of scale farming and net profit over 31 provinces in pig industry mainly from China Animal Husbandry and Veterinary Yearbook. Feed day, cost, net profit, ...



Role of integrated crop-livestock systems in improving agriculture

Sustainable agriculture as an alternative to intensive specialized agriculture can increase productivity and profits without having adverse impacts on the environment. An ...

Economic Analysis of Animal Husbandry Based on System ...

In order to improve the effect of animal husbandry economic analysis, this article studies the animal husbandry economy based on system dynamics and studies how to define ...



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