

What are sustainability performance indicators of agricultural systems?

The sustainability performance of an agricultural system depends on various factors related to water, energy, and food. This study selects and ranks sustainability performance indicators (SPIs) of agricultural systems with the analytical hierarchy process (AHP).

Could agricultural reservoirs be connected to micro-pumped hydro energy storage systems?

The study, published today in *Applied Energy*, finds agricultural reservoirs, like those used for solar-power irrigation, could be connected to form micro-pumped hydro energy storage systems - household-size versions of the Snowy Hydro hydroelectric dam project.

Can agricultural land be used for energy co-production?

To relax land constraints, we propose the concept of 'aglectric' farming, where agricultural land will be sustainably shared for food and energy co-production. While wind turbines on agricultural land are already put into practice, solar power production on agricultural land is still under research.

Can renewables improve cold storage capacity in rural areas?

However, advances in renewables-based and efficient cooling systems present an opportunity to expand cold storage capacity in a way that is environmentally sustainable and more accessible, particularly in rural areas. Several cold storage technologies are deployed around the world.

Could micro-pumped hydro energy storage be the future of Australia?

From nearly 1.7 million farm dams, the researchers identified over 30,000 sites across Australia as promising for micro-pumped hydro energy storage. The average site could provide up to 2 kW of power and 30 kWh of usable energy - enough to back up a South Australian home for 40 hours.

Is PV aglectric farming a viable solution for a renewable future?

Further study should account for these factors. In this work, we show that PV aglectric farming is a viable solution to relax the land constraint for a renewable future. PV aglectric farms, wind aglectric farms and regular PV parks will be used according to the local renewable resource and land availability.

Given the issues of low efficiency of agricultural Internet of Things (IoT) data collection and data storage security, this study proposes a fast and reliable storage method for IoT data based on blockchain. Firstly, it performs RC5 encryption for data in the IoT sensor module. Secondly, it aggregates the same batch of collected data in the gateway into a transaction and ...

New Media and Sustainable Agricultural Development in Nigeria Okafor, Godson Okwuchukwu (Ph.D) 1* Malizu, Chinonye Faith 2 ... finance and/or non-access to loan. This aligns with the saying that information is power. ... strengthening of agricultural production, storage and marketing, as well as research and

development imperative.

As the world experiences a quantum leap in the speed and scope of digital connections, industries are gaining new and enhanced tools to boost productivity and spur innovation. Over the next decade, existing technologies like fiber, low-power wide-area networks (LPWAN), Wi-Fi 6, low- to mid-band 5G, and short-range connections like radio-frequency ...

The Kenya Agricultural and Livestock Research organization (KALRO) was established through the Kenya Agricultural and Livestock Research Act of 2013 and given the mandate to conduct agricultural And livestock research of strategic national importance and produce improved technologies, we believe that the scope and diversity of our mandate ...

Our agricultural system concentration data reveals the widespread market concentration in nearly every agricultural sector in the U.S. ... Waves of mergers and acquisitions across food and agriculture sectors have concentrated power into the hands of just a few dominant corporations. ... The above data are derived from a Farm Action report set ...

Agricultural price trends and outlooks for global grains, oilseeds and vegetable oil, including supply and demand forecasts across key regions. ... and a monthly forecast/thought leadership report ahead of the USDA's WASDE report. Key features. Weekly webinars. Get our experts' view on recent developments, forward-looking analysis and ...

agricultural water storage is widely anticipated to make a key contribution to climate change (CC) adaptation, particularly in Africa. However, if the planning of water storage is not improved, it is likely that many investments will fail to deliver intended benefits. This report describes different agricultural water storage options and some of

Cold Storage Project Report, Cost and Subsidy:Post-harvest management of produce is a highly important aspect of farming because all vegetables or fruits ... It is being realized that proper and timely storage of produce is an essential factor in the agriculture industry and due importance is given for the same. Research has suggested that the ...

The results showed that: (1) the rice deterioration occurred as time passed, and the germination rate decreased from 70.8% to 29.4% during the storage; (2) fatty acid values increased significantly during long-term storage; (3) electrical conductivity increased as time passed; and (4) the two-year-storage rice showed significantly decreased ...

(8) Metal Storage Area - Any metal that was used is stored back on racks or storage area. (9) Power Tool Inspection and Reporting - All power tools (drills, grinders, presses, vises, etc.) are stored away if not stationary and inspected for wear, chips, or other defects. All defects are reported to the instructor.

Agricultural Economics is an international journal publishing research results ... and variants of propensity-score-based methods suggest that cold storage significantly increased horticulture sales volumes and revenues of market agents. ... and Google Mobility Reports (Google(TM), 2021), indicated that the levels of restrictions were relatively ...

3/24/2018 Horizon Equipment Ag-Power Supplies and retails ag/farm/turf equipment and parts - - - 3/23/2018 Larson Farm and Lawn Heritage Tractor Farm and lawn machinery and equipment dealer - - - 3/19/2018 L.T. Rich Products The Toro Company Manufactures commercial zero-turn spreader and sprayers, aerators, etc. - - -

the two Agricultural Universities and thirty-eight Krishi Vigyan KendrasKVKs (Agriculture Science Centers) in the - State [16]. The SWOT analysis of the State Government reports, "extension services in terms of creating awareness about new technologies, conducting field demonstrations, conducting training programmes and providing latest

AgInjuryNews is a news report-based, online sentinel surveillance dataset that has provided publicly available news and media reports of agricultural injuries since early 2015. In the 6 years since its inception, AgInjuryNews has hosted 12,897 unique visitors and has collected 997 user account registrations. New users from geographic areas home to ...

Agriculture, an international, peer-reviewed Open Access journal. ... Novel Methods, Techniques, and Procedures of Processing and Storage for Agricultural Commodities Print Special Issue Flyer; Special Issue Editors ... Articles in Special Issues are often promoted through the journal's social media, increasing their visibility.

This Insights report describes the current state of Australian agriculture, with the aim of providing key information and statistics in one place. It covers eight key aspects of Australian agriculture: its role in the broader economy, trends in production, farm incomes, industry structure and productivity, climate change impacts and risk management, agricultural employment, ...

Join the African Newspaper Community on WhatsApp. "Given the current post-harvest loss rates of up to 60 percent for perishable crops, Nigeria needs to rapidly introduce new storage solutions across its agricultural system," says Audu Ogbeh at the launch of the Agriculture Promotion Policy (2016 - 2020) of the Buhari administration. Nigeria's ...

"Today the reason why most agricultural machinery is [run by] diesel is because of the high power-to-weight ratios when we look at energy storage in the form of diesel fuel," says Scott Shearer, chair of the Department of Food, Agricultural and Biological Engineering at Ohio State University.

Media Center. Newsroom ; Annual Reports. Annual Report 2022 ; Annual Report 2021 ; Annual Report 2020 ; ... Africa Agriculture Status Report-2024-Accelerating the Private Sector for Food Systems Transformation

in Africa . September, 2023 ... An Assessment of Optimal Stock Levels and Storage Capacity . September, 2023.

The aim for average agricultural power availability by 2030 is 4.0 kW ha⁻¹ for timely and precise field activities. The Net sown area per tractor decreased from 487 ha/tractor in 1975-76 to 18 ha/tractor by 2019-20 as the population of operational tractors increased to ...

The Ohio Power Siting Board has given the go-ahead to what will be one of the largest solar farms in the United States, despite the opposition of local governments and citizens.. The gigantic \$ 1 billion endeavor, the largest solar project in the state by far, will spread over 6, 000 acres of farmland in staunchly Republican Madison County. Some of the acreage is owned ...

2020 Year-end Report Philippine agriculture rises to the challenges of the times 2020 has officially become the most challenging year for the Philippine agriculture sector. Massive stresses faced ... storage warehouses complete with meat-cutting facilities, initially in four areas, located in three provinces. With a total budget of P280 million,

The grain storage silo market report provides granular level information about the market size, regional market share, historic market (2018-2022), and forecast (2023-2029) The report covers in-detail insights about the competitor's overview, company share analysis, key market developments, and their key strategies

Agricultural processes are increasingly automated and data-driven (Aubert et al., 2012; Shamshiri et al., 2018). Digitalization in agriculture is a game-changing technology and is commonly referred to as Agriculture 4.0 (Klerkx and Rose, 2020). The increasing emergence of data-driven development traces its history back to the beginnings of precision agriculture in ...

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