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It's a great pleasure to inform you that, after the peer review process, your article "Low Carbon Development Study of Watermelon Cultivation as an Implementation of a Green Economy" has been accepted and considered for publication in the **Pakistan Journal of Life and Social Sciences**.

The article will be Published in **Volume 23 , 2025 .**

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Low Carbon Development Analysis

This analysis aims to determine the amount of GHG emissions resulting from the operation of the PLTS pump irrigation system and compare it with conventional irrigation systems to assess its effectiveness in reducing the carbon footprint. The steps for the GHG Emission Inventory included data collection and emissions calculation. Data collection was conducted to inventory the energy and fuel consumption of a pump irrigation system, which encompassed the production, transportation, installation, and operational processes powered by fossil fuel electricity. Additionally, the operational costs of solar-powered irrigation pumps were also inventoried for comparison with the conventional pump irrigation system. Afterwards, GHG (CO₂ equivalent) emissions were calculated based on the energy and fuel consumption as activity data and emissions factors, in accordance with IPCC Guidelines for National Greenhouse Gas Inventories.

Results and Discussion

Analysis of Irrigation Water Supply

Research at the Southwest Purdue Agricultural Center compared watermelon yields between two fields: one field received 25.4 mm of water per week through drip tape and mulch, while the other field was not irrigated. The non-irrigated field experienced a yield reduction of about 5%, with average fruit weight decreasing from 7.53 kg to 7.16 kg. Fully grown watermelon plants in the summer require approximately 25.4 mm to 38.1 mm of water per week, based on the average reference evapotranspiration (ET₀). Assuming about one-third of the field is covered with plastic mulch, approximately 34,260 to 51,390 liters of water per hectare per week is needed [15].

Table 1. Pattern of Water Supply for Watermelon Cultivation

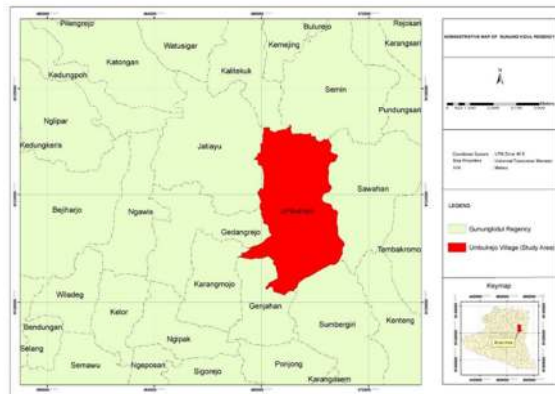
No.	Planting Age	Water Supply			
		Morning	Watering	Afternoon	Watering
		UIR (mm/day/hectar)	period, every	UIR (mm/day/hectar)	period, every
1	1 - 15 DAP	3.89	2 days	3.86	2 days
2	15 - 45 DAP	2.86	2 days	2.86	2 days

energy, reduce crop losses, and increase economic sustainability, and reduce greenhouse gas emissions (4,7). This research aims to examine the effectiveness of low-carbon development in reducing GHG emissions by cultivating watermelon in Umbulrejo Village, Ponjong District, Gunungkidul Regency. This development model can be expanded by evaluating the effectiveness of SPP pump irrigation in reducing GHG emissions.

Materials and Methods

Research Sites

The research was conducted in Sladi Hamlet, Umbulrejo Village, Ponjong District, Gunungkidul Regency, Special Region of Yogyakarta (Figure 1). The research object is a SPP pump irrigation system designed to irrigate watermelon plants, developed by INSTIPER in collaboration with State-Owned Enterprises (SOE) company PT Virama Karya.



Author

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