

ZERO WASTE MANAGEMENT IN PINEAPPLE PRODUCTION – THE INDONESIAN EXPERIENCE**Ir. Fauzan Khumaedi**

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Farming practices that ensure long-term increases in productivity, rather than simply aiming to maintain current productivity, are a key pillar of Great Giant Foods' strategic framework. Hence, the development of a wide range of agricultural materials from organic waste that are used to improve soil health and reduce chemical fertilisers and pesticides is an important innovation that continues to be carried out in a circular manner.

At the land preparation stage, all crop residues are used as organic mulch, and premium compost specially made from manure, biochar, and fermicompost is applied to ensure the soil carrying capacity can be adequate for optimal plant needs, both from the chemical, physical and microbiological fertility of the soil. In plant care, in order for plants to have strong disease resistance, resistance to various stress factors, and adequate nutrition, liquid organic fertilisers and biopesticides are routinely used to replace some of the chemical fertilisers and pesticides.

During the long dry season due to El Niño, the use of premium compost on poor soils can produce 2% higher yields than yields on more fertile soils without compost application. Meanwhile, the use of liquid organic biofertiliser can improve the quality of roots and plants, thus increasing the average fruit weight by more than 10%.