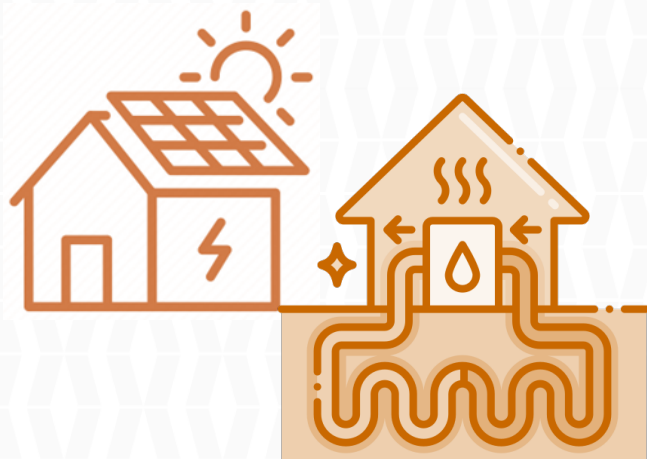


# Zero Carbon Footprint Farms



**Schematic of Photovoltaics and Geothermal Systems in a broiler farm.**

## Zero Carbon Footprint Farm: A Sustainable Poultry Farming Model

The transition towards a zero-carbon footprint farm represents a significant step in reducing the environmental impact of livestock farming. This innovative poultry farm integrates renewable energy technologies to eliminate its carbon footprint, ensuring sustainability while maintaining high production standards.

The farm achieves this through the use of solar panels for electricity generation, along with geothermal systems to enhance energy efficiency.

The poultry house is heated exclusively with self-generated green electricity, further reducing reliance on fossil fuels.

A key advantage of this approach is the financial benefit derived from reducing fossil fuel consumption, which amounts to approximately €40,000 annually. The total installation cost of the renewable energy systems is approximately €90,000 for a unit housing 40,000 birds. This investment pays off within just two years, demonstrating the financial feasibility of such sustainable practices. In addition to the environmental benefits, the farm offers significant cost savings, amounting to approximately €0.16 per bird annually after the payback period.

This model not only contributes to the fight against climate change but also serves as a blueprint for the future of sustainable agriculture. By embracing renewable energy, energy efficiency, and waste reduction strategies, the zero-carbon footprint farm exemplifies the potential for achieving carbon neutrality in the agricultural sector. The farm's success highlights the importance of innovation, investment, and long-term planning in creating a more sustainable and environmentally responsible farming industry.

