

Approaches to Upgrading Traditional Poultry Farms in Nigeria

QINGDAO, SHANDONG, CHINA, September 3, 2026 /EINPresswire.com/ -- Nigeria's egg-laying hen industry is undergoing a quiet transformation. In core consumer markets like Lagos and Abuja, retailers are setting increasingly stringent sourcing standards: they not only demand a stable supply but also prioritize eggshell cleanliness, size uniformity, and continuity of supply. A real-world farm upgrade project reviewed in 2024 demonstrates how Nigerian layer farms can transition from traditional systems toward modern automated production.

Layer chicken farm in Nigeria

Retech Farming is a poultry farm modernization solution provider for Nigerian farmers seeking to upgrade traditional layer houses into modern automated systems.

1. What Problems Do Traditional Layer Farms in Nigeria Face?

Iteration of Farming Models: From Traditional Simple Equipment to High-Density, Large-Scale Intelligent Farming

Traditional chicken farming in Nigeria: Many small and medium-sized chicken farms in Nigeria use open-style Type A simple cages, with each cage housing only 5,000 chickens, relying on natural ventilation and manual feeding and egg collection.



Its advantages are low initial investment, quick construction, and low technical requirements, making it suitable for small-scale startups. However, it requires a large area, has a low stocking density, high labor costs, cannot stably control temperature and humidity, and can experience fluctuations in egg production and a higher risk of disease.

As poultry farms expand, these limitations have contributed to increasing interest in higher-density housing, automated equipment, and more controlled production environments.

2. What Upgrade Services Does Retech Farming Offer?

Retech Farming's poultry farm modernization services include:

- Traditional chicken house assessment
- Chicken house design upgrade
- Steel structure construction
- H-type layer hen cage system
- Automatic feeding, watering, manure removal, and egg collection system
- Environmental control system
- Installation and commissioning

These services support the transition from traditional poultry houses to integrated automated layer farming systems.

Turnkey poultry farm solution Nigeria

3. Nigerian Farm Upgrade Project: From 5,000 to 50,000 Chickens

1. Increased Production Capacity and Density

From 5,000 traditional open A-type cages to 50,000 chickens in a single building, the breeding scale has increased 10 times. The closed [H-type multi-tier fully automatic layer cages](#) maximize land utilization through cascading design, effectively increasing egg production per unit area and reducing unit egg production costs.

2. Closed Chicken House + Automatic Environmental Control

Nigeria straddles the tropics, with high temperatures and large changes in humidity. Traditional open chicken houses cannot accurately control the environment inside the house, and the egg production rate can fluctuate.

Retech's closed [steel structure chicken coop](#), combined with an automatic environmental control system, can isolate wild birds and mosquitoes, reduce the risk of disease invasion such as avian influenza, and provide more precise temperature and humidity control.

This approach can help stabilize the egg production rate and extend the peak egg production period.

Poultry house design for hot climate

3. Steel Structures Replace Brick and Concrete, Shortening the Construction Cycle

Brick and concrete chicken houses typically take 6-8 months from design to completion, while steel structure installation takes approximately 35-40 days, reducing the construction time. Equipment installation takes approximately 45 days, keeping the overall installation time within 3 months.

The shorter construction period can improve the efficiency of poultry farm installation and allow the upgraded facility to enter operation sooner.

4. High Efficiency: 1-2 People Manage One Chicken House

A fully automated, enclosed layer hen house with 50,000 chickens requires only 1-2 people for daily management.

Layer cage system for Nigeria

In contrast, a traditional open-style chicken coop for 5,000 chickens requires manual labor for tasks including feeding, egg collection, manure removal, and environmental inspection. Each coop needs at least 3-4 people. Based on the same number of chickens, the traditional model would require at least 30-40 workers for 50,000 chickens, while the upgraded fully automated system requires 1-2 people for daily management.

This difference is also relevant to labor management. Skilled poultry farmers can be difficult to find, while staff turnover and training requirements can add operational challenges. Automation reduces reliance on manual labor, with automatic feeding, watering, manure removal, egg collection, and environmental control handled by the system. Managers primarily need to monitor data and respond to alarms through mobile apps or computer terminals.

In fact, the modernization of Nigeria's poultry industry has accelerated significantly. In 2025, the Nigerian federal government partnered with China to launch a large-scale, integrated poultry farming project, introducing modern Chinese poultry farming technologies and intelligent temperature-controlled environments. In early 2024, another Nigerian farm, after introducing H-type stacked automatic cages, achieved a peak egg-laying period lasting six weeks, with an egg production rate as high as 96-98%.

These cases point to a broader trend: poultry farming in Nigeria is transitioning from traditional

extensive, labor-intensive methods toward intensive and automated practices. The adoption of automatic layer cages and environmental control systems is contributing to changes in farming methods and farm management.

4. Retech Farming's Project Experience in Nigeria

A poultry equipment manufacturer's project experience provides practical information about equipment installation, farm capacity, project timelines, and system integration.

Relevant project information can include:

- Actual project photos
- Installation case studies
- Farm capacity details
- Project timeline
- Client deliverables
- After-sales support

Retech Farming has experience in modernizing poultry farm projects, including the aforementioned case study of a 50,000-laying-hen farm in Nigeria. The project demonstrates the integration of housing construction, H-type layer cages, automated feeding and watering, manure removal, egg collection, and environmental control.

Layer Poultry Farm Project in Nigeria

5. Retech Farming's Poultry Farm Modernization Capabilities

Retech Farming provides complete poultry farming solutions covering farm assessment, chicken house design, steel-structured chicken houses, automated equipment systems, installation, and commissioning.

Retech Farming's solution capabilities include:

- One-stop poultry farming solutions
- Experience with commercial layer farm projects
- Support for steel-structured chicken houses
- Automated equipment systems
- Efficient installation processes
- Higher land utilization
- Reduced labor requirements
- Improved biosecurity through controlled housing
- Solutions designed for the needs of the Nigerian market

For Nigerian poultry farmers, the upgrade from a traditional 5,000-chicken coop to a modern, automated 50,000-chicken coop illustrates how changes in housing design and equipment systems can support larger-scale commercial layer farming.

6. Conclusion

The modernization of layer farms in Nigeria involves multiple factors, including housing design, climate control, equipment automation, installation efficiency, land utilization, and labor management.

The 50,000-layer-hen farm project demonstrates one approach to upgrading a traditional poultry operation through closed housing, H-type multi-tier layer cages, automatic feeding and watering, manure removal, egg collection, and environmental control.

As Nigeria's poultry sector continues to develop, automated equipment and controlled poultry housing are becoming increasingly relevant to commercial layer farming.

For more information about Retech Farming's poultry farming solutions in Nigeria:

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