



SUSTAINABLE INFRASTRUCTURE

Economic Performance and Absolute Respect for Nature

Sustainability is not a constraint at NONESAVANH: it is a driver of profitability and a fundamental commitment.



We build with nature, not against it. From bamboo architecture to future solar autonomy and aquaponics, every element is designed for low impact and high resilience. We employ local teams and source materials from the Champassak region

Introduction

In a world where energy costs and climate challenges are accelerating, NONESAVANH was designed from the ground up to be resilient. Our approach to sustainability goes beyond "greenwashing": it aims for autonomy, a drastic reduction in operational costs (OPEX), and the regeneration of the local ecosystem.

Every technical choice is guided by a logic of circular economy and respect for living systems.

1. Energy: Towards Photovoltaic Autonomy

We minimize our dependence on the national grid through a decentralized energy strategy:

Autonomous Accommodations: The 50 bamboo cabins and 10 "Treehouse" structures are equipped with integrated solar panels, ensuring lighting and electrical outlets in total autonomy.

Commercial Center: The roof of the future 3,500 m² center integrates photovoltaic panels to cover a significant portion of the air conditioning and common area lighting needs.

Efficiency: Bioclimatic architecture (cross natural ventilation, optimal orientation) and 100% LED lighting to reduce consumption to an absolute minimum.

2. Intelligent Water Management and Preservation

Water is a precious resource in Laos. Our system protects and enhances it:

Artesian Well: A 30-meter deep well with a UV filtration system guarantees pure, independent drinking water without depleting superficial water tables.

Natural Wastewater Treatment: Use of phyto-purification (bio-digesters and plant-based filtration) to treat grey and black water before returning it to the earth, protecting the Mekong and local soils.



Harvesting and Conservation: Rainwater harvesting systems for irrigation and drip irrigation for the organic garden and landscaped areas.

3. Circular Economy and Innovative Aquaponics

NONESAVANH integrates a closed-loop food ecosystem, a true technological and ecological jewel of the project:

- **The Aquaponics Greenhouse (2,000 m²):**

This system combines aquaculture (farming fish like Tilapia or Barramundi) and hydroponics (soil-less plant cultivation). Natural fish waste fertilizes the plants, which in turn filter and purify the water for the fish.

- **Benefits:**

90% reduction in water consumption compared to traditional agriculture, elimination of chemical fertilizers, and local production of 5 tons of fish and 15 tons of organic vegetables per year.

- **Zero Waste:**

Strict policy eliminating single-use plastics. 100% of organic waste from the restaurant and garden is composted to fertilize our soils.

4. Bioclimatic Architecture and Preservation of Living Systems

We do not build against nature, but with it:

- **Stilt Construction (1 meter elevation):**

All new structures (cabins, treehouses, sanitary facilities) are elevated. This allows natural ventilation, protects against seasonal moisture, and, crucially, preserves the root systems of existing mature trees intact.

- **Certified Local Materials:**

Extensive use of treated bamboo (anti-insect and anti-humidity), local wood, stone, and traditional Lao roofing, reducing the carbon footprint of transport and supporting the local economy.

- **Landscape Integration:**

Plots are delimited by natural vegetative hedges, guaranteeing guest privacy while maintaining biodiversity.

Why This Commitment is an Asset for the Investor

- **Cost Reduction (OPEX):** Energy and water autonomy protects the project from rising public utility rates and shortages.



- ESG Compliance: This model perfectly meets the Environmental, Social, and Governance criteria demanded by modern investment funds.
- Powerful Marketing Argument: International travelers (especially Europeans) are willing to pay a premium for truly eco-responsible accommodation.