

# Certification of Sustainable Excellence - Laudato Si'

## Gold Level

Salesians University

Board of Directors

Certification No.: **20240305LDS-PALMEROLA**

Date of Issuance: March 5, 2024

The Board of Directors of Salesian University, in conjunction with the Unit of Ecology and the Academic Diaconate, hereby certifies that the development project Palmerola North West Garden Estates has been evaluated and meets the comprehensive sustainability criteria required for the Laudato Si' Gold Level Certification, equivalent to the LEED Gold certification standards. This certification acknowledges the project's exceptional commitment to sustainable development, environmental stewardship, and social responsibility.

### **Checklist of Sustainability Virtues:**

#### **Location and Transportation:**

- Strategic site selection to minimize environmental impact.
- Preservation of existing natural landscapes and mature trees.
- Integration with public transportation networks.
- Provision of electric vehicle charging stations and bicycle-friendly infrastructure.

**Sustainable Sites:**

- Implementation of a green infrastructure for water management, including bio-retention areas and permeable paving.
- Preservation of over 60% of the site for ecological conservation and green spaces.
- Creation of three lagoon systems for water filtration and aquaponics.

**Water Efficiency:**

- Advanced systems for greywater biopurification and recycling.
- Innovative blackwater treatment solutions, including incineration toilets and Inhoff tanks.
- Reduction of potable water use through efficient fixtures and landscaping practices.

**Energy and Atmosphere:**

- 100% energy autonomy through the use of photovoltaic panels and lithium battery storage systems.
- Implementation of energy-efficient building designs and materials to minimize heat gain and loss.
- Autonomous and energy-efficient public lighting and security systems powered by solar energy.

**Materials and Resources:**

- Use of locally sourced, recycled, and recyclable materials in construction.
- Development of a waste management plan focusing on reduction, reuse, and recycling.
- Innovation in service infrastructure to facilitate maintenance and reduce the ecological footprint.

**Indoor Environmental Quality:**

- Maximization of natural light and ventilation in all living spaces.
- Use of low-emitting materials for indoor finishes to enhance air quality.
- Provision of thermal comfort and acoustic performance to ensure occupant well-being.

**Innovation:**

- Development and integration of advanced technologies for sustainable living.
- Continuous improvement and monitoring of environmental performance metrics.
- Significant contribution to the body of knowledge in sustainable practices through academic research and collaboration.

**Community Service and Altruism:**

- Commitment to social responsibility through substantial contributions to the EDEN2034 project for community kitchens and sustainable food systems.
- Active engagement in local community development and support initiatives.

**Additional Attributes:**

- Proximity to the International Airport of Palmerola, enhancing accessibility and global connectivity.
- Educational partnerships for professional training in ecological management and sustainable urban development.
- Self-sufficiency in energy and resource management, ensuring no additional burden on local infrastructure.

This certification is granted in recognition of the exemplary efforts and achievements of Palmerola North West Garden Estates in embodying the principles of Laudato Si', fostering an environment of sustainability, innovation, and community engagement. The development sets a benchmark for future projects in sustainable living and ecological stewardship.

Salesian University Board of Directors

[Original. Official Seal and Signatures]