Domaine de Graux

Climate Action Plan

1. Our Climate Action Plan

At Domaine de Graux, we recognize the urgent need to address climate change and align our operations with a low-carbon future. As an agroecological farm, our mission is to prove that regenerative and organic farming can thrive at scale, while increasing farmer resilience and reducing environmental impacts. This Climate Action Plan outlines our current commitments, actions, and roadmap for continuous improvement.

2. Scope of emissions

- Scope 1 (Direct emissions): Fuel use for vehicles and heating systems.
- Scope 2 (Indirect emissions from purchased energy): Electricity consumption for operations, facilities, and equipment.
- Scope 3 (Value chain emissions): Not included in current calculations due to resource constraints. We plan to integrate Scope 3 after the farm renovation, when activities restart in 2027.

3. Current mitigation actions

Even before formal measurement, our regenerative practices already contribute significantly to climate mitigation:

- Soil carbon sequestration: Through cover crops, composting, reduced tillage, and biodiversity enhancement.
- Water efficiency: Improved soil structure reduces irrigation needs and enhances resilience to drought.
- Biodiversity gains: Agroforestry, hedgerows, and habitat creation support ecosystem services.
- Local food systems: Short supply chains reduce transport emissions and strengthen community resilience.
- Renewable energy use: We source green electricity and plan to expand renewable installations post-renovation.

4. Measurement & reporting

- Annual calculation of Scope 1 and 2 emissions began in 2024, where we established a baseline year (2022) for emissions data.
- Report on our Climate Action Progress through our annual impact report, staring in 2027.
- We explore partnerships with universities or labs for soil carbon measurement and validation, as well as other climate related measurements.

5. Proposed targets

- Short-term:
    - Complete Scope 1 & 2 inventory.
- Medium-term (2027–2030):
    - Integrate Scope 3 emissions into reporting after farm renovation.

- Achieve significant reduction in Scope 1 & 2 emissions compared to baseline thanks to energy efficient measures implemented during our renovation.

- Long-term (2030+):
  - Reduce Scope 1 & 2 emissions to the minimum possible, compensating our unabated emissions.
  - Obtain external validation of soil carbon sequestration impact; demonstrate measurable climate benefits of regenerative agriculture at scale.

6. Key actions we currently explore

- Energy efficiency: Upgrading equipment, insulating buildings, optimizing heating/cooling, intelligent monitoring systems for energy and water consumption.
- Renewables: Installing infrastructure for on-site renewable energy production.
- Mobility: Transitioning farm vehicles to electric alternatives where feasible.
- Soil health R&D: Continuing trials on regenerative practices to maximize carbon sequestration.
- Community engagement: Sharing climate progress with consumers, suppliers, and policymakers to inspire broader adoption.

7. Continuous improvement

This plan is a living document. Scope 3 emissions will be integrated after 2027, and targets will be updated as new data, technologies, and practices become available. Our regenerative approach ensures that climate action is not only about reducing emissions but also about restoring ecosystems and building resilience.