

EKOSISTEM HOTELS & VILLAS

CLIMATE ACTION ROADMAP



Climate Action Roadmap

This report/publication has been prepared as part of the responsibilities undertaken by the parties who have signed the Glasgow Declaration. By signing the Declaration, we have agreed to take on the task of creating and carrying out plans to address climate change.

Authors:





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EXECUTIVE SUMMARY

Ekosistem Hotels & Villas Climate Action Roadmap

Background

Tourism plays a crucial part in the context of worldwide carbon emissions, rendering it significant within the climate crisis. According to a 2018 report from Nature Climate Change, this industry contributes approximately 8% of the planet's carbon emissions. At the same time, the tourism industry is highly sensitive to the harmful effects of climate change.

As signatories of The Glasgow Declaration on Climate Action in Tourism, Ekosistem Hotels & Villas are willing to actively take part in making positive changes to address climate challenges and move closer to a net-zero emissions future. This decarbonization roadmap serves as a strategic blueprint designed to guide our transition towards a low-carbon future.

Target

- Ekosistem Hotels & Villas commits to reduce Scope 1 & 2 GHG emissions 31,89%-42% by 2030 from a 2025 base year.
- Ekosistem Hotels & Villas commits to reduce Scope 1 & 2 GHG emissions 84% by 2040 from a 2025 base year.
- Ekosistem Hotels & Villas commits to reduce Scope 3 GHG emissions 50% by 2040 from a 2030 base year.
- Ekosistem Hotels & Villas commits to reach Net-Zero by 2050

Climate Action Strategy

- **Short-term Strategy:** Initiating action, baseline setting, publishing the plan
- **Mid-term Strategy:** Starting decarbonization, analyzing scope 3 and engaging stakeholders
- **Long-term Strategy:** Advancing Implementation and focus on Value Chain

EKOSISTEM

CLIMATE ACTION

INTRODUCTION

Tourism has a significant role in the context of global carbon emissions, making it important in the climate emergency. The sector is responsible for around 8% of the world's carbon emissions, as reported by Nature Climate Change in 2018. At the same time, the tourism industry is highly sensitive to the negative effects of climate change. Many countries around the world understand the urgency of dealing with climate change and are working to adjust and reduce its impacts.

Recognizing the imperative of swift and collective action, the United Nations World Tourism Organization (UNWTO) has spearheaded a movement aimed at intensifying climate action and effecting a profound transformation within the tourism sector. A pivotal step in this direction is the endorsement of The Glasgow Declaration on Climate Action in Tourism.

As signatories of The Glasgow Declaration on Climate Action in Tourism, Ekosistem Hotels & Villas must actively take part in making positive changes to address climate challenges and move closer to a net-zero emissions future. To take meaningful steps forward, we create and formulate our Climate Action Plan and roadmap. These documents are like a guidebook that outlines our detailed plans to reduce our environmental impact and reach net-zero emissions.

Being a signatory is more than just a signature; it's a promise to actively make changes and work towards a better future. Our commitment is to keep moving forward, one step at a time, as we pave the way towards a world with less carbon emissions and a healthier planet for everyone.

COMPANY OVERVIEW

Figure 1. Company Overview in Summary



55

Number of
Rooms

5

Number of
Hotels & Villas

- Blossom Eco Luxe Villas
- Aradhana Villas
- iVilla
- Kharista Villas & Retreat
- The Jineng Villas

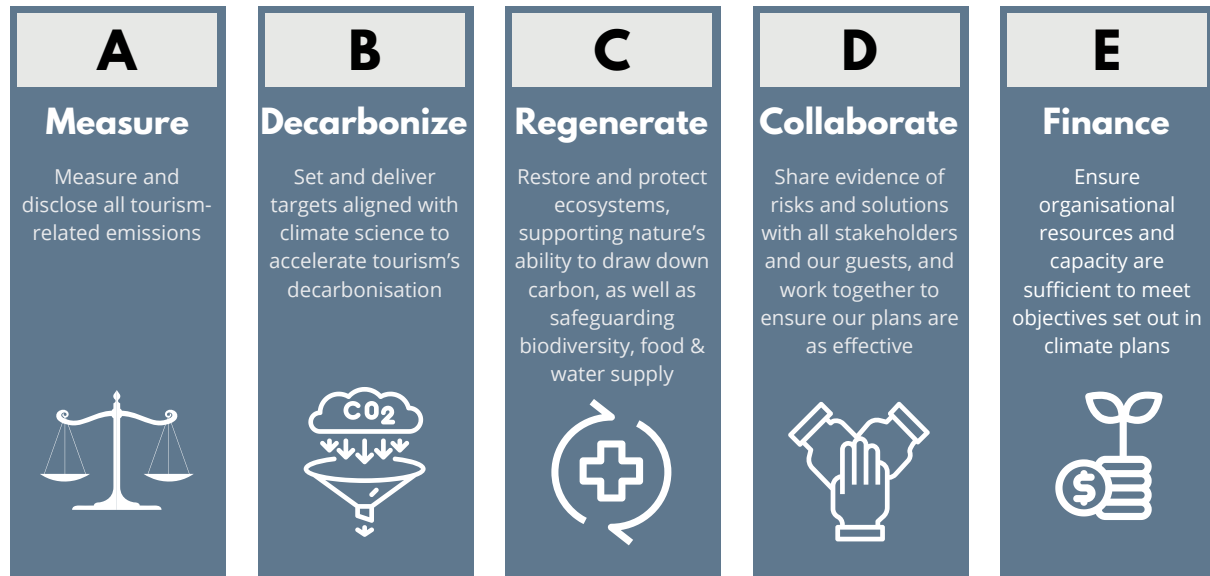
Ekosistem Hotels & Villas is a distinctive collection of Boutique Hotels, Luxury Villas, Eco-Retreats, Day Spa and Dining located in some of the most sought-after destinations in Bali. We aim to practice the genuine philosophy of sustainable tourism, empowering the local society and to be socially responsible. It is an invitation to rediscover the laid-back vibe of the island, an uplifting experience that is uniquely beautiful.

Embodies the genuine spirit of loving-kindness, our passion is to create a life-affirming and meaningful journey which allow you to immerse into the local cultures, wonderful traditions and help you to explore the beauty of Bali responsibly.

Our vision is to always respect and promote cultural heritages, increase positive impacts to the environment, and improve the prosperity of the local community. We breath, passionate and believe in our five pillars: PEOPLE, PLANET, PROSPERITY, PEACE, PARTNERSHIP

GHG EMISSION HOTSPOT

Figure 2. Decarbonization Pathway



Source: One Planet Network

In an era defined by the urgency of climate action and sustainability, Ekosistem Hotels & Villas stands as a beacon of environmental responsibility within the hospitality industry. We recognize the profound impact our operations can have on the planet and are committed to leading by example in the journey towards a carbon-neutral and regenerative future. This Decarbonization Roadmap serves as our blueprint for transformation, encapsulating our dedication to not only reduce greenhouse gas (GHG) emissions but also rejuvenate ecosystems, embrace innovative financial models, and foster collaborative partnerships.

Synchronization with the Glasgow Declaration: In our resolute pursuit of decarbonization and ecological revival, Ekosistem Hotels & Villas align itself with the pioneering Glasgow Declaration standard. This comprehensive framework, established in the wake of the landmark COP26 summit, encapsulates four critical pillars – **Measure, Decarbonize, Regenerate, Finance, and Collaboration** – that guide our course of action.

Measure: To instigate change, we first must understand our impact. We pledge to measure our greenhouse gas emissions comprehensively, dissecting them across all scopes 1, 2, and 3. By utilizing robust assessment tools, we will gain insights that inform our decisions, enabling effective carbon reduction strategies.

Decarbonize: Through assessment and strategic planning, we aim to reduce our carbon footprint across all operational facets significantly. By addressing emissions within Scope 1, 2, and 3 categories, we endeavor to minimize our direct and indirect contributions to climate change. We commit to investing in energy-efficient technologies, transitioning to renewable energy sources, and adopting sustainable practices that ensure emissions reduction remains at the forefront of our mission.

Regenerate: Recognizing the interconnectedness of ecosystems and our role in stewarding natural resources, we pledge not only to reduce our impact but also to contribute positively to the environment.

We will actively work towards restoring the ecosystems that sustain life on Earth.

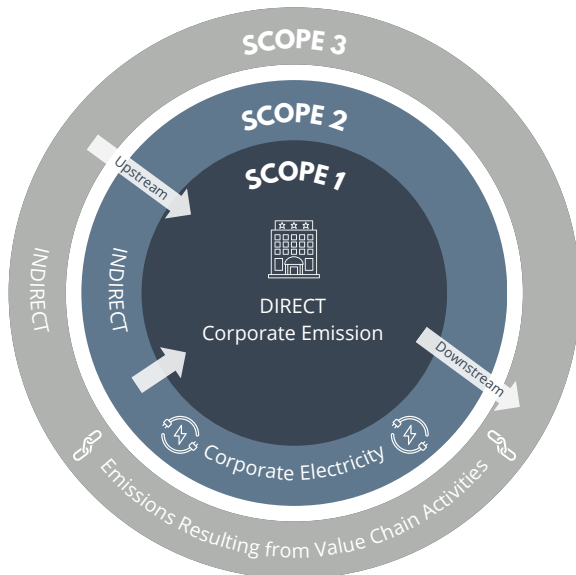
Collaboration: We acknowledge the collective responsibility to address climate change and understand that no entity can achieve sustainability in isolation. Ekosistem Hotels & Villas is committed to fostering collaboration with stakeholders, industry peers, local communities, and experts. By sharing knowledge, best practices, and resources, we seek to amplify our impact and drive systemic change on a broader scale.

Finance: Embracing the Glasgow Declaration's financial dimension, we commit to exploring innovative financing models that prioritize sustainability. By investing in carbon-offset projects and green infrastructure, we will channel resources towards initiatives that generate positive environmental and social outcomes while fostering economic resilience.



MEASUREMENT SCOPE

Figure 3. GHG Emission Scope



Scope 1: Direct GHG emissions that occur from sources owned or controlled by the organization.

Scope 2: Indirect GHG emissions from generation of purchased electricity consumed by the organization




Scope 3: Other indirect GHG emissions that occur as a consequence of the activities of the organization, but occur from sources not owned or controlled by the organization

In our resolute journey towards decarbonization, Ekosistem Hotels & Villas firmly embraces the internationally recognized Greenhouse Gas (GHG) Protocol as our guiding compass. This protocol provides a standardized methodology for comprehensively assessing and managing GHG emissions across various scopes. Our commitment to this protocol underlines our dedication to transparency, accountability, and effective reduction strategies.

Scope 1, 2, and 3 Emissions: As part of our comprehensive decarbonization strategy, Ekosistem Hotels & Villas will focus on addressing emissions in three distinct scopes, each representing a specific category of GHG emissions. By acknowledging the sources and impacts of emissions within these scopes, we can adopt targeted measures that yield effective results.

Scope 1: Direct Emissions Scope 1 emissions encompass the direct GHG emissions originating from sources directly owned or controlled by Ekosistem Hotels & Villas. These emissions are a direct result of our operational activities and include:

Figure 4. Scope 1 & 2 Emission Sources

	Emission Sources
Scope 1	 Company Facilities
	 Company Vehicle
Scope 2	 Purchased Electricity

Source: Sustainability Hospitality Alliance; Ecometrica

MEASUREMENT SCOPE

- **Company Facilities:** Emissions stemming from on-site energy production, such as the combustion of fossil fuels
- **Vehicle Fleet:** Emissions from our company-owned vehicle fleet, including cars used for transportation of guests, staff, and goods.

Scope 2: Indirect Emissions from Energy Consumption Scope 2 emissions encompass indirect GHG emissions associated with the generation of energy that Ekosistem Hotels & Villas consumes. These emissions result from the production of electricity, heating, or cooling that powers our operations, particularly:

- **Electricity Consumption:** Emissions tied to the consumption of electricity procured from the grid to power lighting, HVAC systems, electronic devices, and other equipment within our facilities.

Scope 3: Other Indirect Emissions Scope 3 emissions constitute a broader category of indirect emissions that occur from sources external to Ekosistem Hotels & Villas but are influenced by our activities. While our initial phase concentrates on reducing emissions directly under our control (Scopes 1 and 2), the analysis and action plan for Scope 3 emissions will follow in the next period.

The assessment of Scope 3 emissions is a complex endeavour, often involving collaboration with suppliers, partners, and stakeholders across various sectors. We will examine each facet of our operations that contributes to Scope 3 emissions in the mid-term period (see Measurement Journey). Instances of these emissions scope include:

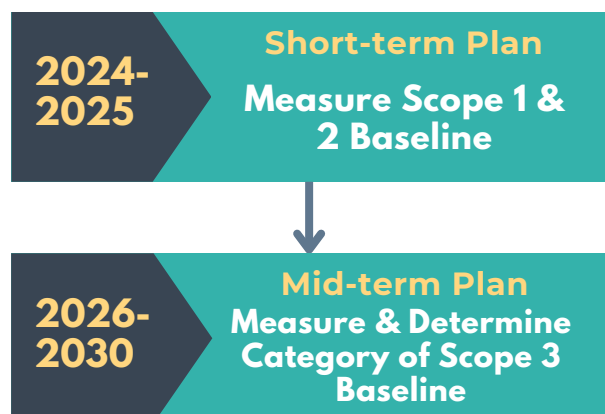
- Transport of Hotel Goods
- Disposal of Waste
- Staff Commuting
- Staff Business Travel

Figure 5. Example of Scope 3 Emission Sources



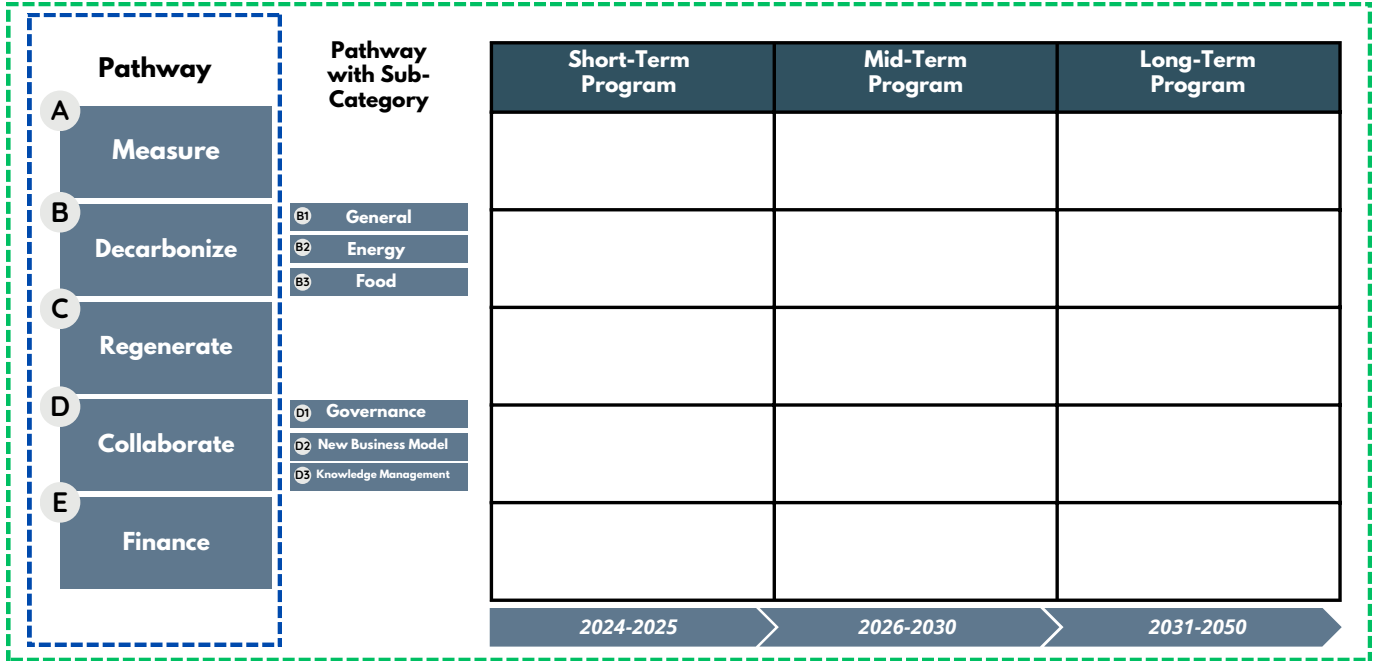
Source: Sustainability Hospitality Alliance; Ecometrica

Figure 6. Measurement Journey



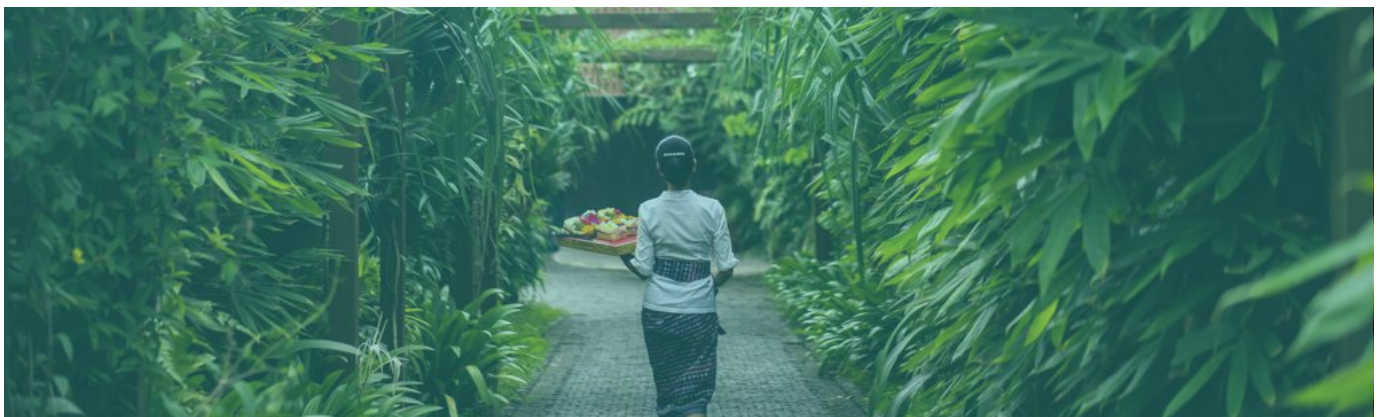
OUR PROGRAM FRAMEWORK

Figure 7. Program Framework



Ekosistem Hotels & Villas has adopted a thoughtful and strategic approach to address the complex challenge of sustainability. They have cleverly divided their efforts along five key pathways: measure, decarbonize, regenerate, collaborate, and finance. These pathways have been organized into three distinct phases, each spanning a specific time period: short-term (2024-2025), mid-term (2025-2030), and long-term (2030-2050). This structured framework has been chosen for several compelling reasons, aimed at guiding their sustainable journey effectively.

As we align ourselves with established standards, with the pivotal milestone of 2030 as our ultimate target, we have integrated an additional close checkpoint on our sustainability journey—2025. This initial step enables them to establish a clear starting point, helping them gauge progress accurately as they move forward. By introducing this early stage, we establish a solid foundation for our sustainability initiatives, such as measuring the baseline of the scope 1 & 2. It serves as a litmus test, allowing us to assess our progress, refine our methods, and recalibrate our course as necessary.



CLIMATE ACTION

This report section highlights our commitment to addressing the critical issue of climate change through a deliberate Climate Action plan. Our approach is rooted in practicality, recognizing the complexity of the challenge and the need for thoughtful, achievable steps toward sustainable change.

Guiding Our Progress with Five Pathways

Central to our strategy are five distinct pathways that steer our actions towards more sustainable practices. Each pathway has been chosen for its potential to make a tangible difference, underlining our practical approach to fostering positive environmental change.


Phased Strategy for Lasting Impact

Our Climate Action strategy is organized into three sequential phases: short-term, mid-term, and long-term. It's important to emphasize that our strategy is designed to adapt to changing circumstances and insights, reflecting our commitment to remaining responsive and relevant.

Dynamic Strategy: A Pragmatic Approach

It's imperative to acknowledge that our Climate Action strategy is not fixed in stone. Rather, it is a dynamic framework that will evolve to better align with emerging challenges and opportunities. As such, the strategy outlined in this report represents our present understanding and intentions, subject to refinement and enhancement in subsequent periods.

In the tables below, it shows the details of each pathway, outlining the specific actions planned for the short-term, mid-term, and long-term phases. Our emphasis on practicality, adaptability, and a genuine commitment to change underscores our belief that sustainable progress is achieved through incremental efforts and a willingness to learn and adapt.

A Measure Measure and disclose all tourism-related emissions 		
Short-Term Program	Mid-Term Program	Long-Term Program
A1. Measure the scope 1 & 2 emission (electricity and gas consumption)	A2. Measuring activities that produce emissions in scope 3 of GHG Protocol Standard A3. Make publications or conduct policy regarding emission reduction that have been made in 2030	
2024-2025	2026-2030	2031-2050

CLIMATE ACTION

B Decarbonize

Set and deliver targets aligned with climate science to accelerate tourism's decarbonization



Short-Term Program	Mid-Term Program	Long-Term Program
<p>B1 General</p> <p>B1.1. To develop the waste management into landfill for zero waste</p> <p>B1.2. Reduce solid waste by reducing use of plastic and practical multi-stream (separation of types of waste)</p> <p>B2 Energy</p> <p>B2.1. Efficiency or energy saving practices</p> <p>B3 Food</p> <p>B3.1. Doing partnerships with local and inhouse production for the availability of food ingredients</p> <p>B3.2. Reduce and develop food waste practices</p>	<p>B1 General</p> <p>B1.3 Carry out life-cycle practices from the use of goods, especially recycling</p> <p>B2 Energy</p> <p>B2.2. Developing more renewable energy (solar panels)</p> <p>B2.3. Checking goods routinely to overcome leakage</p> <p>B2.4. Starting to reduce the activity of using Air Conditioned</p> <p>B3 Food</p> <p>B3.3. Maximizing food ingredients so they can be used before being thrown away (using trimmings as a food base)</p>	<p>B1 General</p> <p>B1.4 Using the water purification for reuse</p> <p>B1.5 Doing partnerships with suppliers who are also working on reducing emissions</p> <p>B2 Energy</p> <p>B2.5. Electrification of equipment and facilities</p> <p>B3 Food</p>
2023-2025	2026-2030	2031-2050

C Regenerate

Restore and protect ecosystems, supporting nature's ability to draw down carbon



Short-Term Program	Mid-Term Program	Long-Term Program
<p>C1. Investing in nature-based programs, such as reforestation. We have program One Booking One Tree in our properties</p>	<p>C2. Adopting standard which can minimize the impact from the disaster</p>	<p>C3. Ensure the integrity of the production source of the supply chain involved (e.g. not sourced from protected or prohibited areas)</p>
2024-2025	2026-2030	2031-2050

CLIMATE ACTION

D

Collaborate

Work with all stakeholders and guests to ensure the plan is achieved



Short-Term Program	Mid-Term Program	Long-Term Program
<p>D1 Governance</p> <p>D1.1. Integrate with planning and government regulations related to climate action and other relevant regulations</p> <p>D2 New Business Model</p> <p>D2.1. Avoid greenwashing, misleading in conveying advertising information</p> <p>D2.2. Increase traveler awareness and provide sustainable experience options</p> <p>D3 Knowledge Management</p> <p>D3.1. Providing increased skills and knowledge to workers. In this opportunity, we are collaborating with Wise Steps</p> <p>D3.2. participation with local communities in climate plan implementation. (Ecobali Recycle, Urban compost)</p> <p>D3.3. Promote messages related to climate change</p>	<p>D1 Governance</p> <p>D1.2. Joining a tourism alliance or integration related to climate change</p> <p>D2 New Business Model</p> <p>D2.3. Encouraging & providing tourist offsetting facilities</p> <p>D3 Knowledge Management</p> <p>B3.3. Maximizing food ingredients so they can be used before being thrown away (using trimmings as a food base)</p>	<p>D1 Governance</p> <p>D2 New Business Model</p> <p>D2.4. Collaborate with other tourism value chains to implement innovative business models to increase circularity and other relevant actions</p> <p>D3 Knowledge Management</p> <p>D3.5. Identify long-term loss risks and climate threats</p>
2023-2025	2026-2030	2031-2050

E

Finance

The financial aspect is needed to ensure the achievement of the goals set in the climate plan



Short-Term Program	Mid-Term Program	Long-Term Program
<p>E1. Allocating financing for offsetting from the company's internal activities</p>	<p>E2. Procure facilities, goods and services that support the sustainable concept</p>	
2024-2025	2026-2030	2031-2050

SETTING TARGET & TIMELINE

Methodology

To establish clear and ambitious emissions reduction targets, we have chosen to adopt the Cross-Sector Absolute Reduction methodology developed by the Science-Based Targets initiative (SBTi).

The Science-Based Targets initiative is globally recognized for its rigor and scientific credibility in guiding businesses towards setting emissions reduction goals that align with the overarching goal of limiting global warming to well below 2 degrees Celsius. The Cross-Sector Absolute Reduction methodology endorsed by SBTi enables us to define our emissions reduction trajectory based on the latest climate science and best practices across industries.

However, the journey towards achieving our Scope 1 and Scope 2 emissions reduction goals at Ekosistem Hotels & Villas is strongly influenced by the dynamic and accelerated energy transition unfolding at the national level. Our commitment to sustainability is not only an internal pursuit; it aligns seamlessly with the broader trajectory set by our nation's energy evolution.

When outlining our objectives, we determine year markers: 2030, 2040, and 2050. Within each of these milestones, we define specific numerical targets that we aim to reach. These targets serve as measurable goals, guiding our efforts and ensuring that we have a clear and quantifiable roadmap to follow.

Figure 8. Timeline / Milestone of the Target



SETTING TARGET & TIMELINE

2030

Beyond the calculation, in our resolute to emission reduction, we have taken a bold step towards alignment with our nation's environmental agenda. Just as our government has set a minimum target of 31.82% (simplified into 32%) reduction in carbon emissions by 2030, we have mirrored this commitment by establishing our Scope 1 and Scope 2 emission reduction targets at the same minimum threshold.

This strategy underlines our resolve to harmonize our efforts with the broader national mission and make it more realistic to reach since scope 1 & 2 is strongly influenced by Energy Transformation within the country.

Taking into account our climate plan (see page 10) and measurement journey (see page 8) we've laid out for measuring our progress, we anticipate completing the evaluation of our scope 3 emissions baseline by the year 2030. As a result, when we reach our goals for the year 2030, we will specifically focus on outlining targets for reducing scope 1 and scope 2 emissions.

Figure 9. 2030 Goal Based on Calculation



Figure 10. 2030 Goal Based on National Target

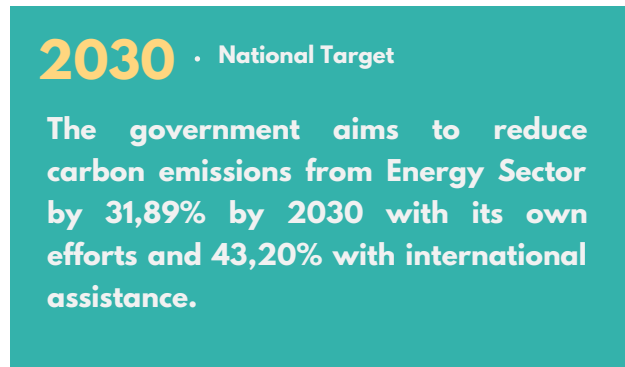


Figure 11. 2030 Reduction Target



SETTING TARGET & TIMELINE

2040

We have introduced an additional target for the year 2040 to enhance our tracking of program effectiveness. This supplementary milestone serves a crucial purpose: to monitor the progress of our initiatives before reaching the ultimate net-zero emission goal. Moreover, the key rationale behind this decision lies in the timeline of our scope 3 baseline assessment, which is projected to be finished by 2030. By incorporating this intermediate milestone, we ensure a continuous assessment of our scope 3 climate plan program's advancement, bridging the gap between 2030 and our final destination in 2050.

In other words, as we approach the year 2040, this milestone assumes a more extensive role. Our targets for this juncture encompass not only scope 1 and scope 2 emissions, but also extend to the broader realm of scope 3 emissions. This comprehensive approach underscores our unwavering commitment to addressing multiple dimensions of our environmental impact. By encompassing all three scopes within this target, we align our strategies with the interconnected complexities of sustainability, recognizing that each facet plays a crucial role in our overall journey.

It's important to note that the distinct base years for each scope underpin this holistic approach. While the base year for scope 1 and scope 2 emissions is established as 2025, the base year for scope 3 emissions is set at 2030. This differentiation is a deliberate reflection of the comprehensive evaluation and measurement undertaken within each scope, ensuring that our targets remain grounded in accurate data and insights.

Figure 12. 2040 Reduction Target

2040 GOAL



Ekosistem Hotels & Villas commits to reduce Scope 1 & 2 GHG emissions 84% by 2040 from a 2025 base year.

Ekosistem Hotels & Villas commits to reduce Scope 3 GHG emissions 50% by 2040 from a 2030 base year.

SETTING TARGET & TIMELINE

Concerning the integration of calculations and broader targets, Ekosistem Hotels & Villas establishes its goal as described below:

2030 GOAL



Scope 1 & 2

Ekosistem Hotels & Villas commits to reduce **Scope 1 & 2** GHG emissions 31,89%-42% by 2030 from a 2025 base year.

2040 GOAL



Scope 1 & 2

Ekosistem Hotels & Villas commits to reduce **Scope 1 & 2** GHG emissions 84% by 2040 from a 2025 base year.



Scope 3

Ekosistem Hotels & Villas commits to reduce **Scope 3** GHG emissions 50% by 2040 from a 2030 base year.

2050 GOAL

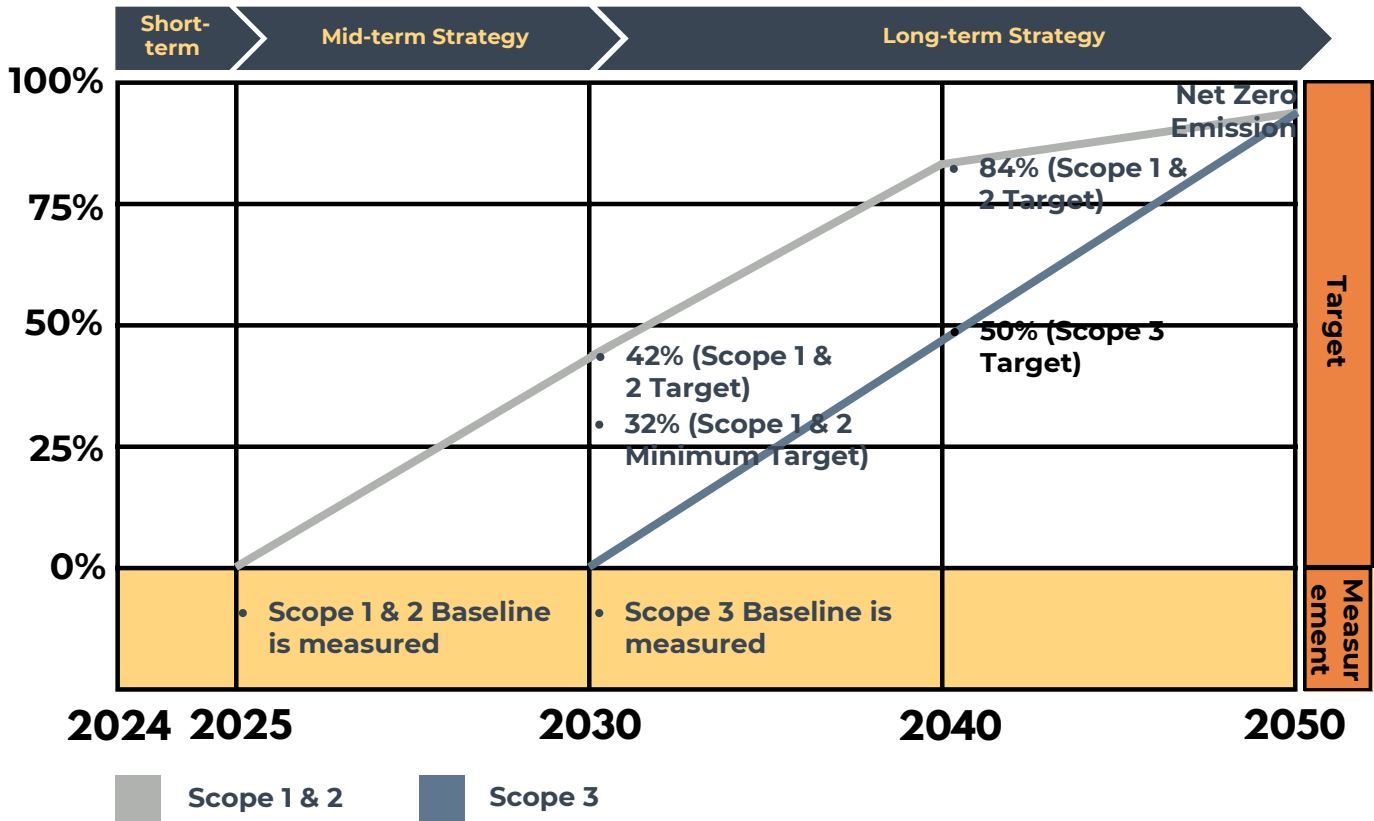


Net-Zero Emission

Note: Our target achievement is strongly influenced by the dynamic and accelerated energy transition unfolding at the national level. We are confident in achieving the target as long as the anticipated changes in the country's energy transition occur as planned.

STRATEGY ROADMAP & MILESTONE

Figure 13. Phased Strategy & Target



Ekosistem Hotels & Villas created a journey that outlines our strategic approach to sustainability over specific timeframes. This roadmap is designed to guide our efforts, ensuring that we progress systematically toward our ambitious environmental goals. Here's an overview of the key phases and milestones:

2024-2025 (Short-Term/Quick Wins): Within the short-term strategy, our primary focus lies in establishing a robust foundation. The focus is on initiating action, transparently publishing our comprehensive plan, and setting a solid baseline to measure our progress. We are dedicated to capturing the baseline data for scopes 1 and 2 emissions—the initial step that underpins our emissions reduction journey. This phase sets the tone for our sustainability journey by laying a strong foundation for the steps to come.

2026-2030 (Mid-Term): As we transition into the mid-term phase, our focus intensifies. We center our efforts on launching the critical decarbonization process, a pivotal step toward reducing our carbon footprint. Simultaneously, we expand our focus beyond direct operations to encompass the broader value chain. This phase also highlights the importance of stakeholder engagement, forging partnerships and collaborations to enhance the effectiveness of our sustainability initiatives.

We also engage in a comprehensive analysis of our scope 3 emissions, This phase entails not only establishing the baseline data for scope 3 emissions, which encompasses a broader range of indirect emissions, but also striving to achieve our 2030 target. This target encompasses a remarkable reduction ranging from 32% to 42% in emissions. This bold ambition propels us forward, compelling us to make substantial strides in our sustainability journey.

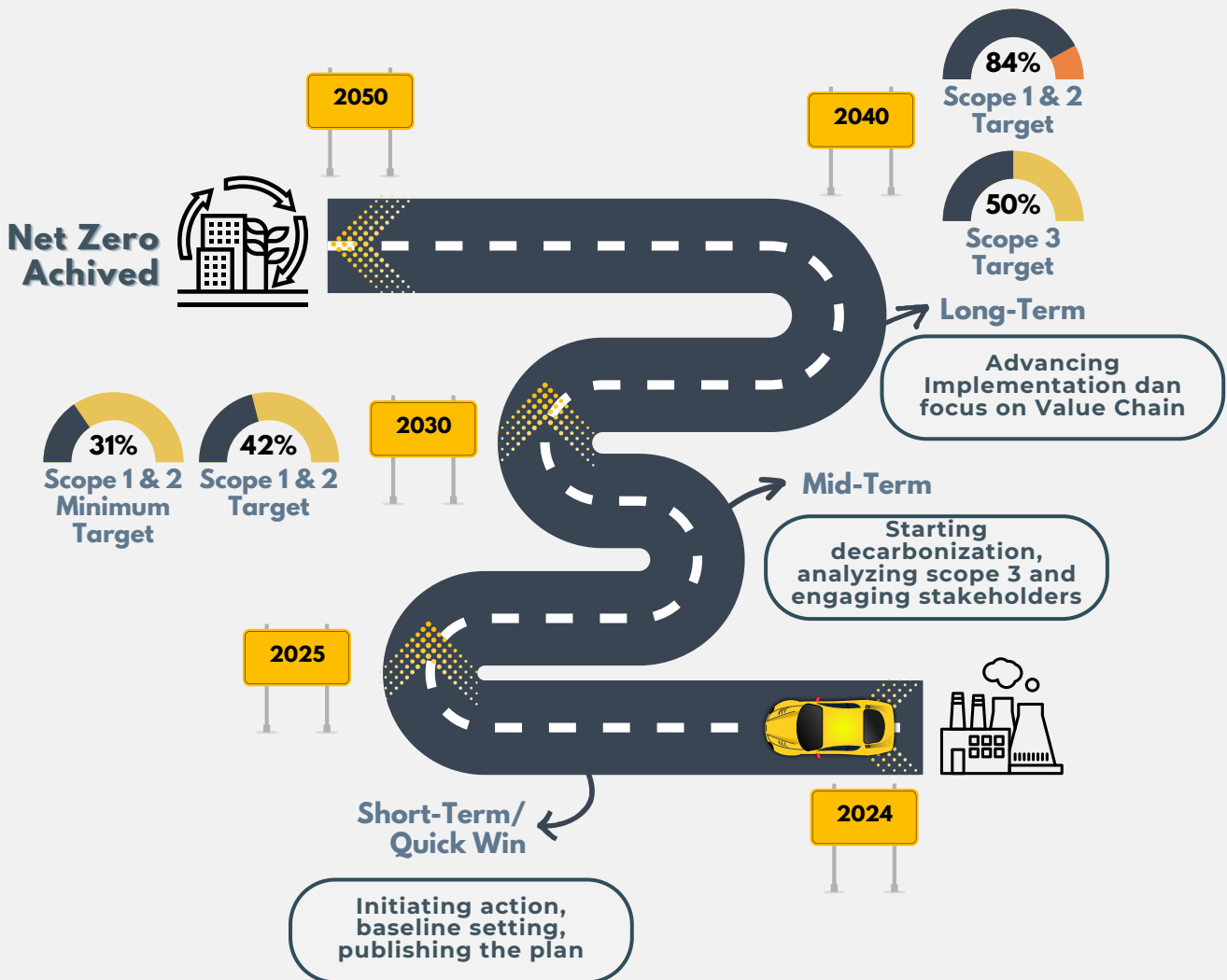
2030-2050 (Long-Term): The long-term phase underscores our commitment to sustainable growth and enduring impact. Building upon the groundwork laid in the previous phases, we now turn our attention to advancing implementation across all aspects of our operations. A key focus area is the value chain, ensuring that sustainability is embedded at every stage. This phase symbolizes the depth of our commitment to environmental responsibility.

As we reach the midpoint of our long-term strategy, our focus shifts to attaining the targets we've set for scope 1 and scope 2 emissions—striving for an impressive reduction of 84%. Simultaneously, we also will reduce scope 3 emissions remains unwavering, with a targeted reduction of 50%. These milestones signify substantial progress and exemplify our unwavering commitment to emissions reduction.



OUR ROADMAP & MILESTONE

Figure 14. Decarbonization Roadmap





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