

**The UN Secretary-General's Advisory Board on Zero Waste**

# From glass waste to wealth!



Zero waste good practice

Six Senses

Dibba, Oman

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Six Senses Zgighy Bay, Glass particles

# About

## Synopsis

100% of the glass waste is transformed on-site in the Resort based in Oman. After collection, the glass is crushed, separated into different sizes, and melted into different shapes. They organize activities to educate the guests to recycle their own waste and create art, and the resort creates new plates to be used in our restaurants. In 2023, the resort recycled 4,342 kg of glass this way.

Implementation  
period

**2022 - now**

Country

**Oman**

Location

**Dibba**

**Stakeholders and Partners:** This is an internal project in the Resort, to support the local municipality to reduce waste sent to landfill.

## Connection Zero Waste

Previously, the operations resulted in an average of 5 tons of glass waste being sent to landfill annually. However, through their innovative Glass Waste to Wealth! project, they have successfully reduced this amount to zero. Now, every bit of glass waste generated is repurposed and transformed into valuable resources. Whether it's creating captivating artworks for guests to admire, crafting elegant plates for restaurants, or utilizing it for onsite construction projects, they ensure that 100% of their glass waste finds a meaningful purpose within their operations. This initiative not only minimizes their environmental footprint but also showcases the potential for turning waste into valuable assets, contributing to a more sustainable and resource-efficient future.

## Contribution to Sustainable Development Goals

In the pursuit of Zero Waste, their innovative waste management program not only aligns with Sustainable Development Goal 12 (Responsible Consumption and Production) but also resonates with the principles of Sustainable Development Goal 9 (Industry, Innovation, and Infrastructure). By meticulously segregating waste onsite into 10 distinct categories and recycling them internally or through expert third-party collaborations, they actively promote responsible consumption and production practices (SDG 12). Furthermore, their emphasis on innovation in waste management techniques contributes to building resilient infrastructure, fostering sustainable industrialization, and stimulating innovation (SDG 9). Through these concerted efforts, they not only reduce the strain on landfills but also mitigate the environmental and social impacts associated with excessive waste generation, advancing the broader agenda of sustainable development.



# Background, Challenges and Objectives

In Musandam Oman, the absence of government waste management facilities poses a significant challenge, with all waste directed to a landfill for disposal. Recognizing the urgent need to minimize our environmental footprint, Six Senses Zighy Bay has embarked on a mission to achieve zero waste. Despite the lack of governmental support, we have taken proactive steps to invest in machinery and equipment, enabling us to manage our waste effectively. Particularly noteworthy is our approach to glass waste, where meticulous onsite collection, segregation, and processing

have resulted in the elimination of glass waste sent to landfills. Moreover, our commitment extends beyond glass waste. We have implemented comprehensive recycling practices for various waste categories, including food waste, landscaping debris, paper, cardboard, candles, and soap, all managed onsite. Additionally, materials like used cooking oil, metal, and electronic waste are carefully collected, segregated, and then responsibly recycled through collaborations with expert third-party partners.

This concerted effort not only addresses the immediate environmental challenges faced by our resort but also aligns with broader sustainability goals. By taking control of our waste management processes and investing in innovative solutions, we not only reduce our environmental impact but also set a precedent for responsible waste management practices in the region.

“At Six Senses Zighy Bay, we’re turning waste into opportunity, achieving zero glass waste sent to landfill while pioneering sustainable waste management practices in Musandam Oman.”



Current state in Zighy Bay, Oman

# Actions and Implementation

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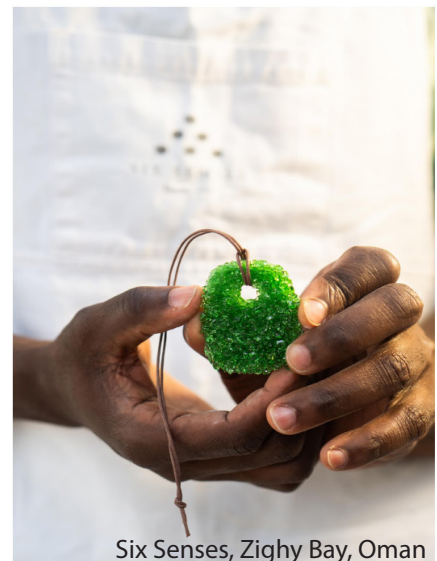
In our actions and implementation chapter, we methodically outline the steps taken to achieve sustainable waste management:

Firstly, a comprehensive waste management program was devised, outlining clear objectives and operational procedures. Next, specific areas across the resort were designated for waste collection and segregation, optimizing the process.

Responsibilities were delegated among team members, who received regular training and supervision to ensure adherence to waste management protocols. To process waste efficiently, investments were made in onsite equipment for composting food waste, recycling glass, paper, cardboard, and safe disposal of hazardous materials.

Engaging guests in the process was prioritized, with interactive initiatives aimed at raising awareness and educating them about waste reduction and recycling practices. Additionally, invitations were extended to stakeholders, including municipal and environmental authorities, to observe and learn from the successful waste management model.

Through these concerted efforts in the past, significant strides were made in minimizing the environmental footprint and setting a precedent for responsible waste management practices in the region.



Six Senses, Zighy Bay, Oman





# Outcomes and Impact

In 2023, they achieved a significant milestone with zero glass waste sent to landfill, recycling a remarkable 4,342 kg of glass waste onsite. This follows their commendable progress in 2022, where they recycled 5,669 kg of glass waste internally. Such achievements underscore the effectiveness of their internalized waste management process, driven by the unwavering commitment and consistency of their team in collecting, processing, and recycling glass waste. This success serves as a compelling example of how waste diversion from landfills is not only achievable but also scalable. Indeed, other Six Senses properties are following suit, investing in similar equipment and processes to reduce their environmental impacts and contribute to a more sustainable future.

Looking ahead, Plastic Free Balearics envisions a medium- to long-term impact through its provision of clear roadmaps and ongoing recertification opportunities, empowering businesses on their journey towards achieving zero waste status and fostering a sustainable future for the region.



## >4 tonnes

Achieved zero glass waste sent to landfill in 2023, recycling 4,342 kg onsite.

## Commitment

Successful internalized waste management process driven by team commitment and consistency.

## Investment

Sets a compelling example for other Six Senses properties to invest in similar equipment and processes for waste reduction.



# Replicability and Scaleability

This initiative represents just one of many examples showcasing how waste diversion from landfills can be achieved effectively. Other Six Senses properties are also investing in similar equipment and processes to minimize their environmental footprint. Particularly in remote locations and developing countries, such efforts are crucial for sustainable waste management practices. In countries where Six Senses operates, such as Switzerland and Japan, government-provided recycling facilities further support these initiatives, reinforcing the commitment to environmental stewardship and responsible waste management.

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## Inclusion and Innovation

Regular engagement with government officials is a key aspect of this approach, as Six Senses advocates for the development of new solutions in waste management, leveraging the good practices as a compelling example of what can be achieved. Additionally, Six Senses has employed a full-time sustainability teacher who actively imparts the practices in local schools, educating students on sustainable actions they can take in their daily lives to minimize waste at its source. Through these initiatives, the resort aims to foster a culture of environmental responsibility and inspire meaningful change within its communities.



# Accountability and Sustainability

Daily waste tracking across the 10 designated categories forms the cornerstone of the waste management strategy. This data is meticulously compiled into monthly reports, enabling meticulous monitoring of CO2 emissions and identification of areas for improvement. Annually, new reduction targets are set and updated action plans are developed to ensure progress towards sustainability goals. By continuously refining the approach and striving for greater efficiency, the commitment remains to minimize environmental impact and drive positive change.

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## Financial Data

The investment in waste management machinery totaled over 20,000 USD, with an additional annual expenditure of approximately 2,000 USD for maintenance. To oversee the waste management program and equipment, a dedicated full-time host is essential. However, ensuring the success of the initiative is a collaborative effort involving various teams across the resort. For instance, restaurant teams are responsible for segregating glass bottles within their outlets and transporting them to the designated collection area. Subsequently, the sustainability supervisor overseeing waste management operations takes charge of crushing the glass and coordinates engaging activities with guests to repurpose the crushed glass into art. This collective endeavor underscores the commitment to sustainability and demonstrates the integration of environmental stewardship into daily operations.



Six Senses, Zighy Bay, Oman

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