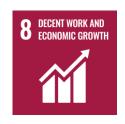


One Planet Sustainable Tourism Programme

Accelerating sustainable consumption and production to address the challenges of climate change, biodiversity loss and pollution















Food loss and waste exacerbate some of the most urgent challenges of our time, including climate change and biodiversity loss





The global food system is estimated to generate 34% of global GHG emissions.



1/3 of food produced globally for human consumption is wasted or lost along the value chain, resulting in an annual loss of nearly \$1 trillion.



50% of habitable land and 70% of available freshwater are used by food systems.



Around 14% of food is lost after being harvested and before reaching the market; a further 17% is wasted in retail and by consumers.



Looking to the future... by 2030, food loss and waste are expected to increase by 60%, resulting in a loss of over \$1.5 trillion.

Tackling food waste in the tourism sector can deliver many environmental, social, and economic benefits



The hospitality sector contributes heavily to food waste and loss generation:

- Food service (including in tourism) contributes 26% of all food wasted at consumption stage the equivalent of 32 kg per person per year.
- In the US, about 63 million tons of food are wasted each year, with 40% of waste produced by consumer-facing businesses, including restaurants and hotels.
- In the UK, an estimated 18% of annual food waste originates from the hospitality and food service industries.

Addressing food waste in tourism can:

- Improve business efficiency
- Lower operational costs
- Reduce GHG emissions
- Increase food security



A Champions 12.3. study of 42 hotels in 15 countries found that \$7 were saved for every \$1 invested in lowering kitchen food waste





SDG Target 12.3: Reducing Food Waste

By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses.











"There is a real need for the tourism sector to act now to build a resilient and sustainable future for itself and the planet."

The Roadmap encourages and provides recommendations for tourism stakeholders to:



Set Targets

Set the ambition by identifying a food waste reduction target;



Measure Progress

Measure in a consistent way to be able to track progress against a baseline;



Take Action

Take action to reduce food waste in tourism operations, work in partnership with suppliers and help guests reduce their food waste; and



Report

Disclose progress, showcase successes, share learnings and challenges with other stakeholders to trigger changes at scale.



The objective of the Global Roadmap is to accelerate the uptake of food waste reduction strategies by tourism stakeholders.



Accommodation providers:

- By 2030, halve food waste per guest night; and
- By 2030, divert 100% of residual food waste from landfill (or incineration) or 50% where the infrastructure does not exist.

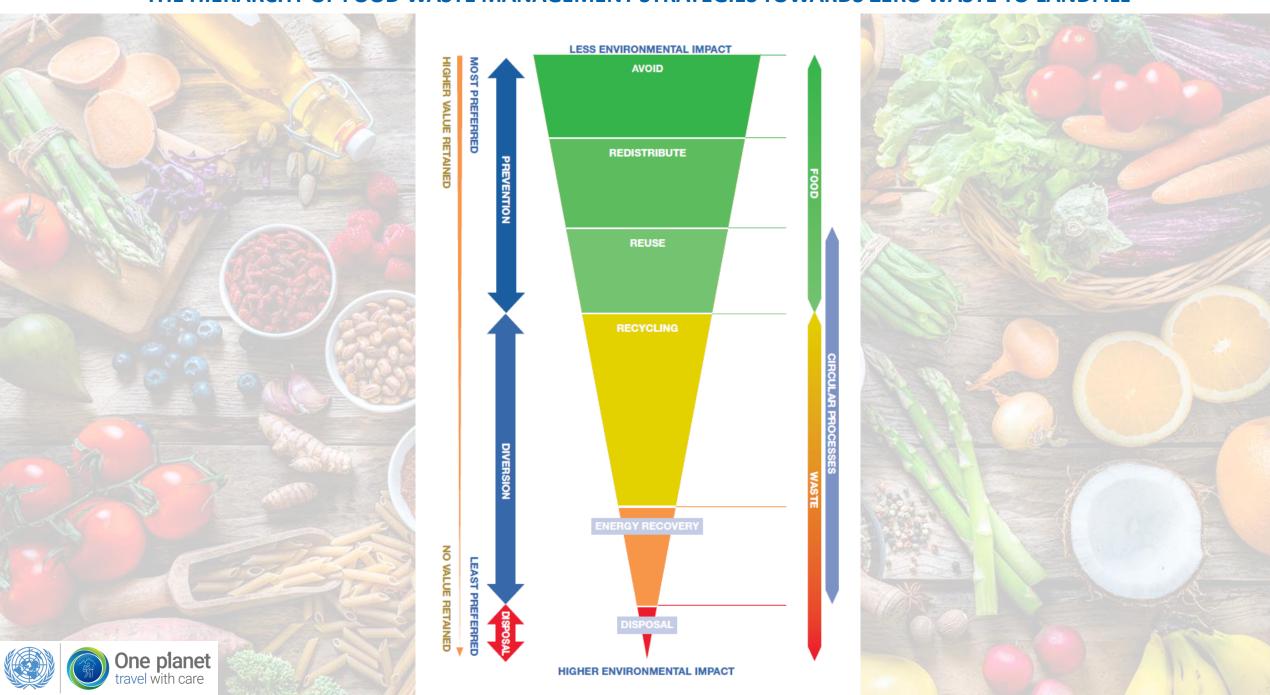


Cruise lines:

- By 2030, halve food waste per guest day; and
- By 2030, increase capacity on-board (or in port) to process 100% of residual food waste, avoiding any need to discharge to sea by 2030.



THE HIERARCHY OF FOOD WASTE MANAGEMENT STRATEGIES TOWARDS ZERO WASTE TO LANDFILL



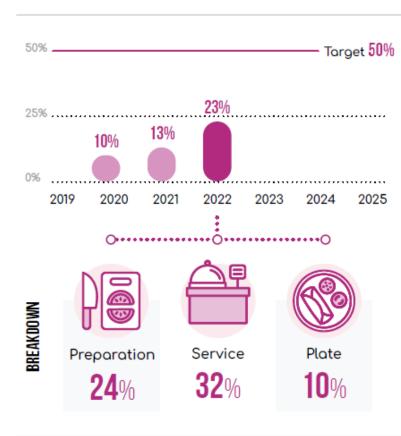






COLLECTIVE RESULTS

FOOD WASTE REDUCTION INDICATOR



FOOD SERVICE SECTOR



REPORTING SITES



1.0814 sites reported reliable data in 2022



1.411 sites set a baseline since 2019



87 % of sites reported reliable data in 2022

KEY TAKEAWAYS

23 % food waste reduction since 2019

In only 3 years, sites with reliable measurements are already halfway to UN SDG 12.3, which gives hope for massive progress for the entire sector

The pandemic simplified the service organization which in turn allowed better control of overproduction

Plate waste remains the area with the highest potential for improvement



SOURCE PRODUCTS OUT OF SPECS



Accue

NOTRE ENGAGEMENT NOS PRODUITS NOS SERVICES PRODUCTEURS RESTAURATEURS

UN DISTRIBUTEUR ANTIGASPI DÉDIÉ À TOUTES LES FILIÈRES

Vous pensiez qu'il y avait uniquement les "fruits et légumes moches"?



FRUITS & LÉGUMES

FROMAGE & LAITERIE



VIANDE & CHARCUTERIE



PRODUITS DE LA MER



TRAITEUR



BOULANGERIE & VIENNOISERIE



Atypique

Notre offre

Atypique propose une large gamme de fruits et légumes.

- √ Une cinquantaine de références de saisons chaque semaine
- ✓ Plus de 200 références à l'année
- √ Une offre stable 100 % française

S'INSCRIRE



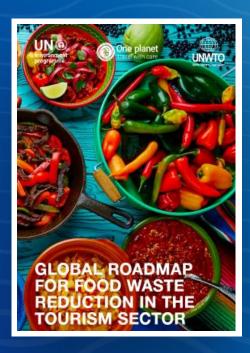


SOURCE EXCESS PRODUCTION





Food Waste Metrics





Prevention target - accommodation providers and cruise lines:

- Total food waste per annum (metric tonnes);
- Total number of guest days or nights per annum; and
- Food waste (kg) per guest day or night.

Diversion target - accommodation providers and cruise lines:

- Total food waste per annum (metric tonnes);
- Total food waste to landfill (or incineration) or discharge to sea per annum (tonnes); and
- % food waste diverted (from landfill or incineration- or discharge to sea).

Additional metrics

- ➤ Food waste per customer/ cover
- > Food waste per revenue
- Food waste per total food handled
- Food waste per square meter











CLIENT NAME: SENAC BA CARBON NEUTRAL CERTIFICATION

Expiration - December 2023

Participant: Restaurante-Escola SENAC Casa do Comércio

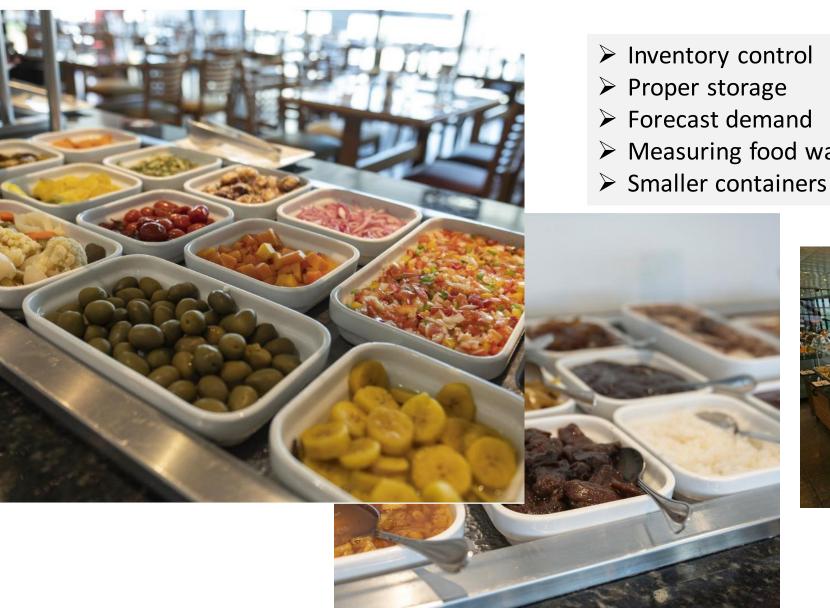
Carbon footprint type: Corporate

Reporting period: January - December 2021

Scope: 1, 2 and 3

Offset evidence data: Project Number - 1642

PROMOTING RESPONSIBLE FOOD SERVICE





➤ Measuring food waste





PROMOTING RESPONSIBLE FOOD SERVICE

- > Full use of food
- > Reuse of food
- ➤ Local sourcing
- > Education and awareness









PROMOTING RESPONSIBLE FOOD SERVICE





ANIMAL FEED



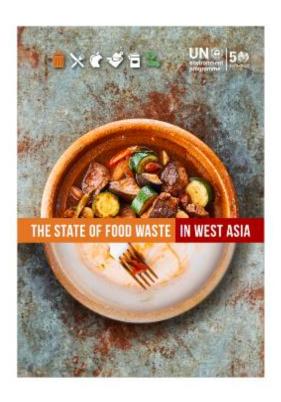




CASE STUDY FROM COSTA CRUISES: REDISTRIBUTING FOOD SURPLUS TO LOCAL COMMUNITIES

- Rethinking food processes to allow onboarding of local produce in different ports
- Food waste reduction by 27% (2022) and measurement with artificial intelligence
- Italian Law No. 166/2016 on reducing food waste encourages food donations (of prepared but not served meals) for social aid
- Over 1.1 million meals donated to people in need in 15 destinations since 2017

Addressing Food Waste in West Asia



 Growing population, water scarcity, dependance on food import, worsening of biodiversity indicators, political instability and conflicts

Food security in Arab States

 Studies in the region show significant per capita amount of household food waste, with 75-132 kg/cap yearly generated

Food waste in Arab States

- Generate significant amounts of food waste over short periods.
- During Ramadan research shows that from 25% to 50% of the food prepared is wasted.

Lifestyles in Arab States



tionwide ghdad	132 75	Alayam 2018
ghdad	75	ALAA III LEIKI 0010
		Al-Maliky and ElKhayat 2012
sul	85	Al-Rawi and Al-Tayyar 2013
rbala	142	Al-Mas'udi and Al-Haydari 2015
Kut City	138	Sulaymon, Ibraheem and Graimed 2010
ssiriya	163	Yasir and Abudi 2009
irut	105	Chalak et al. 2019
tionwide	105	SAGO 2019
k	Kut City esiriya rut	Sut City 138 siriya 163 rut 105

Source: UNEP 2021, pp. 43-44.

Saudi Arabia's baseline (SAGO 2019):

food loss and waste levels of around 33% throughout the food supply chain

- food loss estimated at 14.2%
- food waste estimated at 18.9%





Recipe of Change



Consumer behaviour change programmes





Raise awareness on food waste and promote behavioral change.

Social media, on ground activations, TV shows, podcasts, articles





Chef Leyla Fathallah – UNEP Advocate on Food Waste







Recipe of Change – Sustainable Ramadan



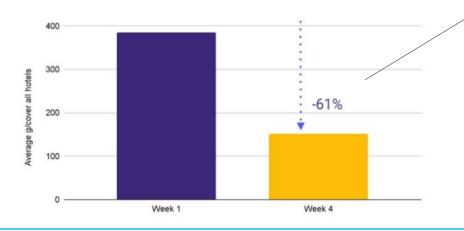


Ramadan 2023 Partnership with the
Hilton Green
Ramadan Initiative





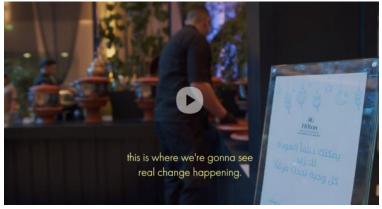




Average postconsumer waste

reduced by 60%-65% over the Green Ramadan campaign in three outlets (Dubai, Qatar, and Riyadh).













https://www.youtube.com/watch?v=3mMR4ueZmXA





Prevention



Redistribution





FOOD WASTE – COMPOST – LOCAL PRODUCE











CASE STUDY FROM SONEVA: WASTE TO WEALTH

- Food waste reduced by 50% compared to 2019
- Plant-based meals increased to 50% of offering
- 100% of food waste is recycled by composting (4,200 tonnes since 2009)
- Vegetable production increased from USD 16,000 a year in 2019 to USD 200,000 in 2021



ON-SITE « ACCELERATED » COMPOSTING





ON-SITE ANAEROBIC DIGESTION & ENERGY RECOVERY



Fertilizer

+ electricity production



SEaB Energy

on-site energy generator transforming organic waste



BioBeeBox

A containerized solution that transforms organic waste into energy, compost and water





The Waste Transformers

on-site anaerobic digester for biodegradable waste



https://www.youtube.com/watch?v=JGIA1SI9jUg&t=101s







Prevention



Redistribution





National and subnational tourism policies

Waste management infrastructure (pre competitive collaboration)

Staff training and customer engagement

Climate action



Regulations and incentives

Holistic approaches:

- ✓ Local sourcing
- ✓ Conscious preparation
- ✓ Better waste
 management:
 Prevention.
 Redistribution.
 Valorization (through circular processes).

Innovation and investments



