

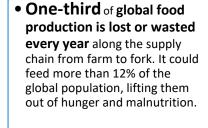
Preventing food waste: innovation and solution in the Arab region

Food Waste in West Asia – an Overview

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Background



• Food waste exacerbates food **insecurity** and burdens waste management systems

 Nearly a billion tonnes of food went into the waste bins of households, retailers, and food service outlets in 2019.

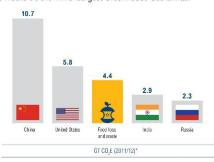
• Food loss and waste uses labour, capital, fertilizers, pesticides, water, land and energy resources in vain, generating **8% of global** greenhouse gas emissions, impacting biodiversity, costing governments, businesses and households nearly a trillion US dollars.

Environmental, Social, and economic impacts

• Arab countries has unique



If Food Loss and Waste Were its own Country, it Would Be the Third-Largest Greenhouse Gas Emitter



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Food loss and waste



• Food waste in West Asia is alarming as it is estimated to be about 34% of the food served.

•Studies in the region show significant per capita amount of household food waste, with **100-150 kg/cap** yearly generated



• During **Ramadan** research shows that from 25% to 50% of the food prepared is wasted.

features from its culture, religion,

history, generating significant

amounts of food waste over

Lifestyles in Arab States

short periods.



 Growing population, water scarcity, dependance on food **import,** worsening of biodiversity indicators, political instability and conflicts must put **food security** in the very focus of Arab region agenda

Food security in **Arab States**



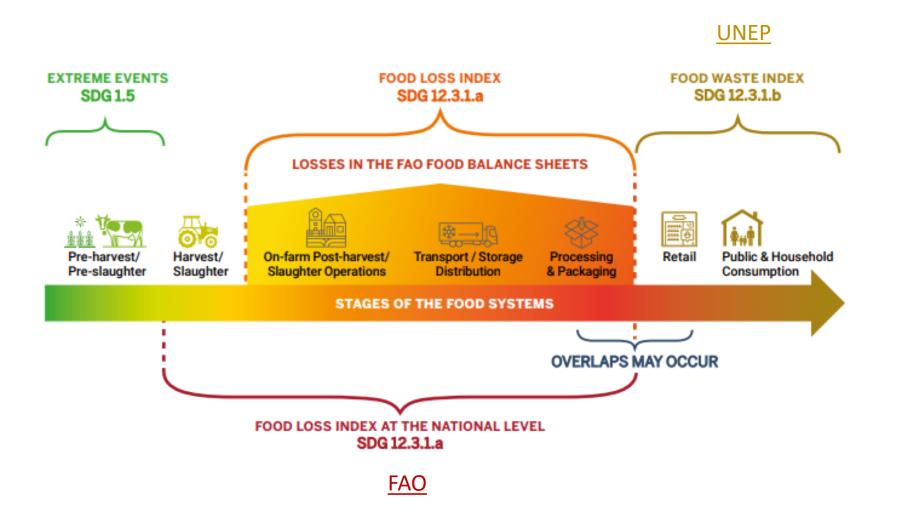
Food security





Reduce food waste in Arab States, minimizing the impacts on human health and environment, to achieve SDGs and generating inclusive green growth opportunities to build back better.

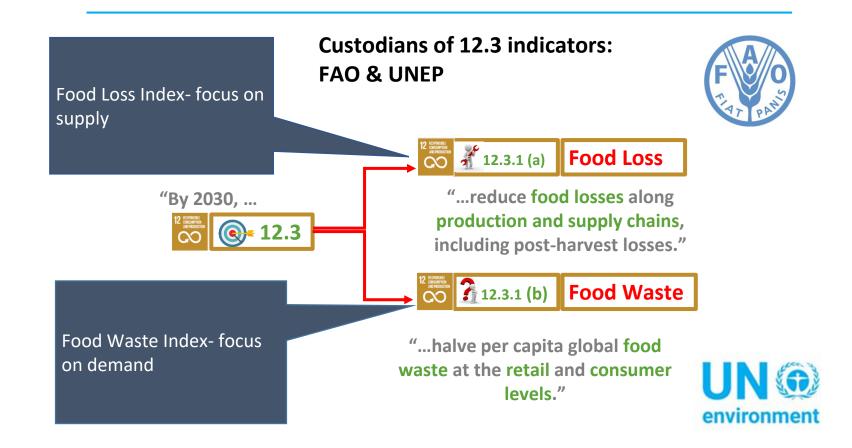




FAO and UNEP mandates are complementary along the food value chain, and synergies between the two organizations are key to achieve the ambitious targets set by the 2030 Agenda.



Tracking Progress on SDG 12.3





UNEP Food waste initiatives in West Asia



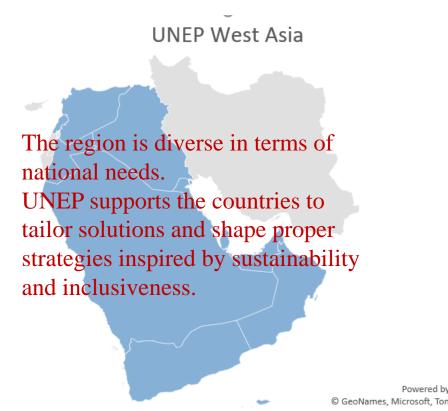
Raising awareness and education



Capacity building and knowledge exchange



Influence policy initiatives and trigger actions





Benefit for countries

Sustainability

• Alignment with UN agenda 2030 (SDG12.3), build back better, sustainable lifestyles

Food security

• Social and economic access to safe and nutritious food to everyone, reduce food import needs

Environmental protection

• Reduce climate change impact, biodiversity depletion, and pollution risks

Waste management and circular economy

• Reduce landfill needs, reduce organic waste, reduce operational costs for waste management (collection, disposal), circular organic waste treatment

Business opportunities

• Inclusive Green Innovation and sustainable opportunities for SMEs and start ups. The connection between rural and urban areas could also be key and circular models may play a major role.

State of Food Waste in West Asia



- The report will be launched in few weeks
- Following the publication of the Food Waste Index 2021 report (UNEP 2021), this report dives into the challenges of the West Asia region.



Food waste facts

17% of food is wasted at consumer level and an estimated 690 million people were hungry in 2019 - a number that is expected to rise sharply during and post COVID-19. (UNEP 2021)

Household food waste estimations in West Asia range from 75 to 163 kg/cap year. (UNEP 2021)

Country name	Study area	Household food waste estimate (kg/capita)	Reference
Bahrain	Nationwide	132	Alayam 2018
Iraq	Baghdad	75	Al-Maliky and ElKhayat 2012
	Mosul	85	Al-Rawi and Al-Tayyar 2013
	Karbala	142	Al-Mas'udi and Al-Haydari 2015
	Al-Kut City	138	Sulaymon, Ibraheem and Graimed 2010
	Nassiriya	163	Yasir and Abudi 2009
Lebanon	Beirut	105	Chalak et al. 2019
Saudi Arabia	Nationwide	105	SAGO 2019

Source: UNEP 2021, pp. 43-44.

Regional insights

West Asia comprises 12 countries with income disparities.

The region has unique regional features related to its diverse culture, religion, history, and climate, impacting food waste generation over short periods. During Ramadan research shows that from 25%-50% of food prepared is wasted.



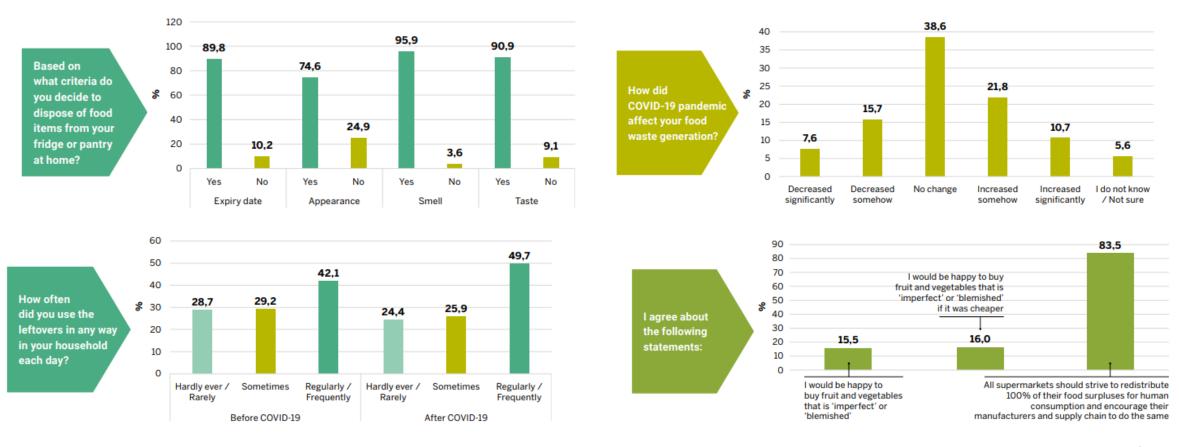
Saudi Arabia's baseline study conducted by the Saudi Grains Organisation (SAGO 2019): food loss and waste levels of around 33% throughout the food supply chain

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

State of Food Waste in West Asia



PERCEPTIONS OF FOOD WASTE GENERATION IN WEST ASIA: A CROSS-SECTIONAL STUDY



State of Food Waste in West Asia





Key findings:



A sample of 200 participants from 10 countries in West Asia was requested to complete an online survey between July and November 2020. One-third of the survey respondents reported an increase in their food waste generation following the emergence of the COVID-19 pandemic. However, respondents simultaneously increased their use of food leftovers.



Collecting data on national food loss and waste generation enables governments to understand the scale of the problem, target hotspots, assess the efficacy of policy interventions and track progress towards 2030.



Raising awareness of the impact of food waste on the environment and food security, and the financial benefits of reducing food waste, is important, as well as promoting gender inclusive strategies across the food value chain.



Policies and institutions are the main drivers for reducing food loss and waste. Appropriate policies should be developed to encourage stakeholders to adhere to directives while encouraging various supply chain operators to invest and adjust.



Given the magnitude of food loss and waste in West Asia, an increase in investments needs to go hand in hand with adopting and transferring appropriate technologies.









Recommendations:

- Measure baselines and report progress on SDG 12.3
- Improve knowledge and raise awareness to promote good practices
- Promote gender inclusive strategies across the food value chain
- Adopt appropriate policies and adopt an adequate regulatory framework
- Promote investments to adopt and transfer pertinent technologies

Sustainable Ramadan campaign







حقائق رمضانية

وفقًا لمراجعة السلوكيات التي أجراها المكتب الإقليمي لغرب آسيا لبرنامج الأمم المتحدة للبيئة، تُظهر الأبحاث أن الطعام المعد خلال شهر رمضان يُهدر بنسبة 25٪ إلى 25٪

يبدأ العمل من المنزل على الصعيد العالمي، نعد الأسر مسؤولة عن 65 من الهدر الغذائر 2019 وفي غرب أسباء أنفور الدراسات وجود هدر عذائي كمير لأما بمعدل 2010 51 كمح / للفرد سواح مع الاحتجادات التي من المرحج أن نقام في المنزل هذا العام. أن ا ومنع النفايات هو في عارة الأهمية

برنامج الأمم المتحدة للبيئة – غرب آسيا لمنع الهدر الغذائي خلال شهر رمضان 2021

يطلق المكتب الإقليمي لغرب آسيا حملة لزيادة الوعي حول الحد من الهدر الغذائي خلال شهر رمضان لتعزيز تغيير السلوك







تسوق بعنایة وبشکل مستدام

فم بتخزین الطعام بشكل صحیح. لا تترك الطعام خارج الثلاجة
 الطهی بطریقة إبداعبة (اكتشف وصفات بقایا الطعام)

خطط للوجيات مسبقاً وتحكم في حصصها
 قلل من العبوات ذات الاستخدام الواحد (اطلب الوجيات الجاهزة بدون أدوات مائدة)

وقلل من الأكياس البلاستيكية التي تستخدم مرة واحدة • لا تنسى حقائب التسوق التي يعاد استخدامها G 4 SDGs UN (C)
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Stay tuned on our social media channels and website! You can download and promote the campaign material at this <u>link</u>



Thank you

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