Obligatorisk rapportering om emballasjeoptimering for 2023

1) * Which company are you representing? You can respond for multiple companies, but each questionnaire only represents one. If you wish to respond for multiple companies, please click the link in the invitation email to access a new questionnaire.

* Organisation number

* Company name

2) How many employees does the company have?

If you are an international company, please answer on the total number of employees in the nordic contries.

○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 10 ○ 20 ○ 100 ○ 500 ○ 1000

3) * What is your total sales volume and revenue the last three years?

Please state an estimate of the total sales volume and revenue on the Norwegian marked. Remember to extrapolate to a full year if you started with us some time during the year. If you do not know the sales volum, you may enter number items or similar. If so, please indicate using an abbreviation (qty/#). (Enter 0 if you don't know.)

	Sales volume (tons)	Revenue (kr)
2023		
2022		
2021		

4) * What is the role of your company? It is possible to choose multiple alternatives

☐ We are an importer of packaged products to Norway
☐ We are an exporter of packaged products from Norway
☐ We are a filler and packer in Norway (pack or fill products into packaging)
☐ We are an importer of packaging to Norway
☐ We are an exporter of packaging from Norway
☐ We are a producer of packaging in Norway
☐ I don't know
☐ Other

Packaging material and types

To answer the following questions, please read the definitions of the four types of packaging listed below.

Transport packaging is intended to facilitate the physical handling and transportation of multiple sales units or grouped packagings in order to facilitate physical handling and prevent transport damage.

Sales packaging or primary packaging is a sales unit for the consumer at the point of sale and contains the product, food, or beverage directly.

Service packaging refers to packaging that is filled at the point of sale and used to facilitate or support the delivery of goods to the end consumer (such as sandwich bags at the bakery, carrier bags, takeaway coffee cups, takeaway food containers (smoothies, cereals, etc.), flower wrapping and flower foil distributed by florists/garden centres, and wrapping distributed at fresh produce counters).

Beverage packaging refers to the container (bottle, can, etc.) into which a liquid beverage is contained (including liquid concentrates intended for mixing).

5) What packaging materials and packaging do you use? Choose all relevant alternatives

	Transport packaging	Sales packaging	Service packaging	Beverage packaging
Fiber-based (cardboard, corrugated board, solid board, paper)	☐	☐	☐	☐
Plastic	☐	☐	☐	☐
Plastic carrier bags (regardless of the type of plastic) with a thickness of less than 50 micrometres	☐	☐	☐	☐
Other plastic carrier bags	☐	☐	☐	☐
EPS	☐	☐	☐	☐
Laminates (combinations of cardboard/plastic/metal)	☐	☐	☐	☐
Ferrous metals	☐	☐	☐	☐
Aluminum	☐	☐	☐	☐
Glass	☐	☐	☐	☐

	Transport packaging	Sales packaging	Service packaging	Beverage packaging
Wood	☐	☐	☐	☐
Textile	☐	☐	☐	☐
Other	☐	☐	☐	☐

Packaging optimization and developement of amount

6) * How do you work with packaging optimization? Please tick all relevant boxes.

☐ We have established criteria for our suppliers (packaged goods and/or packaging)
☐ We select suppliers based on their packaging profile
☐ We work internally within our company (product development)
☐ We collaborate with our customers on packaging optimization
☐ We have not yet optimized our packaging, but we have intentions to do so
☐ We have optimized our packaging earlier years
☐ We only have packaging that it is already optimized
☐ Other

Although this report is for the year 2023, measures taken earlier may have had an effect on amounts occurring in upcoming years.
Packaging optimization measures may have been carried out internally or at head quarter. If they have been carried out at the head quarter, please only state the years in which the measures have reached the Norwegian market.

7) * In which years have your implemented packaging optimization measures had an effect on the Norwegian market?

☐ 2021
☐ 2022
☐ 2023
☐ Effect will be shown in 2024
☐ I don't know
☐ Other

The Norwegian Environmental Agency wants to monitor the developement of packaging in tons and percent from previous years.

To measure the developement we will ask for the total packaging amount and the development for each of the packaging fractions.

8) * What is your estimated developement of total packaging from the previous year? (Write NA if you don't know your developement)

	Tons	Percent
Amount in 2022		100%
Amount in 2023		
Difference		

Fiber-based

9) * What is your estimated developement of fiber-based packaging from the previous year? (Write NA if you don't know your developement)

	Kg	Percent
Amount in 2022		100%
Amount in 2023		
Difference		

Plastic

10) * What is your estimated developement of plastic packaging from the previous year? (Write NA if you don't know the developement)

	Kg	Percent
Amount in 2022		100%
Amount in 2023		
Difference		

Metal

11) * What is your estimated developement of metal packaging from the previous year? (Write NA if you don't know your developement)

	Kg	Percent
Amount in 2022		100%
Amount in 2023		
Difference		

Glass

12) * What is your estimated developement of fiber-based packaging from the previous year? (Write NA if you don't know your developement)

	Kg	Percent
Amount in 2022		100%
Amount in 2023		
Difference		

Wood

13) * What is your estimated developement of wood packaging from the previous year? (Write NA if you don't know your developement)

	Kg	Percent
Amount in 2022		100%
Amount in 2023		
Difference		

Measures implemented in 2023

Part 1. Packaging composition

The waste regulation contains requirements to the manufacturing of packaging and its composition, its potential for reuse and recycling, and requires all producers and importers to take action for waste reduction.

Packaging optimization can be activities that reduce amounts of packaging and packaging waste, or that increase the recyclability of packaging materials.

14) * What measures have you taken in 2023? Choose all relevant alternatives.

- ☐ Reduced weight by using thinner packaging
- ☐ Reduced weight by changing the design of packaging
- ☐ Reduced packaging by selling refill solutions
- ☐ Reduced packaging by selling concentrates (e.g. detergents)
- ☐ Reduced excess packing in online retail
- ☐ Reduced excess packing by removing unneccessary packaging
- ☐ Reduced excess packing by removing multi-packs (group packaging)
- ☐ We reduced the use of single-use plastic packaging
- ☐ We modified product packaging (sales packaging) to make sorting intuitive for consumers

☐ We modified product packaging (sales packaging) in order to maximize pallet utilization
☐ We modified product packaging (sales packaging) to minimize transport packaging
☐ We changed from plastic transport packaging to cardboard (e.g. bubble wrap, air bags)
☐ Other

You have been asked on the developement of packagin, this questions aim to identify reduction of yearly packaging amounts as a result of optimization.

To calculate this answer please retrive the weight reduction as a result of optimization of the packaging you have optimized. Then define an estimate of amounts this packaging has been put on marked, and multiply this. Remember that for example both sales and service packaging can have been reduced at the same time.

To estimate the percentage

15) * How much have yearly packaging amounts been reduced as a result of measures implemented in 2023? (Insert 0 if not known/not relevant.)

	kg	%
Fiber		
Plastic		
Glass		
Metal		
Wood		

If you have implemented measures prior to 2023

16) * How much have yearly packaging amounts been reduced as a result of measures implemented prior to 2023? (Insert 0 if not known/not relevant.)

	kg	%
Fiber		
Plastic		
Glass		
Metal		
Wood		

17) * How did you modify packaging in order to make sorting more intuitive for the consumer?

Some measures can have an effect on waste reduction, or increase reuse and recycling, without the effects being quantitave.

18) Please describe if you have seen any such effects from measures you have implemented:

You replied that you have modified sales packaging to maximize pallet utilization

19) * Have you measured the effects of this measure, e.g. in reduction in number of transports?

Measures for waste reduction and packaging optimization may also affect emission of greenhouse gases;

20) Do you measure C02-reductions achieved by the implemented measures?

- YES
- NO
- I don't know

21) * How much are emissions reduced, and how have you calculated the reduction?

22) * Do you have packaging with recycled content?

YES NO I don't know

23) What is the recycled content in your packaging?

On the next page you will have the oportunity to give a short description of packaging with recycled content. (If there is not enough space in the table below, if you have many packagings with recycled content, or if you have recycled content of more than one material in the same packaging, we would highly value a detailed description sent to us at adm@norsirk.no).

	Material				Recycled content (%)
	Fiber	Plastic	Glass	Metal	
Packaging 1					
Packaging 2					
Packaging 3					

24) * Please give a short description of the packaging you have with recycled content:

Short description - or denote that a more detailed description will be sent to adm@norsirk.no

Activities

Part 2. Reuse

Reusable packaging **is defined as: "packaging that is designed and put on the market with the intention of being used again multiple times for its original purpose**
1. The packaging is designed to be reused for its original purpose
2. It is possible to clean, wash and repair the packaging after emptying and then refilling it
3. A system that supports re-use of the packaging must be available (either closed loop or open loop system)."

Transport packaging that is used again to send goods to customers is NOT considered reusable packaging.

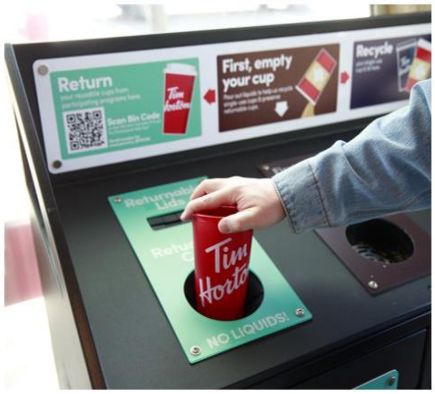
25) * How did you work with reusable packaging in 2023?

- We implemented reusable packaging in 2023
- We have resuable packaging, implemented before 2023
- We will implement resuable packaging in 2024
- We have no plans for implementing reusable packaging
- We do not have reusable packaging per definition, but we reuse packaging for new purposes
- Other

26) * How did you work with reusable packaging in 2023?

Pictures below show different examples on reusable packaging - the examples are not complete.

Sales packaging



Transport packaging




Packaging for E-commerce

	YES	NO
Resuable sales packaging	○	○
Resuable packaging in E-commerce	○	○
Reusable sales packaging in a closed loop system	○	○
Reusable transport packaging in a closed loop system	○	○
Reusable transport packaging in an open loop system	○	○

27) * How many rotations are the resuable packaging desigend for?

Do you have more than 3 types of reusable packaging, chose the 3 most used.

	1	2	3	5	10	20	30	50	100	500	1000 or more	I don't know
Packaging 1	○	○	○	○	○	○	○	○	○	○	○	○
Packaging 2	○	○	○	○	○	○	○	○	○	○	○	○
Packaging 3	○	○	○	○	○	○	○	○	○	○	○	○

28) * What are the biggest obstacles for implementing reusable packaging? What is needed in order for you to consider implementing reusable packaging?

Activities

Part 3. Material recycling

Material recycling is any recovery operation by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes. It includes the reprocessing of organic material but does NOT include energy recovery or the reprocessing into materials that are to be used as fuels or for backfilling operations.

Plastic

29) Which measures have you implemented in 2023 to increase the recyclability of your packaging? Choose all relevant alternatives.

- ☐ We have switched from laminates to monomaterials
- ☐ We have reduced additives
- ☐ We have selected transparent or white color
- ☐ We have changed to sleeves/labels made of the same polymer as the main packaging
- ☐ We have removed/reduced use of black packaging ('carbon black' pigment).
- ☐ We have removed/reduced use of inks based on nitrate cellulose
- ☐ We have removed/reduced use of non-washable pigments.
- ☐ We have removed/reduced full-body sleeves of different polymers for the sleeve and packaging (e.g. PET bottle and PP sleeve).
- ☐ We have removed/reduced use of PVC packaging.

☐ We have removed/reduced plastic components on fibre-based packaging.
☐ We have replaced packaging with plastic coating (e.g. laminated cardboard).
☐ We have reduced thickness of plastic coating on cardboard packaging.
☐ We have introduced separable cardboard & plastic packaging (peelable).
☐ We have removed PVC plastic coating on fibre-based packaging.
☐ We have introduced/switched to water soluble barriers.
☐ We have switched to a water-soluble glue on cardboard & plastic laminates.
☐ We have changed to a 'cold set' or water-soluble glue.
☐ We have removed/reduced the use of a double-sided cardboard lamination (wax or plastic).
☐ We have phased out/reduced UV ink and varnish.
☐ We have phased out single-use plastic packaging (e.g. drinking cup, food containers).
☐ We have changed to plastic caps that remain attached to a beverage packaging during usage in order to avoid littering.
☐ Other

Fiber-based

30) What measures have you implemented in 2023 to increase the recyclability of your fiber-based packaging?

☐ We have reduced cardboard with waxed/fat-resistant/silicone coating.
☐ We have switched to tape with a water-soluble glue.
☐ We have removed/reduced non-cellulose-based packaging.
☐ We have removed/reduced double-sided lamination.
☐ We have removed/reduced one-sided lamination.
☐ We have removed/reduced plastic components on fiber-based packaging
☐ We have removed/reduced PVC-coating on fiber-based packaging
☐ We have switched to cold-set or water soluble glue
☐ We have removed/reduced UV-ink and varnish
☐ Other

Glass

31) What measures did you implement in 2023 to increase the recyclability of your glass packaging?

☐ We have phased out ink containing heavy metals
☐ We have replaced/phased out heat-resistant glass (e.g. pyrex, crystal glass), lead glass, cryolite glass
☐ We have reduced weight of the packaging unit
☐ We have reduced the size of labels (full-covering sleeves)
☐ We have changed from a black/dark blue color to a green/brown/transparent
☐ Other

Metal

32) What measures did you implement in 2023 to increase the recyclability of your metal packaging?

☐ We have switched from PVC labels to other plastic types
☐ We have switched from hydrocarbon-based propellants in spray bottles to non-hydrocarbon-based propellants
☐ Other

Part 4. Heavy metals and environmentally harmful substanses

The product regulation contains limits to the accumulated levels of lead, cadmium, mercury and hexavalen chromium in packaging.
The waste regulation requires that content of harmful substances that can occur in leach out, be emitted or remain in ash after incineration or deposing of packaging is reduced to a minimum.

33) * Does your packaging contain:

	Yes	No	I don't know
Lead	○	○	○
Cadmium	○	○	○
Mercury	○	○	○
Hexavalent chromium	○	○	○
PFAS	○	○	○
Bisphenol A	○	○	○
Phthalates	○	○	○
PAH compounds	○	○	○
Mineral oils	○	○	○
UV protectants in plastic	○	○	○

34) * Can you document the absence of lead in your packaging?

○ Yes
○ No

35) * Can you document the absence of cadmium in your packaging?

- Yes
- No

36) * Can you document the absence of mercury in your packaging?

- Yes
- No

37) * Can you document the absence of hexavalent chromium in your packaging?

- Yes
- No

38) * Can you document the absence of bisphenol A, phthalates, PAH compounds, mineral oils and UV protectants in your packaging?

- Yes
- No

39) Please state amount of

Lead (mg/kg)

40) Please state amount of

Cadmium (mg/kg)

41) Please state amount of

Mercury (mg/kg)

42) Please state amount of

Hexavalent chromium (mg/kg)

43) * Did you know that it is prohibited to produce, import, export and trade packaging where the total content of lead, cadmium, mercury and hexavalent chromium exceeds 100 mg/kg?

- YES
- NO

As a producer, importer or distributor of goods you are required to prevent negative impact on health and environment caused by the goods you produce, import or distribute. You need to

know what the goods and their packaging contain, and make sure that sufficient information is available.

44) * Do you have sufficient information available?

- YES
- NO

45) * What measures have you implemented to reduce the risk of environmentally harmful substances in the packaging in 2023?

- [ ] Risk assessment of suppliers
- [ ] Internal control
- [ ] Communicated requirements to suppliers
- [ ] Declaration of conformity from suppliers
- [ ] Nothing
- [ ] Other

Planned measures

These measures include both internal measures, measures from or at the head office and requirements towards suppliers.

46) What measures do you plan to implement? Choose all relevant alternatives.

- [ ] We plan to change materials
- [ ] We plan to work with design
- [ ] We plan to change color / print / labels
- [ ] We pan to introduce reusable sales packaging
- [ ] We plan to introduce reusable transport packaging
- [ ] We plan to introduce reuse in online retail (possibility to send back packaging, which is then reused)
- [ ] We plan to introduce bio-based packaging
- [ ] We plan to introduce biodegradable packaging
- [ ] We plan to get ourpackaging certified (e.g. RecyClass for plastic)
- [ ] We plan to have digital labeling of packaging
- [ ] We plan to label packaging with pictograms for separate waste collection
- [ ] We plan to introduce recycled material
- [ ] We plan to reduce environmentally harmful substances
- [ ] We plan to work with (reduce or remove) factors/elements that interfere with the sorting process
- [ ] We plan to work with (reduce or remove) factors/elements that interfere with the recycling process
- [ ] Other

47) * How competent is your company on the following topics?

	Current competence			Development of competence in 2023		
	Poor	Good	Very good	No development	Some development	Significant development
Packaging composition	○	○	○	○	○	○
Packaging optimization	○	○	○	○	○	○
Waste reduction	○	○	○	○	○	○
Reuse	○	○	○	○	○	○
Substances harmful to the environment	○	○	○	○	○	○

48) * What activities have you performed to increase your competence?

In order to help our customers be confident that activities and products are in accordance with existing and future legislation in the circular economy and packaging regulations, we offer advice and courses in these areas.

49) Do you or your company need consulting or information on:

- ☐ Consulting on existing policies and regulations
- ☐ Consulting on upcoming policies and regulations
- ☐ Consulting on packaging
- ☐ Participate on workshops on topics like packaging, optimization, policies etc.
- ☐ General information on these services

Thank you for completing this questionnaire. Do you have comments to the reporting, or information that did not fit in anywhere?