

# Sustainable Procurement Workshop Environment@SSC

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### **Collaborations**

- 2050Today <u>Food</u> + <u>Waste</u>
- Rubbish Club
- HSE-ENV

## SSC Objectives

Non-hazardous waste – Horizon 2030

Shape the future of services to increase positive impact on CERN's community & environment Target operative excellence and next level of maturity Develop an inclusive environment fostering staff engagement









CERN's aim has been to increase its recycling rate for non-hazardous waste. The recycling rate rose from 56% in 2018 to 69% in 2022.

In 2021 and 2022 respectively, CERN disposed of 5111 tonnes and 8812 tonnes of non-hazardous waste, and of 1544 tonnes and 1295 tonnes of hazardous waste, including 307 and 519 tonnes of radioactive waste.





CERN's Green Village Specific Project Agreement No. 1

#### "EdgeAI for Biodiversity Mapping & Monitoring"

(acronym: '"AMBIENT" - AI Mapping & BIodiversity moNitoring using Edge Technology.')

between

The European Organization for Nuclear Research (CERN)

and

Université Côte d'Azur / Centre National de la Recherche Scientifique Laboratoire d'Electronique, Antennes et Télécommunications (LEAT)



- "Responsabilité Sociétale des Entreprises" policies of contractors:
  - Helvetia, Novae, Serco, ...



### Integration in roadmaps

### **CERN** Mobility Plan

CERN is actively encouraging employees, users, workers, and visitors to utilize sustainable transportation methods. Between 2022 and 2023, a survey was conducted among CERN's community to analyse the progress in this area and to identify new actions. The update of CERN's Mobility Plan is grounded in the feedback from this survey, continuous analysis of opportunities, and the ambition to minimize the impact of CERN's activities on the environment. This mobility plan embodies a dynamic and longterm approach to accompany changes in behaviour regarding safety and mobility, emphasizing the promotion and fostering of equality among different modes of transportation, including accessibility for individuals with reduced mobility.

#### Storage Management

The Long-term objectives of the Storage Service are:

- Avoid the construction of new storage buildings in the future and reduce over time the total surface allocated to storage on the CERN sites.
- Limit duplication of local storage service resources across the Organization to target an economy of scale. Reduce associated industrial support costs.
- Feed circular economy and limit the environmental impact.

### Catering

#### 1. Align to CERN's community expectations:

Ensure the services cater to all CERN community members by offering a wide range of attractive, qualitative, and healthy options, ensuring value for money, and enhancing the overall client experience. Monitor internally and with external peers, adapt continuously.

#### 2. Reinforce social impact:

Proactively maintain and develop catering infrastructure with a focus on comfort and conviviality. Extend events that encourage qualitative moments within CERN's community. Foster social initiatives, such as the inclusion of employees with disabilities,

#### 3. Embrace the 2025-2030 CERN sustainability goals:

Promote actions that positively impact CERN's CO<sub>2</sub>-equivalent contributions. Explore additional initiatives with peers and stakeholders that may exceed initial sustainability goals, and adapt infrastructure to improve energy management.

### Waste Management

The long-term objectives as are:

- Offer to CERN's community an efficient and adapted waste management service.
- Embrace the environmental transition laid down in CERN's Environmental Protection Strategy and CERN's Masterplan 2040, fully aligned with priorities of CERN, communities surrounding the sites and Geneva international organizations. Become an eco-exemplary campus.
- Maintain full compliance with France and Switzerland regulations while operating waste management and waste disposal. Align priorities to long-term plans of host states and local authorities.
- Reduce the total quantity of waste generated by CERN per producer category (campus, industry, work site).

#### **Stores**

The long-term objectives of the CERN stores service are:

- 1. Reshape distribution of demand fulfilment routes to the values of 2007: 20% DAI, 80% PunchOut or CERN catalogue (APPENDIX A: PRIORITY ACTIONS 2023-2025, KPIs and TARGETS).
- 2. Simplify material request and fulfilment experience for all CERN's community.
- 3. Reduce inventory value and contain operational costs.
- 4. Reduce environmental impact of all SC activities.
- 5. Leverage the added value of a central stores service through a higher degree of collaborative integration with key partners (internal and external with suppliers).
- 6. Maintain a healthy, safe and pleasant working environment to sustain high team engagement.

### Housing

Enhance Guest Satisfaction: The goal is to achieve a guest satisfaction score of 4.5 out of 5 in annual surveys by 2029. Improving communal facilities and services, based on guest feedback, will reduce negative reviews related to these areas by 50% over the next five years. Enhancing guest satisfaction will contribute to higher retention rates and positive word-of-mouth, further supporting revenue growth and service quality.

**Occupancy rate and revenue**: The aim is to significantly boost the occupancy rate in Meyrin hotel to an average of 80% by 2029, ensuring optimal utilization of facilities throughout the year. Implementing dynamic pricing strategies and enhancing the reservation system will attract a higher number of guests, particularly during low-demand periods. Adapt offer evolution according to guest profiles (delegates, students, users, etc...), to increase attractivity.

Ensure that the annual revenues are in line with those approved in the Medium-Term Plan (MTP).

Infrastructure and environment sustainability: Maintain infrastructure, equipment and high-quality accommodations corresponding to local hospitality standards following the market evolution.

Foster social benefits by providing a safe, comfortable, and accessible environment for the CERN community and align with CERN's environmental goals through sustainable practices, reducing the carbon footprint, and promoting long-term ecological sustainability.



### **Mobility**



2024-03-08

E-bike sharing à Prévessin

Nouvelle ligne de covoiturage Hé!Léman à Gex



2023-06-30

2023-06-09

#### Un test de mini-véhicules a eu lieu au Prévessin

L'équipe de Mov'ici vient au CERN le 20 juin !

entre 19-23 juin !

### **Recap Mobility Evolution**

2016 - 2019 ~12% Fleet reduction

2019Survey and Mobility Action PlanQ2 2022Savings proposal & eco-transition thanks to 25% fleet reduction,<br/>endorsed by ED; expected savings included in the MTPQ4 2022Mobility Survey and Action Plan (input to Environmental Report 21-22)Q3 2023Fleet reduction implementation proposals; ED gives green light to<br/>develop a working modelQ4 2023ED supports the development of a large car sharing fleet managed<br/>centrally (accountability for savings and fulfilment of mobility needs)ED approves CEPS 2030 environmental objectives, which include: 25%<br/>fleet reduction & 50% of EVs in CERN's car fleetTodayFor ED information:<br/>Updated Mobility Plan<br/>Car fleet reduction implementation (impact awareness)

SCE



#### Proposal for the award of a contract for the provision of transport services for the CERN Scope community

30/04/2024

#### Improvement

- Regular shuttle service operated by 100% electric shuttles, significantly reducing CO<sub>2</sub> emissions and contributing to a cleaner and more sustainable environment
- Optimization of shuttle timetables to ensure better alignment with passenger needs, minimize waiting times, and maximize operational efficiency
- Buses will be equipped with a passenger counting application to monitor occupancy levels in real-time, optimize route planning, and improve overall service
- Accessibility for disabled persons
- Contract Coordinator on site: Improvement of daily management (communication with drivers, last minute requests, feedback)







CÉRN

### Cleanliness: Waste roadmap (CEPS Nov. 24)







### **Cleanliness**

Standardisation





## Sorting bins implementation

Public area and office buildings – more than 50 sorting bins deployed





Opération de nettoyage : plus d'1 tonne

de déchets collectés à Prévessin

2024-04-19

En accord avec le département SY, le groupe SCE-SSC a récemment entrepris un nettoyage de printemps sur les quelques 18 000 m2 des bâtiments 864, 865 et 866 à Prévessin. L'objectif était de libérer de l'espace et de dégager les couloirs et les sous-sols encombrés par du matériel inutilisé.

Les résultats de cette opération sont très satisfaisants : plus d'1 tonne de déchets ont été collectés ! Parmi ceux-ci, différents types de déchets ont été triés et répertoriés : 840 kg d'encombrants, 214 kg d'appareils électroniques, 107 kg de matériel informatique et 19 kg de câbles. Si vos locaux sont aussi encombrés et que vous avez du matériel informatique et du mobilier que vous n'utilisez plus, n'hésitez pas à contacter <u>cern.dechets@cern.ch</u>@ qui vous proposera une solution.

Bravo à tous ceux qui ont contribué à la réussite de cette grande opération de nettoyage !

#### Ozonated water system replacing the use of chemical products for cleaning

2024-03-22



Respecting water may begin with not polluting it. This is the reason why SCE department turned to ozonated water as a sustainable alternative to traditional cleaning chemicals as of 2022.

Ozone is an inorganic molecule, which kills bacteria, viruses, and parasites and eliminate contaminants. When stabilized, aqueous ozone has the potential to eliminate up to 99.999% of harmful bacteria, surpassing the effectiveness of bleach, and having equivalent or even better effectiveness than many chemical disinfectants on market.

Since 2022, the SSC group, in charge of the cleaning contract, has installed no less than 15 connection points on the CERN site with the support of the team SAM-IN. Buildings 501, 504, 570, 664, 112, 14, 54, 31, 38 and 39 in Meyrin, and 774, 865, 866, 892, 937 in Prévessin, are all equipped with connections to ozonated water machines.

Indeed this ozonated water method brings an environmentally attractive solution that avoids chemical products and, contrary to traditional cleaning agents, does not leave harmful residues that can contaminate water sources. It therefore helps safeguard aquatic ecosystems and protect our natural water resources.

This initiative reaffirm SCE's ecologically conscious and sustainable approach.





Semaine européenne de réduction des déchets 2023-11-17



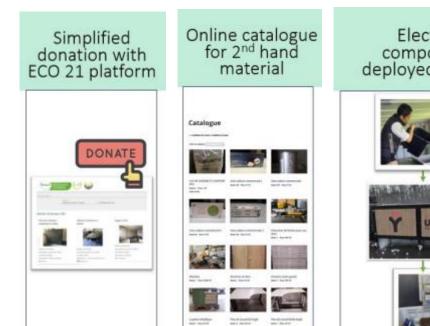
#### Traitement des déchets de vos plateaux au R1

Savez-vous comment sont traités les déchets de vos plateaux au R1 ? Ils sont revalorisés selon leur nature et répartis en quatre catégories .

2023-03-24



### **Cleanliness**





#### Free compost distribution at CERN

2024-10-18



Composting is a natural, useful and ecological solution to fertilize but also a very interesting solution of waste conversion and transformation.

Restaurant 3 is composting the organic fraction of its waste since last year (article here), producing a compost of the highest possible quality. With the autumnal plantation period beginning, SCE department has launched a distribution program to enable the CERN Community to benefit from this 10 m3 natural fertilizer that looks and smells like soil.

If you're eager to enrich your garden soil with high-quality compost, simply express your interest by sending an email to cern.dechets@cern.chm . The distribution will operate on a 'first come, first served' basis, the 24 and 31 October 2024 in B133, between 1:00 PM and 5:00 PM.

Please note that anyone interested shall bring their own container or box (max. 100L/person) to collect the compost.



#### Un abri vélo à taux zéro

2024-08-23



Un composteur électromécanique pour une meilleure gestion des déchets au R3

2023-04-28



Un catalogue des articles de seconde-main est désormais disponible en ligne ! 2023-09-15



Housing & Catering

• Hotel eco-label: <u>https://confluence.cern.ch/display/ISINT/Sustainability+@hotel+Meyrin</u>

### Come and spin the sustainable food wheel!

2024-03-08



On Monday 11 and Tuesday 12 March, Novae will propose fun activities at Restaurant 1 and 2, to raise people awareness of the benefits of sustainable food in a recreational and educational manner.

This initiative led by Novae's <u>Corporate Social Responsibility</u> (CSR) department will include a stand at the entrance of the restaurant 1 and 2, informing people about sustainable food with a particular focus on diversification of protein sources, and will offer a funny game: the sustainable food wheel to discover the 6 principles of a sustainable food around thematic questions.

Sustainable delicacies, such as vegetable peel chips, will be offered to participants, raising awareness of more <u>responsible eating</u><sup>ad</sup>. And a local and zero-waste vegan "dish of the day" will be proposed, with a detailed recipe to encourage people to reproduce it at home. By buying one, you will get one free hot chicory infusion.

So don't miss the event and make a contribution to turning the wheel of knowledge on Sustainable food!

Novae's events at CERN: KB0009093

#### Sustainability @hotel Meyrin

Créée par Gregoire Mathias, dernière modification par Vincent Gilquin le mars 19, 2024

Objectif: réduire l'impact environnemental et s'inscrire dans une optique de conservation et de respect de notre environnement

	Quoi	Qui	Tasks
Eco label certification	Markey survey of existing Swiss eco labels	@ Faezeh Abbasi	Sustainability Certification for CERN Hostel
	Assessment of current maturity of CERN hotels compared to available labels		Image: State Stat
	Project charter to be certified with one of the label		
Single use plastic	Sanitary kit (gobelets en verre/ brosse à dent en bambou)	Topnet	
		CERN / Topnet	<ul> <li>Trouver fournisseur : Hotel Megastore</li> <li>Demander un devis</li> <li>Vérifier avec Legal pour achat FR et vente en CH hors taxe : mail du</li> <li>9 mars 2024</li> </ul>
	Distributeurs dans les douches communes au lieu des miniatures dans les TLB, SLB, SWB	Topnet Installation CERN TBC (percage/ amiante)	



### Supply Chain

New e-transit van Tricycle e-scooter for Mail delivery







News/Actualités Second-hand binders at the CERN stores

SCE is a department sensitive to environmental matters and strives to be a force for positive change.

Its Service of Sales and Recuperation has a long-standing commitment to offering used, repaired, and reconditioned products.

In a context where consumers are now pricing in the environmental footprint of their purchases, the return of second-hand material into circulation is a prerequisite for the CERN stores which promote comprehensive approach, mindful consumption, and limitation of environmental impact at all levels of our daily work.

With that in mind, hundreds of binders are now available through a simple material request for the symbolic price of 1,-CHF/piece: CERN Stores Catalogue (54.21.40)

This is not only a great idea to limit waste and ovoid very much equipment to be unnecessary junked, but it also contributes to significant savings for CERN community.

That's thinking ahead! Every little bit helps.

#### **CERN stores embrace sustainability**

2024-04-19



CERN Stores are committed to reduce their global environmental impact and do not allow themselves to be discouraged by difficulties. They strongly promote reuse whenever possible. Where paper bags to dispatch orders have proved unsuccessful, a new sustainable option has been applied: reusable plastic bags.

To extend the lifecycle of these zippered plastic bags used for dispatching orders across CERN, the Stores are implementing a "return-to-sender" policy with collection racks at the CERN Store, where they are segregated and put back into circulation.

They strongly encourage you returning these plastic bags either through the internal distribution or directly into the racks located by the emergency counter of the CERN Stores.



#### Les magasins du CERN réduisent encore leur déchets plastiques

2023-12-08



### Supply Chain

### • This workshop !

This page is created to document the sustainability efforts of our main suppliers and producers. All information is welcome to highlight such as reports, newsletter, events around this topic....

Suppliers/Events	Useful link/report/description	Posted on	Ву	
INFO CERN Procurement (Internal use only)	Sustainable Steel guideline (Draft) 2023 09 29 Steel guidance and criteria[25].docx			
ECOVADIS	Since its founding in 2007, EcoVadis has grown to become the world's largest and most trusted provider of business sustainability ratings, creating a global network of more than 100,000+ rated companies. Corporate Sustainability Assessments   EcoVadis			
	The Value of Supply Chain Sustainability Environmental, social, and ethical performance – or Sustainability – is an essential factor for smart businesses today, and the supply chain is the biggest lever for impact.			
Pfeiffer Vacuum	230316-PV-Sustainability-Report-2022-final.pdf (q4cdn.com) Pfeiffer Vacuum - Pfeiffer Vacuum gains Gold Medal at EcoVadis sustainability rating and improves its Sustainalytics Sustainability Risk Rating (pfeiffer-vacuum.com)			
Green Steel World	Transforming Indian steel industry from hard-to-abate into fast-to-abate - GreenSteelWorld.com		Leila	
Green Steel World	Green Steel World is a platform dedicated to advancing the decarbonization of steel production. Green Steel World Conference is a platform for collaboration and discussion on the latest advancements in green steel technology. Our conference will feature presentations and panel discussions from leading experts in the field, covering topics such as energy efficiency, low- carbon production methods, and sustainable materials sourcing.		Leila	
	Green Steel World Expo & Conference – Essen, 26 – 27 June 2024 Bringing together green steel experts from the global market place in one place at one time, this unique event provides an excellent opportunity to meet with both manufacturers and users involved in the decarbonization journey for the steel industry. Conference Information - GreenSteelWorld.com https://greensteelworld.com/			
Imbach Solution Metal	Solar Village Nebikon   IMBACH & CIE AG Imbach Energy Campaign   IMBACH & CIE AG		Leila	
Voestalpine	Sustainability Strategy handlungsfelder-va-crr22.pdf (voestalpine.com)		Leila	
Programme RSE	La RSE dans les achats, pourquoi, comment? - Efficience Achat		Leila	
Alleima	Sustainability Matters: Alleima a sustainable front runner with ambitious goals for the future Sustainability Matters_ Alleima a sustainable front runner with ambitious goals for the future.msg Alleima_Sustainability_Brochure_2023_EN.pdf (mcusercontent.com)		Leila	

#### 4. Embrassing sustainability together 3

Step by step, the Stores are gradually working towards reducing its global environmental impact.

You may have noticed that most of our last deliveries are now wrapped in paper bags, a conscious shift away from plastic packaging.

As an additional eco-conscious gesture, you may have been gifted a reusable tote bag as a token of our appreciation for your contribution to this journey.

Thank you for being a valued part of this effort.

#### 3. Giving plastic delivery bags a second chance

As part of our commitment to sustainability, we promote reuse whenever possible.

To extend the lifecycle of the zippered plastic bags used by our logistics team to dispatch orders across CERN, the Stores are implementing plastic bag return boxes. These boxes will be conveniently located downstairs by the emergency counter of the CERN Stores.

We strongly encourage your participation in this initiative by returning your Stores plastic bags !



Buy	SCEM Code	Unit	Unit Price	Stock	Expected Delivery	Direct Delivery	DESCRIPTION	PACKAGE	FIG.
Ā	54.99.70.010.9	BT	10.5	<mark>1</mark> 97	25.11.2024	>=64 i	NATURAL MINERAL WATER FROM THE VALAIS ALPS	bottle of 19 liters	1
Ŵ	54.99.70.105.3 i	PC	49.0 <b>i</b>	12	25.11.2024	>=8 i	MINI STORAGE RACK	for storage 4 bottles	2
Ì	54.99.70.120.0	PC	0.27 i	41900	25.11.2024	>=200 i	CUP PP VITHOUT BISPHENOL A	lot of 50 cups	3
9	54.99.70.130.0	PC	i	Not Stocked	28.11.2024	>=0 i	Water cooler for EDEN 19L water bottles LONG-TERM RENTAL (>1 month) Please ensure you provide the required information (see family description		
W	54.99.70.130.2	PC	i	Not Stocked	25.11.2024	>=0 i	Water cooler for EDEN 19L water bottles. SHORT-TERM RENTAL (<1 month) Please make sure to provide the necessary information (see family description)		·





## **Coming challenges**

- Service roadmaps release and execution
- Objective alignment with key service contracts (workshop to come next year)
- CO2eq accounting, standards and metrics
- Toward a net-zero Campus (in collaboration with SCE-SAM & SCE-PPM)





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