

 **2050**  
**today**  
United for zero emissions

# Annual Report 2024



# CONTENTS

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<b>ABOUT 2050TODAY .....</b>	<b>4</b>
<b>FOREWORD.....</b>	<b>6</b>
<b>THE YEAR 2024 IN NUMBERS.....</b>	<b>8</b>
<b>ANNUAL TIMELINE.....</b>	<b>9</b>
<b>1. CLIMATE ACTION PLAN OF INTERNATIONAL GENEVA.....</b>	<b>10</b>
<b>2. WORKING GROUPS BY THEMATIC SECTORS .....</b>	<b>13</b>
2.1. Energy.....	13
2.2. Mobility.....	15
2.3. Food.....	17
2.4. Biodiversity.....	18
2.5. Sustainable IT.....	19
2.6. Waste Management.....	20
<b>3. CARBON FOOTPRINT.....</b>	<b>22</b>
<b>4. TRAINING AND EVENTS.....</b>	<b>24</b>
4.1. United for Zero Emissions, The 2050Today Charter Explained - 27 February 2024... 24	
4.2. Geneva Gender Debate - 5 March 2024.....	25
4.3. Vegetarian Cooking Workshop - 13 March 2024.....	26
4.4. Climate Voices: Leading the Call for Change - 15 March 2024.....	26
4.5. How to Measure Greenhouse Gas Emissions - 11 and 18 April 2024.....	27
4.6. Bike to Work - May and June 2024.....	28
4.7. Zero Waste and Sustainable Cooking Master Class - 24 June 2024.....	28
4.8. Visit of SIG Verbois Dam and Solar III Power Plant - 15 October 2024.....	29
4.9. À Table! - From 23 September to 20 October 2024.....	30
4.10. Re:Pas Challenge - 7-18 October 2024.....	31
4.11. Visit of Infomaniak's New Data Center - 5 November 2024.....	32
<b>5. MEETINGS.....</b>	<b>33</b>
5.1. High-Level Meeting.....	33
5.2. Committee of the Parties Meetings.....	34
5.3. Focal Points Meetings.....	35
<b>6. COMMUNICATION.....</b>	<b>36</b>
<b>7. PERSONNEL.....</b>	<b>37</b>
<b>8. FINANCE.....</b>	<b>38</b>
<b>9. 2050TODAY MEMBERS.....</b>	<b>40</b>

# ABOUT 2050TODAY

## The Geneva Climate Action Forum

### COMMITTED TO PROMOTE ENHANCED CLIMATE ACTION

2050Today is the Geneva climate action Forum where institutions of International Geneva come together and commit to reducing their greenhouse gas (GHG) emissions. United by this vision of decarbonisation, nearly 40 institutions have decided to take coordinated action to confront the challenges of climate change by implementing concrete measures. 2050Today wishes to leverage its influence and exceptional network to federate actors and stakeholders around a carbon free International Geneva by promoting and enhancing sustainable activities and behaviours.

### A COMMON FRAMEWORK: THE 2050TODAY CHARTER

The Charter constitutes a coherent, mutually supportive, and effective framework for reducing GHG emissions. It confirms and highlights International Geneva climate action, taking into consideration the necessity to act within the planetary boundaries.

By adopting the 2050Today Charter, institutions benefit of

- **Common principles** to be implemented by objectives and targets set individually
- **Concrete and specific actions** through guidelines
- **Benchmarks for the assessment** of every sector on which you decide to act
- **Expert advice & tools to devise a specific Action Plan** to reduce GHG emissions
- **Implementation support** through targeted knowledge and monitoring resources
- **Increased visibility** to communicate jointly International Geneva endeavours

### SOLUTIONS TO ADDRESS MAJOR ENVIRONMENTAL CHALLENGES





## 8 STEPS TO IMPLEMENT THE CHARTER WITH THE SUPPORT OF 2050TODAY



### SIGNATORY INSTITUTIONS ACT TOWARDS A CARBON FREE INTERNATIONAL GENEVA BY FULFILLING FIVE PRINCIPLES

1. **Measuring regularly the carbon footprint** of their activities
2. **Carrying out an initial assessment** on one or more sustainability sectors
3. **Defining their own Action Plan** and implementing it to reach the targets
4. **Sharing their Action Plan** with 2050Today and reporting on the set topics
5. **Communicating their climate action**

### AN INSTITUTION PROVIDED BY THE HOST STATE

2050Today is a partnership of the Swiss Confederation, the Republic and Canton of Geneva, the City of Geneva, the University of Geneva and Industrial Services of Geneva dedicated to a Zero Emissions International Geneva.

### A PARTICIPATION OPEN TO ALL

Joining 2050Today and signing the Charter do not imply any form of legal or juridical responsibility assumed by the signatories. It does not involve any obligation to undertake a financial contribution to 2050Today or to commit resources. The Charter has been drafted in cooperation with the 2050Today members, the relevant Swiss authorities, and the various expert partners. Its content is the sole responsibility of 2050Today.

As for those institutions that already have their own action plan or wish to define it according to their own references, 2050Today enables them to compare best practice with the common framework established and to foster mutual and fruitful exchanges on their actions ensuring most effective implementation.

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# FOREWORD

The year 2024 marks a significant step forward in our joint effort: **International Geneva has adopted its Climate Action Plan.**

After signing the 2050Today Decarbonisation Charter in December 2023, 37 institutions (Permanent Missions, International Organisations, Academic and Civil Entities) adopted their action plan 12 months later to reduce their greenhouse gas (GHG) emissions in a precise and measurable way. Not only have they confirmed the value of their commitment, but they have also demonstrated that their participation in 2050Today results in tangible, coordinated and determined climate action.

Together, these institutions, which employ 19,000 people, have committed to implementing more than 1,000 actions aimed at reducing GHG emissions by an average of 32% by 2030. These combined reductions represent a reduction of 53,000 tonnes of CO<sub>2</sub> equivalent, which is comparable to the annual emissions of 4,100 Swiss residents.

Whether it's energy-efficient buildings, greener mobility, sustainable food systems, protecting biodiversity, responsible use of digital technology or better waste management, the action plans adopted reflect each institution's determination to act within the planetary boundaries. With clear milestones set for 2025, 2028 and 2030, these roadmaps represent a collective effort to meet the urgent environmental challenges of our time.

We know that tackling the climate challenge is as high as the stakes: ensuring a sustainable and liveable future for humanity. The choices we make today have an impact not only on tomorrow, but above all on future generations. With the adoption of their Action Plan, 37 institutions of International Geneva have chosen to act responsibly and have paved the way for all the others to do the same. You are all invited.

We would like to express our gratitude to all of you, dear members of 2050Today, because the Climate Action Plan for International Geneva is your collective work. We have built it gradually and jointly with your full participation and that of our partners, whom we would also like to thank warmly: the Swiss Confederation, the Swiss Permanent Mission, the State of Geneva, the City of Geneva, the University of Geneva and SIG.

We invite you to discover here our 2024 achievements as we work together to promote effective and concerted climate action.

On behalf of 2050Today



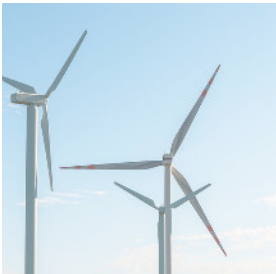
Jean-Pierre Reymond  
Executive Director

# THE YEAR 2024 IN NUMBERS

**62**  
Members



**43**  
Charter signatories



**37**  
Action plans adopted



**41**  
Carbon footprint reports



**1090**  
Planned climate actions

**32%**  
Average reduction GHG emissions by 2030

**53'000**  
tCO2 Expected decrease by 2030



**23**  
Events and working group sessions

# ANNUAL TIMELINE

## JANUARY - MARCH

- 27 FEB.** UNITED FOR ZERO EMISSIONS, THE 2050TODAY CHARTER EXPLAINED
- 5 MAR.** GENEVA GENDER DEBATE
- 13 MAR.** VEGETARIAN COOKING WORKSHOP
- 15 MAR.** CLIMATE VOICES: LEADING THE CALL FOR CHANGE

## APRIL - JUNE

- APR.** 1ST FOOD WORKING GROUP AT UNOG  
1ST SUSTAINABLE IT WORKING GROUP AT ITU  
1ST WASTE MANAGEMENT WORKING GROUP AT THE GRADUATE INSTITUTE  
FOCAL POINTS MEETING
- 11 APR.** HOW TO MEASURE GREENHOUSE GAS EMISSIONS
- 18 APR.** COMMITTEE OF THE PARTIES MEETINGS
- 16 APR.** COMMITTEE OF THE PARTIES MEETINGS
- MAY.** 1ST ENERGY WORKING GROUP AT FIPOI  
1ST MOBILITY WORKING GROUP AT CERN
- MAY.** BIKE TO WORK
- JUN.** BIKE TO WORK
- 24 JUN.** ZERO WASTE AND SUSTAINABLE COOKING MASTER CLASS

## JULY - SEP

- SEP.** 2ND FOOD WORKING GROUP AT THE GRADUATE INSTITUTE
- 23 SEP. TO 20 OCT.** À TABLE!

## OCT - DEC

- OCT.** 2ND ENERGY WORKING GROUP AT ILO  
2ND MOBILITY WORKING GROUP AT CENTER FOR HUMANITARIAN DIALOGUE  
2ND SUSTAINABLE IT WORKING GROUP AT CCIG  
2ND WASTE MANAGEMENT WORKING GROUP AT UNHCR
- 15 OCT.** VISIT OF SIG VERBOIS DAM AND DOLAR III POWER PLANT
- 7-18 OCT.** RE:PAS CHALLENGE
- 5 NOV.** VISIT OF INFOMANIAK'S NEW DATA CENTER
- 4 DEC.** HIGH-LEVEL MEETING



# 1. CLIMATE ACTION PLAN OF INTERNATIONAL GENEVA

Following the signature of the 2050Today Charter in December 2023, the signatories were supported in 2024 in implementing their commitments, in three phases. During the first phase until March 2024, 2050Today Executive Director Jean-Pierre Reymond met individually with each institution's Head to assess the possible areas of intervention. This has also been an opportunity to collect expectations and aspirations on how 2050Today can best support their efforts. During the second phase, concluded in May 2024, participating institutions made an in-depth assessment of their situation for the selected sectors, using the thematic guidelines and the Charter's assessment tools. Finally, during the third phase that was concluded in November, institutions defined their action plan, setting out relevant actions and objectives to achieve.

The action plans have been adopted at the 3rd high-level Meeting on 4 December 2024.



*The 37 institutions that adopted their action plans*



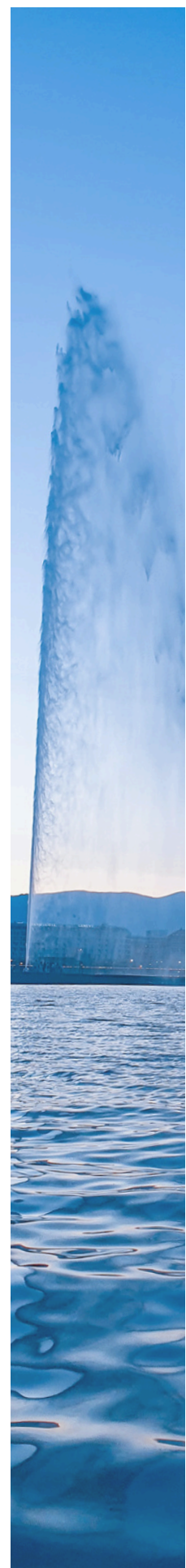
Together, these 37 institutions, which employ 19,000 people, have pledged to implement over 1,000 actions aiming for an average 32% reduction in greenhouse gas emissions by 2030. These combined reductions represent **a decrease of 53,000 tons of CO<sub>2</sub> eq**, comparable to the yearly emissions of 4,100 Swiss residents.

From energy-efficient buildings to greener mobility, responsible food systems, biodiversity protection, sustainable IT, and improved waste management, the adopted action plans reflect the determination of each institution to operate within planetary boundaries. With **clear milestones set for 2025, 2028, and 2030**, these plans represent a collective effort to tackle the pressing environmental challenges of our time.

To help define ambitious action plans aligned with the emission reduction targets recommended by the 2050Today Charter, signatory institutions received tailored support from 2050Today. After submitting their assessments for selected sectors, each institution was provided with individualized feedback highlighting the sector they aimed to prioritize. This feedback was linked to their greenhouse gas emissions and the reduction targets for 2030 and 2050. The objective of this initial feedback was to ensure that each institution's action plan addressed the most significant portion of their emissions.

During the action plan development phase, institutions received a second round of personalized feedback on their draft plans. Each action plan was reviewed, and the expected impact of the proposed measures for 2025, 2028, and 2030 was estimated. This enabled institutions to understand the projected reductions for each sector and their overall emissions reduction trajectory by 2030.

These individualized reports also provided a comprehensive assessment of the action plans, along with improvement recommendations. Additionally, they offered a comparison between the estimated impact of the initial plans and the potential impact if the 2050Today recommendations were implemented.



In addition, permanent Missions received a specifically tailored support. To facilitate and accelerate the adoption of action plans by the permanent Missions, a shorter and customized version was developed to better fit their context. Based on an analysis of the permanent Missions' carbon footprints, **a list of 14 priority actions** (extracted from the 2050Today Charter) was defined and proposed in the sectors of Mobility, Energy, and Food. Recommendations on targets were also included, **aiming for an average 40% reduction in GHG emissions for a typical permanent Mission**, provided all actions were implemented with the recommended targets. Each permanent Mission then reviewed the shortened action plan and adapted it to its own institutional context. The "Short Action Plan" has been made publicly available on the 2050Today website.

## The 37 institutions having adopted the climate action plan

### Permanent missions

 Barbados	 Norway
 Chile	 Sweden
 Denmark	 Switzerland
 Finland	 United Kingdom of Great Britain and Northern Ireland
 France (United Nations & Disarmament)	 European Union
 Mexico	
 Morocco	

### International organizations

 DNDi - Drugs for Neglected Diseases initiative	 OHCHR - Office of the United Nations High Commissioner for Human Rights
 HD - Centre for Humanitarian Dialogue	 UNHCR - United Nations Refugee Agency
 ILO - International Labour Organization	 UNOG - United Nations Office at Geneva
 IOC - International Olympic Committee	 WMO - World Meteorological Organization

### Academia and civil entities

 EPFL - Swiss Federal Institute of Technology Lausanne	 Foundation for Geneva
 Graduate Institute Geneva	 Geneva Diplomatic Club
 HES-SO - University of Applied Sciences and Arts - Geneva (action plan under validation)	 ICVA - International Council of Voluntary Agencies
 UNIGE - University of Geneva	 Kofi Annan Foundation
 CAGI - Geneva International Welcome Centre	 NRC - Norwegian Refugee Council /
 CCIG - Geneva Chamber of Commerce, Industry and Services	 IDMC - Internal Displacement Monitoring Centre
 EBU - European Broadcasting Union	 PATH - Foundation for Appropriate Technology in Health
 FIPOI - Foundation for Buildings for International Organizations	 WCC - World Council of Churches

## 2. WORKING GROUPS BY THEMATIC SECTOR

The working groups bring together relevant staff from the 2050Today members, researchers, local and federal government representatives and implementing partners. They enable the **exchange of best practices and challenges**, the implementation of common projects and the evaluation of results achieved. All the 2024 working group meetings were organized at a member's premises. We warmly thank all the members that kindly hosted one (or more) working groups this year.

### 2.1 Energy

The energy working group met twice in 2024: in May at the Foundation for Buildings for International Organizations (FIPOI) and in October at the International Labour Organization (ILO).

**At the first session**, discussions mainly focused on how to enhance energy efficiency and reduce carbon emissions within International Geneva, where energy consumption accounted 21% of the total greenhouse gas emissions identified for 40 institutions. The heating of buildings, over 80% of which is fueled by fossil fuels, is the main source of these emissions. While electricity also accounts for a large proportion of emissions, installing solar panels can reduce this impact by 2.6 times. Currently, only 1% of the electricity consumed by these institutions is from solar panels.

FIPOI presented its energy management tool for their real estate portfolio, allowing detailed tracking of building energy performance and identification of areas for improvement. They also presented an innovative energy efficiency project which, through a people-counting system, has reduced the annual electricity consumption of one of their International Conference Centre's auditoriums by 67%.

Several institutions are undertaking renovations and efficiency improvements, such as facade and window renovations, LED installations, and heat recovery projects. Additionally, multiple institutions plan to **connect to the "Génilac Chaud" system to reduce heating-related emissions.**

EPFL presented the Biosolar Roofs project, which involves **installing green roofs and photovoltaic panels** to contribute to carbon sequestration and renewable energy production. The institutions of International Geneva were invited to participate in this project, thereby offering them the opportunity to engage in an innovative solution.



*The autumn session of the Energy WG hosted by the International Labour Organization*

**At the second session**, participants discussed about practical solutions for reducing energy consumption and emissions across International Geneva.

ILO shared its impressive progress in energy management, including a 22% reduction in electricity consumption and a 44% decrease in gas usage since 2019. These results were achieved through concrete measures such as the installation of LED lighting, triple-glazed windows, and intelligent energy management systems. Future projects include the installation of solar panels, expected to save 27 tons of CO<sub>2</sub> annually, and a **planned connection to the GeniLac thermal network, which could further reduce emissions by 550 tons per year.**

The Canton of Geneva presented its CHF 500 million subsidy program, designed to support energy renovation projects. These subsidies can be used for building insulation, heat pump installations, and connecting to thermal networks. Institutions were encouraged to explore these opportunities, which align with the Canton's ambitious Energy Master Plan aimed at reducing reliance on fossil fuels and enhancing energy efficiency.

This second session also featured SIG's Eco21 program, which offers tailored support to institutions seeking to reduce their energy consumption. A compelling case study from UNHCR demonstrated how Eco21's guidance enabled the optimization of energy use within their facilities, highlighting the tangible benefits of collaboration and expertise.



## 2.2 Mobility

The mobility working group met twice in 2024, in May at CERN and in October at the Center for Humanitarian Dialogue


**The first session** highlighted key mobility initiatives and challenges in International Geneva. Mobility accounted for 73% of total emissions from 40 institutions, totaling 50,132 tons of CO<sub>2</sub> in 2022, with air travel being the primary contributor. CERN presented its 2021-2025 environmental strategy, focusing on minimizing environmental impact, conserving energy, and developing eco-friendly technologies. Despite rising energy demands, CERN aims to limit electricity consumption increases to 5% and **reduce CO<sub>2</sub> emissions by 28% by 2025** (compared to the 2018 baseline year). CERN's detailed mobility action plan was presented, with over 50 initiatives and 17 key performance indicators.

During the roundtable discussion, institutions emphasized their commitment to reduce air travel by promoting train usage. Policies were being developed or already implemented to this end. Additionally, concrete measures included installing electric charging stations, increasing bike parking spaces, and implementing carpooling platforms. Emphasis was also placed on the importance of awareness and communication to encourage staff to adopt sustainable travel practices.

Additionally, a project aimed at quantifying the impact of International Geneva conferences and defining common mobility policies to reduce aviation emissions was introduced in collaboration with the MODUS Foundation.



*The villa hosting the Center for Humanitarian Dialogue, Parc Mon Repos, Geneva*



**At the second session,** discussions centered on advancing sustainable mobility across institutions.

The Canton of Geneva made a presentation on its sustainable mobility policy and highlighted the mobility challenges specific to the region, such as the 660,000 daily trips at the cantonal borders (+45% since 2000) and the fact that 51% of trips during the week in the Greater Geneva area are made by car. The Canton also showcased **its future investments in infrastructure:** 13 km of new tram lines, 80 km of cycling facilities, and improved cross-border and rail connections.

The Ecomobile Label was presented as a key opportunity for institutions to address these challenges. Designed to commit institutions to reducing transport demand, optimising travel practices and promoting sustainable solutions, the label already covers 45,000 employees and highlights the efforts made by institutions to reduce their mobility footprint.

A concrete example of implementing a mobility plan was presented by SIG, which **aims to achieve a 76% reduction in CO<sub>2</sub> emissions by 2050.** SIG highlighted practical measures already in place, such as the transition to electric vehicles, the launch of a carpooling platform, the installation of secure bicycle parking with charging stations, and public transport subsidies for employees. These initiatives serve as a clear demonstration of how institutions can effectively reduce their environmental impact while improving mobility options for their staff.

The meeting provided an opportunity for institutions to exchange on the challenges and needs related to mobility action plans. Key challenges included addressing air travel emissions, overcoming infrastructure limitations, and the lack of a unified carpooling platform. Institutions highlighted the need for better tools, resources, and collaboration to advance their mobility initiatives effectively.



## 2.3 Food



The Food Working Group met twice in 2024, in April at the United Nations Office at Geneva (UNOG) and in September at the Geneva Graduate Institute.

**The first session** delved into sustainable food practices in International Geneva, highlighting both innovative initiatives and shared challenges. The carbon footprint of food consumption across 40 institutions was analysed, revealing the significant CO<sub>2</sub> emissions from non-vegetarian meals and the potential for a unified "Food Guide Report" to standardize emissions measurements.

EPFL presented their comprehensive approach to transforming campus restaurant facilities, including the development of an extensive database of 7,500 products to assess environmental impact. Notable initiatives, such as the introduction of a mandatory vegetarian day, have led to a remarkable reduction in CO<sub>2</sub> emissions, and the implementation of advanced waste management systems has significantly reduced food waste per plate from 50g to 19.8g.

Participants had the opportunity to tour UNOG's cafeteria, where sustainable catering operations and waste management practices were detailed.

This collaborative session **emphasized the significance of shared knowledge and practices in advancing sustainable food practices** across International Geneva.



*Visit of the Geneva Graduate Institute cafeteria in September 2024*

**At the second session,** the Geneva Graduate Institute showcased its cafeteria's commitment to sustainability, achieving 55% vegetarian meal sales and implementing a monthly "100% Vegetarian Day" without any decline in overall sales. Local and seasonal sourcing are also promoted through partnerships with regional producers. The City of Geneva presented its Sustainable Food Charter, a framework defining ambitious yet achievable targets for sustainable food practices. Notably, in city school cafeterias, the Charter has enabled results such as 6.5% of food offer consisting of meat (well below the 10% target), **30% of regional ingredients, and 90% of seasonal and homemade food.** All results were achieved within existing budget constraints. These successes underscore the Charter's potential as a guide for Geneva's international institutions in transitioning to sustainable food systems.

## 2.4 Biodiversity



The biodiversity working group met once, in May 2024 at the United Nations Office at Geneva (UNOG).

UNOG presented their sustainable gardening plan for 2024-2028, based on extensive inventories of flora, insects, birds, and trees within UNOG's green spaces.

Various institutions shared their projects, such as internal pricing of emissions to finance biodiversity projects, the planting of fruit trees and the refurbishment of an old greenhouse that was no longer in use. **Collaboration opportunities** were discussed, with emphasis on joint tendering for biodiversity-related projects and pooling resources for conducting environmental studies.

The meeting showcased a diverse array of initiatives, ranging from the adoption of management and maintenance practices for green spaces to the introduction of measures aimed at enhancing the naturalness of habitats. This demonstrated the collective commitment of several institutions to minimize their impact on biodiversity.

The session featured a tour of UNOG's green spaces as well, showcasing their biodiversity initiatives.

## 2.5 Sustainable IT



The Sustainable IT Working Group met twice in 2024, in April at the International Telecommunications Union (ITU) and in October at the Chambre de commerce, d'industrie et des services de Genève (CCIG).

**The first session** explored Sustainable IT practices, providing insights into various initiatives and challenges. ITU presented its strategic plan for 2024-2027, focusing on universal connectivity and sustainable digital transformation. They discussed the estimation of emissions from the IT sector, e-waste management initiatives and their ITU-T Recommendation L.1480 on impact assessment of ICT solutions.

Agence LUCIE presented their certification solution aimed at helping organizations reduce their digital impact. The State of Geneva shared its Level 1 certification experience, emphasizing supplier engagement for a unified Sustainable IT approach in the public sector.

A roundtable discussion highlighted the utility of the Assessment and Action Plan Tool, assisting organizations in structuring their approach. **The need for a tool to calculate specific environmental IT footprints was also discussed.** The institutions expressed their commitment to addressing sustainable IT and striving for certifications. This collaborative session showcased collective efforts towards Sustainable IT practices, promoting common strategies and knowledge exchange.

**The second session** featured a webinar on the Swiss Benchmark Green IT initiative, a collaborative project in partnership with Mikuju. This initiative invited 2050Today member institutions to join the benchmark program, providing with an opportunity to evaluate their IT systems' environmental impact and implement plans to reduce their carbon footprint. Funded by the Federal Office for the Environment, the benchmark offers organizations a free, structured and accessible way to participate in sustainable IT practices.

During the meeting, discussions also **focused on innovative strategies for integrating sustainability into IT governance** and leveraging collaborative tools to minimize digital systems' environmental impact. Institutions shared insights into their challenges and successes, such as CCIG's focus on hardware optimization and EPFL's efforts toward robust IT systems. Additionally, the group addressed emerging challenges in AI and data management, emphasizing the importance of awareness and governance to reduce resource consumption.



## 2.6 Waste Management

The waste management working group met twice in 2024, in April at the Geneva Graduate Institute and in October at the UN Refugee Agency (UNHCR).

**The first session** showcased promising initiatives and common challenges in International Geneva. Waste accounted for 1% of the total greenhouse gas emissions identified for 40 institutions of International Geneva, or 488 tons of CO<sub>2</sub> equivalent in 2022. Discussions highlighted the **need to integrate recycling benefits into future assessments** for a more accurate environmental impact.

The Graduate Institute presented its waste management awareness program for new students and student research comparing urban waste management in Geneva and Kisumu (Kenya). The study revealed Geneva's significant improvements in water quality due to advanced wastewater treatment, while Kisumu faces severe eutrophication issues and a lack of comprehensive waste collection, leading to pollution and biodiversity threats. In 2022, the recycling rate in the city of Geneva was 38.7%. In 2019, surveys indicated that 55% of recyclable waste was still ending up in Geneva's trash bins.

A roundtable discussion revealed diverse waste management practices among institutions, such as CERN's sorting stations and UNOG's organic waste dehydration system. Participants expressed interest in further collaboration and support, identifying the 2050Today assessment tool and SIG waste audits as valuable resources for action planning. This meeting fostered knowledge sharing and collaboration, aiming to enhance waste management practices across International Geneva.



*Autumn session of the Waste Management WG at UNHCR*

**The second session** began with a visit to UNHCR's waste management facilities. UNHCR highlighted key achievements, including a 56% recycling rate at its headquarters, with a target of reaching 80%. Innovative initiatives were showcased, such as the retrofitting of 400 desk lamps with energy-efficient LEDs and the removal of individual office bins in favor of centralized recycling stations.

The canton of Geneva presented the state of progress of its future law on waste management, which should be adopted in 2025. The presentation gave institutions an overview of the planned regulatory changes, including mandatory waste sorting for all type of institutions and public administrations. Participants also had the opportunity to discuss various waste management challenges with the canton, such as the practical implementation of the sorting requirements and the detailed provisions for plastic packaging and other materials outlined in the new law.

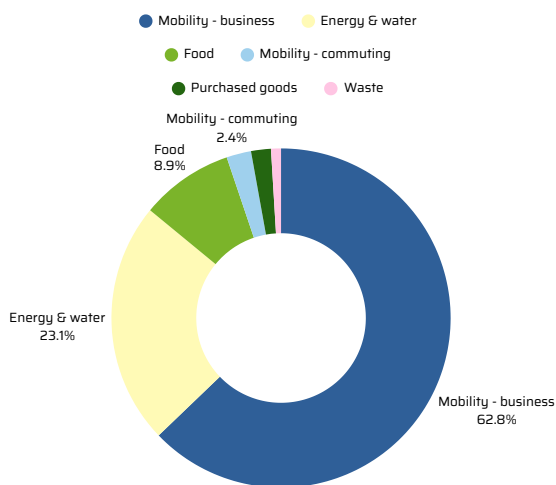
**An awareness workshop led by EcoLive** provided interactive training on waste reduction and sorting. The session highlighted subsidized training programs and practical tools available to institutions in the Canton of Geneva, offering actionable steps to enhance waste management practices.

This session also provided an opportunity to present the progress made by institutions in defining their action plans and to exchange views on the challenges and resources needed to advance both the development and the concrete implementation of these plans.

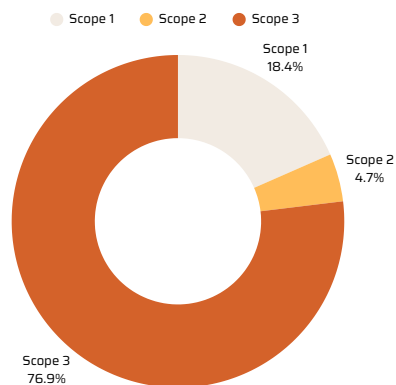
# 3. CARBON FOOTPRINT

For the fifth consecutive year, 2050Today supported its members in calculating the carbon footprint of their activities. In 2024, **41 institutions**, representing a total of **10,938 employees** (FTE), benefited from this service. For these institutions, a total of **36,820 tCO<sub>2</sub>-eq** was identified for their 2023 activities, averaging 3.4 tCO<sub>2</sub>-eq per employee.

GHG Emissions per category (tCO<sub>2</sub> and %)



GHG Emissions per scope (tCO<sub>2</sub> and %)



As in previous years, greenhouse gas (GHG) emissions related to professional **mobility (including hotel nights) represented the largest category of emissions**, accounting for approximately 63% of total emissions. This also explains the high proportion of Scope 3 emissions (77%). The second largest category was building energy consumption, which accounted for 23% of total emissions.

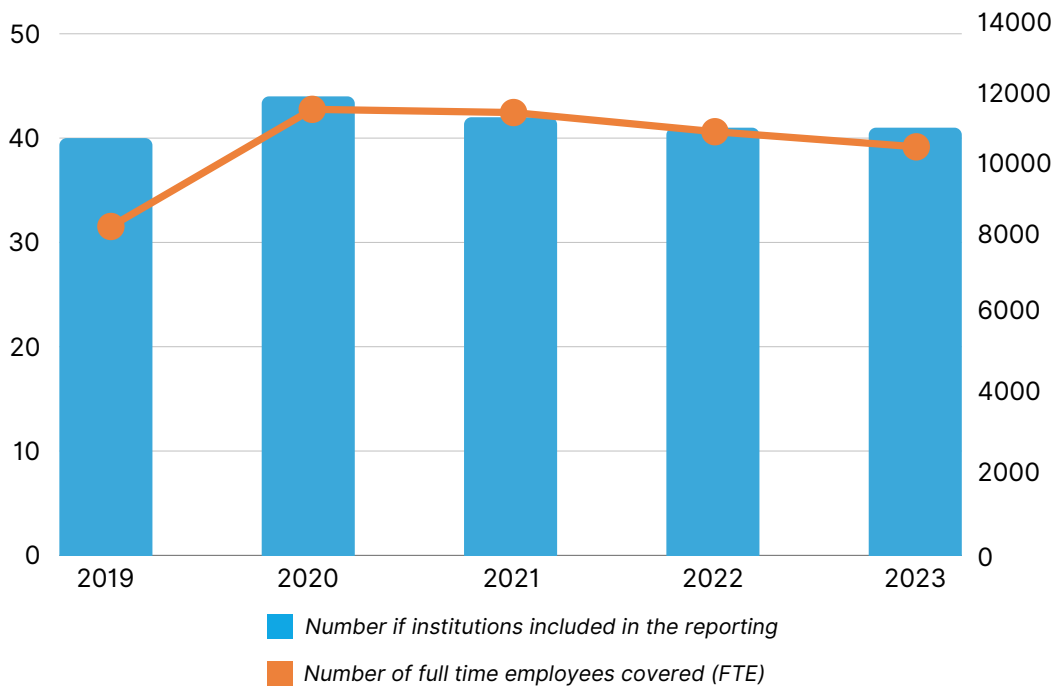
All members' carbon footprints are available on the 2050Today website: [2050today.org](https://2050today.org)

The total GHG emissions calculated over the years are not directly comparable and do not allow for conclusions about trends in greenhouse gas emissions for International Geneva. This is because not all institutions participate in the inventory each year, and the data boundaries also vary over time. Since 2019, **between 40 and 44 institutions have participated annually**, with varying employee coverage each year. **A total of 59 different institutions have performed at least one carbon footprint assessment** using the services and tools provided by 2050Today.

Only an individual analysis of the participating institutions' carbon footprints over the years can accurately track the evolution of an institution's emissions and draw meaningful conclusions.



## Participating Institutions and FTEs in 2050Today Annual Inventory



The 2023 inventory followed the same methodology and scope developed by 2050Today for previous reports, based on the GHG Protocol. More information can be found on the [2050Today methodology page](#).

The emission factors used to convert activities into CO<sub>2</sub> equivalents were revised and updated, particularly for electricity. Using the location-based methodology for electricity emission factors, adjustments were made following UNIGE’s [Horocarbon](#) methodology. This resulted in a reduction from 96.1 gCO<sub>2</sub>-eq/kWh in 2022 to 50.8 gCO<sub>2</sub>-eq/kWh in 2023. The main reasons for this reduction are as follows:



21.7% increase in Swiss hydropower production



-36.8% hard coal and -24.8% lignite decrease in electricity import



Improved availability of French nuclear power plants and its electricity exportation



Increased renewable energy production in Switzerland and Europe

As in previous years, the list of emission factors has been shared with 2050Today members. To ensure the reliability, accuracy, and regular updating of carbon footprint assessments, 2050Today met twice in 2024 with its Scientific Committee.

# 4. TRAINING AND EVENTS

## 4.1 United for zero emissions, the 2050Today Charter explained - 27 February 2024



Organized in collaboration with the permanent Mission of Switzerland and the World Meteorological Organization, with the support of the Geneva Environment Network, this event presented the 2050Today Charter, and how it can support signatories in making their own contribution to achieving the needed decarbonization and be in line with international recommendations.

At the occasion of this meeting, 245 entities of international Geneva - including permanent Missions, international Organizations and civil society entities – have been formally invited to join the climate action endeavours and sign the 2050Today Charter.

About **50 entities**, of which 24 permanent Missions and 9 international Organizations, attended the event, totalling approximately 100 participants, including 25 people online.

## 4.2 Geneva Gender Debate - 5 March 2024



Women and girls are disproportionately impacted by climate change and environmental degradation. Yet, there is a substantial gap between women's particularly high stake in environmental conservation and their ability to act on it. While women around the world have emerged as important leaders for environmental protection, climate justice and an ecological transition, they remain significantly underrepresented in

institutions forming environmental policy from community and national governance structures to international fora.

It is in this context that the International Gender Champions and the Geneva Graduate Institute hosted their 5th Geneva Gender Debate. In the tradition of the Oxford Union Debates, the motion debated on this occasion has been: **“This house believes that 50:50 representation of men and women should be made mandatory for all environment-related multilateral conferences, negotiations and fora.”**

Jean-Pierre Reymond, Executive Director of 2050Today participated as debater arguing in favor of the motion, along with Adriana Quiñones, Deputy Head of UN Women Geneva Office. On the other side and against the motion, were Ambassador Nadia Theodore, Permanent Representative of Canada to the WTO in Geneva, and Ambassador Matthew Wilson, Permanent Representative of Barbados to the UN and other International Organizations in Geneva.

Overall, around 90 people attended in-person, and an additional 25 online. The winning team, according to the votes of the audience, has been the one in favor of the motion.



### 4.3 Vegetarian cooking workshop - 13 March 2024



Jointly organized with the Geneva Graduate Institute, this vegetarian cooking workshop was generously offered by Association Ma-Terre and Ferme de Budé, as part of the Sustainability Week 2024 (11-16 March).

The objective of the workshop was **the promotion of low-carbon and short supply chain food to encourage the reduction of our food-related carbon footprint.**

The event included an introductory message by Jean-Pierre Reymond, Executive Director of 2050Today; a visit to the urban farm of Ferme de Budé, to learn about its history, development and importance as ambassador of a sustainable agricultural sector; and a vegetarian cooking workshop followed by a lunch.

### 4.4 Climate voices: leading the call for change - 15 March 2024



"**Climate Voices: Leading the Call for Change**" has been held jointly with Phenomenal Women Global and International Gender Champions, with support from Open Geneva as part of the 2024 Open Innovation Festival. The event proposed two dialogue sessions gathering international experts, as well as youth, senior, and gender activists.

**In the first session**, on climate justice, speakers passionately stressed the crucial importance of linking climate action to **basic human rights**, sparking a strong call for immediate action. The dialogue also highlighted the power of grassroots movements, underscoring the pivotal role of local communities in challenging governments and institutions to implement meaningful policies and initiatives. Protecting and empowering vulnerable groups such as seniors, women and youth emerged as a central theme, sparking discussions to address the multifaceted impacts of climate change on marginalized communities.

**In the second session**, on gender equality, attendees celebrated the remarkable achievements of women leaders in the climate activism sphere, while also acknowledging the persistent barriers they face in the male-dominated landscape. There was a unanimous call for greater representation and active participation of women in decision-making processes related to climate policy and action, recognizing the invaluable contributions of diverse perspectives in driving effective and equitable solutions. **Empowering women through leadership roles**, capacity building initiatives and inclusive policy frameworks emerged as pivotal strategies for fostering gender equality and advancing climate resilience on a global scale.

Jean-Pierre Reymond, Executive Director of 2050Today, opened the event with introductory remarks highlighting the unequal way in which climate change affects countries, people and communities, exacerbating existing vulnerabilities and problems at all levels.

## 4.5 Workshop: How to measure greenhouse gas emissions - 11 and 18 April 2024

2050Today organized two workshops to the attention of students of the UNIGE Master in Innovation, Human Development and Sustainability, giving them the opportunity to **learn about the GHG Protocol methodology**, including the adaptation of it to the 2050Today circumstances. Data for three case studies was provided for



analysis and students were invited to answer specific questions and present their results at the second session. 2050Today encouraged lively discussions, ensuring participants grasped the significance of GHG emissions sources and how a large range of actions can contribute to the emissions' reduction.

The individual carbon emissions calculator was presented at last, simulating the calculation of yearly emissions at the individual level.

A certification has been issued to the **31 students** who successfully completed both sessions. The objective of the workshops was also to train students for future internships among 2050Today member institutions in need of staff well informed in terms of GHG emissions and carbon footprint calculation.



## 4.6 Bike to work - May & June 2024



Since 2005, bike to work has become Switzerland's biggest cycling and health promotion initiative, and it is now an important part of workplace health management for many companies. **Every year in May and June, more than 100,000 employees go to office by bike**

for as many working days as possible and win attractive prizes. 2050Today encouraged its members to take part to the challenge and, in 2024, 16 institutions participated, sending a strong and positive message in favor of active mobility in Geneva.

At national level, the State of Geneva was the second most successful institution with 396 teams and CERN the sixth with 276 teams.

## 4.7 Zero waste and sustainable cooking Master class - 24 June 2024



A Master class for chefs, focusing on **zero waste and sustainable cooking**, has been organized in collaboration with Association ma-terre and with the participation of coach Fiorina Mugione and chef Lorenzo Dal Bo, owner of the zero-waste restaurant Brenso in Zurich.



The workshop included a theoretic part with the presentation of the UN Sustainable Development Goals and the major challenge of waste management posed by the increasing urbanization. The participants engaged in discussions on how to achieve a holistic, interconnected approach to food service management, emphasizing the importance of sustainability, staff commitment and customer awareness.

During the more practical part, the participants worked in groups and did their best to **apply the five zero waste principles** (refuse, reduce, reuse, recycle, ferment/compost) while working on different parts of a menu composed of appetizer, starter, main course and dessert. Chef Lorenzo remarked that second-choice ingredients (provided on purpose for the exercise) should have been used first, to avoid food waste. He also encouraged Chefs to improve communication in order to avoid duplication and distribute more efficiently the available ingredients in the preparation of a menu.

A survey was run at the end of the event and the results show that participants found the workshop significantly useful in terms of adopting a holistic approach to sustainability. Among the 15 participants, 10 were Chefs for Eldora at the Global Health Campus and the workshop represented their prize for winning the International Geneva prize at the 2023 À Table! competition. Other participants were from the Permanent Mission of United Kingdom of Great Britain and Northern Ireland, from the Geneva Graduate Institute, or non-members.

Eldora Communications team realized a video souvenir of the event.

## 4.8 Visit of SIG Verbois Dam and Solar III power plant - 15 October 2024

2050Today, in cooperation with SIG and TPG, organized a visit of the Verbois Dam and adjacent Solar III solar plant. 25 participants from various international Geneva institutions as well as local authorities took part to the visit. The site, operated by SIG, is Canton Geneva's largest source of electrical energy production.



Verbois dam's power capacity is 100MW and annual production is 466GWh. **It is Geneva's principal hydroelectric structure, covering 15% of local consumption.**

Solar III was the largest solar power plant in Switzerland when it was commissioned in 2005. The 6000 solar panels occupy a ground surface of 16'000 m<sup>2</sup> (equivalent to more than two football fields). Its total power capacity is 1MW, and produces 1GWh per year, covering the consumption of 300 Geneva households.

To reach the venue, TPG kindly made available an electric minibus service from Russin train station to the Verbois site and return.

## 4.9 À table! - From 23 September to 20 October 2024



À Table! is a whole month dedicated to **promoting sustainable eating in restaurants and cafeterias in the canton of Geneva.** One of the main attractions of this awareness-raising month is the sustainable restaurant competition.

The opening event, held on 12 September 2024 at Ferme de Budé, brought together organic farms and restaurants in a speed-dating format, fostering collaboration and promoting sustainable food sourcing.

2050Today supported the 2024 edition of À Table! by awarding the "International Geneva" prize, worth 2'500 CHF, to recognize efforts by International Geneva restaurants. In 2024, the prize was awarded to CERN's Restaurant 1. Other 2050Today member restaurants taking part in the competition included: International Labour Organization, Geneva Graduate Institute, UN Refugee Agency, United Nations Office at Geneva and World Trade Organization.

## 4.10 Re:Pas Challenge - 7-18 October 2024



2050Today participated to the organization of RE: PAS challenge, an initiative by the Canton of Geneva and the City of Lausanne, in partnership with ZeroWaste Geneva and Clés du Climat Genève. RE: PAS challenge aims at reducing single-use

plastics and food packaging by encouraging the use of reusable containers and cups for takeaway meals and drinks. **This initiative not only promotes waste reduction, but also the creation of a sustainable circular economy on a daily basis, through daily habits.**

2050Today members who took up the challenge include FIPOI, France permanent Mission, The Graduate Institute Geneva, Health Diplomacy Alliance, HES-SO Geneva, Kofi Annan Foundation, Office of the High Commissioner for Human Rights, PATH, UNIGE, United Nations Office at Geneva and World Intellectual Property Organization.

Overall, 510 participants and 70 organisations took up the challenge this year in the Canton of Geneva, collectively avoiding nearly 10,000 single-use containers and 145kg of waste in 12 days.



## 4.11 Visit of Infomaniak's new data center - 5 November 2024



Participants had the opportunity to visit Infomaniak's newest data center with Boris Siegenthaler, Infomaniak's Founder and Chief Strategy Officer. About 20 representatives from various international Geneva institutions as well as local authorities took part to the visit.

Located in a residential area of Canton Geneva, this data center represents a global innovation: it **recovers 100% of the electricity** used to heat 6,000 Minergie A households a year via a district heating network, it has no impact on the landscape as it is built in the basement of a participatory and eco-responsible cooperative, and the facility does not require additional water or air conditioning to be cooled. To this date, it's Switzerland's most environment-friendly data center, with a power usage efficiency (PUE) rating of less than 1.1.

The facility has been officially inaugurated in January 2025 in the presence of the public authorities and key project stakeholders.

# 5. MEETINGS

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## 5.1 High-Level Meeting



*3rd 2050Today High-Level meeting on 4 December 2024 at WMO*

**The 3rd High-Level Meeting of 2050Today** took place on 4 December 2024 at the World Meteorological Organization, who kindly agreed to jointly hold the event. Over 200 people participated, including ambassadors, directors, secretaries-general, and other colleagues of 2050Today members, as well as representatives of the Swiss Confederation, the State of Geneva, the City of Geneva, the University of Geneva (UNIGE) and Services Industriels de Genève (SIG).

Closely following COP29 in Baku and Geneva City's Climate Week, the High-Level Meeting provided the perfect occasion to adopt International Geneva's climate action plan, composed of **specific roadmaps endorsed by 37 institutions to reach climate objectives** in accordance with the Paris Agreement and in line with Switzerland, State and City of Geneva's climate strategies. With clear milestones set for 2025, 2028, and 2030, these roadmaps represent a laudable collective effort to tackle the pressing environmental challenges of our time.



The event also convened a high-level panel on climate vulnerabilities, with the participation of Celeste Saulo, Secretary-General of the World Meteorological Organization, Nada Al-Nashif, United Nations Deputy High Commissioner for Human Rights, Andrew Harper, Special Advisor of the High Commissioner on Climate Action, UNHCR – the UN Refugee Agency and Maria Neira, Director of Environment, climate change and health at the World Health Organization. These four pivotal international organizations shared insights from their own areas of expertise on how the global climate crisis exacerbates the already arduous health, human rights, and population displacement challenges.

A humorous lecture-show on eating habits by Philippe Lignon concluded the event.

## 5.2 Committee of the Parties Meetings

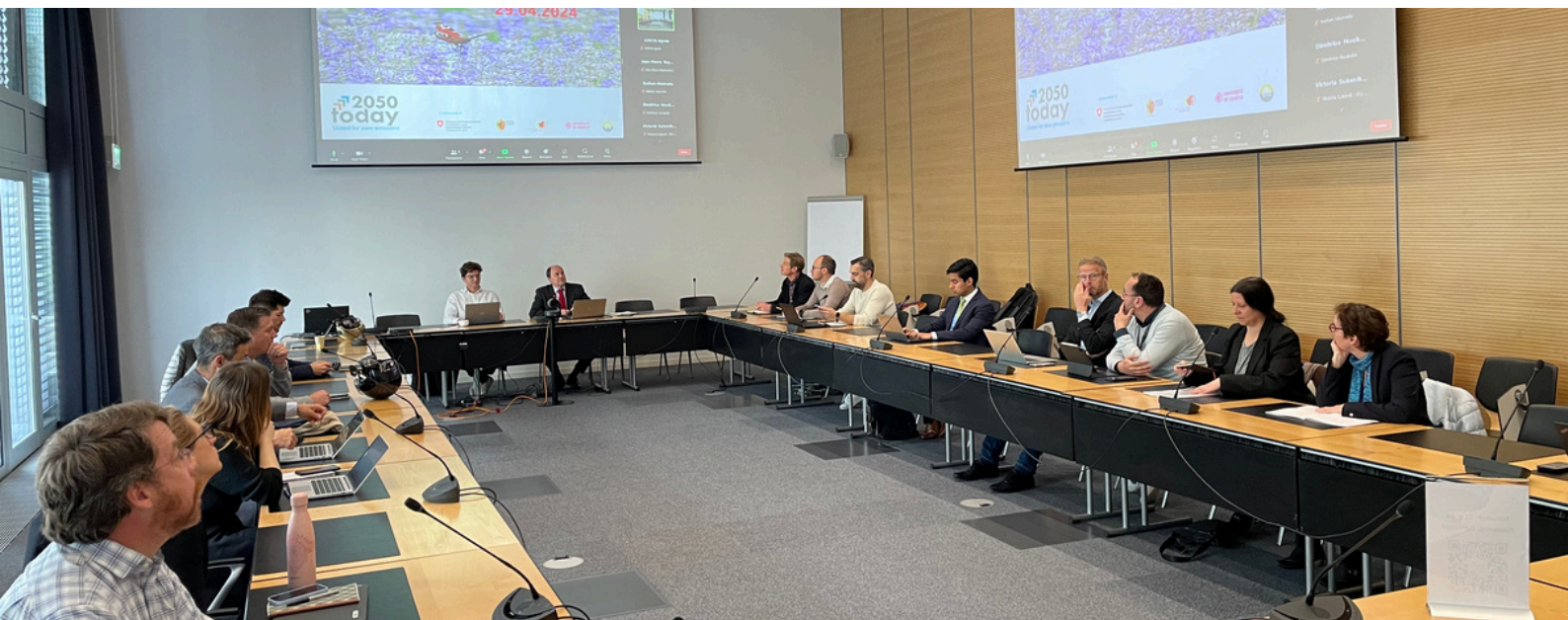


*Committee meeting in the presence of the Parties' political leaders, 16 April 2024*

The 2050Today Committee of the Parties met 8 times in 2024. This higher than usual number of meetings was due to organizing the extension of the Collaboration Convention for another three years (2025-2027), which was officially approved by the Parties' political leaders on 16 April 2024. **The Parties agreed to not only extend the collaboration but also to increase funding to strengthen 2050Today's activities**, including the support that can be provided to the implementation of the action plans but also the acquisition of new members, with a potential opening to the private sector.

The Committee of the Parties, on the recommendation of 2050Today, also agreed to enhance coordination and communication on the respective sustainability initiatives, in order to timely include International Geneva in such activities. The invaluable advice and support of the Parties has been highly appreciated throughout the year.

## 5.3 Focal Points Meetings



*Focal Points meeting, April 2024*

The Focal Points of the 2050Today members are invited twice a year (spring and autumn) to take stock of the situation based on the results of the working groups and carbon footprint assessments. The aim is also to **collectively evaluate and define priority actions and joint projects**. The focal points act as intermediaries between their management and 2050Today, and vice versa.

**The spring meeting (April)** saw discussions on the 2022 carbon footprint report, the 2023 inventory and the new carbon footprint online platform developed with GRID. A recurring remark underlines the difficulty in obtaining key data from the real estate agencies and the Focal Points mostly expressed their appreciation for the new platform dashboard, allowing to extract a report for internal communication but also to consult other institutions' results for reference. Four common projects were presented, including the pilot installation of photovoltaic panels on roofs, a study on travel for conference participation, a carpooling platform and the creation of more bike stations in International Geneva.

**At the autumn meeting (September)**, Damien Gummy, Director of the Climate, Direction and Sustainability Section at the Territory Department, and Julie Schnydrig Kettenacker, Director of Agenda 21 – Ville durable, presented the respective climate strategies of Geneva Canton and City and addressed all questions and concerns. At the same occasion, an overview of the preliminary results of the 2023 carbon footprint was presented, and upcoming working groups meetings and action plan establishment deadlines were shared and reminded.

# 6. COMMUNICATION

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## **Website**

The 2050Today website has kept evolving throughout 2024 and remains an important communication tool and information repository for the initiative. Besides the documents that compose the 2050Today Charter, including the assessment and action plan tools for each thematic sector, the website has now a list of members indicating when they signed the Charter and when they adopted their action plan. The specific climate goals, the actions and the carbon footprints are also available on the website for each member.

22'980 new users consulted the website in 2024. It represents an important increase in comparison with new users in 2023 (8'398) and 2022 (3'916).

## **LinkedIn**

2050Today's LinkedIn account has been used in 2024 to communicate about activities and relay relevant information. At the end of the year, it counted 757 followers – more that the double compared to 2023. 139 posts were published in 2024.

## **Newsletter**

The newsletter has represented a very useful tool in 2024 to provide members and other subscribers with information on activities and climate action in Geneva. They have been sent out regularly for a total of 21 newsletters. The main ones are available on the [contact page of the 2050Today website](#). The newsletters reached every time over 1600 contacts.

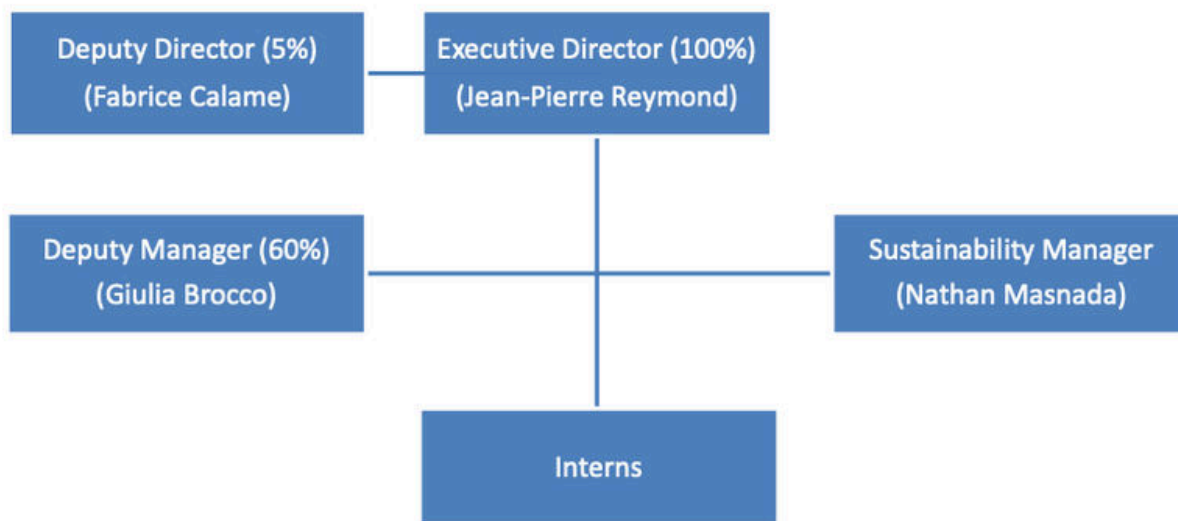
# 7. PERSONNEL

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In 2024, 2050Today hired its Sustainability Manager, who took up its functions from 1st March 2024. Two students from the Master in Environmental Sciences (UNIGE) supported the 2050Today activities from February to April as extra- and intra-curricular interns.

In April 2024, the Parties of 2050Today approved to dedicate additional funding for hiring a Development and Communications Manager in charge of strengthening action with international Geneva with a potential opening to the private sector. The hiring process started in autumn and the future collaborator is expected to start in 2025.

Organization Chart 2024  
2050Today – Executive Team





## 8. FINANCE

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In 2024, the 2050Today account continued to be hosted by the University of Geneva and administered in accordance with the rules and practices of the University's finance department. The detailed annual accounts for 2024 can be found below.



Credits: Adam Najah



## Annual accounts - 2024

<b>Expenses</b>	<b>CHF 564,534</b>
<b>Activities</b>	<b>58,630</b>
Working groups	2,101
Events	3,691
Training	1,700
Carbon footprint calculators	29,187
Meetings	20,610
Communication	1,341
<b>Salaries</b>	<b>478,780</b>
Executive staff	134,780
in-kind: Executive staff	200,000
in-kind: General staff + UNIGE common services	132,000
in-kind: Representatives of the Parties	12,000
<b>Operating costs</b>	<b>27,124</b>
Travel	456
Office rental	26,455
Office supplies	213
<b>Revenue</b>	<b>CHF 564,409</b>
Canton of Geneva	100,000
City of Geneva	50,000
SIG	50,000
Swiss Confederation	15,000
Balance 2023	5,017
Revenue from events	392
in-kind: Executive staff	200,000
in-kind: General staff + UNIGE common services	132,000
in-kind: Representatives of the Parties	12,000
<b>Balance 2024</b>	<b>CHF -125</b>

# 9. 2050TODAY MEMBERS

## 62 institutions in 2024

\* Signatory institution of the 2050Today Charter

\*\*Signatory institution of the 2050Today Charter having adopted its climate action plan

### 25 Permanent missions

**Africa:** Morocco\*\*, Rwanda, Tunisia

**Americas:** Barbados\*\*, Chile\*\*, Costa Rica\*\*, Mexico\*\*

**Asia:** Israel

**Europe:** Andorra, Denmark\*\*, Finland\*\*, France (UN)\*\*, France (Disarmament)\*\*, Germany, Ireland, Italy, Monaco, Norway\*\*, Portugal, Slovenia, Sweden\*\*, Switzerland\*\*, United Kingdom\*\*, European Union\*\*

**Oceania:** Fiji

### 17 International organisations

**CERN** European Organization for Nuclear Research

**DNDi** Drugs for Neglected Diseases initiative\*\*

**GICHD** Geneva International Centre for Humanitarian Demining

**HD** Center for Humanitarian Dialogue\*\*

**ILO** International Labour Organization\*\*

**IOC** International Olympic Committee\*\*

**ITU** International Telecommunication Union

**OHCHR** Office of the United Nations High Commissioner for Human Rights\*\*

**UNAIDS\***

**UNDP** United Nations Development Programme, Geneva office

**UNEP / Europe** United Nations Environment Programme

**UNHCR** United Nations Refugee Agency\*\*

**UNOG** United Nations Office at Geneva\*\*

**UPOV** International Union for the Protection of New Varieties of Plants

**WHO** World Health Organization

**WMO** World Meteorological Organization\*\*

**WIPO** World Intellectual Property Organization\*

## 20 Academia and civil society entities

**CAGI** International Geneva Welcome Centre\*\*

**CCIG** Geneva Chamber of Commerce, Industry and Services\*\*

**Diplomatic Club of Geneva**\*\*

**EBU** European Broadcasting Union\*\*

**EGPAF** Elisabeth Glazer Pediatric AIDS Foundation (Geneva office)\*

**EPFL** Swiss Federal Institute of Technology Lausanne\*\*

**FIPOI** Foundation for Buildings for International Organizations\*\*

**Fondation pour Genève**\*\*

**Geneva Call**\*

**Geneva Graduate Institute**\*\*

**HDA** Health Diplomacy Alliance\*

**HES-SO** Geneva\*\*

**ICVA** International Council of Voluntary Agencies\*\*

**ISHR** International Service for Human Rights

**Kofi Annan Foundation**\*\*

**NRC** Norwegian Refugee Council, Geneva Office\*\*

**Open Geneva**\*

**PATH** Foundation for Appropriate Technology in Health\*\*

**UNIGE** University of Geneva\*\*


**WCC** World Council of Churches\*\*



# 2050 today

United for zero emissions

A partnership of

 Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

  
REPUBLIQUE  
ET CANTON  
DE GENÈVE  
POST TENEBRAS LUX

  
VILLE DE  
GENÈVE

 UNIVERSITÉ  
DE GENÈVE

