

2050 today

United for zero emissions

ANNUAL REPORT 2022



Table of contents

| | |
|---|-----------|
| INTRODUCTION | 4 |
| 1. CARBON FOOTPRINT | 5 |
| 2. WORKING GROUPS AND SECTORS OF INTERVENTION | 6 |
| 2.1. ENERGY..... | 6 |
| 2.2. MOBILITY..... | 6 |
| 2.3. FOOD..... | 7 |
| 2.4. BIODIVERSITY | 7 |
| 2.5. SUSTAINABLE IT..... | 7 |
| 2.6. WASTE MANAGEMENT | 8 |
| 2.7. HUMAN FACTOR | 8 |
| 3. EVENTS | 9 |
| 3.1. GENEVA TRIALOGUE ON OPEN INNOVATION FOR EDUCATION – 17 MARCH 2022..... | 9 |
| 3.2. EUROPEAN ENERGY TRANSITION CONFERENCE – 31 MAY - 2 JUNE 2022 | 9 |
| 3.3. 8 TH FESTIVAL ALTERNATIBA LÉMAN – 3 SEPTEMBER 2022 | 9 |
| 3.4. LA NUIT EST BELLE – 23 SEPTEMBER 2022 | 10 |
| 3.5. URBAN THINKER CAMPUS – 31 OCTOBER 2022..... | 10 |
| 3.6. THE WHEEL OF PLANETARY ECO-CHALLENGES – 16-18 DECEMBER 2022..... | 10 |
| 4. MEETINGS | 11 |
| 4.1. HIGH-LEVEL MEETING | 11 |
| 4.2. COMMITTEE OF THE PARTIES MEETINGS | 11 |
| 4.3. FOCAL POINTS MEETINGS | 12 |
| 5. COMMUNICATION..... | 13 |
| 6. PERSONNEL | 14 |
| 7. FINANCE..... | 15 |
| 7.1. ANNUAL ACCOUNTS | 15 |
| 7.2. FUNDRAISING | 15 |
| 2050TODAY MEMBERS – 65 INSTITUTIONS | 17 |

The year 2022, by the numbers

65 MEMBER INSTITUTIONS

40 CARBON FOOTPRINT REPORTS

12 SESSIONS WITH OUR 6 WORKING GROUPS

6 EVENT PARTICIPATIONS

1 GLOBAL FUNDING PROPOSAL

Introduction

We are pleased to release the first 2050Today annual report, following the signing of the Cooperation Agreement establishing 2050Today - the Geneva Climate Action Forum - as a separate entity.

The institutionalization of 2050Today has provided a sustainable structure for this climate action initiative for international Geneva. The strengthened cooperation between the Constituent Parties - the Swiss Confederation (Federal Department of Foreign Affairs), the Republic and Canton of Geneva, the City of Geneva, the University of Geneva and the Services Industriels de Genève (SIG) - has provided a new dynamic to the climate initiatives commenced by the Permanent Mission of Switzerland to the United Nations and other international organizations. In addition, the collaboration with University of Geneva has opened a new field of intervention with the development of applied research projects enabling international Geneva to benefit from UNIGE's expertise in reducing greenhouse gas emissions. National and local efforts developed in Switzerland through climate strategies and plans can now be better integrated into the multilateral ecosystem of Geneva and, conversely, the actors of international Geneva can interact more with the partners of their host state. It is the vocation of 2050Today to converge within this forum the climate actions of all - institutions or individuals - to increase the impact of the efforts undertaken and accelerate this ecological transition so necessary and urgent.

We would like to thank all 2050Today members for their much-appreciated contributions throughout the year and in particular their participation in events and thematic working groups. 2050Today is a climate action community where each member's contribution and participation can make a difference in advancing the decarbonization of international Geneva.

The cooperation of the working groups with the respective departments and offices of the constituent Parties has been excellent and we express our deepest appreciation for their fruitful contributions throughout the year.

This report provides a brief overview of our activities in 2022 and the implementation of 2050Today in its new architecture. We hope you enjoy reading it.

On behalf of 2050Today



Jean-Pierre Reymond
Executive Director

1. Carbon Footprint

2050Today has been conducting its members' annual carbon footprints since 2019. This means it already has three consecutive years of data on its members' greenhouse gas (GHG) emissions. 2050Today's inventory includes GHG emissions under the operational control of members based in International Geneva. In other words, only operations carried out or financed directly on the Geneva site are covered (except for EPFL and the International Olympic Committee). In accordance with the Green House Gas Protocol, the 2050Today inventory includes all GHG emissions from Scopes 1 and 2 (energy consumption). It also covers Scope 3 GHG emission categories such as mobility, new equipment, waste, food and hospitality. Scope 3 GHG emissions are not exhaustive.

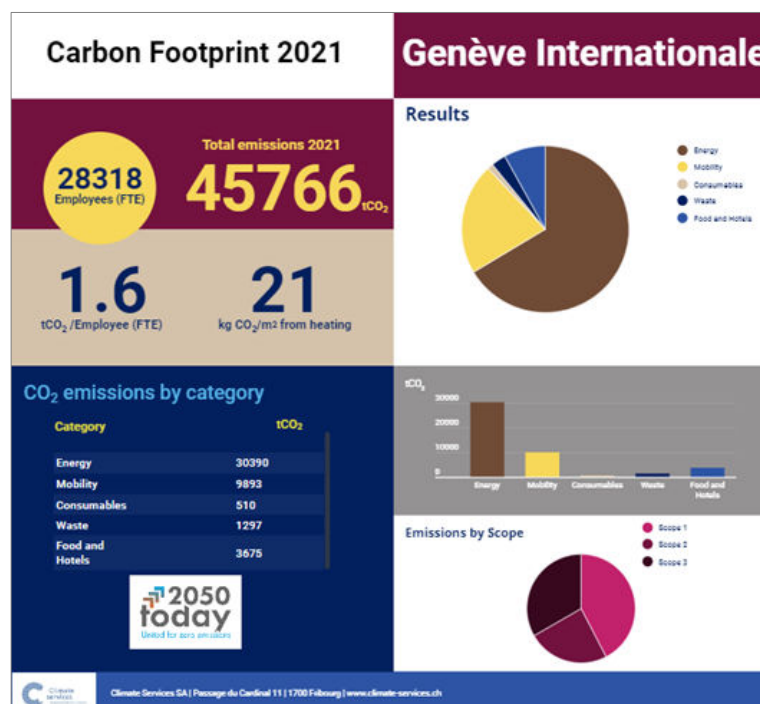
In 2022, 40 members were supported by 2050Today to complete their carbon footprint for their 2021 operations. In comparison, for 2019 and 2020, 40 and 46 assessments were completed, respectively. The average rate of completed indicators for the 2021 assessments was 46%.

In total, 45,766 tCO₂-equivalents have been identified in 2021 as emissions from 2050Today members with a total of 28,318 employees, equivalent to the emissions of 4,160 residents of Geneva over one year.

The average carbon footprint per full-time equivalent (FTE) changed from 5.1 tCO₂-eq. in 2019, to 2.1 tCO₂-eq. in 2020 and to 1.6 tCO₂-eq. in 2021. The large decrease in 2020 and 2021 is due to the Covid-19 pandemic. In comparison, the annual carbon footprint of a person living in Geneva is about 11 tCO₂-eq. These values are not directly comparable since they are derived from different measurements and periods. The first one takes into account the individual emissions linked to the professional activity of a member's staff, while the second one takes into account all the emissions resulting from professional and private activities (pandemic excluded).

For 2021 and on average, GHG emissions related to energy consumption for buildings were the most important. They represented 66% of total emissions. This explains the high proportion of Scope 1 emissions (42%). The second largest category was mobility, which accounted for 22% of total emissions. Food and overnight stays in hotels accounted for 8% of emissions.

All members' carbon footprints are available on the 2050today.org website.



2. Working groups and sectors of intervention

Thematic working groups are the framework for developing and promoting thematic sectoral interventions among members. The groups bring together the relevant staff of the members (permanent missions, international organizations, civil entities), researchers, the relevant departments of local and federal authorities, and implementing partners. They also allow for the exchange of good practices, the resolution of implementation problems, and the evaluation of the results obtained by the members. **In 2022 three new working groups were established: Biodiversity, Human Factor and Sustainable IT.** In total, 12 sessions were held. On average, the participation was between 10 and 15 members per session with a stronger representation of international organizations who have more dedicated staff. The work accomplished is regularly reported to all members through the Working Group Digest. In addition, all the sessions' reports and presentations are available on the 2050Today Connection Network, an intranet accessible through the website.

2.1. Energy

The energy working group met twice (March and June). First, SIG presented their programs: eco-21, GeniLac, GeniTerre (district heating network) and Solariis Direct (solar photovoltaic proposal). **The common project "100 sustainable buildings for international Geneva"** as a global framework for reducing emissions in the energy field was developed within the group.

On average for the years 2019 to 2021, **50% of the GHG emissions of the 2050Today members came from the energy used in the buildings.** To drastically reduce this value, 2050Today aims to transform the way members' buildings consume and produce energy so that they are no longer dependent on fossil fuels. To achieve this, three main themes were initially addressed:

- The first aims directly at **reducing the consumption of buildings** through renovation and optimization of their use;
- The second deals with how to **develop and increase the photovoltaic capacity** of 2050Today members to create a solar community. This new energy production can be generated on the roofs and facades of members' buildings;
- The third concerns the **connection of members' buildings to the Geneva district heating and cooling networks**, by extending the existing networks and facilitating the connection of buildings.

In cooperation with SIG, we have started elaborating an energy mapping of the 2050Today members' buildings, to define the scope of the study to be carried out for this common project. The results of the survey on the energy situation of the members' buildings showed that most of them did not have an energy strategy. To progress on the photovoltaic theme, **we have initiated a cooperation with HEPIA Geneva** in order to obtain a study of the photovoltaic potential of the roofs and facades of the buildings. A first evaluation identified a potential of 228'000 m² to install 45 MW of solar energy. We have selected HEPIA for this mandate to precisely identify the potential for each building with a specific data sheet to arouse the interest and participation of the owners.

2.2. Mobility

The Mobility Working Group met on two occasions (March and June) to define the parameters for the development of a common mobility roadmap that would allow each member to define its own mobility plan. This roadmap, developed in cooperation with the Canton, is at the heart of the joint project entitled New Mobility Paradigms.

The AVENUE / ULTIMO project developed by the TPG and UNIGE was presented. It consists in deploying on-demand public transport services, including **autonomous shuttles**. International Geneva

could be a potential deployment site. 2050Today has thus joined this project with the UNIGE research component. In addition, the results of a short survey on the mobility of members were presented, showing that car remained the preferred mode of commuting despite the measures taken by the institutions to encourage alternative modes of transportation. **An individual mobility plan for each institution, based on a common charter, was selected** as the next step to be developed in 2023. In cooperation with the Canton, the support of a mobility consultant, **Mobilidée**, was agreed upon after 2050Today examined the offers of different providers.

2.3. Food

The Working Group on Food met four times (March, September, October and November). 2050Today collaborated with Beelong on solutions for reducing the CO2 footprint, including the eco-score label. **The option of a food charter was chosen to establish a common frame of reference** for the 2050Today members, while taking into account their particularities. The charter would include priority themes for action regarding the products offered to the institutions' delegates and guests, as well as a series of specific criteria and monitoring indicators. **Beelong was selected as the service provider** and the development of the charter was initiated. A first version was presented to the group and successively readapted on the basis of discussions that took place during the group sessions. The content of the charter has evolved to include the expected commitments, the common objectives, the specific actions proposed and the target dates. Catering providers working on members' sites were invited to participate in the meetings. A coffee solution aimed at reducing the ecological footprint (Bean2Me) was presented for information. The sessions also provided an opportunity to discuss the various actions undertaken by members in their respective cafeterias or restaurants.

2.4. Biodiversity

Initially joint to the WG on Food, Biodiversity has become in 2022 a distinct group. It met on two occasions (March and September). UNIGE presented its research project to **increase members' contributions to the preservation of biodiversity and the improvement of ecosystem services on their land**. It was agreed to start with measuring the ecological infrastructure of members' land. With the support of UNIGE, this will involve three actions: increasing the contribution to suburban ecological infrastructure, developing nature-based solutions, and defining practical advice on how to contribute to biodiversity in the operations each institution. The results of the ecological infrastructure measurement will be available in early 2023.

2.5. Sustainable IT

The first meeting of this working group, **newly established in 2022**, aimed to present and explain digital sustainability in cooperation with the Institute for Sustainable IT - Switzerland (ISIT) and Agence LUCIE (France), which supports organizations wishing to become more digitally sustainable. ISIT and Agence LUCIE presented the different steps to improve the sustainability of information technologies. The **Charter for Sustainable Information Technologies** was highlighted: this charter proposes **five main commitments concerning the reduction of the environmental footprint of IT equipment and services, accessibility, ethical aspects, values and resilience**. To make progress in digital responsibility, ISIT and Agence LUCIE also indicated the possibility of labelling, allowing for a more sustained commitment with detailed parameters and indicators.

2.6. Waste Management

The Waste Management Working Group did not meet in 2022 due to lack of organizational capacity. **The cooperation has been renewed with the Canton** (Département du Territoire - Service de géologie sols et déchets), **and with SIG** (Service déchets et économie circulaire éco21) to develop similar activities to the waste management group of the Public Autonomous Establishments (EPA). 2050Today attended their last meeting and is now associated with this group. It is thus possible to share their work and experiences. 2050Today members have been invited to the resumption of the Waste Management Working Group in early 2023. The aim will be to present the experience of the EPA and to offer the possibility of carrying out eco-21 diagnoses.

2.7. Human Factor

The first meeting of the **newly established group** on this transversal theme presented the UNIGE research project aiming at specific behavioral interventions. A **preliminary survey on potential behavioral interventions** was proposed to the members. The results highlighted the sectors where members perceive a major potential for intervention: energy, mobility, food, digital and procurement. The group was able to learn about the types of behavioral interventions and their timing. The project being dependent on additional funding, the following meeting will be held once this support is secured.



3. Events

2050Today has contributed to various events with either leading or initiatory role.

3.1. Geneva Trialogue on Open Innovation for Education – 17 March 2022

2050Today contributed to the Geneva Trialogue by organizing a roundtable on **"Travel Policies: What's Next for International Geneva"**. In addition to the working group on mobility, the panel discussed travel policies outside of Geneva within member institutions. In particular, it emerged that online, hybrid or face-to-face meetings could be the subject of criteria for identifying meeting typologies and thus jointly adopting the most appropriate format.



3.2. European Energy Transition Conference – 31 May - 2 June 2022

2050Today organized a stand in the Maison Genève with the Canton, the City and the SIG to **highlight the climate action of international Geneva**. Several members, in particular the World Intellectual Property Organization (WIPO), the International Telecommunication Union (ITU), UN Geneva, the EPFL, the FIPOI, the Office of the High Commissioner for Human Rights and the ISHR were able to highlight their respective actions. In collaboration with different entities, workshops and presentations were developed to present the steps taken in the canton to support the ecological transition. A workshop on human rights and climate change was organized.



3.3. 8th Festival Alternatiba Léman – 3 September 2022



On the occasion of this festival bringing together local initiatives for the reduction of the ecological footprint, 2050Today joined the joint stand of the Canton, the City and the GEN to make its action known to the general public and to **mark the presence of International Geneva** in relation to this theme.

3.4. La nuit est belle – 23 September 2022



2050Today invited its members to participate in the event "La nuit est belle" which consists of light extinction in the Greater Geneva area to **raise awareness about the impact of light pollution due to excessive lighting**, and to change our practices. CERN, the Graduate Institute, the International Labour Organization (ILO), the International Telecommunication Union (ITU), UN Geneva and UNIGE turned off their buildings for one night.

3.5. Urban Thinker Campus – 31 October 2022



2050Today co-organized the Geneva edition of the Urban Thinker Campus (UTC) with the Open Urbanism Foundation. Imagined by UN-Habitat in 2015, the UTCs aim to implement in a concrete way the Sustainable Development Goals in the territories. They are organized since 2017 in South America, Asia and Europe, by the Open Urbanism Foundation and the international network 7 Billion Urbanists. The theme of this edition was: **How can public/commons partnerships lead to radically innovative decarbonized mobilities?**

3.6. The wheel of planetary eco-challenges – 16-18 December 2022

On the occasion of the 15th UN Conference on Biodiversity (COP15), 2050Today co-developed the wheel of planetary eco-challenges with UN Geneva, the United Nations Development Programme (UNDP), the Canton and the City of Geneva, the Natural History Museum and Le Sablier de Cassandre with the aim of presenting to the general public the nine planetary limits of which biodiversity is one. This event, held on the site of Noël au Jardin, aimed to **raise awareness of these limits and to the fact that six of them have already been exceeded**. The ferris wheel was also associated and the planetary limits indicated on its nacelles. By spinning the wheel of the planetary limits, each participant obtained an eco-challenge that they committed to achieve within six months. A small exhibition explained the concept of the limits and the COP15 stakes. This wheel could be redeployed on other sites and on other occasions.



4. Meetings

4.1. High-level meeting

The first high-level meeting of 2050Today took place on June 8th 2022 and marked a significant step in the recognition of the initiative's objectives. Indeed, that day **the five Parties of 2050Today signed the Convention of cooperation establishing 2050Today as the Geneva Climate Action Forum** to the benefit of the international Geneva. The signatories were respectively **Jürg Lauber**, Representative of the permanent mission of Switzerland at the United Nations Office and other international organizations in Geneva, **Antonio Hodgers**, State Councilor in charge of the Department of territory, **Alfonso Gomez**, Administrative Councilor, in charge of the Department of finances, of the environment and of housing, **Yves Flückiger**, Rector of the University of Geneva, and **Vincent Collignon**, Executive Director of Clients at SIG. **Tatiana Valovaya**, Director general of the United Nations Office at Geneva (UNOG), **Marie Chantal Rwakazina**, Permanent Representative of the Republic of Rwanda, and **Ion Sauca**, Acting Secretary General of the World Council of Churches have signed the Convention as witnesses of the International Geneva.

In the second part of the meeting, the common projects considered for the thematic sectors of energy, mobility, food, biodiversity, and the human factor were presented to members. Professors from the University of Geneva were also able to showcase the specific research planned according to sectors.



4.2. Committee of the Parties Meetings

The Committee of the Parties met eight times in 2022 (January, February, March, April, May, June, September and November). During the first half of the year, discussions generally focused on the development and definition of the Convention of cooperation, in collaboration with the respective legal services. Thanks to the close cooperation of the Parties, **the Convention was finalized in a few months** and was signed at the High-Level meeting in June 2022. In the second half of the year, the representatives of the Parties mainly dealt with the funding proposal to be submitted to philanthropic donors. This global proposal evolved in several steps before reaching its final form thanks to a fruitful collaboration between the Parties, the research team and the 2050Today executive team.

The Committee was regularly informed of the 2050Today activities, whether it be for the thematic working groups, the development of common projects, the research projects as envisioned for each sector, the establishment of the 2021 carbon footprints and the use of the budget. The organization and participation in events, the collaborations and synergies with various partners and the appreciation of meetings held were also reported to the Committee.

4.3. Focal points meetings

The focal points of the 2050Today members are invited twice a year (spring and autumn) to make an assessment of the situation based on the results of the working groups and of the carbon footprints. It is also a matter of evaluating and defining with the members the priority actions and joint works. The focal points act as intermediaries between their management and 2050Today, and vice-versa.

The spring meeting (in March) was held in the presence of **the five Parties who expressed their engagement to support 2050Today and the international Geneva** in its approaches to face the climate emergency. On this occasion, it was announced that 2050Today would become an autonomous entity through a Convention of cooperation between the Parties. Thanks to this new status, 2050Today will be able to develop itself and raise funds for actions that will benefit its members and the international Geneva. The planned work for the thematic groups, **the common or personalized projects, as well as the applied research planned by the University of Geneva** were also presented and treated by the focal points.

During the autumn meeting (November), **the results of the 2021 carbon footprints were announced** and explained. **The work on the common projects which is expected for 2023** and the funding proposal were put into place beforehand. The second part of the meeting was designed to stimulate interactions and the participation of members on the theme of food. After a presentation on the sustainable catering strategy 2020-30 of the EPFL, members were invited to collaborate on the possible modalities of adoption of the food charter and the needs for communication.

5. Communication

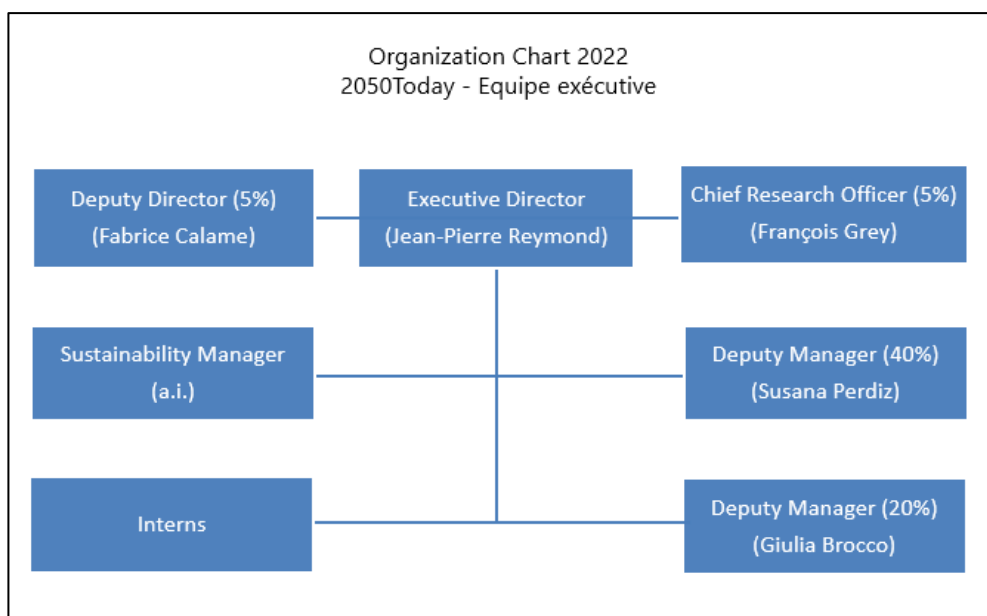
At each event, supports for communication were developed. The participation and visual contribution at the European Conference on the energy transition were entirely designed and realized by 2050Today. **The signature of the Convention of cooperation was the object of a joint press release** published by the University of Geneva. The executive director of 2050Today was invited to intervene on different media occasions, notably on Léman bleu, and during events directed by other entities. The funding request was edited through a professional graphic processing and different service providers were evaluated in that regard. The website of 2050Today was regularly updated and a **LinkedIn account** was created in November.



6. Personnel

In 2022, in parallel with the establishment of 2050Today as an entity in its own right and its administrative integration to the University of Geneva, **the executive team was constituted** with an executive director, a deputy director (part time), a chief research officer (part time) and two deputy managers (part time). With the support and contribution of the University of Geneva's human resources, a position of "Sustainability Manager" was advertised and more than 70 candidacies were received. In the meantime, the tasks linked to this position were ensured ad interim by a newly graduated doctor from the Institute of Environmental Sciences.

In addition to the executive team, a research team was defined. It includes researchers from the University of Geneva implicated in the different thematic sectors.



Six students from the Master in Innovation, Human Development and Durability, and from the Master in environmental sciences supported the activities of 2050Today as interns.

7. Finance

7.1. Annual accounts

The University of Geneva's accounting and financial management Division opened a separate account for 2050Today. It establishes the financial report of this account for the year 2022. The financial contributions were received in September 2022.

7.2. Fundraising

The executive team, the research team and the Parties developed a funding request to be submitted to philanthropic donors. This proposal describes the programs of action that 2050Today proposes to carry out between 2023 and 2026, and the applied research projects that can be conducted by the University of Geneva, including the state of scientific knowledge on the research themes. **The additional financial resources requested are intended to significantly increase the work already undertaken, to finance the research and to provide targeted incentive support.**



Annual accounts - 2022

| | 2022 |
|---|--------------------|
| Expenses | 448 891 CHF |
| Activities | 23 284 |
| Material, logistic et fees | 16 190 |
| Communication | 5 486 |
| Catering | 1 563 |
| Travel expenses | 45 |
| Salaries | 399 755 |
| Executive staff | 45 755 |
| <i>In-kind: Executive Staff</i> | 200 000 |
| <i>In-kind: General Staff + UNIGE common services</i> | 143 000 |
| <i>In-kind: Representatives of the Parties</i> | 11 000 |
| Operating costs | 25 852 |
| Office rental | 24 000 |
| IT (hardware / website) | 1 596 |
| Offices supplies | 256 |
| Revenue | 554 000 CHF |
| Canton of Geneva | 100 000 |
| City of Geneva | 50 000 |
| SIG | 50 000 |
| <i>in-kind: Executive Staff - Swiss Confederation</i> | 200 000 |
| <i>in-kind: General Staff + UNIGE common services</i> | 143 000 |
| <i>in-kind: Representatives of the Parties</i> | 11 000 |
| Balance 2022 | 105 109 CHF |

Note: The financial contributions of the Parties were paid at the end of September 2022, as the Convention of cooperation was signed on 8 June 2022. Consequently, the actual expenditure was only for the last months of 2022 which explains the balance.

2050Today members – 65 institutions

31 Permanent missions

Africa: Egypt, Mauritius, Morocco, Mozambique, Rwanda, Senegal, Tunisia

Americas: Barbados, Chili, Costa Rica, Mexico, United States of America

Asia: Fiji, India, Israel

Europe: Andorra, Denmark, Finland, France, Germany, Ireland, Italy, Monaco, Norway, Portugal, Slovenia, Spain, Sweden, Switzerland, United Kingdom, European Union

14 International organizations

CERN European Organization for Nuclear Research

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 The 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

WIPO World Intellectual Property Organization

WMO World Meteorological Organization

20 Civil society entities

CAGI International Geneva Welcome Center

CCIG Geneva Chamber of Commerce, Industry and Services

Diplomatic Club of Geneva

DNDi Drugs for Neglected Diseases initiative

EPFL Swiss Federal Institute of Technology of Lausanne

FIPOI Foundation for Buildings for International Organizations

Fondation pour Genève

Foundation Kofi Annan

GICHD Geneva International Centre for Humanitarian Demining

Geneva Call

Graduate Institute Geneva

ICVA International Council of Voluntary Agencies

ISHR International Service for Human Rights

ISO International Organization for Standardization

NRC Norwegian Refugee Council, Geneva Office

Open Geneva

PATH Foundation for Appropriate Technology in Health

EBU European Broadcasting Union

UNIGE University of Geneva

World Council of Churches



 **2050**
today
United for zero emissions