

**WMO OMM**

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Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
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Subject: The WMO-Coordinated Global Greenhouse Gas Watch (G3W) move to the implementation and pre-operational phase

Action required:

- (1) Explore national partnerships and resources for the establishment of national greenhouse gas monitoring network and data exchange via the WMO Information System
- (2) Consider financial support to the G3W trust fund to allow 2024–2027 implementation activities after EC-78 approval
- (3) Consider in-kind support to the G3W resources to allow 2024–2027 implementation activities after EC-78 approval

Dear Sir/Madam,

I am pleased to announce that the seventy-eighth session of the WMO Executive Council (EC-78), which was held from 10 to 14 June 2024, has endorsed the Implementation Plan (IP) for Global Greenhouse Gas Watch (G3W) through [Resolution 3 \(3.2/1\) \(EC-78\)](#) - Implementation Plan for the Global Greenhouse Gas Watch.

EC recognized the excellent work done to respond to Congress [Resolution 5 \(Cg-19\)](#) – Global Greenhouse Gas Watch, and the urgency to fast-track the implementation of a global greenhouse gas monitoring system which can support the Parties to the United Nations Framework Convention on Climate Change (UNFCCC) in their implementation of the Paris Agreement.

G3W aims to take advantage of the WMO unique position and experience to enable internationally coordinated top-down monitoring of greenhouse gas fluxes, supporting the scientific understanding of natural sources and sinks and contributing actionable information to UNFCCC Parties and other stakeholders. This exciting step forward is expected to provide a substrate to future value-added services: downscaling will complement bottom-up estimations done by national and local jurisdictions reporting on greenhouse gas emissions; G3W may improve the robustness of voluntary and regulatory carbon markets, supporting the valuation of tradeable assets and the verification of the impact of offsets.

The implementation of the Congress decision on G3W, led by the joint Study Group on WMO Greenhouse Gas Monitoring between the Commission for Observation, Infrastructure and Information Systems (INFCOM), the Commission for Weather, Climate, Water and Related Environmental Services and Applications (SERCOM), and the Research Board – commonly referred to as SG-GHG, has delivered a compelling G3W Implementation Plan, further enhanced via the intergovernmental session at INFCOM-3, and recently endorsed at EC-78.

To: Permanent Representatives of Members with WMO

cc: Hydrological Advisers

One of the implementation and pre-operational challenges of the G3W initiative is the needed consolidation of the surface-based monitoring efforts at the national level. Greenhouse Gas (GHG) monitoring often involves collaboration with entities external to the National Meteorological and Hydrological Services (NMHSs), including research institutes based on opportunity grants and therefore exposed to intermittent modality. Thus, an effort is needed to establish national systematic sustained GHG monitoring network. We therefore highlight the need to explore national partnerships and resources for the establishment of national GHG monitoring network and data exchange through the WMO Information System.

To enable the timely development of G3W over the 2024–2027 budget period, Congress additionally requested the WMO Secretary-General, in collaboration with Members, to mobilize extrabudgetary contributions ([Resolution 3 \(Cg-19\)](#) – Maximum expenditure for the nineteenth financial period (2024–2027)). Thus, the WMO Secretariat would like to request all Members, with the capacity to do so, to contribute financially to the Global Greenhouse Gas Watch trust fund and/or via other in-kind resources. Experts' support in terms of seconded staff (remotely or onsite at the WMO headquarters) will be ensuring the required workforce to implement the G3W plan to priorities.

G3W trust fund donations will allow implementation of the first important pillars of the G3W-IP, starting within 2024 from the survey of existing and emerging technologies that can support a global basic observing network for greenhouse gases, and the global and regional modelling systems. The impact of this survey will guide a G3W surface-based network design, define the G3W systems requirements and outputs, and develop the supporting R&D strategy for identified high-priority pre-operational needs.

More information about G3W can be found on the [G3W website](#), and in the [EC-78 news item](#). Dr Gianpaolo Balsamo (gpbalsamo@wmo.int), Director of the G3W and all the G3W team (g3w-gov@groups.wmo.int) stand ready to respond to any questions or suggestions you may have.

I greatly appreciate your consideration and support for G3W, as a WMO strategic priority activity.

Yours faithfully,



Ms Ko Barrett
for the Secretary-General