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To: Media representatives

Japan Electronics and Information Technology Industries Association (JEITA)

Green x Digital Consortium Releases CO_2 Visualization Framework (Edition 2.0) and Tech Specs toward Data Exchange (Version 2.0)

The Green x Digital Consortium, for which the Japan Electronics and Information Technology Industries Association (JEITA; chaired by Kazuhiro Tsuga, Chairperson of the Board, Panasonic Holdings Corporation) serves as secretariat, today released its CO_2 Visualization Framework (Edition 2.0), which indicates methods of calculating and sharing CO_2 data[*1] (data quality disclosure methods), along with Tech Specs toward Data Exchange (Version 2.0), which lays out technical specifications for data sharing (data items, a common data format, and API linkage specifications, etc.), both aimed at realizing the visualization of CO_2 data across the supply chain. As revised versions of documents originally released by the Green x Digital Consortium in 2023, they include updates reflecting the latest situation in terms of international discussion as well as policy and industry trends in Japan. Utilization of these documents by the various companies constituting supply chains is expected to facilitate the distribution of CO2 data in a form that reflects companies' efforts to cut their emissions, as well as promoting engagement toward emissions reduction.

The revisions track updates to the Pathfinder Framework and the Technical Specifications for PCF Data Exchange, antecedent international frameworks developed by the WBCSD Partnership for Carbon Transparency (PACT).[*2] The results of joint proof-of-concept work undertaken by the Green x Digital Consortium's Visualization Working Group (led by Koichi Inagaki, NEC Corporation) through to June 2023 are also reflected, boosting convenience for companies in the supply chain.

This year's revisions will make it easier for all companies in the supply chain to calculate and share CO_2 data using digital technologies, which will in turn promote companies' decarbonization efforts, including information disclosure in relation to climate change, CO_2 emission reduction measures, and drawing customers' attention to environmental value. The Consortium also plans to hold educational seminars explaining how to use both documents from a practical perspective so as to enhance their ease of use across society and promote greater penetration. Updates will be provided on further measures.

Key revisions in CO_2 Visualization Framework (Edition 2.0)

1. Development of a methodology for product-level calculation aligned with the Pathfinder Framework

> ➤ A methodology has been developed for CO_2 data calculation aligned with Pathfinder Framework Version 2.0 that uses Japanese systems and data accessible in Japan ('product-level calculation').

2. Provision of an organization-level calculation methodology as a simple primary data
calculation method

> A methodology for CO_2 data calculation using organization-level data (Scope 1, 2 and
> 3 emissions, etc.) is also provided so as to widen the scope for primary data utilization
> ('organization-level calculation').

See the website for further details.
CO2 Visualization Framework (Edition 2.0):
https://www.gxdc.jp/pdf/CO2_VisualizationFrameworkEdition_2.0en.pdf

Key revisions in Tech Specs toward Data Exchange (Version 2.0)

1. Composition of data items
> Data items have been updated in line with CO_2 Visualization Framework revisions.
> Consistency with Technical Specifications for PCF Data Exchange v2.1.0 was
> confirmed so as to enable global data exchange.

2. Composition of API specifications
> Specifications for Data Quality Indicators (DQIs), etc., were added in line with CO_2
> Visualization Framework revisions.
> Sample entries were added for error response processing, etc.

See the website for further details.
Tech Specs toward Data Exchange (Version 2.0):
https://www.gxdc.jp/pdf/technical_spec_2.0en.pdf

*1 CO_2 data
Refers in this press release and in the CO_2 Visualization Framework to CO_2-equivalent
greenhouse gas emissions (expressed as kg CO_2e, etc.) as stipulated by the IPCC. Includes
greenhouse gases other than carbon dioxide.

*2 WBCSD Partnership for Carbon Transparency (PACT)
The World Business Council for Sustainable Development comprises a coalition of CEOs from
around 200 companies aiming to realize sustainable development. The WBCSD is the main
convener of the GHG Protocol. PACT was set up under the auspices of the WBCSD to boost
emissions transparency in the value chain and accelerate decarbonization. It defines the
necessary methodologies and technical specifications for emissions data exchange, which it
releases in the form of the Pathfinder Framework and the Technical Specifications for PCF
Data Exchange. The Green x Digital Consortium participates in the PACT ecosystem.
Website: https://www.carbon-transparency.com/

Green x Digital Consortium
The Consortium was established in October 2021 to help realize carbon neutrality by 2050
through the digitalization of environment-related fields and the creation of new business
models. It promotes co-creation among Consortium members on issues such as visualization of

CO_2 emissions in the supply chain and the introduction of renewable energies. The Consortium is headed by Professor Noboru Koshizuka (Interfaculty Initiative in Information Studies, The University of Tokyo) and has 151 members (as at June 3, 2024).
Website: https://www.gxdc.jp/

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