

Session Outcome Document

AI for Energy Innovation & Sustainability

IEEE

28 May 2024/11:00-11:45 CET

<https://www.itu.int/net4/wsis/forum/2024/Agenda/Session/218>

Key Issues discussed (5-8 bullet points)

- **Towards WSIS+20 and WSIS beyond 2025, please share your views on the emerging trends, challenges, achievements, and opportunities in the implementation of the WSIS Action Lines to date (5-8 bullets)**
 - Noted the importance and value of using the WSIS multistakeholder approach to further the work on implementing the SDGs, in particular support for the energy transition.
 - Identified a need for new standards to be developed that address sustainable energy, including its generation, distribution, storage and use.
 - Noted the importance of collaboration and applying the multistakeholder approach in advancing SDGs in the implementation and use of sustainable energy solutions
 - The energy transition can benefit from AI applications that can be used to better manage the resource and power generation. However, AI does bring about concerns related to increased energy consumption, carbon emissions, and water usage—for example in data centres.
- **Tangible outcomes (such as key achievements, announcements, launches, agreements, commitments, figures, and success stories (3-5 bullet points))**
 - Noted the role of AI as it sits at the intersection of emerging technology and sustainable development to support the energy transition.
 - Discussed the challenges being faced by numerous sectors in implementing sustainable energy solutions. Including the need to have diverse solutions for regions as no region or state is the same. Using the WSIS principles will be important in developing and considering the implementation of any sustainable energy solution.
 - Discussed ongoing standards development work on creating solutions and applications to support Green Data Centers for the processing of emerging technology data.
- **Actionable plan and key recommendations (2-5 points)**
 - Identified the need for more multi stakeholder participation to work on sustainable energy standards so that solutions can be developed to meet the needs of all regions seeking sustainable energy solutions to implement.



- Acknowledged the importance of the work underway to identify sustainable solutions to support emerging technology needs such as the data processing needs of AI Large Language Models and the insights that AI provides to meet the UN 2030 SDG goals.
- **Suggestions for thematic aspects that might be included in the WSIS Forum 2025 (WSIS+20 Forum High-Level Event) (one paragraph)**

Next year's WSIS could focus on the WSIS journey from its beginnings to WSIS+20, documenting and demonstrating the impact that WSIS and the multistakeholder model has had on including and elevating everyone towards full implementation of the SDGs.