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| **Radiocommunication Study Groups** |  |
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| Subject: [ITU-R R23-RAG Contribution 2](https://www.itu.int/md/R23-RAG-C-0002/en) | **Document RAG/INFO/2-E** |
| **21 March 2024** |
| **English only** |
| Coordinator on Accessibility and Sustainability | |
| Note from the Radiocommunication Advisory Group (RAG) Coordinator on the themes of Accessibility and Sustainability | |
| The activities and studies of ITU-R Study Group 6 on  sustainable digital transformation | |

The coordinator on accessibility and sustainability themes would like to add the activities of ITU-R Study Group 6 in relation to request from the TSAG rapporteur group on sustainable digital transformation (RG-DT) (Document [ITU-R R23-RAG Contribution 2](https://www.itu.int/md/R23-RAG-C-0002/en)).

Annex 1 below provides the information requested regarding the activities of ITU-R SG 6 on sustainability issues.

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| **Status:** For information | |
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Annex 1  
  
Activities and studies related to sustainable digital transformation

| Sector/Domain | Study group or SDO | Title of deliverable | Scope of deliverable | Current status | Reference/URI |
| --- | --- | --- | --- | --- | --- |
| *Energy Aware Broadcasting* | *ITU-R SG 6* | *Question ITU-R 147/6 “Energy Aware Broadcasting Systems”* | *Asks;*  *What direct impact do the technologies and features used for broadcasting have on energy consumption?*  *What indirect impact does the use of external services used for broadcasting have on overall energy consumption?*  *What metrics should be used to quantify and report both the direct and indirect impact on energy consumption?*  *How can broadcasting be made more energy efficient.* | *Published* | [*https://www.itu.int/pub/R-QUE-SG06.147*](https://www.itu.int/pub/R-QUE-SG06.147) |
| *Opinion ITU-R 104 “Advice for sustainability strategies incorporating carbon offsetting policies”* | *that broadcasters and broadcasting related organizations world-wide should have robust sustainability strategies in place9 that move towards net zero and encourage the implementation of robust energy efficiency schemes that reduce energy consumption before considering carbon offsetting protocols as a last resort* | *Published* | [*https://www.itu.int/pub/R-OP-R.104*](https://www.itu.int/pub/R-OP-R.104) |
| *Report ITU-R BT.2385-1. “Reducing the environmental impact of terrestrial broadcasting systems”* | *This report proposes Life Cycle Assessment (LCA) methodology for assessing environmental impact of Broadcasting delivery. It also provides case studies from broadcasters which explains how they could reduce the environmental impact of their business activities.* | *Published* | <https://www.itu.int/pub/R-REP-BT.2385-1-2022> |
| *Report ITU-R 2521 “Practical examples of actions to realize energy aware broadcasting”* | *This Report is intended to assist broadcasters and broadcasting related organizations to implement sustainability strategies and assess and reduce their impact on the environment* | *Published* | [*https://www.itu.int/pub/R-REP-BT.2521*](https://www.itu.int/pub/R-REP-BT.2521) |
| *Report ITU-R .[ERRTIP] “Display energy reduction through image signal processing”* | *Broadcasting and streaming technologies incur a cost in terms of energy that is distributed over the entire transmission chain, from production to distribution / transmission and final viewing by consumers. Television displays, when considered the whole quantity globally, consume a relatively large part of this energy. This energy consumption may be mitigated by content-adaptive image signal processing while minimizing the impact on visual quality. This Report describes such techniques.* | *Approved at the SG 6 meeting -*  *2024-03-15* | *Draft version available as* [*Document 6/20*](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R23-SG06-C-0020)  *(TIES)* |
|  |  | *Recommendation ITU-R BT.[CARE] “A framework for content-adaptive methods for reduction of energy consumption in television displays”* | *Television displays consume a relatively large part of the total energy consumed in the end-to-end of a broadcasting chain from production of programmes to final viewing by consumers. The energy consumption by television displays may be mitigated by content-adaptive methods without unduly impacting visual quality. This Recommendation defines a framework for such techniques.*  *NOTE- Companion to Report ITU‑R .[ERRTIP]* | *For consideration at the November 2024 meeting of SG6* | *Draft version available as* [*Document 6/19*](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R23-SG06-C-0019)  *(TIES)* |
| *Proposed New Recommendation  “A measurement framework for broadcasters to assess their Scope 3 impact of televisions displaying a television programme”* | *For broadcasters, the downstream impact of broadcasting a television programme is considered part of Scope 3, Category 11 indirect use phase emissions of sold products, the reporting of which is currently voluntary. This Recommendation defines a framework to assess this impact, insofar end user displays are involved* | *Under Study* | *Working Document version available attached to the Report of the March 2024 meeting of Working Party 6C*  [*6C/37/Annex 3.1*](https://www.itu.int/dms_ties/itu-r/md/23/wp6c/c/R23-WP6C-C-0037!H3-N3.01!MSW-E.docx)  *(TIES)* |

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