Radiocommunication Bureau (BR)

Administrative Circular
CACE/1196

29 June 2026

To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates and ITU Academia participating in the work of the Radiocommunication Study Group 6

Subject: **Radiocommunication Study Group 6 (Broadcasting Service)**

– Approval of 1 revised ITU-R Question

By Administrative Circular CACE/1183 dated 23 April 2026, 1 draft revised ITU-R Question was submitted for approval by correspondence in accordance with Resolution ITU-R 1-9 (§ A2.5.2.3).

The conditions governing this procedure were met on 23 June 2026.

The text of the approved Question is attached for your reference in the Annex to this letter and will be published by the ITU.

Mario Maniewicz
Director

Annex: 1

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Annex

QUESTION ITU-R 147-1/6

Energy usage optimization for broadcasting systems

(2022-2026)

The ITU Radiocommunication Assembly,

considering

a) that it is important to optimize energy usage and use energy efficiently throughout all stages of broadcasting;

b) that ITU-R provides an opportunity to share technical information about the evolution of new methods and technologies to optimize energy usage within a broadcasting system;

c) that there is a proliferation of broadcasting technologies, which may increase the need for energy usage optimization;

d) that studies on energy consumption in broadcasting and methods for its usage optimization are important;

e) that broadcasters wish to maintain a high-quality level of content creation, and end-user satisfaction,

recognizing

a) that Resolution ITU-R 60-3, resolves that ITU-R Study Groups, when developing new ITU-R Recommendations, Handbooks, or Reports or reviewing existing Recommendations or Reports, take into account, as appropriate, energy consumption as well as best practices to conserve energy;

b) that Resolution ITU-R 70, *Principles for the future development of broadcasting*, notes that the transition to future broadcasting systems, technologies and applications potentially presents energy saving opportunities;

c) that the work done under Question ITU-R 147-0/6 to analyse technical aspects of energy consumption and energy usage optimization can provide background information;

d) that ISO/IEC 23001-11, *Information Technology – MPEG systems technologies – Part 11: Energy-efficient media consumption*, specifies metadata for decoding, encoding, presentation and selection of media,

decides that the following Questions should be studied

1 What *direct* impact do the technologies and features used for broadcasting have on energy usage optimization?

2 What *indirect* impact does the use of external services such as cloud computing for broadcasting have on overall energy usage optimization?

3 What metrics and methods should be used to quantify and report both the direct and indirect impact on energy usage optimization?

4 How can the energy usage of a broadcasting chain and its individual components be optimized?

further decides

1 that cooperation with other bodies may be desirable for the development of energy- optimized formats, standards and operating practices;

2 that the results of the above studies should be included in one or more Recommendations or/and Reports;

3 that the above studies should be completed by 2031.

Category: S2