



Thailand

PRELIMINARY VIEW ON WRC-19 AGENDA ITEM 9.1 ISSUES 9.1.6 AND 9.1.7

Agenda Item 9.1 Issue 9.1.6:

“Urgent studies required in preparation for the 2019 World Radiocommunication Conference:

1) Studies concerning Wireless Power Transmission (WPT) for electric vehicles:

a) to assess the impact of WPT for electric vehicles on radiocommunication services;

b) to study suitable harmonized frequency ranges which would minimize the impact on radiocommunication services from WPT for electrical vehicles.”

Background

Wireless power transmission (WPT) technologies are being developed worldwide to support the transmission of electrical power wirelessly from a power source to appliances without using any cable. WPT for Electric Vehicle (EV) is pioneered to provide a wider range of options for power charging between EVs and power stations. With a high power level, the impact of emission and disturbance generated from WPT for EV to incumbent users in nearby frequencies are however not yet sufficiently known. It is agreed in WRC-15 that ITU-R should study this impact and suitable harmonised frequency ranges to minimise this impact, as one of the urgent studies required in preparation for the World Radiocommunication Conference 2019 (WRC-19) according to Resolution 958 (WRC-15) Annex Item 1.

Preliminary View

Thailand supports the studies carried out by ITU-R in accordance with Resolution 958 (WRC-15) to assess the impacts of WPT for electric vehicles (EVs) on radiocommunication services. Thailand also supports studies to identify possible harmonized frequency ranges used by WPT for EVs with a prerequisite that the use of WPT for EV shall not cause harmful interference to incumbent radiocommunication services in adjacent bands.

Agenda Item 9.1 Issue 9.1.7:

“Issue 2) in the Annex to Resolution 958 (WRC-15) Studies to examine:

a) whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. 18.1;

b) the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory, as a tool to guide their national spectrum management programme, in accordance with Resolution ITU-R 64 (RA 15).”

Background

While the 2015 ITU Radiocommunication Assembly (RA-15) addressed this matter through the establishment of Resolution ITU-R 64 *Guidelines for the management of unauthorized operation of earth station terminals*, WRC-15 subsequently included further studies under Issue 2 Annexed to Resolution 958 (WRC-15).

The Annex to Resolution 958 (WRC-15) calls for ITU-R studies to assess the need for additional measures to limit uplinks of unauthorized earth stations and to examine the possible methods to assist administrations to manage the issues of unauthorized earth stations. ITU-R Working Party 1B has collected necessary information through a questionnaire for the studies and is currently developing possible options to resolve the issue.

Preliminary View

Thailand is of the view that international regulatory measures stated in RR Article 18 are sufficient for addressing unauthorized earth station issue in fixed satellite service. Nevertheless, Thailand supports ITU-R studies on best practices and the development of efficient monitoring techniques, related to national management of unauthorized earth stations deployed within territory of administration.