**Attachment**

**questionnaire on Wireless power transmission**

Wireless Power Transmission, also called WPT in an abbreviation form, is a technology making it possible electrical energy from a power source to an electrical load is transmitted without an interconnection. Wireless transmission is useful especially where connecting devices with wires are inconvenient or dangerous.

It is a new technology but is already seen with significantly increasing demand in the market. Various types of applications, that WPT technology is applied, are to be expected and studies on WPT are actively ongoing. Also, Standardization activities are underway in some standardization organizations.

Given such circumstances and in accordance with the TG-WPT ToR, TG-WPT would like to gather information regarding applications, technologies, potential market, technical and operational characteristics, standardization, frequency bands, and regulatory status from APT countries.

Please respond to the questions below. You may not need to answer all questions but any input to share among APT countries will be highly appreciated. You may use any format in responding. (Your response will be reviewed to incorporate into TG-WPT deliverables such as APT Survey Report to share among the APT countries.)

Name of the Administration/Organization:

Contact Person: (Name, Designation, E-mail)

Note:

1. When you make the answers, you may use terminology, definition, and abbreviation in your answer. Please provide meaning of the abbreviation, terminology, and definition.
2. You may add annex to attach supplemental information if necessary.

1. **Applications**
2. What WPT applications do you expect in your country? There may be various types of WPT applications including cellular phones, digital camera, wearable equipment, note PC, tablet, CE appliances, Electric Vehicles, Plug-in Hybrid Electric Vehicles, industrial tools/machines, etc. Please describe your expectations. You may provide specific use cases as well.
3. **Market demand and forecast**
4. Please provide the list of products which are currently on the market and are to be released implementing WPT technologies in your country
5. Please provide information or estimates of current and future market size relating to market sectors for WPT devices and systems per application. You may include market size, market trends, prices, commercial timeline, and useful references (e.g. websites, documents).
6. **Technologies**
7. WPT technology may depend on application. Please describe technical and operational characteristics to implement WPT applications in commercial with respect to each application. These may include transmission technologies, transmission distance, transmission power, and any unique aspects.
8. If there are some technologies found by researching in academia and industry, please describe also.
9. You may provide references of technical reports, websites, or any beneficial sources to share among APT countries.
10. **Standardization/guidelines/regulations**
11. Does your country participate in international standardization activities of WPT such as IEEE, ITU, ISO, IEC, etc.? If so, please provide WPT activity information of international organizations for standardization/ guidelines/ regulations.
12. Are there any organizations for WPT standardization/ guidelines/ regulations in your country? It may contain standards development organization, forum activities, or governmental organization.
13. Please provide plans/ timeline and the current development status for standardization/ guidelines/ regulations in your country if available.
14. Please provide the name of the organization, contact point, plan, and status of their works if available.

|  |  |
| --- | --- |
| Name of the organization |  |
| Contact point |  |
| Plan and/or timeline of standard/guideline/regulation development |  |
| Status of standard/guideline/regulation development |  |

1. **Suitable frequency bands and coexistence with the incumbents**
2. Suitable frequency band for WPT may depend on technology, application, and regulatory aspects. What category of spectrum (e.g., ISM or other specific bands) and/or which frequency band(s) do you consider for WPT usage with respect to each application assumed in your country? Please provide information with reasons.
3. What steps are required to make sure your radio services protected from the usage of WPT? Is there any compliance for EMC/EMI that can be applied for WPT applications?
4. **RF exposure**
5. Please provide RF exposure guidelines applied in your country. Please provide RF exposure references such as international guidelines publicly available.
6. Please provide information on assessment methods/procedures used for human exposure to RF from WPT to demonstrate regulatory compliance.
7. **Regulatory matter**
8. If there are any regulations relating to WPT in your country, please provide detailed information.
9. If not, please explain the related rulemaking process or activities being processed for WPT currently or in future.
10. Is there any plan of type approval for WPT products in the future?
11. **Others**
12. Please provide any other WPT information and studies that are beneficial to share among APT countries.