

Global ICT Standardization Forum for INDIA (GISFI)
March 11, 2011

Title: GISFI Response to TRAI's Consultation Paper on Green Telecom
Work Item: Green ICT
Source: GISFI
To: Mr. Lav Gupta
Principal Advisor (TD)
The Telecom Regulatory Authority of India (TRAI)

Cc:

Contact Person(s):

Name(s): 1. Anand R. Prasad, NEC Corp., Working group chair, Green ICT
2. Krishna Sirohi, VNL
E-mail Address(es): 1. anand@bq.jp.nec.com,
2. krishna.sirohi@vnl.in

Attachments: GISFI Brochure



1. Overall Description:

Global ICT Standardization Forum for India (GISFI) (<http://gisfi.org>) is a non-profit Society registered under the Indian laws. This forum has been recognized by the Department of Telecommunications, Government of India for ICT standardization under public-private partnership. GISFI has also been recognized by other standardization bodies as well as by the European Commission, and was an observer at the last GSC meeting. GISFI is also a member of ITU-T. A brochure of GISFI is attached herewith.

GISFI has initiated a work item on Green ICT (Energy Efficiency in ICT and by using ICT) for standardization.

We have understood that TRAI has recently invited contributions from stakeholders on its consultation paper on Green telecommunication. Although we have missed the timeline to submit our input, we take this opportunity to introduce ourselves and inform you what value GISFI-Green ICT Study Group can bring to the Green telecom initiative of TRAI.

At this stage, we have identified two areas that are specified in the consultation paper i.e. metrics for certifying the product/service/network green and Standardization since these aspects are directly related to GISFI-Green ICT activities.

Our response to these questions is as follows:

1. Methods for Reducing Carbon Footprint : Metrics for Certification of Product and Services

Q 3.13 & Q3.14: What should be the metric for certifying a product green and a network or service as green?

GISFI Response: We are in the process of evaluating the metrics which could be recommended to be adopted for certifying a product/network or service as Green and shortly we will be in a position to provide very specific inputs to TRAI considering the following aspects:

- a. Currently ITU-T Study Group 5, ATIS and ETSI have been identified by GISFI as other standardization organizations where the metrics for GREEN ICT product/network certification

and the methods of associated measurements are being evolved. GISFI will study and evaluate the metrics and measurements methods which are being evolved in these organizations and provide recommendations specific to Indian scenario..

- b. GISFI will also conduct comparative study in approaches adopted in different standardization bodies and their relevance to the Indian context. Understanding of the un-resolved metrics and their associated arguments in different standards organizations and to evolve our own standards that are relevant to the Indian context will be GISFI's key task.
- c. GISFI will also provide its understanding on GSMA's initiative on the same.
- d. GISFI will provide detailed description of the evaluations to TRAI for consideration and also help to obtain wider opinion through other stakeholders in the future.

2. Standardization of Equipment

Q3.22 What standards do you propose to be followed in Indian telecom network for reducing the carbon footprint?

GISFI Response: Considering the size of the telecom network in India and the its large energy consumption needs, India must lead by example of converting its own network as Green. This is possible only by evolving its own standards which aligns with all relevant international Green ICT Standardization initiatives but specifically evolved to suit Indian specific conditions. With this objective, GISFI has taken up standardization task on Green ICT. GISFI Green ICT plans to work very closely with TEC(Telecom Engineering Center of DoT) to formulate these national standards based on requirements specific to India.

Q3.23 Who should handle the testing and certification of green equipment and networks?

GISFI Response: Following example from other countries, we assume that the government will setup its own lab for this activity, preferably in TEC. Such lab could be fully equipped or testing could be outsourced to other certified labs in India. GISFI may provide necessary support for setting up such lab in India.

By contributing to the detailed India specific standards on GREEN Telecom, GISFI will fill the current gap on this aspect. This will help TRAI for providing more informed recommendations with respect to technical aspects of Standardization. We look forward to having close collaboration with TRAI in the future.

Through this initiative, we also request TRAI to consider GISFI as a potential contributor for various activities related to ICT standardization in general.

We would be happy to collaborate with TRAI on all such future activities and also appreciate your valuable inputs for defining our standardization requirements better.

Thanking you.

Sincerely,

Ramjee Prasad

Chairman, GISFI

Director, Center for TeleInfrastruktur (CTIF)- <http://ctif.aau.dk/>

Aalborg University,

Niels Jernes Vej 12,

9220 Aalborg Øst, Denmark

Tel: +45 9940 8671

Fax: +45 9815 1583

E-Mail: prasad@es.aau.dk