

**GOVERNMENT OF INDIA
COMMUNICATIONS AND INFORMATION TECHNOLOGY
LOK SABHA**

UNSTARRED QUESTION NO:5514
ANSWERED ON:09.05.2012
ROLE OF ICT IN CLIMATE CHANGE
Pradhan Shri Nityananda

Will the Minister of COMMUNICATIONS AND INFORMATION TECHNOLOGY be pleased to state:

- (a) whether as per National Association of Software and Service Companies (NASSCOM) assessment, Information and Communication Technology (ICT) sector may help meet climate change goals;
- (b) if so, the details thereof;
- (c) whether this sector proposes to concentrate on the changes taking place in the environments i.e. natural disasters and extreme events like heat waves, etc.;
- (d) if so, the details thereof;
- (e) whether apart from reducing carbon-emission, ICT also assist in sectors like power, roads, water transport; and
- (f) if so, the details of the benefits of this system?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY (SHRI SACHIN PILOT)

(a) and (b): NASSCOM in association with TERI (The Energy and Resource Institute) have compiled a report on 'Sustainable Tomorrow: Harnessing ICT Potential'. The report is an attempt to bring together the entire ecosystem of users and providers of IT applications and services that can help meet the goals of climate change and environment sustainability. The summary of Report is available at: <http://www.nasscom.m/sustainable-tomorrow-harnessing-ice-potential> for registered users.

(c) and (d): IT Industry has many solutions to assist Emergency Response, in the event of natural disasters including floods, earthquakes. ICT Solution help in predicting disaster, managing disaster operation and post disaster relief management. Some of the projects initiated by Centre for Development of Advanced Computing (C-DAC) a society under Department of Electronics & Information Technology in this area are listed in Annexure-I.

(e) and (f): With its impact in raising productivity and increasing efficiency in delivery of services, Information Communication Technology and Electronics (ICTE) has come to be accepted as a key enabler in development and is globally being accepted as a 'Meta-resource'.

The transportation sector including power, road and water transport benefits immensely by the application of suitable Electronics/ICT technologies by way of having higher efficiency of transport vehicles, energy conservation and better quality of ride. ICT applications for road traffic can result in improvement in operational efficiency, safety and reduction in traffic congestion, which in turn helps in reducing overall energy consumption. Further, ICT intervention in buildings can result in energy conservation.

Some of the projects initiated by Department of Electronics and Information Technology (DeitY) in the above areas are listed in Annexure-II.