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## Dr. T. Harinarayana

Dr. T. Harinarayana is the Director of the Gujarat Energy Research and Management Institute, Gandhinagar, Gujarat. He also holds the position of an Independent Director, Gujarat State Petroleum Corporation Limited. Prof. T. Harinarayana has over 30 years of experience of working with CSIR-National Geophysical Research Institute as Scientist "G". He is a leading scientist, well recognized for his excellence in deep EM Technique- Magnetotellurics among the national and international scientists.

Prof. T. Harinarayana holds two doctoral degrees in the field of Electromagnetics-one from Edinburgh University, UK & the other from Indian School of Mines, Dhanbad. His academic and research excellence created opportunities for him to serve as a visiting professor and scientist at the University of Tokyo, Japan and the University of Texas at Austin, USA respectively. He has also organized and chaired a large number of conference / seminars and technical sessions.

Prof. Harinarayana has done research studies at NGRI, Hyderabad for more than 30 years. His extensive study of Cuddapah sedimentary basin area of Tadiparti-Gooty-Anantapur and also in search of Kimberlite rocks for diamonds. These studies have helped to go for detailed studies that has led to the discovery of minerals in the Cuddapah basin and more diamondiferous Kimberlite pipes in Wajrakarur and surrounding regions. Harinarayana have led a team of Australian scientists to different geothermal areas of Andhra Pradesh like Bugga, Agnigundala etc. locations for possible assessment of the region and the work is under progress under Indo-Australian scientific co-operation.

Additionally, the Prof. Harinarayana has published innovative ways to develop Solar energy enhancement. This helps to generate more power in small location. More importantly, majority of the houses, buildings, large constructed locations can be utilized more effectively to generate solar power. This information is directly useful to increase the energy generation at all locations around the world and more importantly to Andhra Pradesh state as we are suffering with acute shortage of electricity for both industrial and agricultural sectors.

Prof. Harinarayana is well known in the national and international scientific circles and presently is the Director of GERMI (Gujarat Energy Research and Management Institute), Gujarat. He has been involved in many innovative projects related to oil exploration, geothermal energy exploration, Solar energy generation etc in different regions of India. The research results published in national and international journals and also widely covered by the news media for the years 2012 and 2013 will go a long way to help the energy basket of our country. The solar roof top programme implemented by GERMI, Gandhinagar has become a role model for the



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whole country. The professional and vocational training programmes being organized at GERMI is the need of the hour for all the solar industry developers.

Prof. Harinarayana is closely involved in the development of all the fields of energy sector- oil, gas, geothermal, solar etc. India's growth directly depends on its energy sources and its development. For example, our per capita consumption of energy is far below the developed and even developing countries like China, Brazil etc. His research output will enhance and perhaps helps to change this situation. For example, in a recently published research article he showed an innovative way of generating power using national highways. With the help of a strong policy, India can generate nearly 5000 MW (5 GW) in a short period of one year. This one example, is likely change the energy scenario of our country, if the ideas are properly implemented. In another research paper, he has identified optimal land use for solar parks and as per estimates 7500 MW of electricity is possible in Gujarat State alone.

Dr. T. Harinarayana is a member of the Russian Academy of Natural Sciences, Moscow. Became A Member of Governing Council of newly formed IIIT-Vadodara. Recently, he has received International Science Community Association-International Best Researcher Award-2013. He has received the National Mineral Award-1991, the Andhra Pradesh Scientist Award-2008. While serving as Scientist and Head of the magnetotelluric Division, NGRI, Hyderabad he became a fellow and a member of national (IGU, AEG, APAS etc.) and international (IAGA, EMSEV etc.) scientific societies, academic forums and editorial boards of various techno-scientific journals of global importance.

**Prof. T. Harinarayana**

Director, Gujarat Energy Research and Management

Institute (GERMI), Gandhinagar, Gujarat, India

Mail Id: [harinarayana@germi.res.in](mailto:harinarayana@germi.res.in)