



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
शोध एवं विकास प्रभाग
Research & Development Division
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IS/ISO: 9001-2008

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To: As per the list attached

विषय: विद्युत् क्षेत्र में शोध एवं विकास गतिविधियों की पहचान हेतु।

Subject: Identifying thrust areas in the power sector for R&D Activities.

महोदय/Sir,

Power Sector is undergoing a paradigm shift and new technologies are being adopted on a continuous basis. These technologies are posing different challenges for the Power sector, which need to be overcome in time so that this sector continues to evolve as a dynamic and successful entity. To address these challenges Research and Development (R&D) initiatives in the sector are of vital importance, which need to be coordinated at All-India level to avoid duplication of efforts by different organisations and also to bring about efficiency in the sector.

Central Electricity Authority is the nodal body for the Ministry of Power, which under Section 73 (k) of the Electricity Act, 2003, has been entrusted with the activity to promote research in matters affecting the generation, transmission, distribution and trading of electricity.

The success of R&D in the power sector would mainly depend upon the detailed analysis concerning problems being faced by the power utility in their endeavor to generate, transmit, and supply electricity to the consumer in an efficient and economic way. As the various equipment and processes of various utilities are involved the success of the sector depends on the coordinated operation through efficient performance of the system elements. To achieve the above objective(s) there may be requirement of modifications/upgradations in specific instances.

It would thus be in the interest of the sector itself if the concerned utility identifies major areas, which need urgent attention through R&D initiatives. Such problems when brought to attention of experts and policy makers in various forums for discussion will help in focusing the attention of the sector on the operational and other beneficial aspects of the Power Sector. This whole process will in turn help in increasing the efficiency of the sector which is the major aim of the R&D i.e. achieving improvement in material, products and processes and achieving economic advantage.

It is therefore requested that a compilation of major issues affecting your company/organization or the areas considered relevant for undertaking R&D initiatives may be sent to this office on an urgent basis which could be taken up further at appropriate level after due diligence.

Inputs in this regard may kindly be sent on e-mail cerndcea@gmail.com also.

Yours faithfully/भवदीय



(अशोक कुमार राजपूत)

मुख्य अभियंता (शोध एवं विकास)

(A K Rajput)/Chief Engineer (R&D)

List of addresses

1. Educational Institutions

- IIT's (Indian Institute of Technology)
- IISC (Indian Institute of Science)
- TERI (The Energy and Resources Institute)
- **Other Stake Holders** (like Regulators, Power Secretaries of States)

2. Research institutions

- NML (National Metallurgical Laboratory)
- CIMFER (Central Institute of Mining and Fuel Research)
- CMPDIL (Central Mine Planning and Design Institute)

3. Central Bodies

- MNRE (Ministry of New and Renewable Energy)
- CWC (Central Water Commission)
- DST (Department of Science & Technology)
- DSIR (Department of Scientific and Industrial Research)
- BARC (Bhabha Atomic Research Centre)

4. PSU's

- NTPC (National Thermal Power Corporation Limited)
- NHPC (National Hydroelectric Power Corporation)
- PGCIL (Power Grid Corporation of India)
- SAIL (Steel Authority of India)
- CIL (Coal India Limited)
- BHEL (Bharat Heavy Electricals Limited)
- REC (Rural Electrification Corporation)
- PFC (Power Finance Corporation)

5. Utilities

- POSOCO (Power System Operation Corporation)
- GENCO's (Generating Companies)
- TRANSCO's (transmission Companies)
- DISCOMS (Distribution Companies)

6. Associations

- IEEMA (Indian Electrical and Electronics Manufacturers Association)
- ITMA (Indian Transformers Manufacturers Association)