

Empowering Energy

How TCE is changing the face of power solutions in India

Maharashtra and other states in the country are facing severe power shortage. How is TCE bridging the gap to overcome the shortfall?

TCE is a consultancy organization providing engineering consultancy services to government, public and private sector organizations, IPPs, utilities etc., who are in the business of power generation, transmission or distribution. TCE is today associated with power projects aggregating to over 38,000 MW of generating capacity in India and overseas covering all modes of power generation, conventional, non-conventional and nuclear.

We provide complete solutions to our clients in expeditiously setting up their power projects. This covers in-depth studies such as feasibility reports and DPR, EIA&EMP, site selection and evaluation, systems study, project due diligence, support for project financing etc., as also offer comprehensive engineering and project management services. We promote adoption of larger generating units for rapid capacity addition and provide advanced technologies for efficient and environmentally friendly power generation.

In Maharashtra, we are presently associated with power projects which are in various stages of execution such as at Trombay, Ratnagiri, Bhusaval, Dehrad, etc.

According to you, what are the necessary steps the government should take in order to overcome power crisis?

First of all, governments should actively pursue the concept of putting up fully developed projects for bidding. By developed, I mean completion of all pre-project activities like securing free-hold land; providing rail and road links; obtaining water linkage, fuel supply and transportation



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agreements, power evacuation arrangements, PPAs, environmental clearances and all other permits and approvals. This has to be done by a designated arm of the government.

Secondly, governments should focus on invoking penal provisions of the Electricity Act 2003 to curb and eliminate power theft.

Thirdly, governments must on top priority privatize the distribution sector.

Next, Import duty waiver may be made applicable to power plants of smaller capacity to increase the attraction of power projects to overseas equipment suppliers.

Lastly, governments must render sale of surplus power generated by CPPs and merchant power plants financially more remunerative.

Latest projects TCE is working on

TCE's current association with power projects spans 14 states in the country. Overseas, we are working on projects in Thailand, Saudi Arabia, Africa, Oman,

Vietnam etc. We were responsible for the basic and detailed engineering work on the recently commissioned 2 x 540 MW units of Tarapur Atomic Power Plant and for the detailed engineering of the fast breeder reactor at Kalpakkam.

How environmental-friendly are TCE projects?

TCE is providing services for mini-hydel and wind energy projects, which are intrinsically environmental friendly. We are also associated with a large number of combined cycle power plants which because of their high efficiency cause much less environmental impact. Even in case of coal based power plants, TCE's designs offer very high overall efficiency by incorporating advanced thermodynamic cycles. TCE pioneered the introduction of flue gas de-sulphurization plant in the country, first at Trombay for the 500 MW unit and also the latest 250 MW unit under installation. Our designs also pay special attention to water conservation and in most of the present day generating

plants, liquid effluent discharges are held to a minimum, often nil.

Any new tie-ups for technology advances

TCE has always endeavoured to upgrade its expertise with an objective to provide the most advanced, state-of-the-art technology and cost effective solutions to its clients. The first 150 MW unit, 200/210 MW and 500 MW units were all introduced in this country by TCE. The largest Circulating Fluidized Bed Combustion Boilers of 250 MW rating are currently being installed for the first time in this country. We are involved in the engineering and execution of the 5 x 800 MW supercritical power plant at Mundra. Along with Tokyo Electric Power Company, TCE was associated with the country's first 800 kV transmission line. TCE has forged alliances with some of the best known firms in Europe and USA.

TCE's future plans

With the economy booming, the power generation sector is witnessing a tremendous growth. I am seeing a trend where requirements of consultancy services by developers and investors would be multi-disciplinary and would therefore be more in the nature of comprehensive project management consultancy. Pricing pressures and environmental drivers would demand advanced technologies. Focus would necessarily be in areas like coal beneficiation, coal gasification technologies, carbon sequestration and the like.

Today we are well prepared to be the provider of complete solutions with focus on speed of response and advanced technologies. We plan to expand globally for which several initiatives have been taken.