



Pat Naidoo Consulting Engineers

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www.patnaidoo.co.za

Company Profile

Pat Naidoo Consulting Engineers, a private, independent and professional electrical engineering company is established in the Republic of South Africa. The company is led by Resident Engineer, Dr Pathmanathan Naidoo who has three decades of corporate sector experience in the electrical power and electrical energy industry.

The company strategy is to engage the world's best expertise to work on customer consultancy and advisory assignments. The resident engineer is active in local, regional and international electrical engineering institutes. He is member of the London based Institute of Engineering and Technology, a Senior Member of the USA based Institute of Electrical and Electronic Engineers and Fellow of the South African Institute of Electrical Engineers. The institutes provide a comprehensive library on all aspects of electrical engineering coupled with the latest trends in research, investigations and development.

The company key strategy is to work with other consulting partners and subject experts. Internationally, regionally and locally, the company continuously promotes partnership workings with other consultants and engineering companies. Empowerment of all, established and developing companies is key for our growth and development. The end goal is always to teach, to mentor and to pass on the learning and experience.

A competitive edge of the consultancy is the ongoing participation in advanced research and development at local and international universities. Pioneering work has been done in the subject of high voltage insulation for polluted environments, for fault reduction on power transmission and power delivery

circuits, for the conversion of existing HVAC lines for higher power transfer using HVDC technology, applications of FACTS to complex AC power systems, asset management including large power transformers and hermetically sealed instrument transformers. New work has commenced for ultra high voltages for HVAC and HVDC power systems at high altitude. New consultancy assignments are in renewable energy development using natural resources of wind, solar, hydro, wave, tidal and waste. Waste from municipal, forestry, agricultural, and industrial resources are now becoming key primary energy resources. Smart Grids, energy efficiency, energy conservation and energy management technologies coupled with communications is opening new doors for power system assets.

A standing output of the company is that of people development. Mentorship for students, for new graduates, for engineers and for senior management and industry leaders continues as a voluntary service. New student chapters are under development at all the campuses of South African Universities. In practice engineers, managers and leaders are provided with projects, case studies and further studies for their development. People investment has no boundaries and all are encouraged to grow, to share and to excel.

Customers are the purpose of business. Customers must get world class service and we are always positioned to deliver sterling results to customer delight. Finally, the power system is an economic value adding asset and we will make every effort to add greater value and longer term sustainability in all our assignments and projects.