Today, continuous change is the most important constant in the energy market. Urbanization, renewable energy and ambitious climate and environmental protection present serious challenges for the energy industry worldwide. The ability to meet future reliability requirements, maintain electrical grids, and incorporate new technologies is directly linked to how well the industry responds to these trends. Having the right expertise is essential to ensuring that the energy grid is reliable and sustainable.

Established in 1922, Kenya Power has more than 2,330,962 customers and is responsible for ensuring that there is adequate line capacity to maintain supply and quality of electricity across the country. The interconnected network of transmission and distribution lines covers about 49,818 kilometers.

Kenya Power has the challenge (along with government organizations) to increase the supply of electricity to the Kenyan population from 33 percent up to 100 percent by the year 2020.

A public company, Kenya Power is committed to efficiently transmitting and distributing high quality electricity to its customers throughout Kenya that is safe, reliable and cost effective. Kenya Power understands that highly-skilled, well trained employees are the key to its on-going success.

Approach to sustainable development
Kenya Power has been working with Siemens Power Academy TD and Siemens PTI to initialize a long-term training relationship that supports the sustainable development of their engineering staff’s knowledge, understanding and expertise as they work to address the major issues of combining rapid system expansion with the goal of improving reliability, increasing power quality, and integrating renewable into their system.

**Measurable benefits partnering with Siemens**
As our training relationship with Kenya Power has evolved over the years we can demonstrate some measurable benefits for our client. Initially starting with a series of standard onsite courses at their training center in Nairobi Kenya, we engaged in a process that identifies both participant and management goals and objectives. Translating this into a program, we lead engineers through – either a series of standard open enrollment courses (delivered in training facilities in Schenectady, NY, Minnetonka MN, and Houston TX offices), customized content to meet specific system requirements and learning objectives, or a combination of both. We have trained with over 200 of Kenya Power’s engineers since 2006.

Participates hold positions ranging from recent graduates to managers to chief engineers. All are engaged and have a keen desire to learn from Siemens PTI’s skilled instructors on the theoretical best practices, PSS®E applications, and relevant technical topics supporting their career development. Creating an educated workforce and a sustainable system, Kenya Power engineers have participated in one or more of the following Siemens Power Academy TD training courses:

**Power System Engineering Courses**
- Introduction to Power Flow Analysis with Applications
- Introduction to Power System Dynamics
- Analytical Methods for Voltage Control and Reactive Power Planning
- Power System Reliability

"Kenya Power understands that highly-skilled, well trained employees are the key to its on-going success."
– David Monondi, Human Resources Development Manager at Kenya Power

**Answers for infrastructure and cities.**
Two-week period. Thirty engineers and managers attended the 2013 program where they received three courses over a two-week period. In addition to offering flexibility, this approach encompasses all options of training; open enrollment, onsite and customized content. Maximizing the client’s training budget, minimizing travel costs, and reducing time away from home and office offers the added benefit of optimizing the training investment as in the case of Kenya Power.


With multiple power outages, growing network and the need to modernize fuel sources, they identified some tough challenges - support reliability and investments for system modernization to support load growth. It was evident on day one that the Low-voltage Network Systems course would be of value. The first day of class, the instructor worked through as series of outages and witnessed first-hand the stress on the operations teams. While Kenya Power does not currently have any low-voltage networks, the Low-voltage Network Systems course gave the engineers a keen understanding of, and interest in, the possibilities a pilot low-voltage network project could offer them as they plan to interconnect a new high-rise being planned for the city of Nairobi.

As a result of our training partnership, Kenya Power was able to secured international development and investment funds to support their training investment efforts. This allowed for additional content customization for example the content included the analysis of revenue requirements incorporating Kenya Power’s financial data in the Power Distribution Systems, Utility Economics and Finance course providing a solid understanding of OPEX and CAPEX requirements.

Experienced instructors connecting classroom, planning room and control room = measured benefits directly relating the course content to real-world applications, by engaging participants, fosters idea generation and making knowledge transfer a training investment that pays off for clients such as Kenya Power.

Partnerships programs pay off
Certified Siemens Power Academy Instructors annually travel to client facilities around the world. Many of our clients plan one-to-two years in advance their annual training investment objectives. Pre-planning offers the best availability of key instructors, maximizes training investments and allows clients time to incorporate international and grant funded training dollars.

For example, Kenya Power secured support for their spring 2013 program where they received three courses over a two-week period. Thirty engineers and managers attended the course gave the engineers a keen understanding of, and interest in, the possibilities a pilot low-voltage network project could offer them as they plan to interconnect a new high-rise being planned for the city of Nairobi.

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How to begin
For additional information on this and other training opportunities, please contact the Siemens Power Academy TD at +1 518 395 5005 or email at power-academy.us@siemens.com.

“With multiple power outages beginning the first day of instruction, the instructor experienced firsthand some of the real challenges Kenya Power faced. The experience enabled him to directly relate the training program to real-world applications.”

– Henry Gichung, Deputy Manager OffGrid Systems at Kenya Power

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