The Challenge... Today, power supply is of utmost concern. Increases in demand continue to burden power suppliers – emphasizing the critical importance of maximum efficiency and reliability.

Utilities continue to strive for ways to maintain their generation capacity. Most have established “Life Management Programs” to extend the life expectancy of the turbines and generators.

Units twenty or more years old are expected to be in operation for another twenty years. However, many utilities neglect to consider the Excitation Control Systems. Are they keeping up with today’s demands of voltage support throughout the system?

The Solution... Evaluation and Enhancement Study of your Excitation Control Systems – an inspection and appraisal of each System, compiling a Life Assessment Analysis including all retrofits options and short/long term recommendations with regard to the operation of each System.

The Source... E₂ Power Systems, LLC offers technical consultation and a demonstrated expertise with regard to Generator Excitation and Voltage Regulator Systems. Our background includes many years of experience with a large manufacturer of steam, gas, and hydro turbine-generators.

E₂ Power Systems, LLC has experience on systems ranging in size from 70kW to 1,300 MW.

Evaluation and Enhancement Studies of the Excitation Control System by E₂ Power Systems, LLC include the following general work scope:

1. Site inspection and appraisal of each System.
2. Review of data files on each System.
3. Engineering Study at our Littleton, Colorado, office.
4. Submittal and presentation of the Final Report, which will include:
   - Project Summary
   - Project Recommendation on a priority basis.
   - Detailed reports on each System including a summary, recommendation, and all of the data compiled
   - Report Appendix

Call us at E₂ Power Systems, LLC to further discuss the expert engineering services that we can perform on your Excitation Control System, independent of all excitation equipment manufacturers. References provided at your request.