PAPER ASSIGNMENT – Due Friday, October 29

1. Using a word processor, write a 9–12 page double-spaced paper summarizing at least 3 articles on your selected topic. Paper should have a separate cover page, 1” margins on all sides, and use 11- or 12-point font.

2. Turn in paper and copies of articles by the beginning of class, Friday, October 29.

3. Papers will be graded for content, grammar, and general organization.

4. Choose a topic from the list below. A topic not on the list below can be chosen with approval of the instructor.

1) **high voltage dc (HVDC)** - interface between dc transmission line and ac grid
2) **flexible ac transmission Systems (FACTs)** – specific circuit topologies like STATCOM, UPFC, Series Compensator, compensator with energy storage, etc.
3) real-time pricing, measurement, or compensation of **active or nonactive** (reactive) **power**
4) **utility application of wide band gap** power semiconductor devices
5) advanced **energy storage** mechanisms (ultracapacitor, superconducting magnetic energy storage (SMES), etc.).
6) **stability control** or **oscillation damping** in a power system
7) interface between a **distributed energy resource** (solar cell, fuel cell, microturbine, wind power) and the utility system