

Power Engineering Programs at Universities

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University organization

- There are over 300 engineering colleges
- Less than half do research
- Over half have less than 100 faculty
- Power engineering is usually part of EE
- Power Engg programs with ≥ 3 full-time faculty less than 30
- EE undergraduates taking power engg electives increasing

University politics

- For power engg programs to be important, it has to match department, college, university priorities
- Priorities are set on getting visibility
 - Research visibility is the easiest
 - Producing employees for regional needs

University realities

- US production of engineers will not meet demand: no compelling reason for having power engineering option
- Possible today to be EE without any course in AC circuits or elec machines
- Other areas of EE have more research funding than power
- Jobs in power are increasing but supply of EEs decreasing

University success

- Power industry needs to be more involved with the universities at all levels: president, dean, dept. head, faculty
- Power industry needs to stress technology and innovation: also engage federal government
- Good news is that 'energy' is a focus area in every university: power can have visibility all across campus