The Electrical and Computer Engineering Program presents

Energy efficiency and its impact on our daily life

Professor Akhtar Kalam

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Conference room 310

In order to improve Australia’s energy efficiency by 2020, Australia needs to deliver a step-change improvement which requires dramatic and sustained actions. This will require:

- increasing awareness of, and attention to, improved energy efficiency
- eliminating or reducing the effect of a range of barriers that block or discourage worthwhile action, including moving towards full energy pricing through the introduction of a broad-based carbon price.

This is not a simple task; it is likely to take a sustained commitment over the next decade. Australians need to make choices on investment in energy and its use. Ideally energy efficiency measures should:

- directly target the issue that needs to be addressed
- be simple to understand and easy to access
- be part of a national, coordinated framework that avoids duplication
- be fair and equitable across income groups and economic sectors
- minimize the level of risk or uncertainty faced by individuals, businesses and governments
- maximize use of existing mechanisms and processes to avoid unnecessary costs of adjustment
- be flexible enough to allow new technologies and solutions to develop.

This presentation will conclude by showing:

- Significant reductions in greenhouse gas emissions are achievable
- Significant quantities of ‘negative-cost’ opportunities are available
- The long-term marginal cost of abatement is likely to be close to A$60 – 70 per tonne CO2e
- The promotion and adoption of energy efficiency may involve communication more than technology

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