

WATERLOO INSTITUTE FOR NANOTECHNOLOGY AND
WATERLOO INSTITUTE FOR SUSTAINABLE ENERGY

distinguished lecture series



Energy Technologies, Energy Security & Climate Change

R. CHIDAMBARAM

Principal Scientific Adviser to the Government of India
Chairman of the Scientific Advisory Committee to the Cabinet

R. CHIDAMBARAM

Per capita electricity consumption is an important parameter determining the Human Development Index. For a 'developing' country like India, per capita electricity consumption must increase manifold before it can become a 'developed' country in the fullest sense of the term. Nuclear and renewables are important energy technology options, for both developing and developed countries. For nuclear to be a sustainable option, in the context of energy security and the climate change threat, the nuclear fuel cycle must be closed, including with thorium utilization. In the shorter-term, low (or relatively lower) carbon technologies, ranging from advanced ultra-supercritical thermal power plant technologies to carbon capture and storage technologies, have to be developed. Accelerator-driven systems and nuclear fusion can also emerge as important technologies in the future. International collaboration in energy technologies, based on enlightened self-interest as well as altruism, is desirable for global energy security.



Tuesday, October 26th, 2010 2:00 – 3:00 pm

Reception to Follow

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