The 8th IECEC will explore the future of clean energy systems through a series of panel discussions and technical paper presentations. Topics for 2010 include:

- Energy Policy, Environmental, and Historical Perspectives
- Energy Conversion Device Technology
- Energy Storage Technology
- Thermal Management Technology
- Fuels, Combustion, and Terrestrial Energy Systems
- Aerospace Power Systems

There will also be a continuation on the discussion of future energy policy needs to answer the demand for "green" energy systems.

From the Call for Papers (click the link for the full CFP and the full list of topics):

Energy Conversion Device Technology

Technical papers are sought that discuss the details of various types of energy conversion devices, including, but not limited to, the specific devices listed below. Papers should address specific characteristics, processes, and methodologies. Topics may include initial concepts, device component fabrication, modeling, analysis, testing, operation, and applications.

Direct Energy Conversion Devices and Components

- AMTEC
- Magnetohydrodynamics
- Photovoltaic devices
- Thermionics
- Thermoacoustic engines
- Thermoelectrics
- Thermophotovoltaics
Thermodynamic Devices, Components, and Systems

- Advanced cycles
- Brayton and Rankine cycles
- Heat engines and heat pumps
- MEMS
- Stirling engines

Advanced Energy Conversion Concepts

Combined Heat/Electrical Power Concepts

Applications of Nanotechnology for Energy Conversion

See the conference website for full details.

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