Roadmap Development

High Megawatt Converters for High Megawatt Converters
Commercial Scale Applications

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Potential Markets

- **DOE Applications**
  - 250-800 MW SECA-Based IGFC FutureGen Power Plants (with CO2 capture)
  - Freedom Car
- **HVDC Power Transmission**
- **DOD Applications**
  - Pulsed power
  - Vehicle motive power
  - Ship power generation and distribution
  - Ship propulsion
Roadmap Development Issues

• Are there new materials, devices, and topologies that would accelerate the achievement of the cost and performance requirements for power conversion systems for these markets?
• How should a Roadmap process to achieve this objective be organized?
• Should it work down from topologies (market pull) or up from materials (technology push)
• Should a continuous integration and evaluation process be used to identify the most promising targets of opportunity?
What’s Next?

• Formation of a committee to participate in developing the Roadmap
• Volunteers to staff the committee and its subcommittees
• Should subcommittees be organized by market thrust, product power capacity, time frame of development, other bases?
• Timeline for development of the Roadmap
• Would the formation of an Interagency Task Force on this subject be of value?