

Energy Management Vision and Scope

*Ultimately the vision and goals of the Energy Management Technical Committee (EMTC) will be defined by its members and inputs from stakeholders. This is a **timely opportunity** for anyone with an interest/need in this area to engage, influence its direction and increase the value delivered by its activities.*

The current mission of EMTC is to *'identify & foster opportunities for energy management improvements & breakthroughs in Power Electronics systems driven and supported by existing and evolving standards and benchmarks'*. This will be achieved via the creation of a technical, educational, regulatory and business model support system to give direction, stimulate innovation and create synergies. The EMTC will serve the needs of all stakeholders including manufacturers, researchers, system integrators, users, government and non-government organizations.

To date focal areas identified include the following but suggestions for modification/expansion to other topics to improve impact and relevance are welcomed:

- Micro-Grid and Distributed Energy Resources (DER) devices and systems that include: Wind Generators, Photovoltaic Systems, Fuel Cells, Heat Pumps, Wave Power Generators, Internal combustion reciprocating engines, Micro Turbines, Waste Heat Recovery Devices and Energy Storage Systems.
- ICT enablement to improve inter-operability, condition monitoring (performance, reliability, predictive maintenance) of equipment, infrastructure and environment.
- Updating PSMA members on the status, trends, issues and opportunities related to alternative energy products and system applications based on emerging technologies, emerging markets and new applications.
- Creating cooperation & synergies between PSMA and manufacturers, industry standards organizations and government policy-making agencies on technical, business model and regulatory matters regarding energy management of power networks including mix of both renewable and traditional energy sources.
- Encouraging participation of PSMA in international and domestic conferences and technical workshops in each continent.
- The maintenance of a *regulations & target energy efficiency performance (?)* data base. This will encompass consistent and realistic global standards and targets for power electronics energy efficiency (e.g. no-load, standby, and active-on) for on and off-grid based on existing and emerging international standards. Access to the data base will be free but will require the individual to register for the availability of both PSMA members and to the others in the industry.
- Opportunity to "Give back" to the industry and continue to expand your knowledge.