



Partnerships with MEPs

PowerAmerica Education & Workforce Development

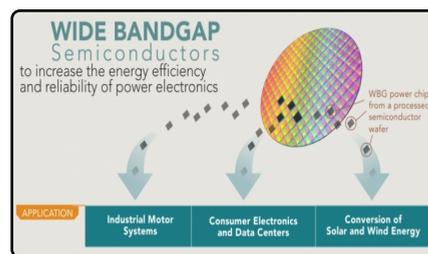
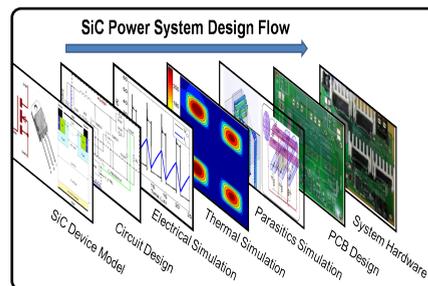
The overarching goal of PowerAmerica is to catalyze the acceleration rate in the adoption of power electronics based on wide-bandgap (WBG) semiconductors. The current global power electronics marketplace is \$20+ billion with silicon devices commanding nearly 87% of this market. WBG power electronics have many performance characteristics that are significantly superior to those of silicon. These characteristics translate to large increases in energy efficiencies, notable reductions in overall production and operating costs, and new opportunities in emerging markets.

As the WBG power electronics market grows, it will generate new jobs that require people who possess the necessary advanced skill sets to design, manufacture, install, and repair WBG-based products. The goal of PowerAmerica's Education and Workforce Development Program (EWD) is to build a nation-wide workforce pipeline with the required skill sets. EWD will provide opportunities and access to ...

- ▲ Summer Institutes;
- ▲ PowerAmerica's EWD Portal:
 - Webinars;
 - eLearning;
 - M-Learning (mobile);
 - Asynchronous short courses;
 - Certificate programs;
 - Topic-specific learning modules;
 - Links to other educational.

For more information, please contact Emily Cayton (emcayton@ncsu.edu), or visit our website.

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PowerAmerica's vision is to act as a catalyst in the technology commercialization of wide bandgap (WBG) semiconductor power electronics and in dramatically accelerating the adoption rate of products they enable.

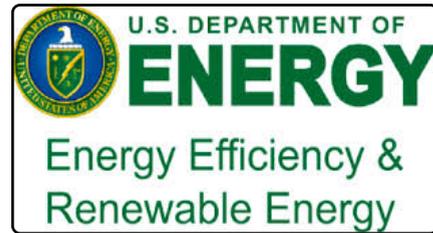
As part of this, PowerAmerica is leading the establishment of a world-class consortium of government agencies, academic institutions, and industrial partners.

This consortium will:

- ▲ Develop critical WBG power electronics technologies;
- ▲ Identify, validate, and drive demand in emerging high-value markets;
- ▲ Help establish, support, and encourage growth in the U.S. manufacturing base;
- ▲ Act as a clearinghouse, collaborator, and provider of education and workforce development programs.
- ▲ Help ensure sustainable economic and environmental benefits afforded by WBG semiconductors are provided to the nation.

This vision is being funded through a \$146 million cooperative agreement comprised of \$70 million from the U.S. Department of Energy, \$60 million from PowerAmerica's industry partners, and \$16 million from the residents of the State of North Carolina and their university system.

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