

The background of the slide is a photograph of high-voltage power lines and a wind turbine against a cloudy sky. A large, semi-transparent red rectangle is overlaid on the lower half of the image, containing the main text and the Gridtec Solutions logo.

planning, design, support,
solutions



Gridtec
Solutions

Ensuring that transmission and distribution networks meet the needs of the system operators often means dealing with a variety of vendors that have multiple sets of solutions.

Very few companies will take on the overall responsibility, beginning with initial planning through equipment supply to final commissioning. Given the challenges associated with defining a total system-optimized solution, coordinating with multiple vendors and commissioning the complete solution, it takes an organization with diverse capabilities to ensure success for the customer.

Through its Network Planning and Applications team, AMSC has the expertise and experience to help you address these challenges.

We are an experienced team that works closely with utilities and energy developers in the analysis and engineering of the right solution. We ensure the solutions that are developed and installed meet each customers' unique application requirements. From feasibility study or project concept, through system installation and commissioning, to model validation and grid code compliance, we deliver.

Our power systems engineers bring industry insider backgrounds to every project. Our comprehensive understanding of utility operations and power networks helps reduce costs and enhance grid performance. Beginning with an in-depth needs assessment, we model the characteristics of your network's operating behavior utilizing industry-standard, customized and proprietary software.

Our Network Planning and Applications team works integrally with customers to ensure that each and every need is adequately understood and addressed. Our ability to view our customers' needs holistically, and then hone in on the right answer for their specific needs, ensures a fully optimized, efficient and reliable solution. AMSC products are highly engineered and are based on specific individual customer needs. The better the upfront planning, the better the result.

In a complex world, it's that simple.



Knowledge Capital

AMSC's Global Technical Workshops Program provides the know-how now, delivering pertinent and timely knowledge for our customers. Recent programs covered topics including solving voltage stability problems and meeting utility grid codes for renewable energy projects such as for wind and solar generation.

Services and Tools

Our comprehensive understanding of utility operations and power networks, coupled with our proficiency with industry standard and proprietary analysis tools, yields sophisticated and customized solutions that can be implemented quickly, reliably and cost effectively.

Our power system analysis expertise includes the following areas:

- Steady-state load flow controls
- Dynamic stability studies
- Transfer capability studies
- Power quality and reliability studies
- Harmonic studies
- System impact studies
- HTS cable design & application studies

We have extensive experience with proprietary as well as industry standard analysis tools, including the following:

- Transmission and Distribution System Voltage Stability Screening Program
- Siemens PTI PSS® E Load Flow and Stability
- GE PSLF Load Flow and Stability
- DIgSILENT PowerFactory Load Flow, Stability and Transient Analysis
- PSCAD® EMTDC
- EMTP-RV
- PowerWorld

Plan to succeed

AMSC's Network Planning and Applications team is composed of experienced former utility engineers. The team will work closely with you and your team to architect a thorough and customized solution that meets your specific needs and cost effectively enhances your system's reliability.

We are an experienced team that provides engineering analysis and solution development to utilities and renewable energy developers.

We ensure that the solutions developed and installed meet your application requirements.

From feasibility studies or project concept, through system installation and commissioning, to model validation and grid code compliance.

Our power systems engineers bring their industry insider backgrounds – their comprehensive understanding of utility operations – to every project.

Following an in-depth needs assessment, our engineers model the characteristics of your network's operating behavior with industry-standard and customized software.

Network Planning and Applications Group

About AMSC's Gridtec Solutions

AMSC's Gridtec Solutions are a set of engineering planning services and advanced grid systems that optimize network reliability, efficiency and performance from the point of generation through transmission and distribution. We supply components, systems and solutions to some of the industry's biggest names. From wind parks to solar power plants and from utilities to large industrial manufacturers, our commitment is to deliver the right solution for our customers, each and every time. Whether a simple component or complex system-level solution, we focus on ensuring that the investment is right, and right for you – delivering reliability, security, efficiency, scalability and tangible long-term benefits.

For invaluable advice and compelling solutions, we are the partner you can turn to.

About AMSC

AMSC (NASDAQ: AMSC) generates the ideas, technologies and solutions that meet the world's demand for smarter, cleaner ... better energy. Through its Windtec Solutions, AMSC enables manufacturers to launch best-in-class wind turbines quickly, effectively and profitably. Through its Gridtec Solutions, AMSC provides the engineering planning services and advanced grid systems that optimize network reliability, efficiency and performance. The company's solutions are now powering gigawatts of renewable energy globally and enhancing the performance and reliability of power networks in more than a dozen countries. Founded in 1987, AMSC is headquartered near Boston, Massachusetts with operations in Asia, Australia, Europe and North America.



Talk to us about

- Solving your most complex power challenges
- Enhancing competitive advantage
- Improving your system's performance, reliability and profitability

www.amsc.com

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Whether you wish to make new advances in renewable technology, optimize power generation or delivery, or simply gain a better understanding of the issues you face, please get in touch. We're here to help.



smarter, cleaner
... better energy

