Our Large Project Team operate at the apex of engineering, procurement & construction across the most complex and critical grid automation projects globally.

Large Project Team
Simplicity specialists

- Specialists in making the complex straightforward
- Finding solutions that perfectly fulfill your project requirements
- ABB Grid Automation Technology
The most basic mission of any complex project is to keep operations efficient, work optimized, and to ensure investments are performing at their peak in line with the project timelines. ABB’s Large Project Team deliver the largest critical automation, control and communication projects across the globe. Our specialist team consists of ABB’s leading product design team, product engineers, project management and in-field engineers. Our purpose is to lead the world by engineering the most demanding power grid and critical infrastructure projects and our mission is to deliver these as efficiently and cost effectively as possible for the benefit of our customers.

The Large Project Team marries together the brightest minds across ABB to deliver engineering skillfulness and management proficiency, gathered in one team. With the common purpose to deliver turnkey automation project packages and to alleviate the problematic implementation of large engineering projects. The technology experts in ABB’s various global centers also combine to work in conjunction with local ABB operations and external partners to find the most competitive and efficient solution for the Large projects. Ensuring they run smoothly from the planning process, through the implementation phase and long into the operation lifetime of the grid.

ABB is a pioneering technology leader that works closely with utility, industry, transportation and infrastructure customers to write the future of digitalization and realize value in roughly 100 countries. With more than four decades at the forefront of digital technologies, we are a leader in digitally connected and enabled industrial equipment and systems with an installed base of more than 70,000 control systems connecting 70 million devices. Each year we dedicate around $1.5 billion to fund research and development activities driven by our 7,900 technologists in our four divisions and seven corporate research centers.

In order to enable our customers to manage the increasing demands and complexity of their power grids and critical infrastructure operations, ABB Grid Automation’s complete portfolio will enable our customers to supervise, control and optimize their network. From data acquisition, telecommunication up to complete control and operations centers with the required equipment, software and services as turnkey.

Trust in ABB to deliver on our promises, with more than 100 years expertise in planning and implementing power grids you can be assured that we are the right partner for your project – no matter its scale.
Complex Project Process Gate Model

Tested and proven approach to the most complex projects.

“Our purpose is to lead the world by engineering the most demanding power grid automation and critical infrastructure projects and our mission is to deliver these as efficiently and cost effectively as possible for the benefit of our customers.”
100+ Sales & service support centers.

40+ Engineering centers.

10+ Manufacturing locations.
**Working closely together**
Finding solutions that perfectly fulfills your project requirements.

When our Large Project Team make a bid for a project we bring technologies and people together, making sure the solution precisely meets the project requirements.

ABB’s Large Project Team will have project management resources situated close to you, either on premise or at your local ABB office. The team will be your regular liaison, providing face-to-face interaction with you on all aspects of the project. We will strive to involve you early in the project, to ensure you can gain the greatest understanding of the technology and grant us your valuable input on how we can configure the system to the requirements of your operations. Our project managers will draw upon ABB’s global experts needed to ensure we provide the best solutions throughout the execution and commissioning process. We will always take a pragmatic approach to solving the most complex of situations and will make the final decisions together with you.

Our Large Project Team is a centralized organization, but we will always include local ABB colleagues in all stages of the project. ensuring local competence for future service and expansions. This will also mean a continual improvement in the agility and efficiency of our relationship in the future.

**Operations across the globe.**
Close to you wherever you are.
ABB Grid Automation Technology
Energizing the digital grid.

ABB Ability Network Manager SCADA
Network Manager SCADA is a real-time platform for reliable and secure operation of electrical power networks, ranging from generation, transmission and distribution to railways and airports. Hundreds of ABB customers in the utilities, transportation and industrial sectors around the world rely on Network Manager SCADA to efficiently control and manage their power systems for optimal performance.

Substation Automation Protection & Control
Substations are the building blocks for any grid. ABB has been automating those substations ensuring highest interoperability, thanks to international standards like IEC 61850, and providing grid operators and owners with highest efficiency and increased productivity. Without adequate protection those substations can quickly come tumbling down. ABB has been preventing that happening successfully during the last 100 years, with protective relays and breakers connected over bulletproof telecommunications.

Modern grid automation nowadays is digital. So digital substations can increase controllability, facilitate the integration of intermittent renewables and improve safety by replacing copper cabling with fiber optics. ABB Grid Automation enables the digitalization of the grid so that our customers can improve reliability and ensure safe and clean energy supply to their consumers.

ABB Ability Ellipse connected asset lifecycle management
ABB Ability Ellipse is ABB’s connected asset lifecycle management solution that unifies world-class functionality for enterprise asset management (EAM), workforce management (WFM) and asset performance management (APM). Ellipse facilitates the orchestration of priority, process and people across an organization, enabling the management of physical assets across the entire asset lifecycle. From strategy through execution, Ellipse is a robust and comprehensive business and technology solution.

Mission Critical Communications
ABB’s wired and wireless communications technology serves customers in numerous areas including power generation, power transmission and distribution as well as customers in mining, oil and gas, transportation and public infrastructure. As one of only a few companies that provides protection and control solutions in addition to communication networks for the operation of power grids, ABB can deliver outstanding solutions for the demanding applications of power utilities including network supervision, protection systems and communication solutions for operational networks.
Engineering
The customer’s requirements are “translated” and processed into the basic/detail design by highly skilled specialists, applying and utilizing the accumulated experience of ABB. Automated engineering tools for systems configuration minimize the risk of errors due to manual or multiple data entry.

Advanced, impeccable engineering makes system integration and commissioning easier and faster. The customer receives in advance a virtual system file including HMI for training purposes.

Manufacture & testing
We manufacture according to the highest standards. Streamlined and flexible manufacturing processes ensure that quality is consistently maintained. Our testing area is equipped with state-of-the-art testing facilities developed in house. We ensure smooth installation and commissioning.

Training center
We train on average 800 participants per year in automation, protection, SCADA applications (supervisory control and data acquisition), ABB Ability Ellipse and Power grid management, on location at ABB University locations around the world or directly at customers’ premises. We are also in charge of empowering our engineering centers in IEC 61850 SA system integration.
ABB Grid Automation
Large Project Team
Your reliable, innovative partner.

ABB is an engineering pioneer, investing in technology and people so we can lead the world in delivering the most demanding power grid and critical infrastructure projects on the planet.

High investments for technology that works.
ABB invests around 10% of its revenues in research as well as development and runs a large R&D center. ABB is the partner who brings you these technologies in a mature form thanks to continuous investment and a highly professional and experienced organization.

Talented people.
ABB manages to attract the most talented engineers from all over the world since we are the most attractive employer for engineering graduates work closely with the class universities in the world. ABB has delegates in UCA, CIGRE and IEC, to name just a few. In these forums, we share our expertise and discuss our vision with all players in our industry.

Your local ABB unit.
One Large Project Team plus a worldwide network of local engineering centers and ABB’s global presence means, customers always have local contacts – their local ABB unit. ABB understands the regional requirements and offers customized, fast, optimal value services.

Project Management and More.
Besides this enormous engineering power, ABB offers everything from single function products, to complete substation automation systems with integrated protection, control, and communications. That applies for standard and complex substations, IEC and ANSI standards.
ABB Grid Automation Service
Protection for your investment.

Through our four key service agreement packages, we can provide ongoing technical and functional support to help you meet your objectives.

1. Rapid response
When something goes wrong, you need it fixed fast! Whether it’s spare parts, replacement equipment, or repairs, our service agreements are tailored to your needs. Our remote services and 24/7 call center also provides quick troubleshooting and root cause analysis services so you can identify the most effective course of action and address problems before they grow.

2. Operational efficiency
Need to address a sticky issue? Our service team can help you assess the challenge and design cost-effective, fit-for-future solutions. In addition, we offer a wide range of commercial and proprietary enterprise-level applications to help you improve operational efficiency.

3. Performance improvement
Hitting key performance targets can be tough to do when you’re trying to keep costs under control. Our team can devise solutions that help you hit your targets as well as provide software applications that deliver actionable insights for future performance improvements.

4. Life cycle management
Cradle to grave, Grid Automation Service is there to help you take care of your assets by providing, maintenance, replacements, spare parts and consumables, and training. We can also help you extend the life of your assets with extensions, upgrades, and retrofits. When it’s time to retire an asset, we offer end-of-life services that help you do so cost-effectively and responsibly.

We are with you around the world
ABB Grid Automation Service has more than 150 Customer Care centers strategically located around the globe. These one-stop-shops are staffed by 6,000+ professionals with extensive industry and service experience on a wide array of power equipment and systems. Our team of power experts and analysts can help you address today’s toughest power challenges and prepare you to meet the challenges of future.