



Energy Intelligence

StartGrid™ - Smart Grid for the low-voltage distribution network

Product brief



amplex



Bridging the LV gap

The medium and high voltage grids have traditionally been monitored and controlled using carefully built infrastructure. The LV grid with its widespread and numerous end points has, however, at best been estimated and at worst been completely ignored - hence the term LV gap.

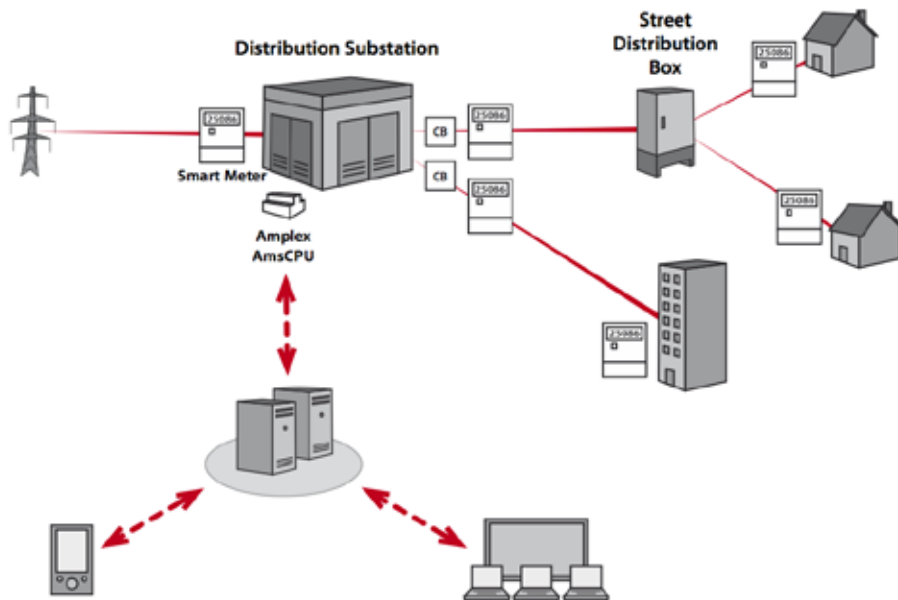
At Amplex, we see an urgent need for paying closer attention to the LV network. The benefits include:

- Accelerated network repairs, minimized down-time and blackout risk
- Pinpointing of costly losses - technical and non-technical
- Making optimal use of the existing infrastructure and avoiding additional capex
- Minimizing waste in field operations through better use of mobile tools and workforce management
- Enabling preventive measures - tracking and providing alarms on quality issues, unbalanced loads, unauthorized entries, etc.

The StartGrid™ system is a modular addition to existing utility assets such as substations, street cabinets, etc. Adding communication modules, smart meters and circuit breakers, the collected data is used to streamline operations and maintenance. StartGrid™ consists of low-cost end units that are simple to install and yet powerful enough to collect granular details about the sites they monitor.

With StartGrid™, Amplex addresses the challenges of:

- The cost associated with equipment, installation and maintenance
- The potentially labor intensive configuration and management associated with thousands of end points
- The transformation of substantial data into actionable information



Smart meters at utility customers and substations collect valuable data that are sent to the central platform for further analysis and actions.

The StartGrid™ system is designed to work with a variety of data carriers, including mobile networks already in place. Intelligent communication and control units let the utility company pinpoint wasteful scenarios as well as predict future problem areas. The first site can be installed, configured, and provide new insights with minimal effort. As more sites are surveyed and installed, a database of knowledge is created and paves the road for the full benefits of a completely automated system.