Packaged E-House Solutions for Drilling Rigs

The ABB Lead Competence Center (LCC) for Drilling Drives offers specialized application expertise and solutions for self-contained power plants, or E-Houses, for newbuild or retrofit drilling rigs.
**E-House Solutions for Drilling Rigs**
- low cost, high performance packaged electrification solutions

**A Complete Power Plant Solution**
designed to meet the needs of each installation

**The benefits of ABB E-house solutions:**
- Low investment risk
- Increased fuel economy and reduced emissions
- Cost-effective equipment maintenance requirements
- Operational effectiveness and flexibility
- High system availability (low down-time)
- Product lifecycle support
- Global service and supply network distributed over more than 100 countries
- Standardized equipment gives ease of service and maintenance
- Compatible with drilling equipment from all major suppliers
- Communication with all recognized control system vendors
- Responsibility for interface engineering provided
- Field proven, "state of the art" technology
- Products from a comprehensive portfolio ensuring ease for future modifications
- Engineering application expertise
- Comprehensive documentation provided
- Professional project management
- Certified in accordance with ISO quality standards
- Occupational health and safety design features

**ABB is a leading supplier of electrical power and automation products for oil & gas applications and offers state-of-the-art drilling drive technology for onshore and offshore drilling rigs. Our electrical power and drive systems are renowned for their high performance and reliability, and can be delivered worldwide to drilling rigs as self-contained power plant containers, or E-Houses.**

**A history of drilling drive innovation**
ABB has been a locomotive of development in oil and gas drilling drive technologies for over 30 years. SCR drive systems together with DC motors constituted the bulk of ABB's early deliveries to this market. But this changed in 1993 when ABB delivered the world's first AC drilling drive system to the giant Troll A gas platform in the North Sea. This installation marked the beginning of a new industry standard for newbuild drilling rig drive systems. Since then, ABB has continued to develop its SCR products in parallel with AC variable speed drives, and remains at the forefront of this technology, serving the demands of both retrofit and newbuild drilling rig markets.

**Tailored system solutions**
ABB not only supplies leading edge equipment, but also fully engineered solutions in accordance with the individual needs of each customer. Items such as ease of storage, transport, hook-up, start-up, operation and down-rigging are addressed through the implementation of proven standardized solutions. An extensive equipment portfolio ranging from power generation and distribution switchgears to individual electrical drive components and fully automated systems is available for integration in larger systems or as mechanically complete packaged units.

**A dedicated drilling drives business unit**
A dedicated “Lead Competence Center” (LCC) for drilling drives has been established within ABB’s “business unit” for oil and gas related activities. It is directly from this LCC that packaged drilling E-house solutions are offered. Based on specialist application expertise accumulated through long-term, pro-active involvement in the oil and gas marketplace, LCC Drilling Drives also offers highly qualified services including feasibility studies, design engineering, commissioning, training, service and worldwide lifecycle support.

**ABB E-House deliveries**
- AC/DC Drives, switchgears, power generation & management
- Cabins, chairs, consoles and panels
- Instrumentation and control systems
- Communication systems
- Studies and engineering
- Installation, commissioning, service and training
- Designs for hazardous areas available
- 24-7 worldwide service and logistics

**ABB E-Houses are designed using experience gained through successful delivery of nearly 100 land and offshore drilling rig power plant containers since 2000.**