ACTive Power® CT real-time powered downhole measurements system

Save time, improve efficiency and data quality, and eliminate battery risks in CT interventions

**Time:**
Enables virtually unlimited downhole intervention operation time and uninterrupted data flow

**Temperature:**
Extends operational temperature window

**Electrical:**
Eliminates lithium battery disposal and risks

*Where it is used*
Coiled tubing interventions that require powered and fiber optic downhole tools

*What it replaces*
Lithium battery-based downhole power systems

*How it improves operations*
- Enables extended intervention operations by eliminating the need to pull tool strings out of the well to replace batteries
- Increases flexibility to use logging and other powered tools during CT interventions
- Improves interpretation depth and capabilities with uninterrupted flow of downhole data throughout the operation
- Simplifies rigup by eliminating the battery BHA and reducing tool length
- Eliminates battery-management challenges such as cold weather depassivation, shelf life, and HSE concerns related to lithium battery disposal

*How it works*
ACTive Power® CT real-time powered downhole measurements system delivers continuous fiber optic data and power from surface through a hybrid cable in the tubing, eliminating the need for batteries to power downhole tools. The result is virtually unlimited downhole intervention operation time for powered tools—including logging tools—with real-time downhole data through fiber optics.

ACTive Power system extends the performance of CT downhole tools to improve operational efficiency, data delivery, and environmental footprint.

With fewer trips to surface for battery replacements, operations are more efficient. Downhole tools that were previously used in some longer operations only intermittently during the job to avoid battery depletion can be used continuously to improve data quality and interpretation capabilities, leading to enhanced decision-taking and overall operational performance. In addition, new tools and operations can be developed that previously were impossible because of battery limitations.

ACTive Power system eliminates the battery module, it simplifies rigup for operations such as selective stimulation and perforating, which often have long BHAs.

*What else I should know*
The system comprises software to monitor and control tool string power and operations; a surface power module that provides the power to the tools; a continuous electrical interface between the stationary power unit and the rotating CT reel; a surface pressure bulkhead that terminates the optical fibers and conductors; a downhole power management sub; and the hybrid electrical and fiber optic cable inside the tubing.