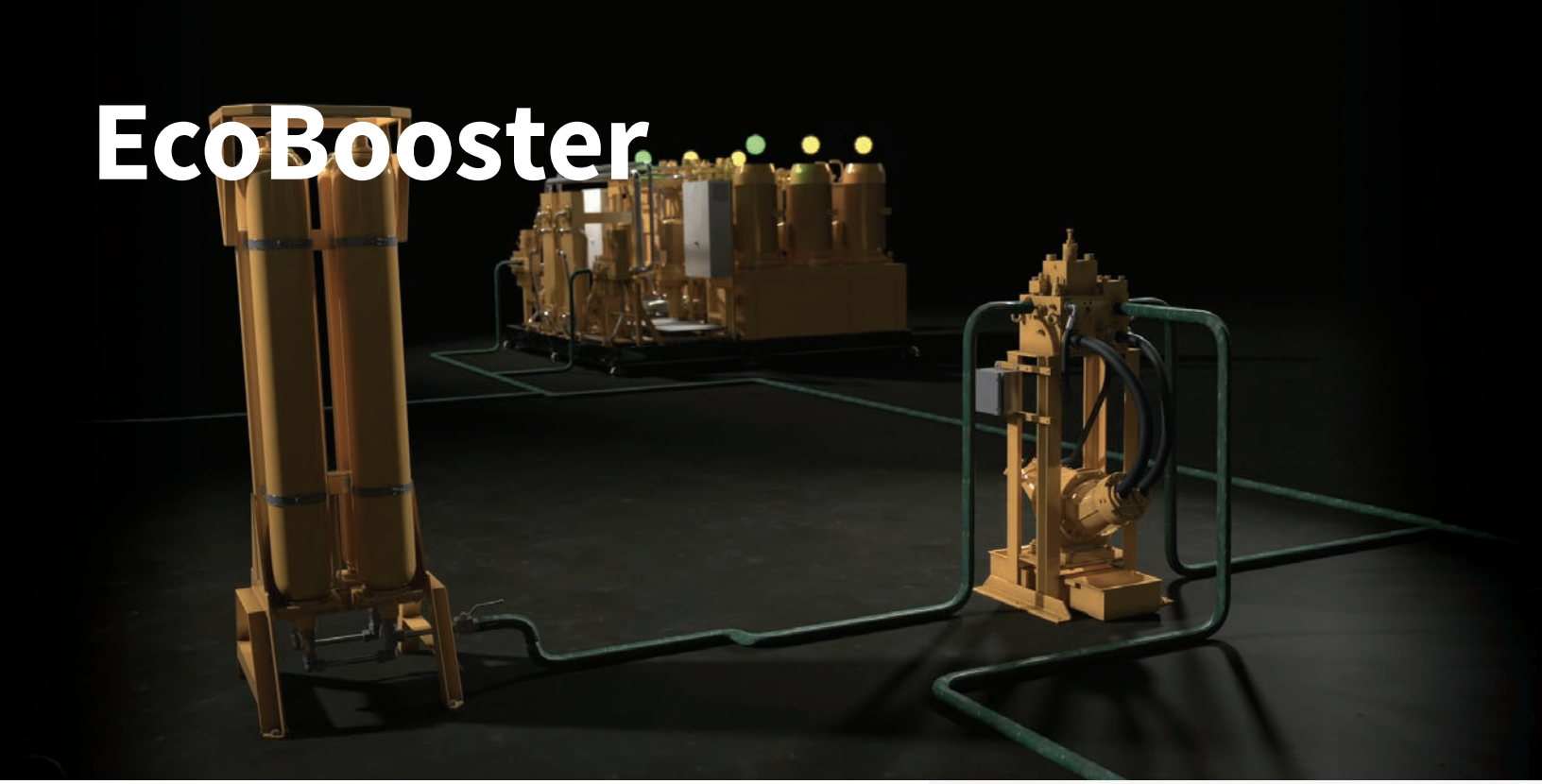
EcoBooster



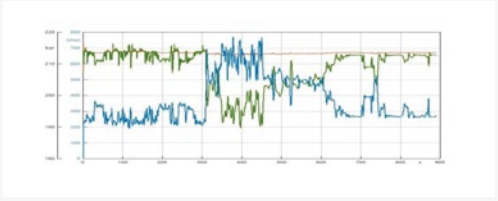
Optimize your rig hydraulics

Machinery flow requirements rapidly change on the drill floor. The number of running pumps on the ringline hydraulic power unit (HPU) must match the highest theoretical flow requirement, even when a peak lasts only a few seconds.

EcoBooster™ is a hydraulic energy storage system that stabilizes ringline pressure and enables peak shaving on the HPU, enhancing performance and reducing the number of active pumps. Fewer active pumps reduce fuel consumption, carbon emissions, maintenance, and costs.

Our EcoBooster system consists of a compact and easy-to-install accumulator skid and booster pump. A pressure booster charges the accumulators when ringline flow consumption is low. The charged accumulators match the flow requirements and demands, even when they exceed the ringline HPU's capacity.

Accumulator skid and booster skid components of the Ecobooster.



Impact on ringline pressure when implementing the accumulator skid

- Ringline consumption based on a working deepwater semi
- Pressure upstream drops to 190 bar without EcoBooster
- Pressure level downstream accumulator is equal to the setting of the pressure relief valve in the Accumulator skid outlet. The EcoBooster keeps the pressure steady during flow peaks.