

**ENVIRONMENT**Best Practice - Harefield Pipeline Diversion Project**Hybrid Excavators**

JMS have recently bought a new fleet of 35t hybrid excavators.

Harefield are the first site within JMS to use on a project.

The excavator uses an all electric swing system which generates and captures energy.

The Komastu hybrid system uses an electric swing motor generator to capture and regenerate energy as the machine is operated, the energy is then converted and stored.

Stored energy can be used for the machine swing or to assist the acceleration of the engine.

This decreases diesel usage and can reduce engine emissions by up to 30%.

The after treatment installed will also reduce NOx emissions by 80%.



- **Low noise levels**
- **KomVision surround view and high resolution monitor for increased safety**
- **Intuitive on-board diagnostics and Komtrax wireless diagnostics**
- **Heated high back air suspension seat for operator comfort and support**
- **Powerful EU stage IV engine**



CULTURE DEVELOPMENT PROGRAMME

