

# TECHNOLOGIES ALIGN TO ADVANCE EQUIPMENT DESIGN

There have been a number of important advancements in equipment electrification and hybridization. And there's little doubt they will become major drivers of equipment design in future.

“Hybrid technology is here to stay in our industry,” says Bruce Boebel, senior product manager for tracked products, Komatsu America. “We will see ongoing enhancements in the technologies for years to come. It may not be accepted by all customers currently, but as the hybrid technology evolves and fleets expand, more customers will become comfortable with these types of technologies.”

“We believe hydraulic hybrids will dominate the industry in the near future,” says Jenny Elfsberg, director of emerging technologies, Volvo Construction Equipment. “But in the long run, the electric hybrids are the ones that will eliminate the losses most efficiently.”

## THREE TYPES OF HYBRID TECHNOLOGIES in development:

- ➔ **Electric**
- ➔ **Hydraulic**
- ➔ **Mechanical  
with flywheels**