

Eco Mode

The John Deere 550K, 650K, 700K, 750K, 850K and 1050K crawler dozers are equipped with the innovative Eco Mode feature, which can save customers up to 25 percent in fuel with no loss in productivity.

Introduced in late 2014 and early 2015 to John Deere's Final Tier 4 crawler dozer models, the Eco Mode feature optimizes fuel economy while maintaining ground speed by automatically adjusting engine speed and transmission settings based on load.

Utilizing the Eco Mode feature, the crawler dozers can generate the same ground speeds as before, but with even lower engine RPMs, thus saving fuel. Eco Mode optimizes the diesel engine's RPMs with a hydrostatic transmission ratio to achieve the desired vehicle speed at the lowest possible engine RPMs.

By engaging this feature, operators can also reduce noise levels – a benefit to the operator and those outside on the jobsite. Eco Mode can be used in both slow and fast driving conditions and it engages automatically during less load intensive operation, whether traveling at low range or high range track speeds.

Mark Oliver, crawler dozers product marketing manager, John Deere Construction & Forestry, suggests the following strategy for owners to take full advantage of the machine's Eco Mode feature:

- First, allow operators to run full throttle at 2,300 engine RPMs, and have them pay attention to the productivity they're achieving.
- Then, have them run the machine in Eco Mode, which reduces the engine RPMs to 1,700.

"It doesn't take long for them to recognize that they're not losing any productivity with Eco Mode on," Oliver says.

The reason: When the dozer encounters a heavier load, it automatically ramps up to muscle through it, and then returns to 1,700 engine RPMs, a feature John Deere says has the potential to save users up to 25 percent in fuel, depending on the application.

"In fact, customers asked us for the ability to lock Eco Mode in, so an operator can't turn it off," Oliver says. "It's always on."

This feature requires no additional machine cost. John Deere is also implementing the feature on other pieces of equipment, including excavators and backhoes.



650K

Sealed Switch Module Inside Cab



850K



Eco Mode Button on SSM

1050K

