

# Environmental Considerations in the Product Life Cycle

For products such as farm machinery and vending machines operated by engines and motors, the majority of greenhouse gas emissions throughout the product's lifecycle occurs during operation. The Kubota Group believes that reducing environmental load when these products are in use is important.

## ■ Considering the Environment through Electrification of Mini Cultivator, etc.

Trends such as growing one's own fruit and vegetables and the impact of urbanization in recent years have led to an increase in the demand for farm machinery, such as mini cultivator, capable of being used easily near residential areas.

The Kubota Group is attempting to reduce environmental load created during operation through the electrification of farm machinery.

### □ "New Middy Silent Series" Electric Mini Cultivator

The New Middy Silent Series electric mini cultivator is the Kubota Group's first electric farm machine. It achieves zero gas emissions thanks to operation powered by electricity and contributes to reducing environmental load during cultivation work by reducing CO<sub>2</sub> emissions, minimizing noise and so on.



New Middy Silent Series TME20

#### <Environmental load reduction during cultivation work> Conventional model: TMB250 with gasoline engine

- Zero gas emissions
- Reduction in CO<sub>2</sub> emissions
- Noise reduced approx. 14dB\*



\* Noise values are compared at a distance of 7m away from where the machine is operating

[Click here for details on the New Middy Silent Series \(Only in Japanese\)](#)

### □ "Shizukaru" Self-Propelled Electric Lawn Mower

The Kubota Group was the first in the industry to produce a self-propelled electric lawn mower\*. Named Shizukaru, it has achieved zero gas emission thanks to electrification, and contributes to reducing environmental load when cutting grass by emitting less CO<sub>2</sub>, minimizing noise and so on.

\* Self-propelled electric lawn mower: A lawn mower with reduced operational load thanks to self-propulsion.



Shizukaru GC-E300

#### <Environmental load reduction when cutting grass> Conventional model: GC-K300D with gasoline engine

- Zero gas emissions
- Reduction in CO<sub>2</sub> emissions
- Noise reduction of approx. 13dB\*



\* Noise values are compared at a distance 10m away from where the machine is operating

[Click here for details on Shizukaru \(Only in Japanese\)](#)

**■ Battery Interchangeable between Electric Farm Machinery**

The Kubota Group's electric farm machinery adopts a cassette-type battery that can be easily charged using a household power source. The battery can be used in the mini rice cultivator, New Middy Silent Series products, and the Shizukaru GC-E300 lawn mower, helping to save resources.

**Easy charging and easy mounting with the cassette-type battery, which can be easily charged using a household power source.**



New Middy Silent Series (TME20)



Shizukaru GC-E300