

# Semiconductor

**R&D Project Title : Sense & Drive IC for Energy-Saving of Power Devices**

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**R&D Team :**



## Objective:

To contribute to carbon neutrality by reducing power device loss through gate drive.

## Research Overview:

"Sense & Drive IC" that integrates sensor, controller, and driver on a single chip will be developed. This will make it possible to always achieve the designer's intended operation, such as "minimizing switching losses while satisfying EMI regulations," even if the operating conditions of the power devices change.

## Scenarios toward carbon neutrality:

Simply replacing conventional gate driver ICs with the proposed "Sense & Drive IC" will reduce switching loss of power devices.

