

## Building a Low-Carbon Society

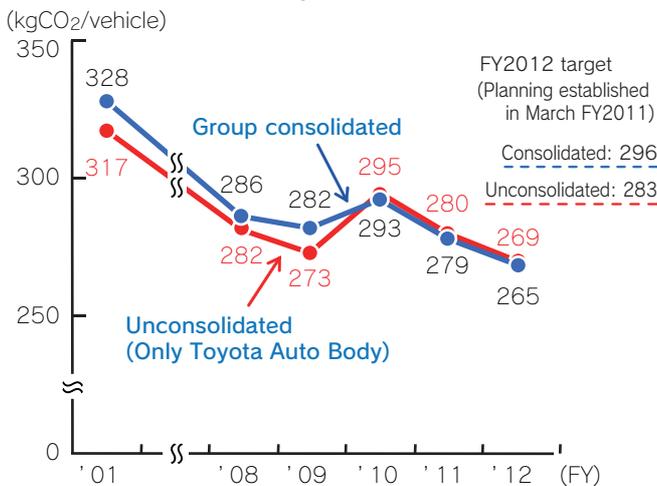
# Reducing CO<sub>2</sub> Emissions Volume and Thorough Energy-Saving Activities in Production Activities

Toyota Auto Body is promoting appropriate equipment operation and eliminating daily inefficiencies, and also pursues improved productivity on the production line and the development and introduction of low-CO<sub>2</sub> production technology. We are also making further efforts to improve transport efficiency in production logistics.

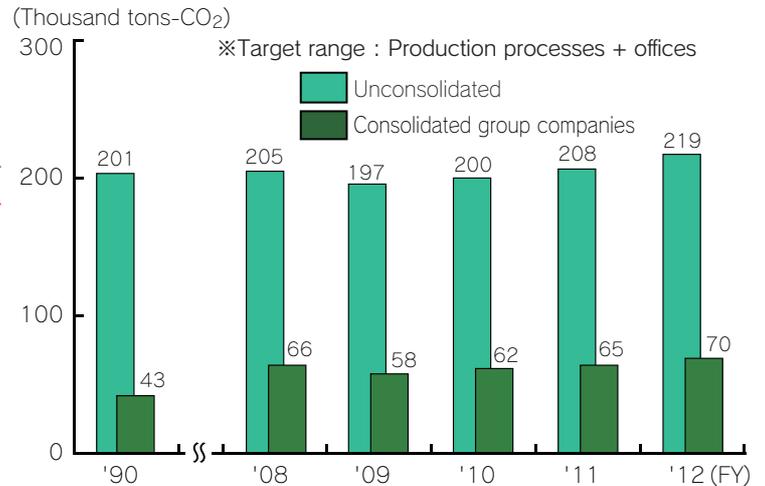
### Actively promoting CO<sub>2</sub> reductions through energy-saving activities.

In FY2012, we reduced heat release losses from the drying oven by modifying the painting process at our Fujimatsu Plant. Further reductions were achieved during non-operation through meticulous stopping of machinery and incorporating electrical power-saving circuits during waiting time between tasks of welding robots. We were able to achieve a 4% reduction in CO<sub>2</sub> emissions volume per vehicle compared to the previous year; however, CO<sub>2</sub> emissions volume increased from the previous year due to the increase in vehicles produced and other factors.

#### CO<sub>2</sub> emissions volume per vehicle



#### CO<sub>2</sub> emissions volume



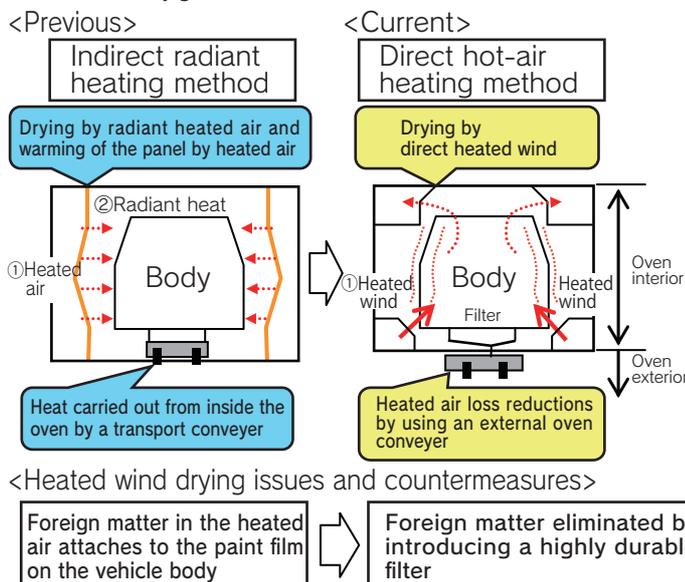
### Case Example

#### <Energy savings in the primer-coat drying oven and sealer process in the Fujimatsu Plant No.2 painting line>

Reduced losses in drying oven heat release from modification of the painting process, and we reduced CO<sub>2</sub> emissions volume by positioning the air-conditioner in the sealer process.

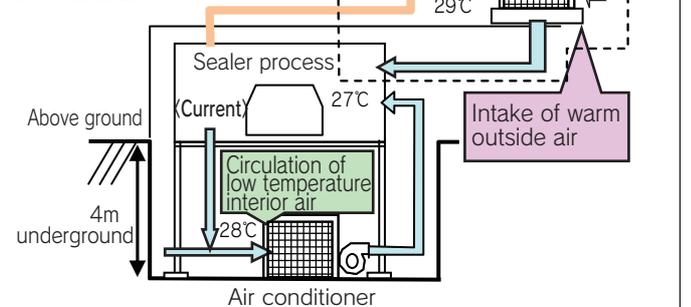
#### Reduced application of heat energy in the primer-coat drying oven

We achieved reductions in heat release losses by positioning of the transport conveyer outside of the oven and also introducing an energy-efficient direct heat application method, and we also reduced the amount of city gas consumed.



#### Summer air conditioning energy savings in the sealer process

By using low temperature underground air against air aboveground, we positioned the air conditioner underground and we reduced electricity consumption by lowering the intake air



#### Primer-coat oven, sealer process CO<sub>2</sub> emissions volume

