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Important Issues

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Envi

Society

Appendix

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★ Response to climate change (TCFD) | **■** > P.088-099

Biodiversity conservation | P.110-115





NOF's clean tech





limate change	Biodiversity	Promotion of resource saving and recycling	Alternatives for hazardous or legally regulated substances
Products that contribute to the shift to EVs			
Functional N	laterials business	Metal Coatings busi	ness
electronic	for in-vehicle components for electric units	 Resin additives, s 	Is for LCD color filters such as agents that noises
Anti-corro	osive coatinas	Anti-fogging ager	nts for LED headlamps



Electric vehicles (EVs) contribute to climate change mitigation because they generate less greenhouse gas emissions than gasoline-powered vehicles. In addition, compared to gasoline-powered vehicles, EVs are expected to require more electronic components (passive components), electric units, screws to hold the components in place, LCD panels, very quiet components, and power-saving components. Thus, the NOF Group's products used in these applications provide positive contributions in this area. Climate change mitigation also contributes to biodiversity because it reduces the ecological imbalance caused by global warming.

Climate change Biodiversity

Products that contribute to renewable energy

Promotion of resource saving and recycling

(Functional Materials business

Metal Coatings business

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- Organic peroxides for cross-linked polyethylene
- Biodegradable lubricants
- Anti-corrosive coatings



Renewable energy such as wind power and solar power are becoming increasingly important because they do not produce greenhouse gases. Our anti-corrosive coatings and biodegradable lubricants used in wind turbine blades and gears provide positive contributions in this area. In

turbine blades and gears provide positive contributions in this area. In addition, ultra-high voltage and high-voltage electric wires are indispensable to transmit electricity from wind and solar power generation sites. Thus, our organic peroxides for cross-linked polyethylene used as a coating material provide positive contributions to the spread of renewable energy.

Appendix



Biodiversity

Promotion of resource Alternatives for hazardous or saving and recycling legally regulated substances

Products that contribute to reducing greenhouse gas emissions and securing water resources



Climate change

Oils and fats for meat alternatives



Plant-derived meat alternatives such as soy meat hamburgers are attracting attention from the perspective of increasing environmental awareness and health consciousness, including reducing greenhouse gases from livestock and excrement and securing water resources. Our oils and fats for meat alternatives contribute to improving the flavor and texture of these meat alternatives.

Climate change Biodiversity

Products that contribute to the spread of energy conservation

Functional Materials business

Organic peroxides for resin window sashes



Window sashes made using vinyl chloride resin contribute to the spread of energy-efficient housing because of their excellent heat insulation. Organic peroxides are used as polymerization initiators for the vinyl chloride resin, and thus contribute to the spread of energy conservation.

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Climate change Biodiversity

Promotion of resource Alternatives for hazardous of legally regulated substance

Products that contribute to biodiversity, climate change mitigation, and environmental conservation

Explosives & Propulsion business) (HOKKAIDO NOF CORPORATION

- Antifreezing agents
- Automatic antifreezing agent spraying devices



KAMAGU[®], together with AUTOKAMAGU[®] JET, is proving highly effective against the freezing of road surfaces.

Antifreezing agents, such as calcium chloride conventionally used on road surfaces in cold areas, have posed the problem of "salt damages." NOF's antifreezing agent KAMAGU[®], an acetic acid-derived chemical containing no chloride, poses no fear of salt damages. It is also an eco-friendly anti-freezing agent with minimal impact on plants. AUTOKAMAGU[®] JET, an automatic antifreezing agent spraying device, is a sensor-based system that automatically sprays KAMAGU[®] onto snowy or frozen roads. It works using 100% natural energy (solar energy), and thus contributes to climate change mitigation. It can also perform advanced road surface management via remote monitoring and control, and therefore contributes to both environmental conservation and road safety along with the antifreezing agent.

Climate change Biodiversity Pr

Products that contribute to the prevention of ozone layer depletion

Functional Materials business

Base materials for refrigerating oils



HFC (Hydrofluorocarbon) refrigerants, which do not deplete the ozone layer, are increasingly used as refrigerants for air conditioners and refrigerators. Eco-friendly base materials for refrigerating oils enhance co-solubility with HFC refrigerants and improve its thermal stability, electrical insulation performance, and other factors. Moreover, the low viscosity contributes to saving energy consumption. In recent years, refrigerants with a smaller global-warming potential compared with previous products are required. NOF is now supplying refrigerating machine oil for refrigerants with a low global-warming potential.

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