ADEKA Group Initiatives for Climate Change Issues

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1. ADEKA Group CSR Management Promotion

Integration of management and CSR



The ADEKA GroupADEKA Group contributes to the creation of a sustainable future by meeting stakeholders'Fundamental CSR Policyexpectations with technologies and reliability through fair and transparent corporate activities.



Management Policy

Universal value and the raison d'être of the Group

Fundamental CSR Policy

• The basic stance on which the Group meets social expectations and aims to improve its corporate value

Our Vision : ADEKA VISION 2030

• The direction the Group should take to achieve its Management Policy

Mid-Term Management Plan : ADX 2023

Specific measures to achieve our vision

Regular corporate activities

- Business plans for executing the ADX 2023
- Specific activities of each division under the ADX 2023
- Behavioral objectives of individuals based on the division-specific plan

See social issues as opportunities and promote the integration of management and CSR

1. ADEKA Group CSR Management Promotion

Value pursued by ADEKA





1. ADEKA Group CSR Management Promotion Past Activities



Established a CSR Committee (Decision-making organization) to **Carbon Neutrality Preparation Committee** make decisions on important CSR policies, and a CSR Promotion (organization subordinate to the CSR Promotion Subcommittee (Specialized promotion organization) that is Working Group) takes the lead in the response to responsible for promoting Group-wide CSR initiatives climate change. May Apr. 2020 2021 2022 2019 Year Apr. Aug. Mar. **KPIs for CSR priority issues** Identify CSR priority issues (seven issues including **Review the KPIs** are decided. **Conserving the global environment and Provision of** for the CSR priority issue eco-friendly products) "Conserving the global environment," etc. **Include CSR priority issues** ADX 2023, the MTMP in the MTMP for FY2021-2023, started

 "Long-term Strategy in Compliance with the Paris Agreement" (Jun. 2019) Advocated a decarbonized society as the final goal.

- Japanese government declared their target of reducing GHG emissions to virtually zero by 2050. (Oct. 2020)
- Climate change summit (Apr. 2021)
- Japanese government set a target of reducing GHG emissions 46% by 2030. (Apr. 2021)
- The Corporate Governance Code was revised. (Jun. 2021)

2. Initiatives for Climate Change Issues

Our Operating Environment and Related Notes



Climate change issues: Find business opportunities through our responsibility as a business enterprise and our new efforts.



Raise the GHG emissions reduction target and promote carbon neutrality



The purpose of tackling climate change

Seriously address climate change issues and pursue and maximize both social value and economic value.

Add Goodness



The risks and opportunities that may result from climate change

Know

 ✓ Supports for TCFD Recommendations Reduce

Minimize the risks of climate change

 Reduce GHG emissions from our business activities. ✓ Increase opportunities through the creation of new businesses and products and the transformation and optimization of businesses.

Increase

Seize business opportunities

from climate change

 Create and expand sales of eco-friendly products

Social value

- Minimize the risks of climate change
- Achieve carbon neutrality

Economic value

- Demand continues to increase in the market
- Maximize profit and expand the size of our businesses





Efforts to Achieve Carbon Neutrality



Raise the GHG emissions reduction target and increase efforts to achieve carbon neutrality by 2050

Formulate a carbon neutrality roadmap and raise the GHG emissions reduction target for 2030

Formulate a carbon neutrality roadmap	Review KPIs for the CSR priority issue: Conserve global environment	See the next page for a detailed explanation.
The ADEKA Group	By 2030, reduce GHG emissions by	
aims to achieve carbon neutrality by 2050 by (1) reducing the GHG emissions from its business activities and (2) contributing	46 % (compared with FY2013)	
to the reduction of GHG emissions through the creation of		
technologies and products.	Existing target: ${f 12}\%$ reduction (compared v	vith FY2013)

Express support for the TCFD (Task Force on Climate-related Financial Disclosures)

TCFL

See the P12 for a detailed explanation.

3. Carbon neutral roadmap



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(2) Contributing to the reduction of GHG emissions through the creation of technologies and products

- Examine GHG emissions throughout the supply chain
- Develop and provide sustainable products.
- Promote the sustainable procurement of raw materials
- Optimize and increase the environmental friendliness of logistics etc.

3. Carbon neutral roadmap Measures for the Carbon Neutrality Roadmap



Gather ideas for achieving carbon neutrality by 2050 from all ADEKA 2050 : Achieving Carbon Neutrality

2030: Reduce CO_2 emissions by 46% compared to 2013 (Scope 1+2)

(1) Reduce GHG emissions from our business activities	(2) Contributing to the reduction of GHG emissions through the creation of technologies and products
Energy Promote energy conservation Facilitate the shift to renewable energy Introduce and procure renewable energy equipment 	 Examine GHG emissions throughout the supply chain Promote the sustainable procurement of raw materials Optimize and increase the environmental friendliness of logistics
 Business Transformation Restructure and transform the business portfolio for the reduction of GHG emissions Discuss the use of internal carbon pricing 	Reduce GHG emissions and contribute to the decarbonization of society by providing eco-friendly products and technologies. See the next page for an explanation of eco-friendly products

3. Carbon neutral roadmap / Create Technologies and Products to Contribute to the Reduction of GHG Emissions

Eco-Friendly Products



2030 KPIs for CSR priority issues (quantitative targets)

<u>Net sales of eco-friendly products:</u> Increase to triple the level of 2019



Eco-friendly products

Products that contribute to reducing the environmental load throughout their lifecycles from the resource collection to disposal

13 eco-friendly products



- Nucleating agent for automobile components
- Intumescent-type flame retardant
- Stabilizer for heavy metal removal
- Products with RSPO and other certifications (food)
- Products for the reduction of food waste
- Lubricants for the reduction of friction

- Materials for the reduction of SOx
- Water-based coating materials
- Adhesives materials
- Ultraviolet curable materials
- Recycled materials
- Battery materials
- Soil conditioner



Identify new needs of society and pursue both social value and economic value

ADEKA and its consolidated subsidiary NIHON NOHYAKU (TSE 4997) have expressed support for the TCFD (Feb. 2022)

TCFD TASK FORCE ON CLIMATE-RELAT FINANCIAL DISCLOSURES

In 2022, we will conduct a scenario analysis of functional chemicals and life science (NIHON NOHYAKU).

- In line with the TCFD recommendations, we are analyzing and evaluating the impact of climate change on our business activities and formulating measures to address this impact. Subjects of our analyses of the changes in our business environment (scenarios) resulting from climate change have gradually increased.
- A detailed explanation will be provided via an array of materials such as the Corporate Governance Report.

Polymer Additives Chemicals Electronics and IT materials		
Functional chemicals		
Food Products		
Life Science		

■ TCFD (Task Force on Climate-related Financial Disclosures)

The TCFD is established in 2015 by the Financial Stability Board (FSB) at the request of the Group of Twenty (G20). In the final report published in June 2017, it was recommended that companies and organizations analyze and evaluate the impacts of climate change and then disclose governance, strategies, risk management, indicators and goals. Please refer to the TCFD web site for details.



4. Supports for TCFD Recommendations Scope of the TCFD Scenario Analysis and Related



Scope of the scenario analysis (areas of business)

Functional chemicals (Chemicals)
 Life Science (NIHON NOHYAKU CO.,LTD.)

GHG emissions, financial impact and other factors are considered

- ✓ Percentage of our GHG emissions
- ✓ Contribute to net sales and operating income in the future
- ✓ Impact on climate change throughout the product lifecycle
- ✓ Raw fuel and energy (electric power) impact product manufacturing

Eligible period

From now to 2050











The case study the impact of risks and opportunities based on a scenario analysis of functional chemicals.

Concerning the ADEKA SAKURA-LUBE series of lubricants for engine oils, we fear a drop in demand due to more automobiles' being electric powered, which is a transition risk.

Meanwhile, an increase in the No. of EVs sold is expected to lead to the expansion of our EV-related products such as structural adhesives. The impact of transition opportunities will greatly work in our favor.





2025

Sophisticate TCFD Action and Scenario Analysis

- (1) Incorporate analysis and evaluation results in the functional chemical segment into business strategies and discuss concrete action plans, KPIs and other matters.
- 2 Considering CO_2 emissions, the size of their financial impact and other factors, other business segments will be gradually analyzed.



5. In conclusion



Identify changes and use the power of our Excellent Value; products, technologies and services to contribute to the creation of a society sustainable

BUSTAINABLE GOALS





Promote carbon neutrality, efficiently use resources, reduce food waste and achieve a circular economy

Quickly identify trends in the external environment and provide our products, technologies and services with higher added value through our technologies, services and human resources, in addition to providing materials.

6. For Reference

KPIs for ADEKA Group CSR Priority Issues (As of March 2022)



	Priority Domains / 2030 Goals	CSR Priority Issues	KPIs in 2030 KPI upward revision	
E	Environment	Conserving the global environment	Gather ideas from all members of ADEKA to achieve carbon neutrality by 2050 2030: Reduce CO ₂ emissions by 46% from 2013 (Scope 1+2)	
		Supply of eco-friendly products	Net sales of eco-friendly products increase to triple the level of 2019	
	• Minimize the environ	mental impact of operations and m	nake a substantial contribution through eco-friendly products.	
S		Create value that meets society's expectations	Number of ADEKA Innovative Value (AIV) certifications: twice the number in 2019	
	Better living conditions	Conduct dialogue with stakeholders	Establish methods and opportunities for communication with each stakeholder	
	and communication	Respect for human rights	Establish and disseminate ADEKA Group Human Rights Policy	
	Create and share prod	ucts that contribute to affluent life	estyles globally through safe, stable business activities.	
	Human rights and human resources	Expand opportunities for utilizing human resources	 Promote Diversity and Inclusion (D&I): Human Resource Portfolio: Female manager percentage of 10% (non-consolidated) Diversity of personnel in management positions Develop Climate: Increase employee satisfaction, D&I-related educational training, etc. Promote Health Management: Obtain certification for Health & Productivity Management Outstanding Organization (White 500) 	
	• Respect the human rig	ghts of individuals throughout the	supply chain and enable all Group employees to work actively.	
G	Governance	Enhance group governance and risk management	 Penetration the Group Code of Conduct and the strengths unique to ADEKA Implement Group BCP 	
	• A group governance s	ystem in place and have a business	s continuity plan in case of an emergency.	
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The forecast performance and business plans specified in this document

have been prepared based on information available

as of the date of publication, as well as on various prerequisites;

therefore, the actual results may differ from these forecasts or plans

depending on various factors that may arise hereafter.

In the event of any discrepancy between the Japanese original and this

English translation, the Japanese original shall prevail.



