



Mitsubishi Electric Group

Environmental Sustainability Vision 2050



Image of How We Must Think of Future Societies





Aggravating Various Environmental Issues

Intensification of natural disasters due to increasing frequency of massive typhoons

Enormous influence of water shortages on general health and industries

Economic impact due to depletion of fossil fuel resources

Destruction of biodiversity due to dramatic increase in garbage

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Various Social Changes and Issues Expected in the Future



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Important Points for Future Environmental Activities

Past	Future	Environmental Activities to Target
" Direct" viewpoint Towards immediate environmental problems	"Comprehensive" viewpoint Overlooking various factors that cause environmental problems	Gather internal and external capabilities to solve complex issues
"Short-term" satisfaction Pursuing immediate convenience/profit	"Long term" satisfaction Looking ahead to future generations	Develop technologies and human resources that contribute to society on long-term basis
Efforts focused on companies and organizations	Everyone on Earth takes initiative	Share new values and lifestyles with all those involved



Environmental Sustainability Vision 2050

Environmental Declaration

Protect the air, land, and water with our hearts and technologies to sustain a better future for all.





Environmental Declaration

Protect the air, land, and water with our hearts and technologies to sustain a better future for all.



To solve various factors that lead to environment issues, the Mitsubishi Electric Group shall unite the wishes of each and every person, and strive to create new value for a sustainable future.



Apply diverse technologies in wide-ranging business areas to solve environmental issues

The Mitsubishi Electric Group shall utilize diverse technological assets throughout wide-ranging business areas, and across the entire value chain, to solve various environmental issues, including climate change, resource recycling and coexisting harmoniously with nature.

2 Challenge to develop business innovations for future generations

The Mitsubishi Electric Group shall draw on internal and external strengths, combine them when required to resolve difficult issues, and take on the challenge of developing technologies and business innovations for future generations.

3 Publicize and share new values and lifestyles

The Mitsubishi Electric Group shall promote active dialogue, collaboration, and co-creation with all stakeholders, publicizing and sharing new values and lifestyles that will result in living comfortably, in harmony with nature.



Key Activities





Key Activities

2	Challenge to develop business innovations for future generations	
Long-term Activities	 We will set specific indices and action items while considering future prospects in the mid-term Environment Plan formulated every three years. We will verify the validity of long-term goals approximately every five years, doing so considering internation agreements, foreign affairs and business conditions. We will cooperate with other companies and institutions, and use our technological assets, technologies and business synergies to create innovative technologies and solutions We will proactively adopt innovational technologies and solutions that enable us to lead manufacturing in future generations. We will foster a corporate culture in which employees, as ordinary citizens, take the initiative on creating new lifestyles in harmony with nature. We will develop highly specialized human resources who accept diverse values, and proactively work or environmental issues. 	
Innovation		
Nurturing Human Resources		
3	Publicize and share new values and lifestyles	
Understanding Needs	 We will work to understand our customers' needs and expectations for the environment through sales activities, exhibitions, events, and other initiatives. We will hold discussions with stakeholders, and confirm the validity of our environmental targets and measures, to promote more effective environmental activities. 	
Co-create and Disseminate New Values	1) We will propose new lifestyles that provide the pleasure of contributing to the environment through the use of our products, systems, and services.	
Live in Harmony with the Region	1) We will hold discussions with local residents and municipalities , and contribute to creating a better local environment, including Satoyama conservation and bio-diversity preservation activities at business sites.	



How the Mitsubishi Electric Group can contribute to a sustainable future



Business Group Contribution to a Sustainable Future





Apply diverse technologies in wide-ranging business areas to solve environmental issues

Mobility Lifestyles Safe and effective Safe and comfortable car life Support next-generation Space harmonious with nature railway systems with free from traffic accidents communications with where high energy efficiency high energy efficiency advanced technologies and congestion and amenity coexist **Buildings and cities equipped with** Contribute to the supply of Thorough reduction of CO₂ Manufacturing that optimizes and emissions from productivity, quality environment-friendly infrastructures clean, safe water for all manufacturing processes Improvement, energy use, etc.

Infrastructure

Industry



Challenge to develop business innovations for future generations



Next-generation Energy Systems (including virtual power plants, VPP)



Observation of global environment by satellite

Observation for GHG, Air polliution



Environmental contribution utilizing Al

Study on AI utilization for diversifying environmental issues



Development of high-level recycle technologies

Effective use of plastics





Publicize and share new values and lifestyles

Environmental exhibitions

Communication with local communities

Discussions with experts







School visitation/ lecturer dispatch

Satoyama conservation







MITSUBISHI ELECTRIC Changes for the Better