Environmental targets for 2023

2050 Targets	0000 1 1 1 1	Environmental targets for 2023
"1/" TAIT	2030 Interim milestones	
"K" LINE decarbonization Take on the challenge of net-zero GHG emissions	"K" LINE low-carbonization Improve CO2 emission efficiency by 50% compared to 2008	<reinforcement (fuel="" efficiency="" efficiency)="" improve="" measures="" of="" operational="" to=""> Reduce CO2 emissions through slow steaming Improvement of ship operation management through performance analysis using AI technology </reinforcement>
		system> Trial and expansion of the introduction of the "Seawing" wind power propulsion auxiliary system
Support the decarbonization of society Be the transporter and supplier of new energy	Support development of a low-carbon society Transport and supply new energy for a low-carbon society	✓ Development and expansion of new businesses that contribute to the low-carbon society > Contribute to supply chain development as a transportation company through membership in domestic and international organizations related to the utilization of hydrogen and ammonia. Participated in a commercial demonstration project using a large liquefied hydrogen carrier, and worked toward the commercial use of hydrogen in society. Expand business related to renewable energy such as offshore wind power generation and CCUS (liquefied CO2 transport) Promote efforts to realize CNP (Carbon Neutral Port), participate in CNP study groups at each port, and study projects. Continuation of LNG fuel supply business for ships and consideration of ammonia fuel supply ships
Minimize "K" LINE impact on the sea and air *Zero oil spills *Aim for zero environmental impact	Reduce "K" LINE Impact on the sea and air Reduce the shipping operation's impact on the sea and air, including zero oil spills	✓ Promotion of initiatives to eliminate oil pollution accidents > • Proper implementation of the Safety Management System (SMS) and zero occurrence of oil leakage from vessels. • Ship inspections for ship quality improvement activities: 170 vessels/year • Remind shipowners of the importance of safe ship operation by sending out the Safe Operation Circular to each shipowner. • Implement safety campaigns (150 vessels per year) based on lessons learned from past oil spill accidents • Implement measures to prevent accidents involving oil spills from shipboard equipment, including consideration of installing equipment and devices to prevent oil spills. • Promoting safe operations through automated loading optimization and AI
		<reduction environmental="" impact="" of="" operations="" ship=""> Measures to minimize impact on the marine environment Minimize the amount of ballast water retained Installation of optimal ballast water treatment equipment and technical support for each ship type and route, while keeping a close eye on trends in convention and regional regulations Consider building vessels that have less environmental impact on marine life. Consider adoption of antifouling paints that have less impact on marine pollution, such as environmentally friendly paints (low-friction paints). </reduction>
		<reduction (black="" air="" by="" co2,="" generated="" nox)="" of="" pm,="" pollutants="" ships="" smoke,="" sox,=""> •Study installation of COLD IRONING in new and existing vessels •Trial exhaust gas recovery at port of entry •Consideration of using storage batteries •Study of equipment to use low-sulfur fuel oil •Study of equipment to control VOC (Volatile Organic Compounds) emissions from newly built tankers</reduction>
		<minimize and="" by="" consumed="" minimize="" resources="" utilized="" vessels.="" waste=""> •Promotion of sorting and recycling of waste generated onboard the vessel, including reuse through repair of cargo handling materials onboard the vessel. •Reduce the amount of waste generated from vessels through proper operation of the Garbage Management Plan.</minimize>

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Environmental Vision 2050		For incompanied towards for 2002
2050 Targets	2030 Interim milestones	Environmental targets for 2023
		 Reduction of environmental impact on land-based operations> Minimize resource consumption and waste at onshore facilities Reduction of water consumption per employee at land-based facilities Reduction of office paper consumption per employee through promotion of paperless operations Reduction of waste at land-based business sites: Promotion of sorting of recyclable containers and packaging waste Promote green procurement: Increase the ratio of eco-friendly products
Support the environmental activities of society Support the environmental activities	Support the environmental activities of society Increase environmental daialogue and	
Be the industry leader in ecosystem protection	activities	Conducted survey and collection activities of marine plastic debris in cooperation with Tokyo University of Marine Science and Technology.
		<promotion activities="" environmental="" of="" preservation="" volunteer=""></promotion> •Conduct "forest conservation activities" or "beach cleanups