

TAISEI Green Target 2050 Roadmap to a Sustainable, Environmentally Friendly Society

TAISEI is working to achieve and deepen "carbon neutrality", a "circular economy" and "nature positive" in order to realize the sustainable, environmentally friendly society envisioned by the TAISEI Green Target 2050.

	2023	2030	2050
 Decarbonized Society / CN (Carbon Neutrality)			
		Scope 1+2: Total emissions ▲ 40%	Scope 1+2: Total emissions Zero
		Scope 3: Total emissions ▲ 20%	Scope 3: Total emissions Zero
Scope 1	Construction machinery, vehicles etc.	<ul style="list-style-type: none"> Introduction of hybrid type construction machinery, GTL Introduction of innovative construction machinery (electric, hydrogen etc.) 	
Scope 2	New energy (hydrogen/ammonia) Possession of renewable energy power sources (RE)	<ul style="list-style-type: none"> Introduction Possession of RE to cover Group power consumption needs 	<ul style="list-style-type: none"> Use Contribute to the realization of zero emissions through increased possession and supply of RE
Scope 3	Zero Carbon Buildings (T-ZCB) Construction materials that contribute to decarbonization	<ul style="list-style-type: none"> Promotion of possession of RE Development and demonstration verification of T-ZCB Promotion of development and dissemination of environmentally friendly concrete Promotion of development and dissemination of T-Green Multi Solar 	<ul style="list-style-type: none"> Promotion, development and dissemination of T-ZCB Increased dissemination and commercial application of construction materials that contribute to decarbonization Permeation throughout society of construction materials that contribute to decarbonization
Avoided emissions	Net Zero Energy Building (ZEB) Green Renewal ZEB CCUS Regional cooperation	<ul style="list-style-type: none"> Promotion of development and dissemination of ZEB for new building Promotion development and dissemination of Green Renewal ZEB Development of CCUS technologies Demonstration and development of co-operative activities for decarbonization, utilizing local resources 	<ul style="list-style-type: none"> 100% ZEB rate for TAISEI design projects Increase in orders along with increased market size Development and dissemination of CCUS Tremendous advance in ZEB performance Increased dissemination of Green Renewal ZEB Commercial application of CCUS

	2023	2030	2050
 Recycling-Oriented Society / CE (Circular Economy)			
		Reduction of final disposal rate of construction wastes: 3.0% or less	Reduction of final disposal rate of construction wastes: 0%
		Promotion of green (environmentally conscious) procurement	Achievement of green (environmentally conscious) procurement rate: 100%
Construction wastes	<ul style="list-style-type: none"> Promotion of sorting and volume reduction 	<ul style="list-style-type: none"> Promotion of recycling 	
Surplus soil construction	<ul style="list-style-type: none"> Reorganization of management system for surplus soil 	<ul style="list-style-type: none"> Promotion of use of surplus soil 	<ul style="list-style-type: none"> Achievement of circular economy at construction sites
Green procurement	<ul style="list-style-type: none"> Active use in design and construction projects and encouragement of use in supply chain 	<ul style="list-style-type: none"> Establishment of tabulation criteria and target setting Significant increase in green procurement rate 	
Recycling of industrial by-products	<ul style="list-style-type: none"> Development and dissemination of an environmentally friendly concrete that utilize industrial by-products Development and implementation of technologies for recycling concrete rubble, plastic wastes, glass, sludge etc. 		<ul style="list-style-type: none"> Increased dissemination of recycling of industrial by-products
Biomass Energy	<ul style="list-style-type: none"> Development of energy using biomass technology 	<ul style="list-style-type: none"> Implementation and deployment of biomass energy 	<ul style="list-style-type: none"> Increased dissemination of biomass energy
Soil and groundwater in-situ purification	<ul style="list-style-type: none"> Advancement and provision of technologies for soil and groundwater in-situ purification 	<ul style="list-style-type: none"> Increased provision of technologies for soil and groundwater in-situ purification Provision of technologies for revitalization and circulation of soil and groundwater resources using DX 	

	2023	2030	2050
 Nature Co-Existing Society / NP (Nature Positive)			
		Proposals and Implementation of projects that contribute to Nature Positive	Minimization of negative impact Maximizing the positive impact by implementing business that coexist with nature
Evaluation of impact on biodiversity	<ul style="list-style-type: none"> Building and improving assessment methodologies, implementing assessments of major projects 		<ul style="list-style-type: none"> Implementing assessments of all projects
Sustainable procurement	<ul style="list-style-type: none"> Procurement status survey 	<ul style="list-style-type: none"> Full transition to sustainable wood procurement 	<ul style="list-style-type: none"> Transition to sustainable procurement for all construction materials
Implementation of proposals and construction work to contribute to nature positive	<ul style="list-style-type: none"> Implemented for more than 40 projects Promotion of greening and waterfront creation to conserve and restore ecosystems Development of environmental regeneration technologies in oceans and other water areas Deployment and dissemination of Green infrastructure Creation of nature in cities 	<ul style="list-style-type: none"> Targeting 30% of design and construction projects Promotion of conservation and creation of an OECM* to achieve the 30 by 30 Target Promotion of solutions that use nature (NbS: Nature-based Solutions) Creation of workspaces in harmony with nature 	<ul style="list-style-type: none"> Targeting all design and construction projects Implementation of infrastructure projects that regenerate nature Creation of lifestyles that are in harmony with nature

*OECM (Other Effective area based Conservation Measures): Areas other than protected areas that contribute to biodiversity preservation