

Forest Environment Subcommittee utilizing KODOBOKU technology

Social Issues Area : forest conservation Content of Efforts : Luxuriant reforestation for Biodiversity

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- Representative : Daisuke Shimohiro (Director, Senior Executive Officer, General Manager of Corporate Planning Department)
- Leader : Tatsumi Yamashita (Manager of Environmental Engineering Development Department)
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Goal of KODOBOKU technology (Modern Human powered Civil Engineering)



00004-00 750e+00

Characteristic of KODOBOKU technology

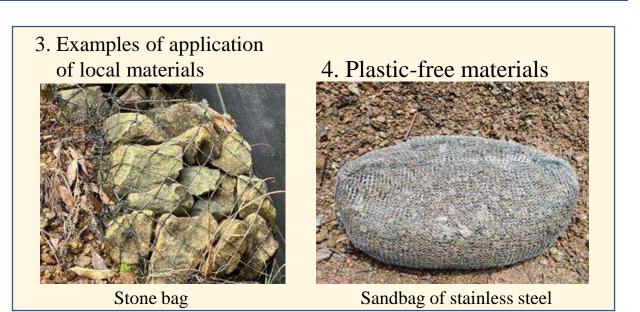
- 1. Disaster mitigation and prevention by visualizing the causes of disasters using flowing water analysis technology.
- 2. Realize manual construction without using construction equipment
- 3. Forest protection technology using local materials (earth / wood / stone)
- 4. Use of plastic-free materials that don't generate wastes



1. Flowing water analysis technology Time = 14.1482.500e+00 1.250c+00

Stereoscopic Topography Falling Water Diagram

Surface water flow simulation





Restoration of forest environment utilizing KODOBOKU technology



About the name

KODOBOKU has three meaning : old civil engineering, small civil engineering, and individual civil engineering

About the technology

KODOBOKU is a small-scale civil engineering technology based on a traditional tech for Japanese ancient castles, making use of the restoring force that forests originally have. KODOBOKU has a high potential that could be applied to everywhere even in a steep mountainous area, because it is a kind of human-powered technology that requires no construction equipment and that utilizes natural materials on site. So, it obviously guarantees complete nature affinity as well as huge cost-effectiveness.

Key development points	Expected effects			
◆ Simple measures instead of afforestation (Measures against landslide disaster)	 Water source conservation (Controlling running water during heavy rain) 			
 Minimize environmental impact (Plastic Free, Low carbon) Strengthening community connections 	 CO2 reduction during construction (No concrete required) Local communities 			
 (Activation of the mutual assistance) Ecosystem considerations (Maintaining diversity) 	 (Disaster Prevention Education, Regional exchange, Human resources development) Maintenance of luxuriant forests, Resources protection (Measures against animal damage, 30 by 30*) *Target to conserve at least 30% of the 			
	country's land area as natural environmental areas by 2030			
	Disaster-resilient forest Biodiversity luxuriant forest			
Biocommunity Kansai	3			

Participating Organizations, Examples of Initiatives

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Participating Organizations, Benefit Creation

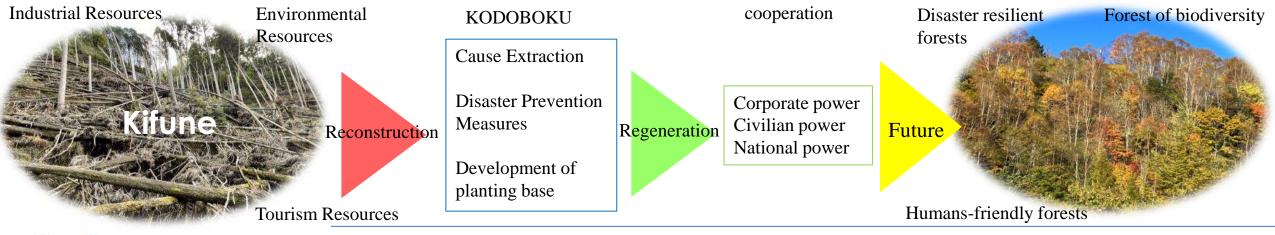
Participating Organizations (Industry-academia-government collaboration)

C-TECH CORPORATION, Chubu Electric Power CO., Inc, Affiliated companies, the national and local governments, Universities, Geo-environmental solution and technique, Forestry Cooperatives, Landscape gardeners, etc.

Expansion of nature symbiosis areas and creation of social and economic benefits in forest environment conservation activities

- 1) Improving corporate value through activities to expand areas of nature symbiosis that are coordinated by local communities
- 2) Further social contribution through efforts toward the international trend of "nature positivity"
- 3) Achieving corporate goals for carbon neutral
- 4) Creating advantages of entering the environmental business and realization of system networks

Examples of Initiatives [Kyoto Forest Restoration Project]







Efforts	contents	2024	2025	2026	2027	2028		
Utilization of KODOBOKU technology	Selection of symbiosis nature areas	PR to the national and local governments and companies						
	Creation and education of engineers	Selection of supervisory engineers On-site guidance						
	On-site construction		Examination of struction metho	ods	constructio	on		
Forest environmental conservation activity	Development of material technology	Sharin	Sharing on-site issues with companies and product development					
	Creation of corporate forests		Promotion activities for corporate forest ownership					
	Area Certified Symbiosis with Nature	PF	R for registratio	n 🖌	Register with O n in harmony with pe			

