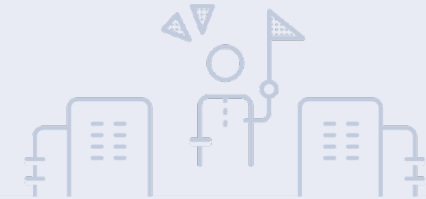


EJEC REPORT

Creating valuable forests and cities for the future: *EJEC's environmental consulting services*



 **Eight-Japan Engineering Consultants Inc.**

Feb. 5, 2025

Kotoe KURODA

Environment and Energy Division, International Department

We provide civil engineering consulting services to create a

valuable environment
for the future

70
years
history

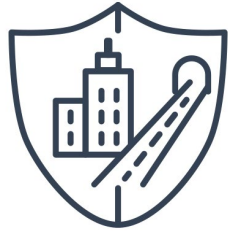
1000+
employees

1.5°C
trajectory aligned
GHG reduction target set by
E.J Holdings Inc. (SBTi approved)

Road & Bridge



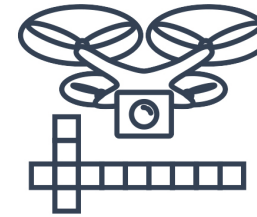
Maintenance



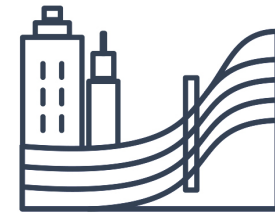
Disaster Mitigation



Survey



Geo Engineering



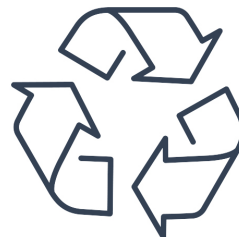
Infrastructure solution



River & Port



Urban planning
& Environment



Waste & Energy

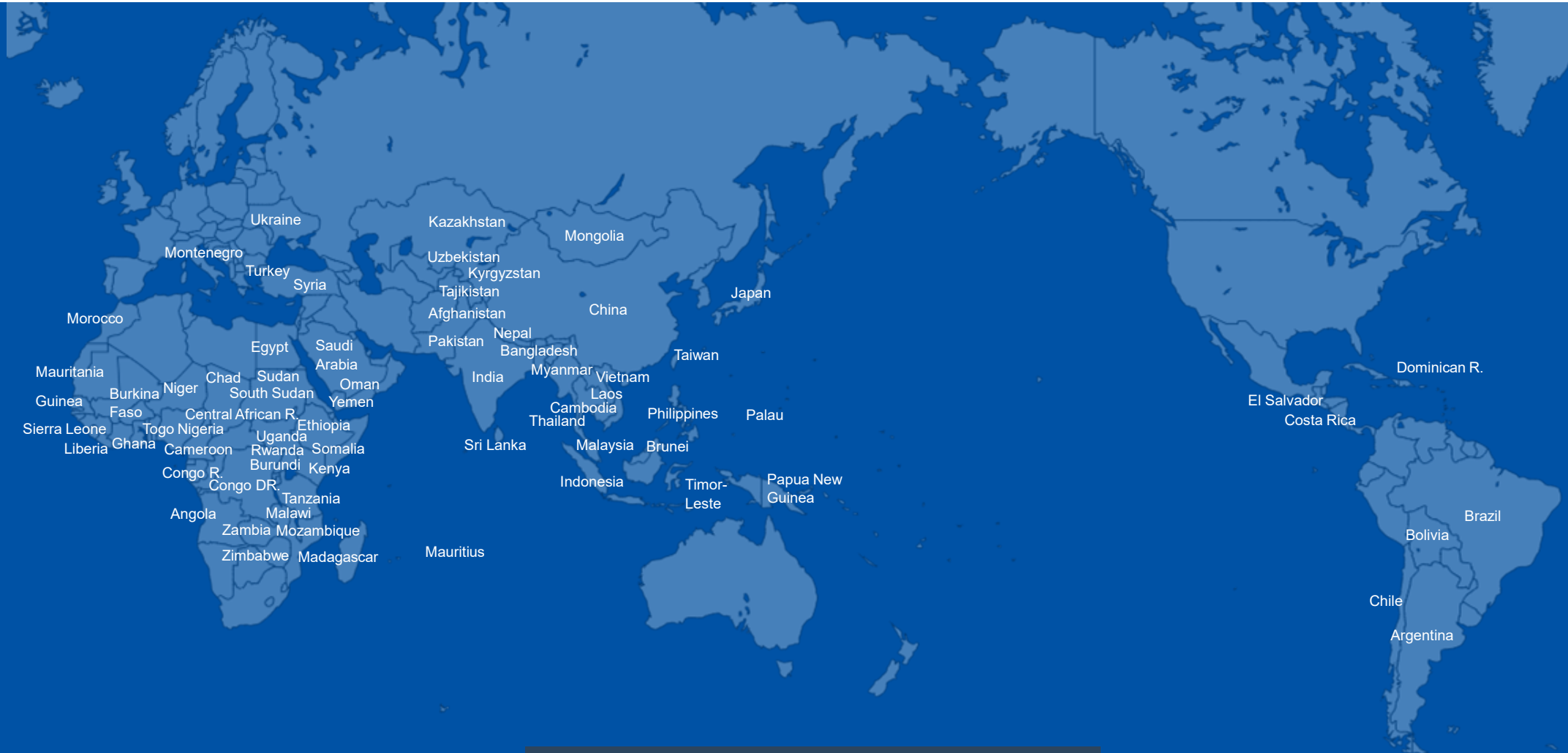


Management



International

Over 700 projects in over 70 countries since 1970



World map showing countries where EJEC has implemented projects

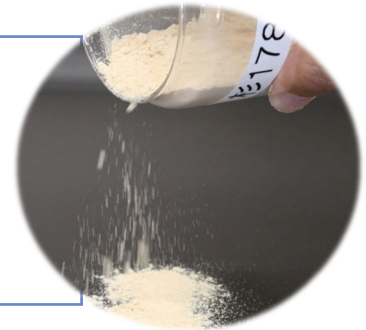
Urban climate action and synergy

1. Environmental, social, climate considerations in projects
2. Feasibility study & development plan of an eco-town



Collaboration and circular economy

3. Manufacturing products using sustainably sourced wood powder

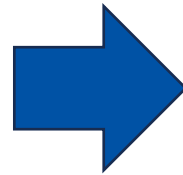


Waste management

4. Waste analysis & characteristics survey for waste-to-energy plants



Resilience for valuable cities



Location: Nagdhunga tunnel in the Himalayas connecting Kathmandu, capital city of Nepal to India and other cities

Consultants: EJEC (sub-) and JV partners (prime) under JICA project

Tunnel length: Approx. 2.7km

Project time: Tunnel breakthrough April 2024;
Full operation Oct. 2025 (plan)

The tunnel was used to evacuate over 2,000 residents in the Sept. 2024 landslides



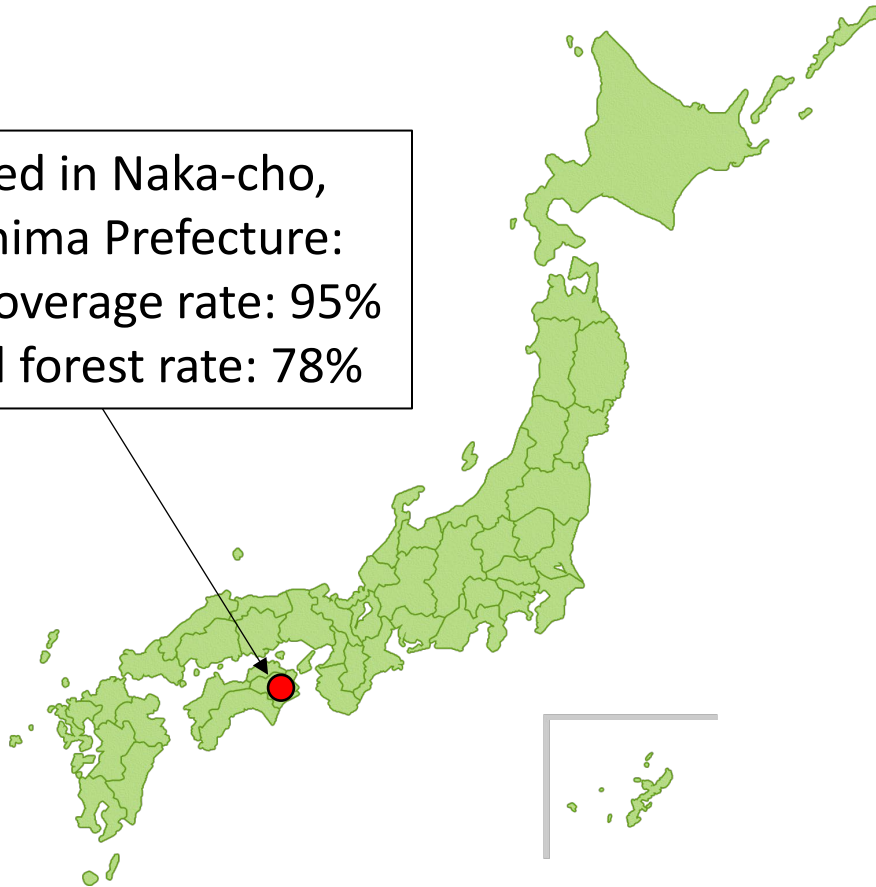
Smart, green, resident friendliness for valuable cities



2. Manufacturing products using sustainably sourced wood powder

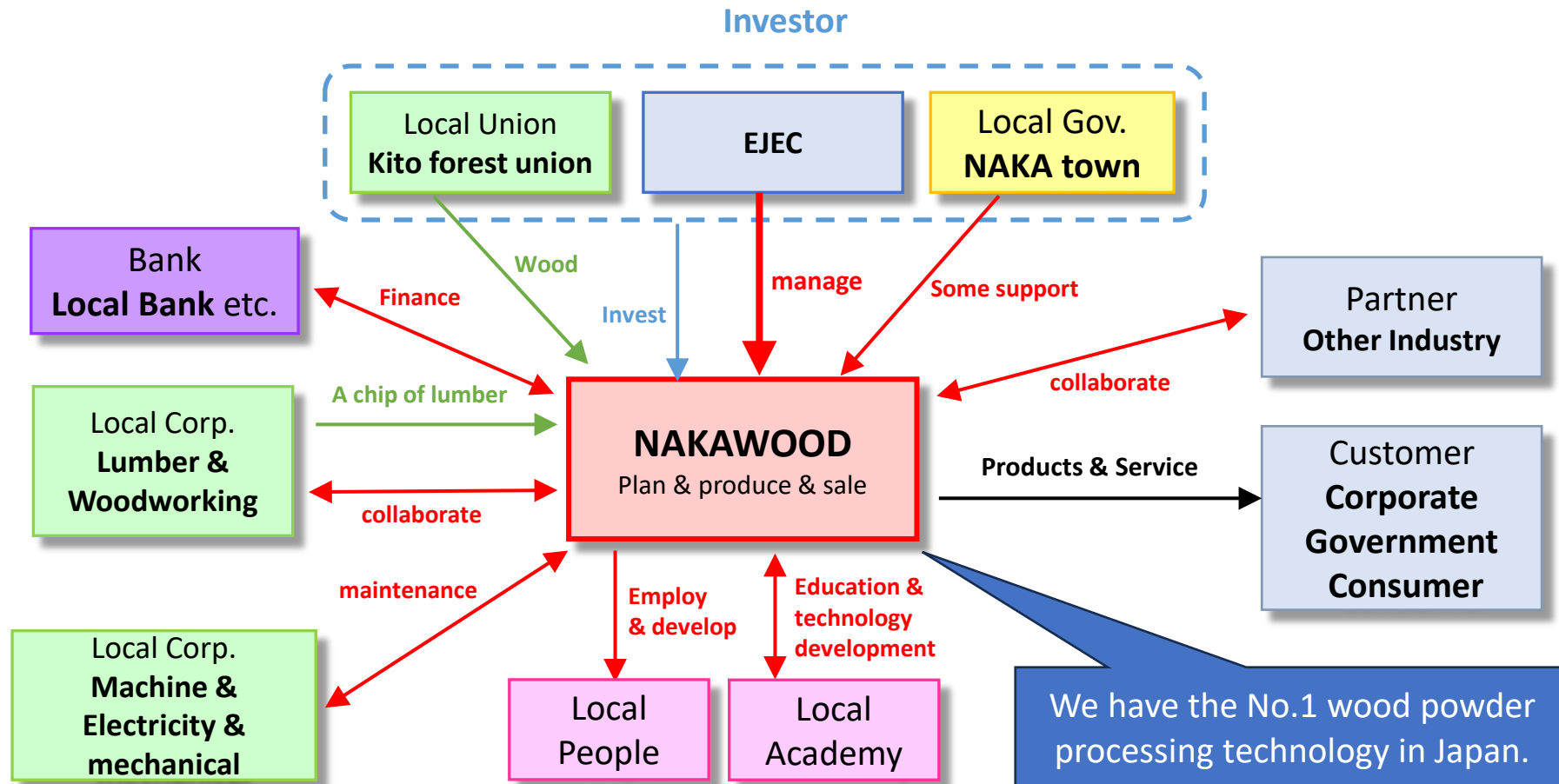
NAKAWOOD Co., Ltd owns and operates a wood collection station and processing plant

Located in Naka-cho,
Tokushima Prefecture:
Forest coverage rate: 95%
Planted forest rate: 78%



2. Manufacturing products using sustainably sourced wood powder

NAKAWOOD Co., Ltd collaborates with many stakeholders



2. Manufacturing products using sustainably sourced wood powder

Using Wood → Reduce CO2 & vitalise the local forest industry
Accelerating forest management → Reduce flooding and landslides



Wood powder for new material



Wood surfboard & Activity



Woodworking products



Bioplastic products

No need Water
Tokushima Cedar Product
Wood Powder
Portable Toilet

In the disaster, the Toilet is the first thing to be needed
The functionality of cedar contributes to ensuring hygiene during disasters (water outages)

Characteristics of Wood Powder Portable Toilet

①	②	③	④
Deodorizing and water absorption with cedar powder	Rapid coagulation	Hygienic, one-time processing	Large, thick bags for safe
Finely ground cedar powder has a deodorizing effect and prevents odors.	The polymer blend enhances the coagulation properties, allowing water and solids to solidify quickly.	Required number of bags are included, and each one can be disposed of individually, making it hygienic.	The large, thick bag can be used with a variety of facilities, including existing toilet seats, temporary toilet seats, and buckets.

Environmental education for a valuable future



In Oct. 2024, NAKAWOOD Co., Ltd.
taught 6 trainees under the
*JICA Project for Climate Change Adaptation
through Sustainable Forest Management in Nepal*

Ensuring high performance and maximising project income in WTE plants for valuable clean cities



Preparation;
time and motion survey,
trip tickets analysis,
interviews

Observing garbage
collection to understand
waste flow



WACS sampling &
lab analysis in Wet
and Dry season



- Bulk density
- Physical composition
- Proximate analysis
- Ultimate analysis
- Calorific value



Eight-Japan Engineering Consultants Inc.

Environment

Mr. Shota OHTANI ootani-sho@ej-hds.co.jp

NAKAWOOD Co., Ltd.

Mr. Yohei SHONO shouno-yo@ej-hds.co.jp

Waste management

Mr. Makoto KOSAKA kosaka-ma@ej-hds.co.jp



EJEC's website

<http://www.ejec.ej-hds.co.jp/en/>



EJEC's online booth in JPRSI website

<https://jprsi.go.jp/en/member/188>