



Biomass_Energy_Plant

Ina City, Nagano, Japan

- ◆The environment we should aim for
 - Towards building a sustainable society through renewable energy

○ Kamiina Forestry Owners' Cooperative – About the Woody Biomass Energy Plant

Subsidized Business: FY 2002 Prefectural Wood Supply System Development Project – Forest Energy Promotion Project
(FY 2002 Special Measures Project for the Development of Facilities Utilizing Woody Biomass)

Start of production: FY 2004

Products: (Japan Wood Pellet Association No. 1 certified)(10 kg bags, 500 kg flexible container bags)

Raw materials: Larch, red pine (100% local materials : Japan's largest production volume)

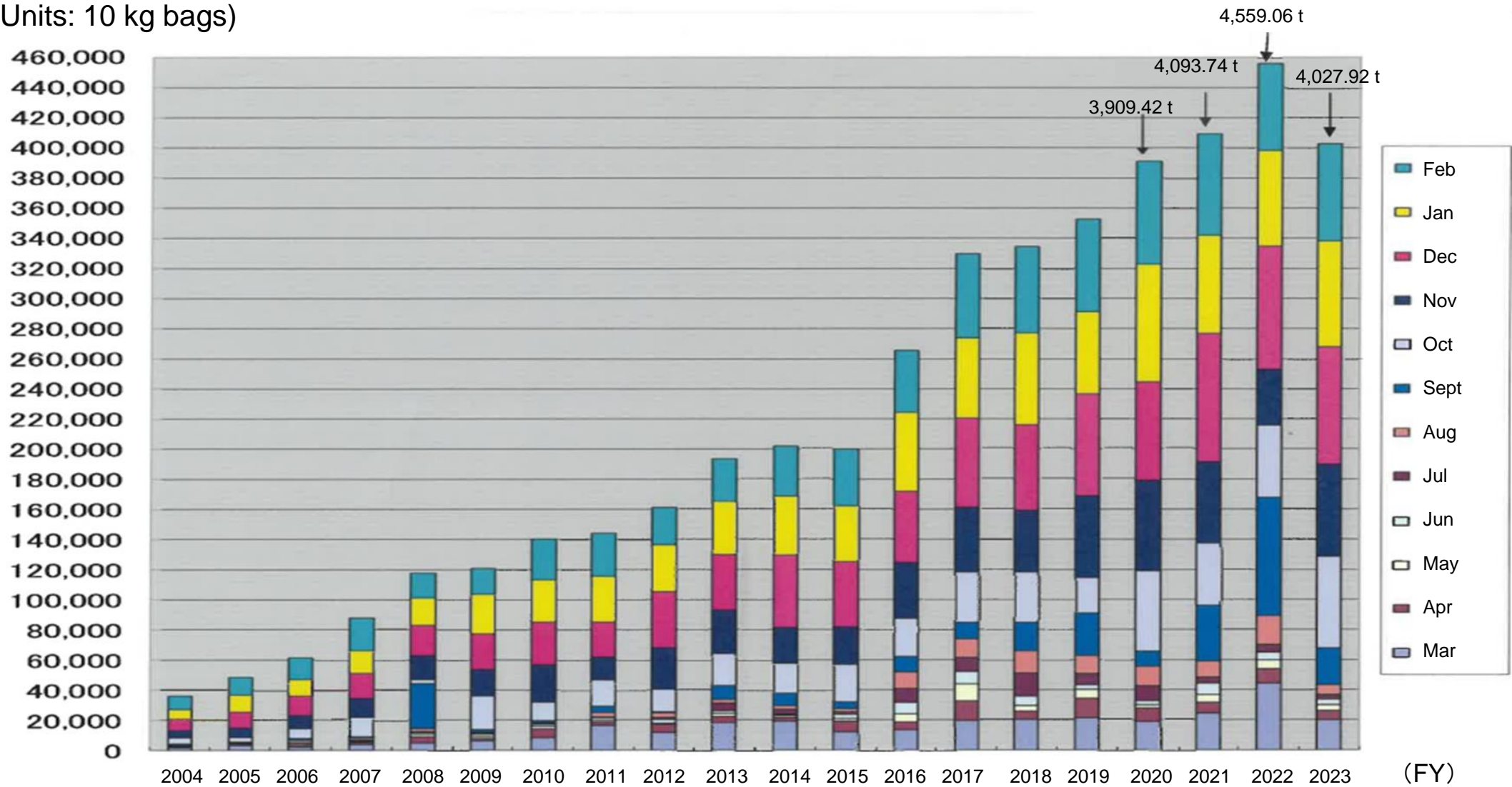
※FY 2024 Amount of raw wood purchased 8396 t /y : Pure No. 1 sales volume 4546 t /y

Calorie: kerosene 8700Kcal/h Pure No. 1 4600Kcal/h



Wood Pellet Pure No. 1 – Fluctuations in Sales Volume

(Units: 10 kg bags)



◇ Types of pellet stoves and boilers, etc. and installation locations within Ina City

○ Pellet Stoves(Installation locations: Private homes, schools, offices, etc.)



*FF type, mainly installed in schools, etc.



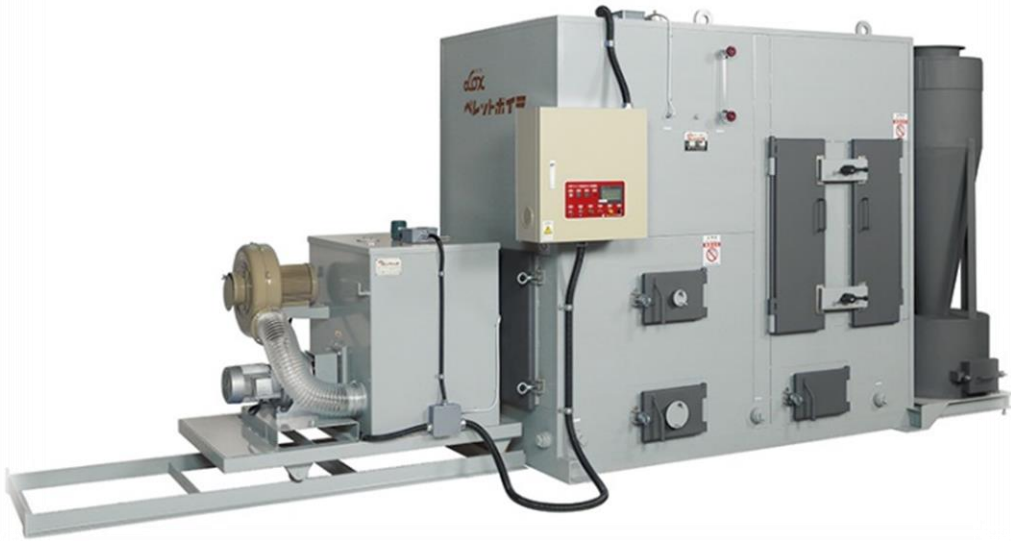
No. of units installed up to FY 2023

Private homes and offices: 350 units

Schools and other public facilities: 314 units

○ Wood pellet-fired hot water boilers

(Installation locations: Elementary and junior high schools, nursery schools, hot springs, senior welfare facilities, etc.)



Senior Welfare Center



Nursery School



Day-trip Hot Spring



Up to FY 2023
28 units installed

○ Wood Pellet Air Heaters for Agricultural Use



Strawberry Cultivation Greenhouse



Flower Cultivation Greenhouse
(Alstroemeria)



Tomato Cultivation Greenhouse



Up to FY 2023: 8 units installed
FY 2024 (Plan): 4 units installed

○Wood pellet-fired heat conversion type

(Wood pellet fuel used for the heating and cooling of the building)

(Installation location: INADANI SEES Ina City Industry-Academia-Government Collaboration Center (Completed FY 2023))



○Expansion of pellet production line

- Current annual maximum production→4500 t
6 : 00～24 : 00 Work in shifts



February 2025～

Annual production plan 5500～6000 t

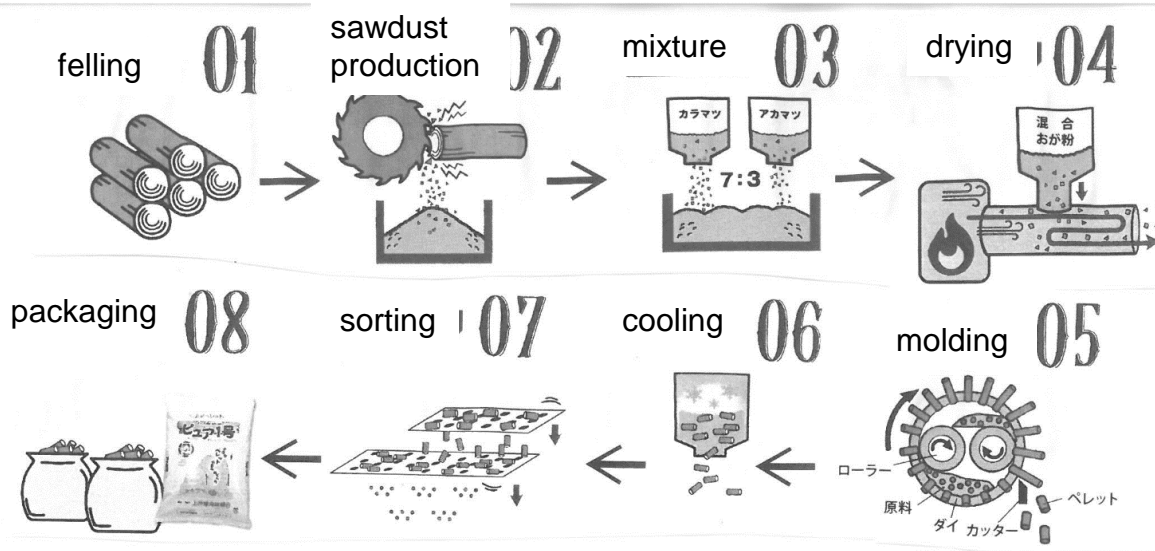


100% fuel made from local materials

Achievements↓

- ①Effective use of forest resources
- ②CO₂ reduction
- ③Local production for local consumption of energy

Pure No. 1 Manufacturing process



◇Exporting wood



◇Log delivery

(Mixing ratio: Red pine 30% Japanese larch 70%)



◇sawdust production





◇ Mixture ~ Drying ~ molding



◇cooling ~ Sorting ~ packaging

○ About the Kamiina Forestry Owners' Cooperative

Established: February 1, 1995

Area: Ina City, Komagane City, Tatsuno Town, Minowa Town, Iijima Town,
Minamiminowa Village, Nakagawa Village, Miyada Village

Representative Director/Chairman: SHIROTORI Takashi (Mayor of Ina)

Members: 12,744

Directors: 25

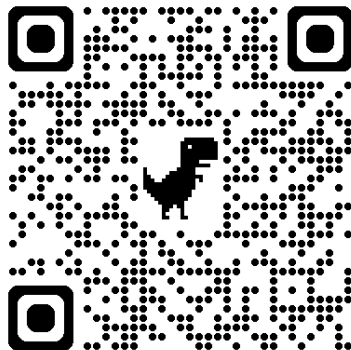
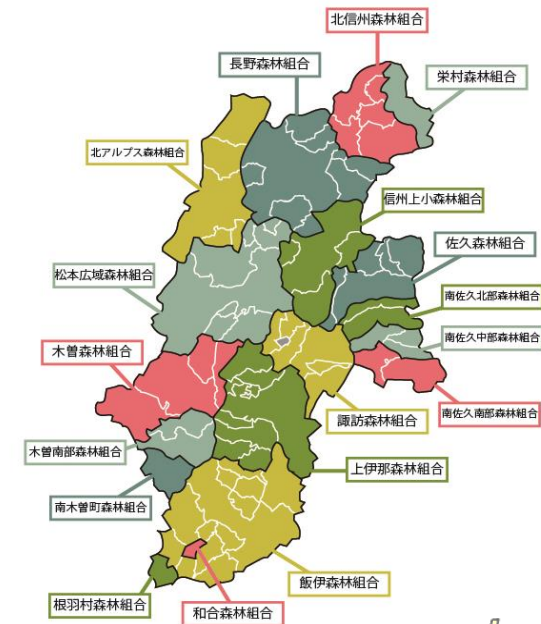
Auditors: 3

Staff: 29 administrative staff, 33 technical staff

Forest owned by members: 51,185 ha

Material production volume: 30,713 m³

(*As of end FY 2024)



Kamiina Forestry Owners HP