

홍조류 바다식물로 만드는 펄프와 종이, 바이오에탄올

Pulp & Paper, Bio-ethanol Made from Red Algae

PEGASUS
International



7F, Platinum Building, 889-51, Dae-Chi Dong
Kang-Nam Ku, Seoul, 135-839
Republic of Korea

Tel : +82-2-3452-6288

Fax : +82-2-3452-4288

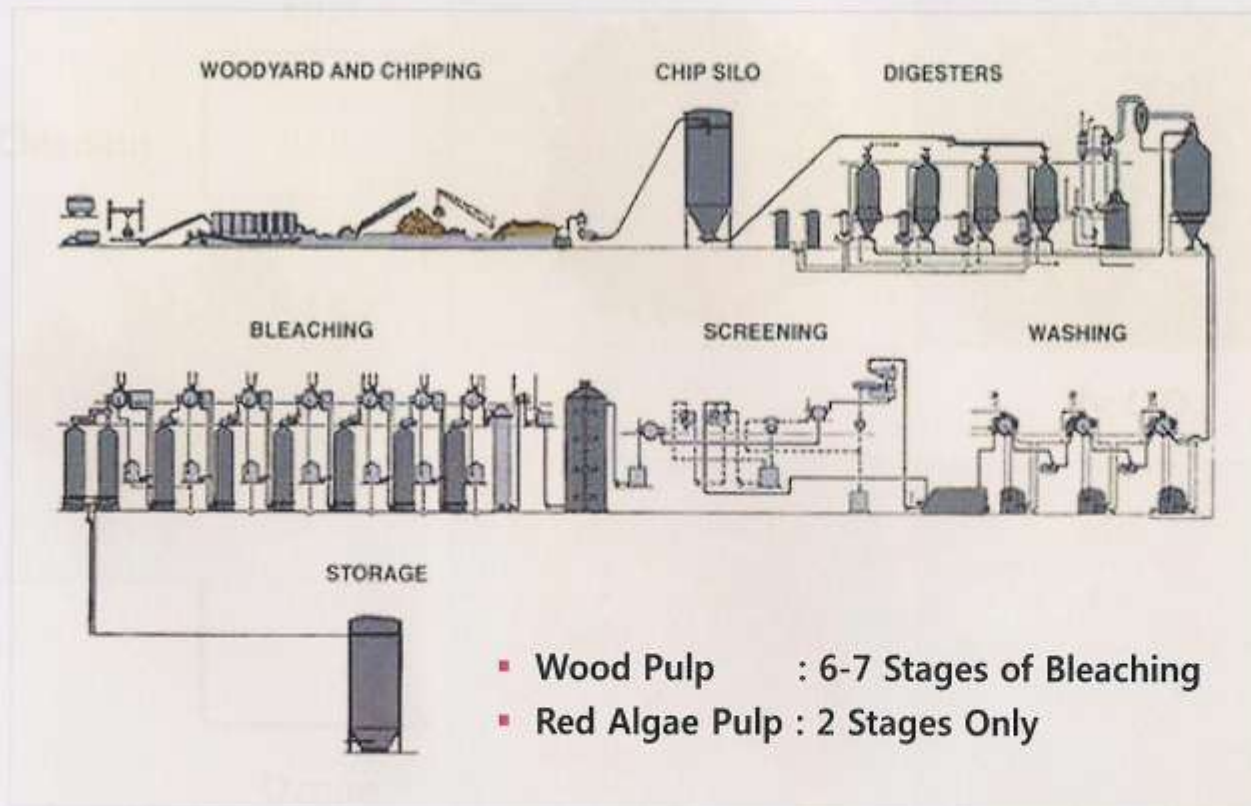
Pegasus International, Inc.

The New Era of Pulp & Paper

Comparison to Wood Pulp

- Red Algae Pulp, Only 20% of Wood Pulp Process, Saving Energy & CO₂ Reduction

- Wood Pulp : 180°C, 8 Hours, NaOH
- Red Algae Pulp : 100°C, 2 Hours, Water (No Lignin Removal)



Wood Pulp Process

Red Algae Pulp →

- Pulp production facility in “Tae-Ryong Agar Company” factory in Mil-Yang city



Agar Extractor



Pulp Bleacher



Pulp Thickener

- Paper production facility in “Cheon-Yang Paper” factory in Wan-San county



Paper Mill



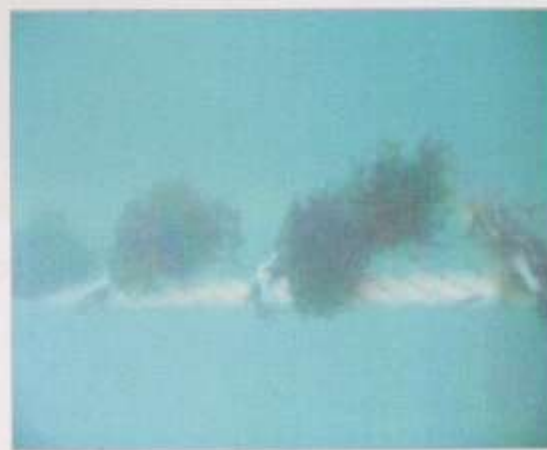
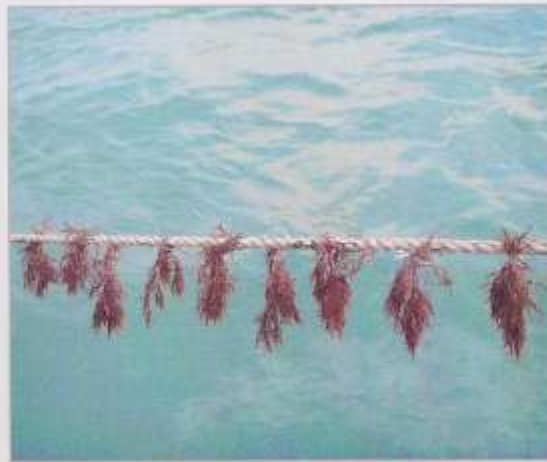
Wet Press



Dryer

Trial Cultivation in Korea

- Cultivation in Dang-Mok Ri village, Wan-Doh county in 2006
 - In 2006, *Pterocladia tenuis* trial cultivation experiment was conducted
 - Pilot trial farm of PEGASUS is located in Dang-Mok Ri village, Wan-Doh county
 - Organisms grew an average of 4.5 times during 30 days with an average daily growth rate of 4.23%



- A Korean species *Gelidium amansii*, Transplanted to Indonesia



- *Gelidium amansii* (Korea)

- Well-adapted, Growing 4-Times in 70-Days (average)
- Manado, North Sulawesi



- Trial pilot farm (Indonesia)

- 70-Days After Seedling

