



Welcome to Moorim's Dream

Sit back and relax as we introduce to you our realization of Moorim's Dream.



Moorim Pulp & Paper Business in 2010

Premium
Printing Paper

MOORIM PAPER

(Paper: 600,000 мт)

High value-added Specialty Paper

MOORIM SP

(Paper: 80,000 MT)





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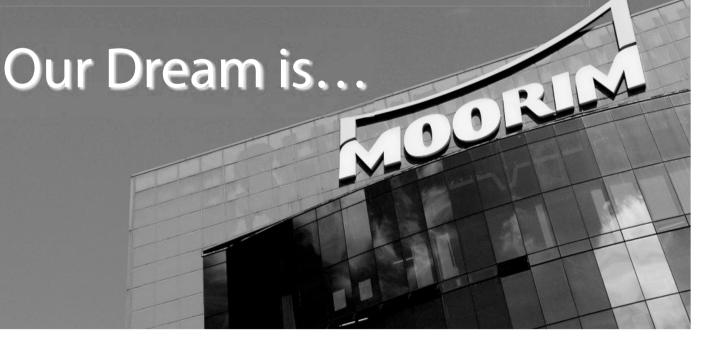
MOORIM SP

(Paper: 80,000 MT)





We have a Dream to make our customer's life more comfortable and rich.



Expansion Plan (2011-2020)

2011, Construct 1st Integrated Machine

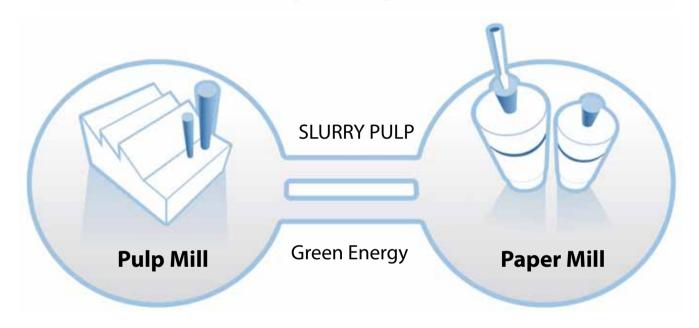
2015, Construct 2nd Integrated Machine

2020, Construct 3rd Integrated Machine & 3rd Pulp Machine

The 1st Step



The first and only integrated mill in Korea



Here, we not only get the benefits of reducing drying cost of pulp and dissolving cost of paper, plus get the benefits of the improvement of fiber strength.

For the Customer satisfaction

Eco-friendly facilities

- Minimizing the drying Energy for the state of the art technology for press part in PM
- Minimizing the Electricity for application of high efficient motor and lighting

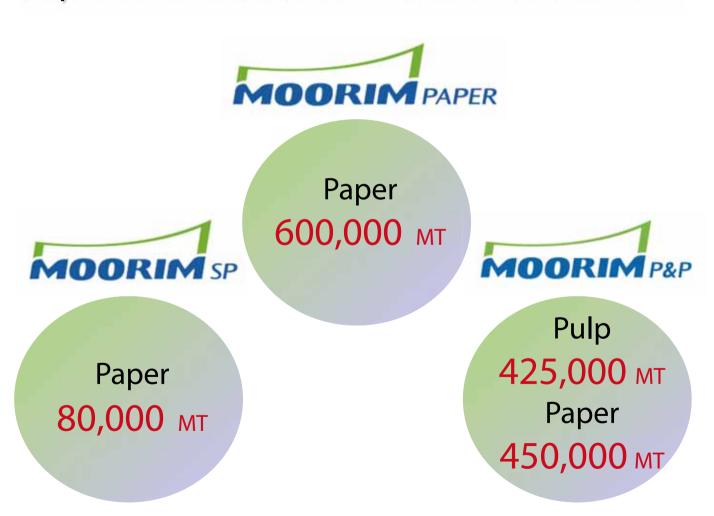
For the competitive quality

- Selection of paper machine facilities for best formation and bulk
- Application of off-line coater for the best printability of CWF(100~150 gsm)

For Quick Response Delivery

- Selection of lay out for flexible production according to market condition
- Application of intermediate roll storage for Quick Response Delivery
- even delivery throughout month
- improving lead time by at least 2 weeks

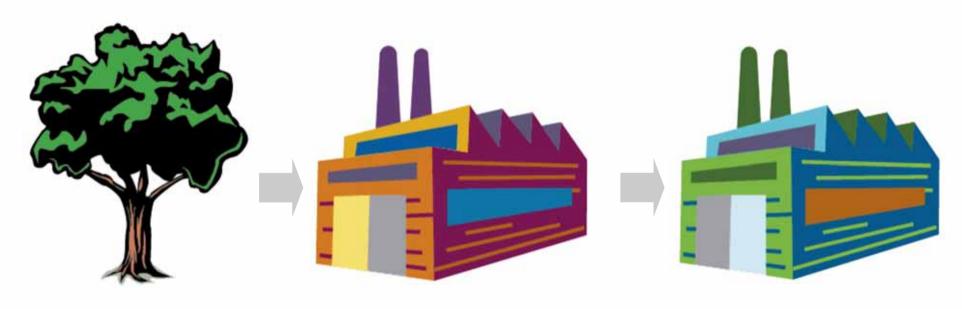
Paper Production of 1.13 million MT in 2011



Paper Mass Production of 1.13 million MT in 2011



Plantation-Pulp-Paper Vertical integration



Plantationin domestic and abroad

Producing high quality mixed Hardwood Pulp

With this vertical integration, Moorim has global competitiveness



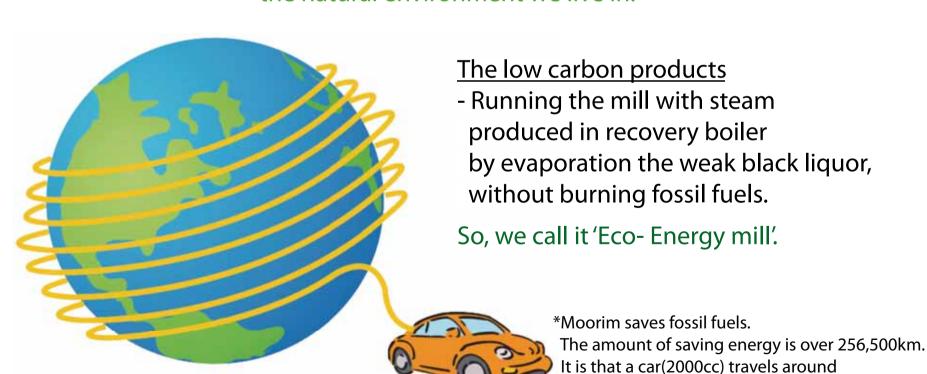
High Quality Products

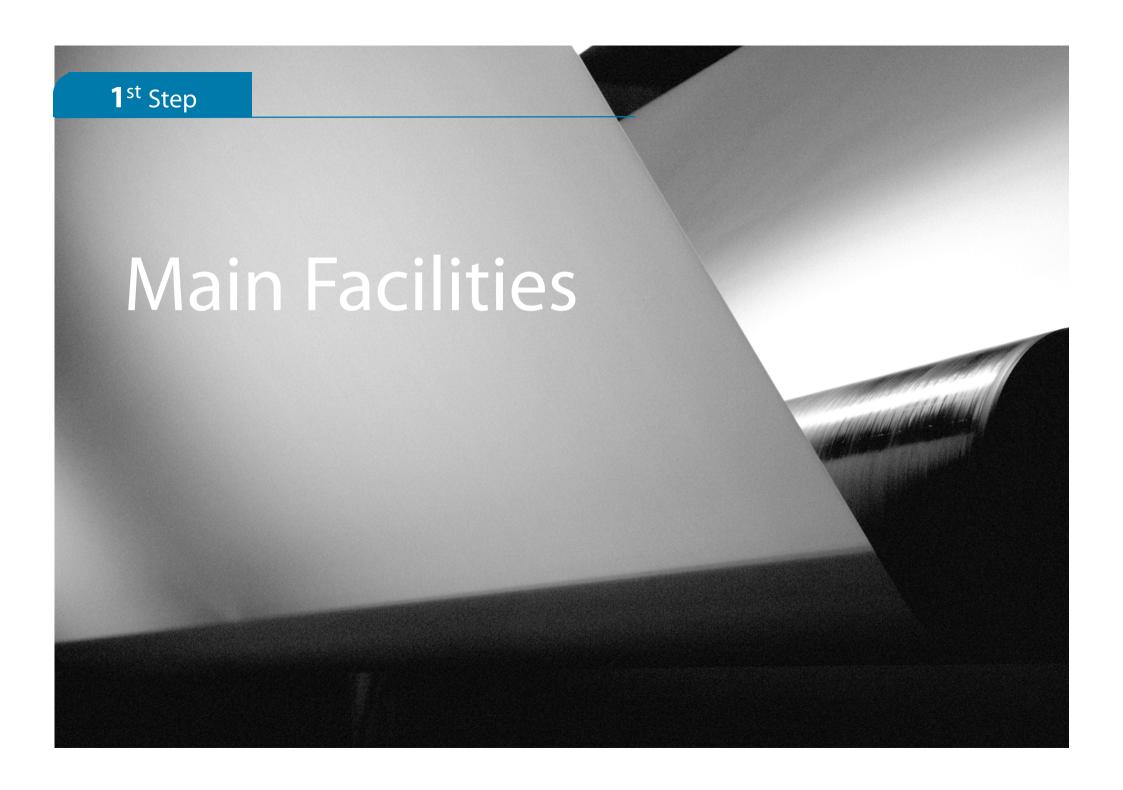
ltem,	unit	100 gsm		150 gsm	
		Moorim)	the Best spec in Korea	Moorim)	the Best spec in Korea
Basis weight)	gsm	100)	100)	150)	150)
Thickness	μm)	ر08	76,	122)	118)
Roughness	μm)	< 0.60,	0.63,	< 0.60	0.63 🕽
Whiteness >	%♪	> 110,5	108)	> 110,5	110)
Paper gloss	%♪	78)	76)	78)	76)

Eco-Energy Mill

a world 77,000 times

Moorim is leading the way in protecting and rehabilitating the natural environment we live in.





° Scale of the pulp & paper integrated machine



Total Floor Areas: **856,613** $ft^2(79,582 \text{ m}^2)$

Length: **2,057** ft(627m), Width: **321.5** ft(98m), Height: **141** ft (43m)

minimum 147.6 ft(45m) minimum 88.6 ft(27m)



° Paper Machine



- Hybrid former
- Two-shoe press
- Advanced Metering size press

Specification

• Manufacturer: VOITH

• Speed: 4,265 ft/min

(1,300m/min)

• Wire Width: 30.5 ft (9.3m)

• Paper Width: 28.5 ft (8.7m)

• Basis Weight

- Uncoated paper: 70~90 gsm

(47~61 lbs)

• Base Paper: 60~105 gsm

(41~71 lbs)

• Output: 450,000 MT



° Coating Machine

Specification

• Manufacturer: VOITH IHI

• Speed: 5,249 ft/min (1,600m/min)

• Face Length: 29.2 ft (8.9m)

• Paper Width: 28.3 ft (8.65m)

• Basis Weight: 100~150 gsm

(67.5 ~101 lbs)



- Perfect combination of IHI Vari-dwell® coating station and VOITH center winding Sirius® Reel
- IR Dryer + Air Floatation Dryer



° Supercalender

* Feature of Janus Calender

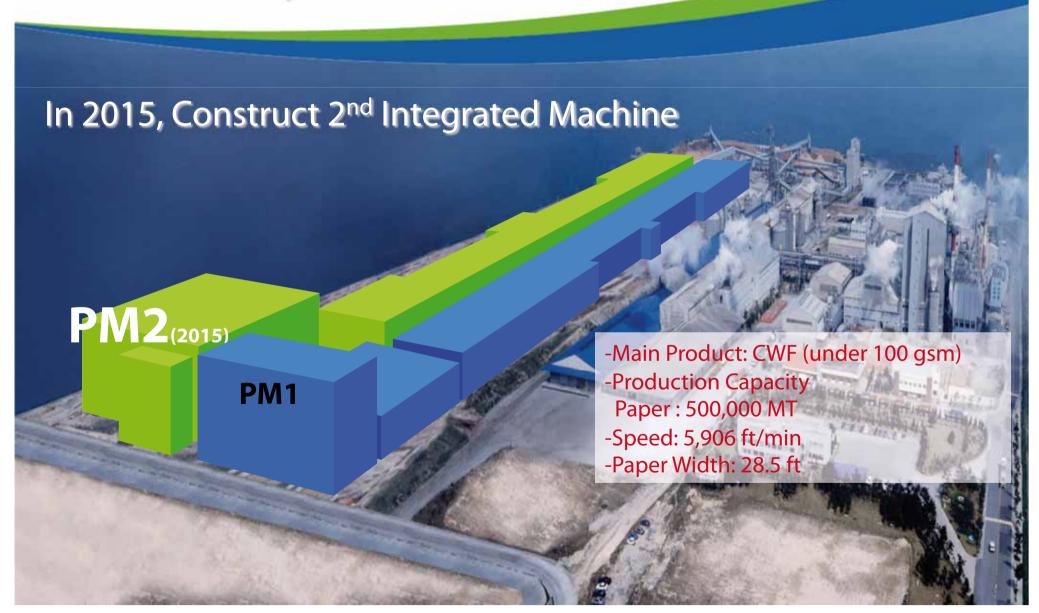


Specification

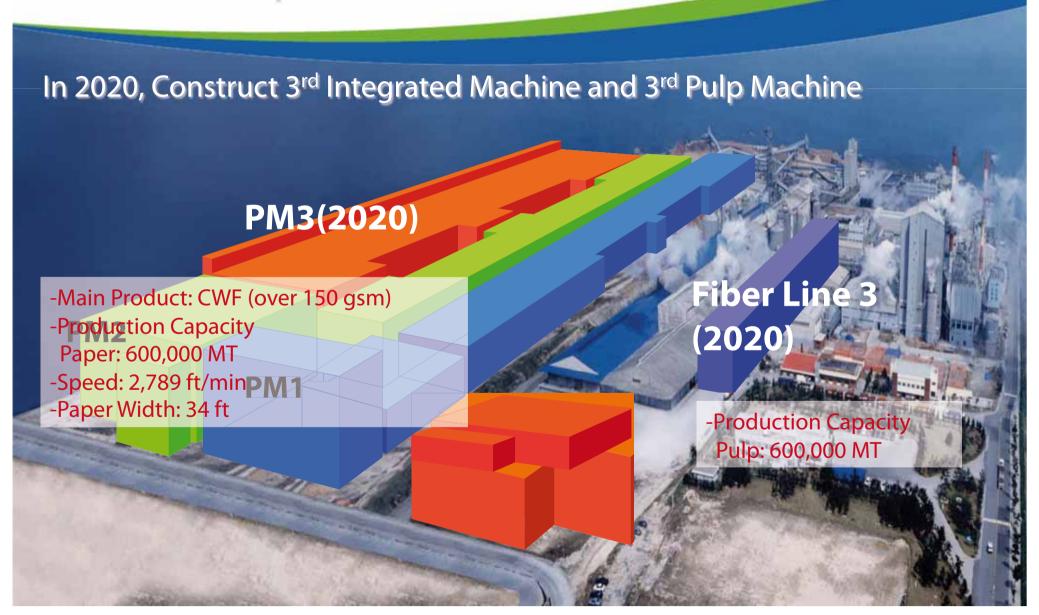
- Manufacturer : VOITH
- Speed: 3,937 ft/min (1,200m/min)
- Paper Width: 28.2 ft (8.59m)
- The number of Roll: 10
- The number of Machine: 2
- Oil + Gas heating system
- Zone Control Nipcorect
 Roll[®] system
- Partial Nip operation

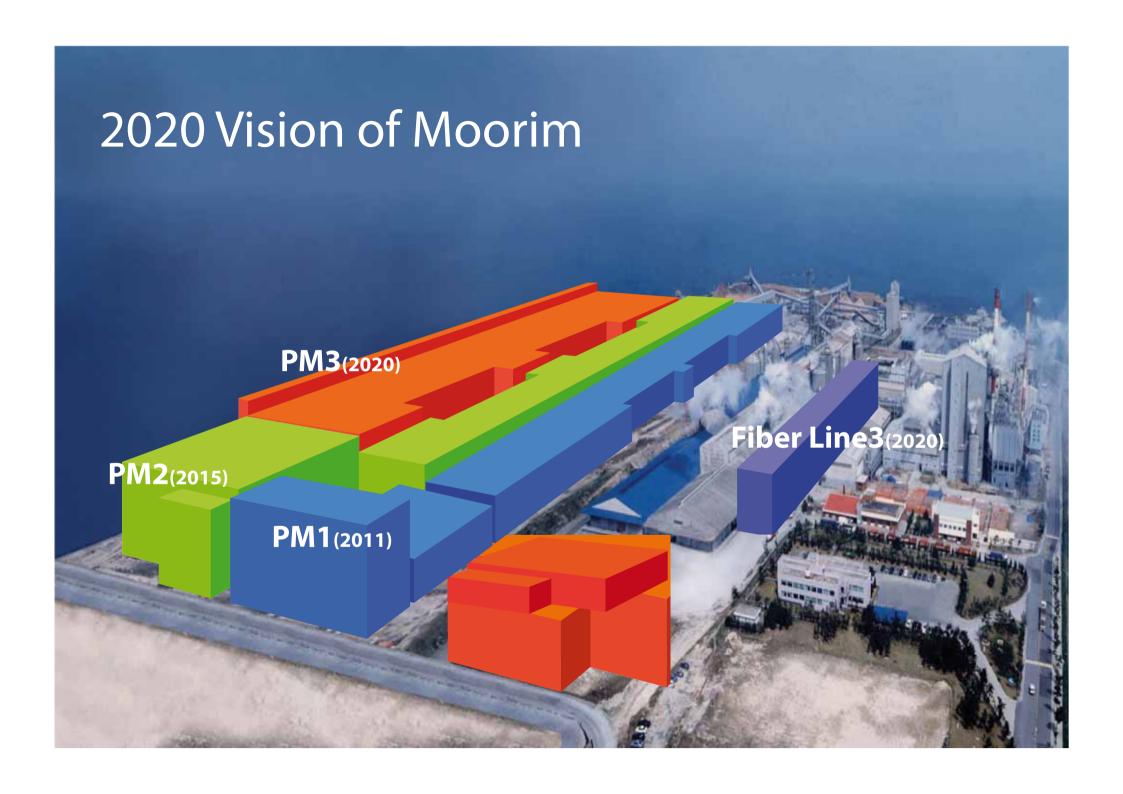


The 2nd Step



The 3rd Step





2020 Vision of Moorim

1st Step

-Main Product: CWF(100 ~150 gsm)

-Production Capacity

Paper: 450,000 MT

(Coated: 315,000 MT/ Uncoated: 135,000MT)

-Speed: 4,265 ft/min

-Paper Width: 28.5 ft 13(2020)

PM2(2015)

PM1(2011)

2nd Step

-Main Product: CWF(under 100 gsm)

-Production Capacity:

Paper: 500,000 MT

-Speed: 5,906 ft/min

-Paper Width: 28.5 ft

Fiber Line3(2020

3rd Step

-Main Product: CWF(over 150 gsm)

-Production Capacity

Paper: 600,000 MT / Pulp: 600,000 MT

-Speed: 2,789 ft/min

-Paper Width: 34 ft

Moorim 2020 Vision

Global Pulp & Paper Company

+

Pulp: 600,000 MT

Paper: 600,000 MT



Paper: 500,000 MT

• Plantation: 50,000 ha

• Pulp: 425,000 MT

• Paper: 1,630,000 MT

Plantation: 50,000 ha

• Pulp: 1,025,000 MT

Paper: 2,230,000 MT

Plantation: 50,000 ha

• Pulp: 425,000 MT

Paper: 1,130,000 MT

CWF-837,000 MT

2nd step

2015

3rd step

2020

• 1st step

2011

Moorim 2020 Vision

Global Pulp & Paper Company

Plantation

The gross Area

50,000 ha

Pulp

Total production capacity

1,025,000 MT

Paper

Total production capacity

2,230,000 MT

Let's now take a look at our current integra ted mill construction site progress



Tower Installation (LBKP, NBKP, BCTMP)



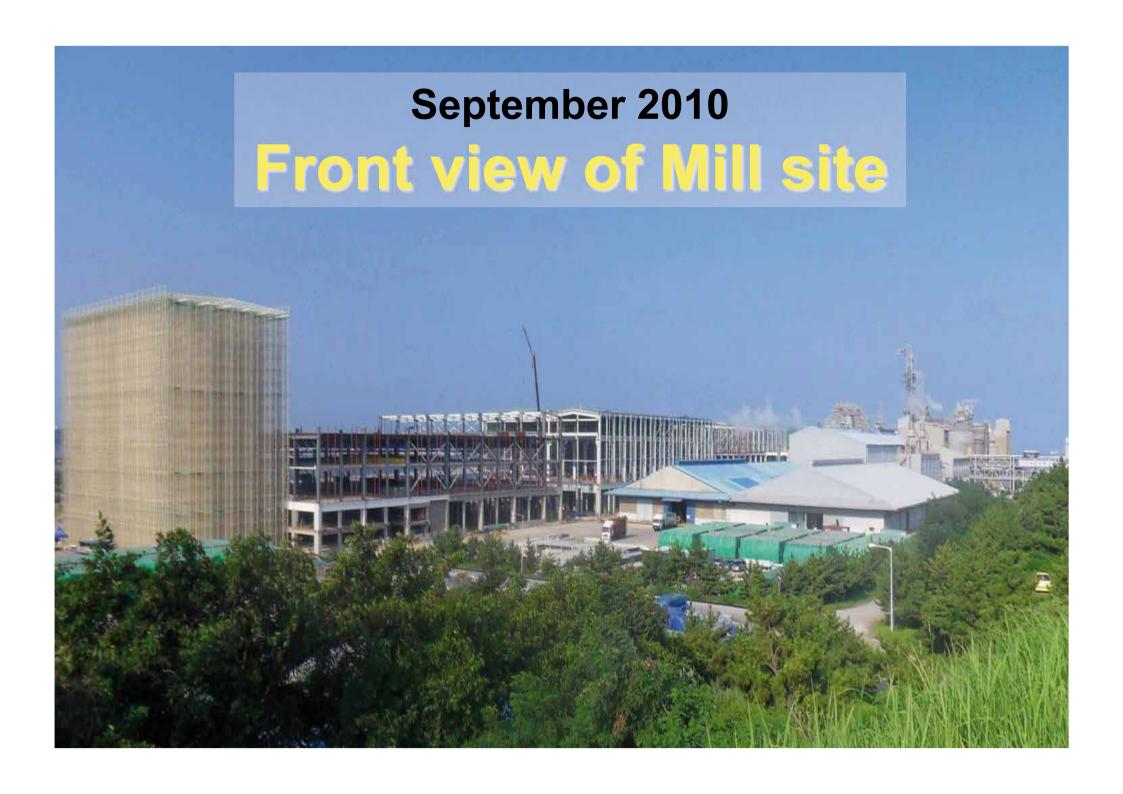












Can you see our dream?

With this dream,
Moorim will be able to take a big step towards
being a Global Pulp & Paper Company.

Dreams do come true, as we share in the happiness and in what the future brings to you and appreciate your ongoing support and interest with us.

Thank You

