



PT Fajar Surya Wisesa Tbk.
| 21 October 2019

Company Profile

One of the
Indonesia consumer
packaging paper
producer

Established in
1988, more than
30 years in the
industry

1.3 million
tonnes production
capacity with
Location in
Cikarang Barat,
Bekasi

100%
Use of recycled
waste paper.

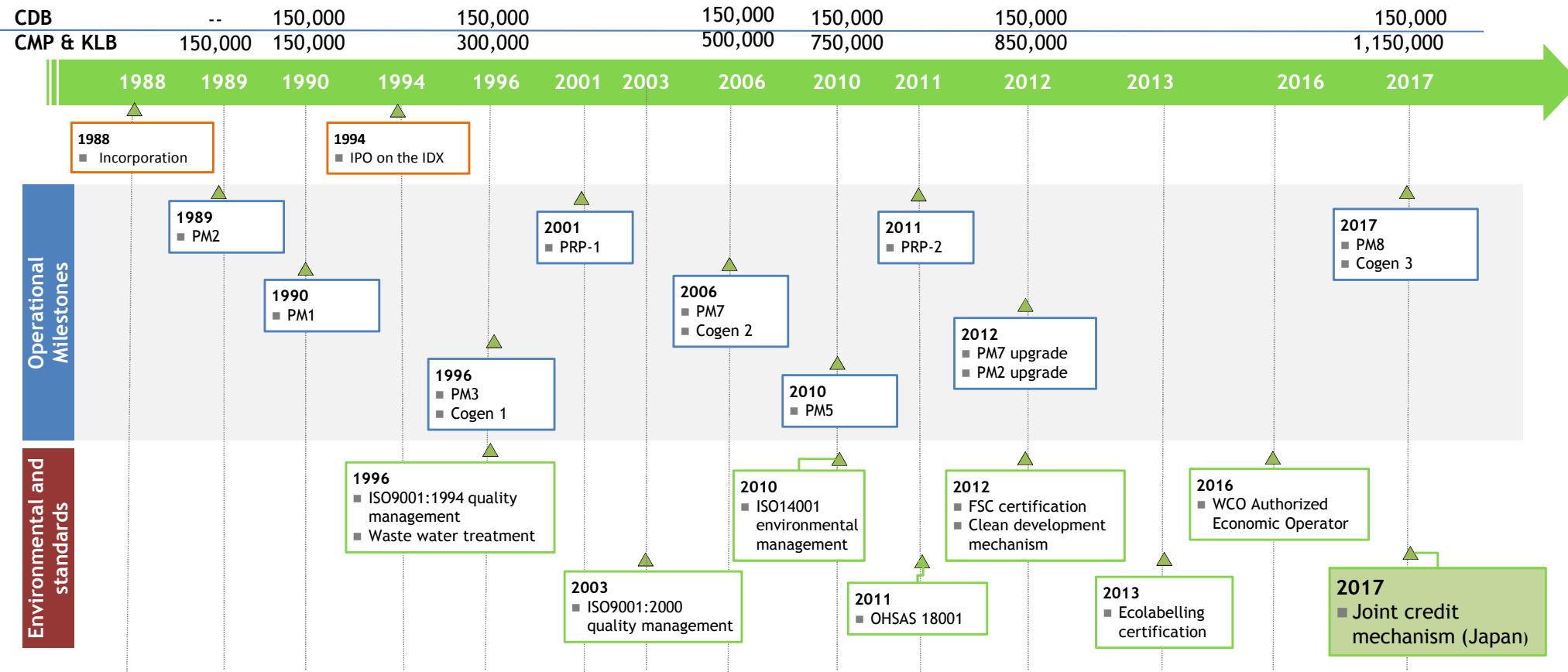
Focus on
Indonesia
domestic
market

FajarPaper is a
company of the future
in terms of its
forward-thinking
approach to business,
energy conservation
and the environment.

Green Company
with environmental
related certification,
i.e. FSC, ISO 14001,
and carbon credit,
registered since 2012

JCM Project
collaborate work with
Kanematsu
Corporation in energy
consumption
reduction of paper
manufacturing process

Key Milestones

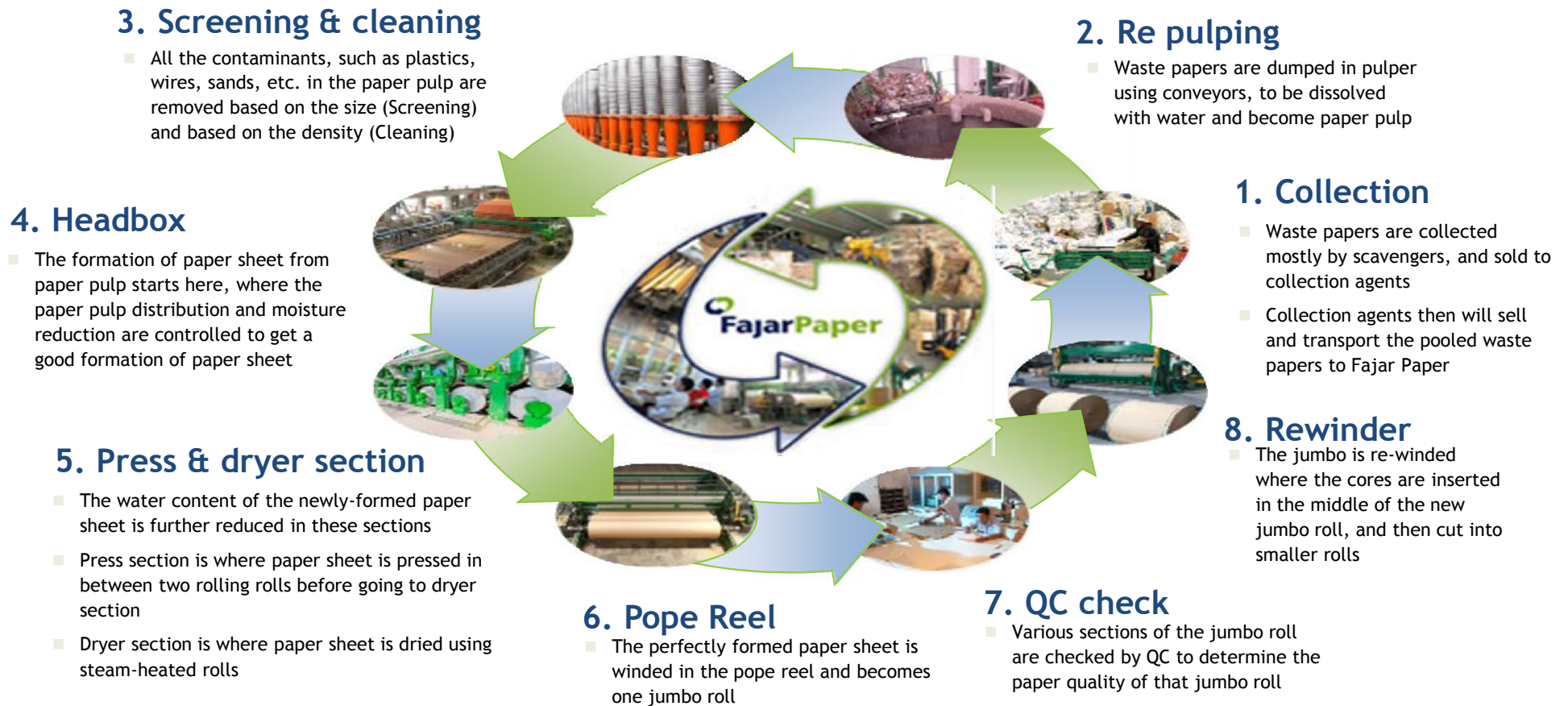


Note: CDB (Coated Duplex Board), CMP (Corrugated Medium Paper), KLB (Kraft Liner Board)







Sustainable Business Model



Production Process



Sustainable Operation

#	Certification	Issuer	Description	Valid	Logo
1	FSC CoC (Forest Stewardship Council - Chain of Custody)	SGS	The only Indonesian company with non-illegal logging source of raw materials certification, since 2012	2022	
2	Clean Development Mechanism (CDM)	United Nation Framework on Climate Change	Carbon credit registered, since 2012	2022	
3	Joint Credit Mechanism (JCM)	Government of Japan	Greenhouse Gas (GHG) emission reductions or removals	2021	
4	Ekolabel & Recyclable	BBPK (Indonesia)	Products are certified recyclable and eco friendly	2020	
5	Authorized Economic Operator (AEO)	Ministry of Finance Indonesia	A party complying with international supply chain security standards	2021	
6	ISO 9001	TUV Sud	Management Quality System	2019	
7	ISO 14001	TUV Sud	Environmental	2022	
8	ISO 45001	TUV Sud	Occupational Health and Safety Management System	2020	
9	OHSAS 18001	TUV Sud	Employee health and safety	2020	

Self-sufficient and Sustainable Energy

2 Gas Turbines Co-generation Power Plant

- Production of approx. 70MW
- Ability to transform waste heat into steams (200 tons/hour)

1 Coal Co-generation Power Plant

- Production of approx. 55MW or 110 ton of steam per hour



Waste Water Treatment Plant

- Existing treatment capacity of 68,000m³ of waste water/day

Pembakar Reject Plastik dan Sludge (PRP) 1 & 2

2 Fluidized-bed PRP Plants

- Transforming approximately 40 tons/hour of steam energy out of the PRP

PRP-1

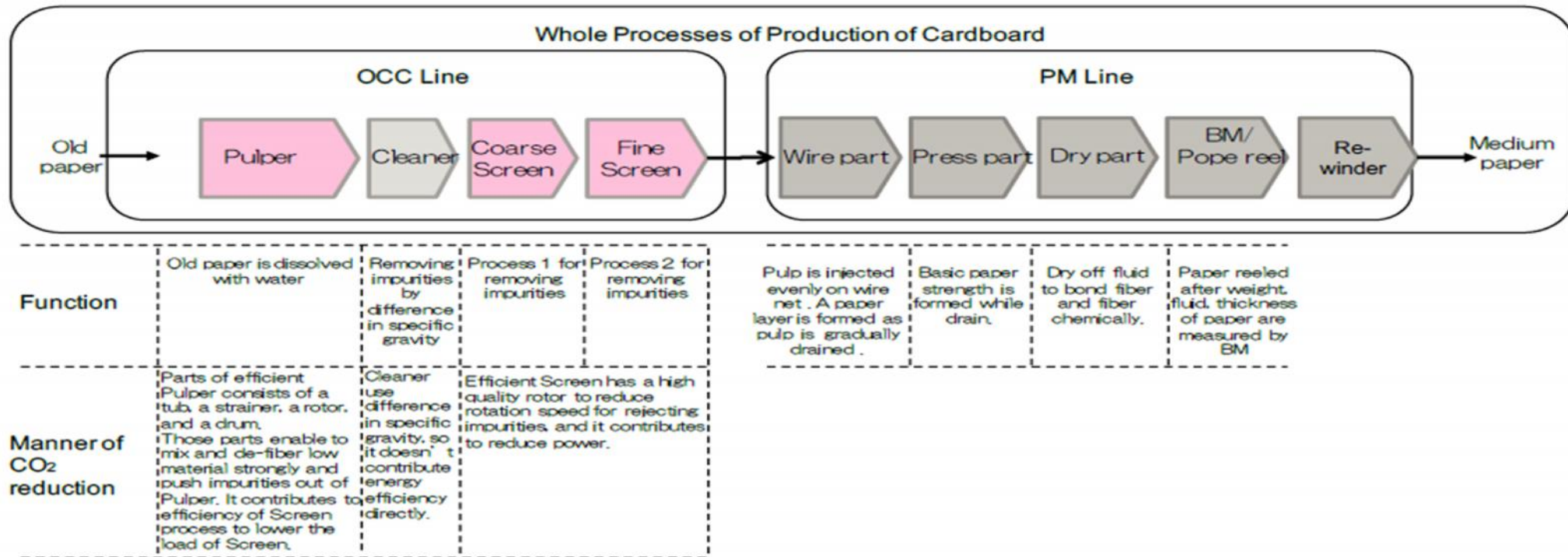
- The first initiative toward emission reduction.
- A grant from Japan & NEDO to Indonesian government
- PRP-1 has been in operated since 2001 .

PRP-2

- PRP-2 was installed using internal fund, the object of CDM/carbon credit.
- Emission reduction through the avoidance of using fuel to produce steam from boiler, instead we got for free through PRP-2.
- PRP-2 has been in operated since 2011



Workflow Process



In the OCC process, the material of sheet paper is made by removing foreign substances, using multiple machines from ground and then liquefied old paper with water.

Target and Challenge - JCM

Saving tCO2 per year target

Reduced emissions and electricity usage through the introduction of efficiencies in the processing and cleaning of recovered paper (OCC) used in the company's manufacturing process - a saving of over 14,800 tCO2 per year.

Challenge in JCM

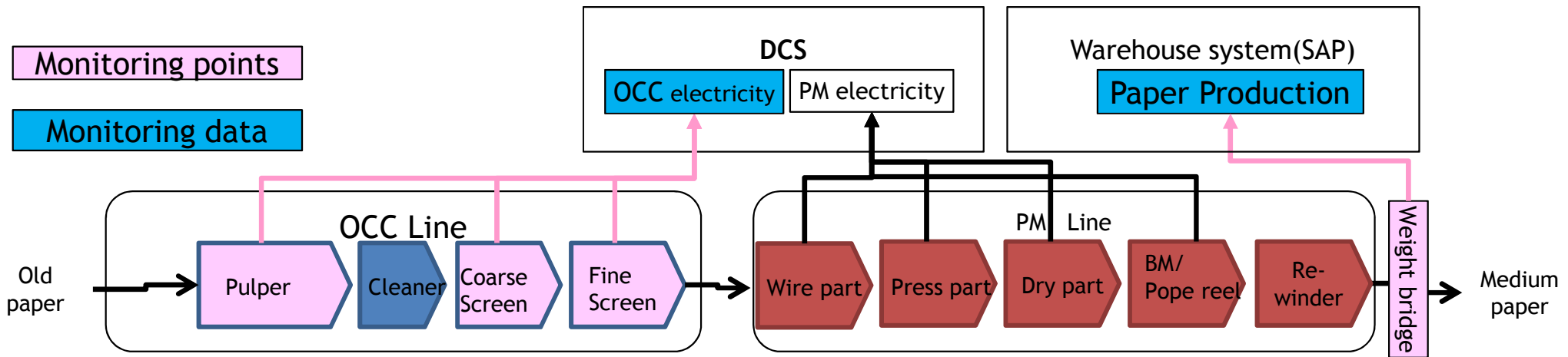
- Financing must come from internal fund.
- Information and Regulation data.

Projected Emission Reduction from 2017 thru 2020 is 71,291 tCO2o

Year	Estimated Reference emissions (tCO _{2e})	Estimated Project Emissions (tCO _{2e})	Estimated Emission Reductions (tCO _{2e})
2017	39,433.5	25,174.8	14,258
2018	52,578.0	33,566.4	19,011
2019	52,578.0	33,566.4	19,011
2020	52,578.0	33,566.4	19,011
Total (tCO _{2e})	197,167.5	125,874.0	71,291

[Note] The emission reductions are counted from April 1, 2017.

Monitoring



Parameters

- Paper production measured at the PM line connected to the project OCC line
- Electricity consumption of the project OCC line

JCM Event at FajarPaper

Date : 20 December 2016

Location : Mill Site of PT Fajar Surya Wisesa Tbk. Cikarang Utara Bekasi

Venue : Local Stakeholder Consultation (LSC) gathering In relation to the application process for FajarPaper's JCM project, Introduction of High Efficient Old Corrugated Cartons Process at Paper Factory

Attendee : 1. Indonesia Pulp and Paper Association (APKI)
2. JCM Secretariat Indonesia
3. Ministry for Economic Affairs
4. Ministry of Industry
5. Kanematsu
6. Suncosmo Co, Ltd.

JCM Event - 20 December 2016



