

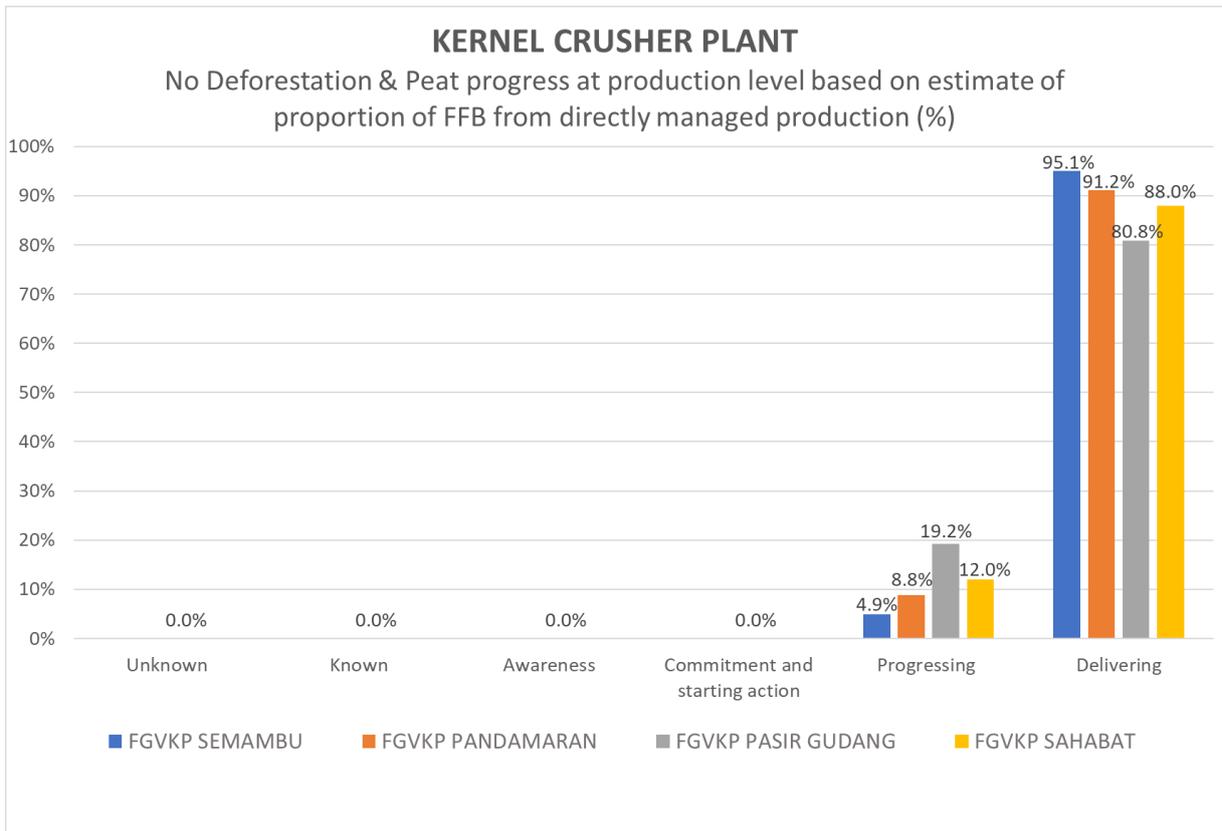
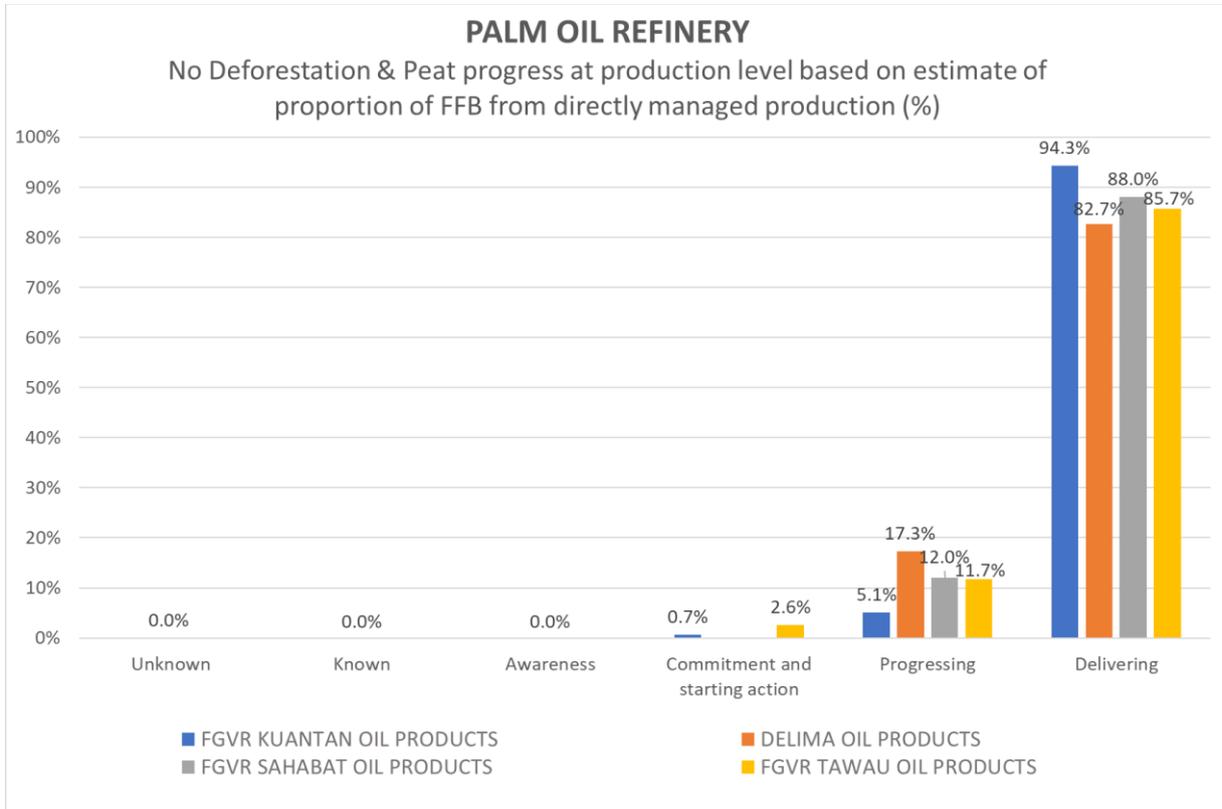


# FGV SUSTAINABILITY PERFORMANCE AND UPDATES 2021-2023

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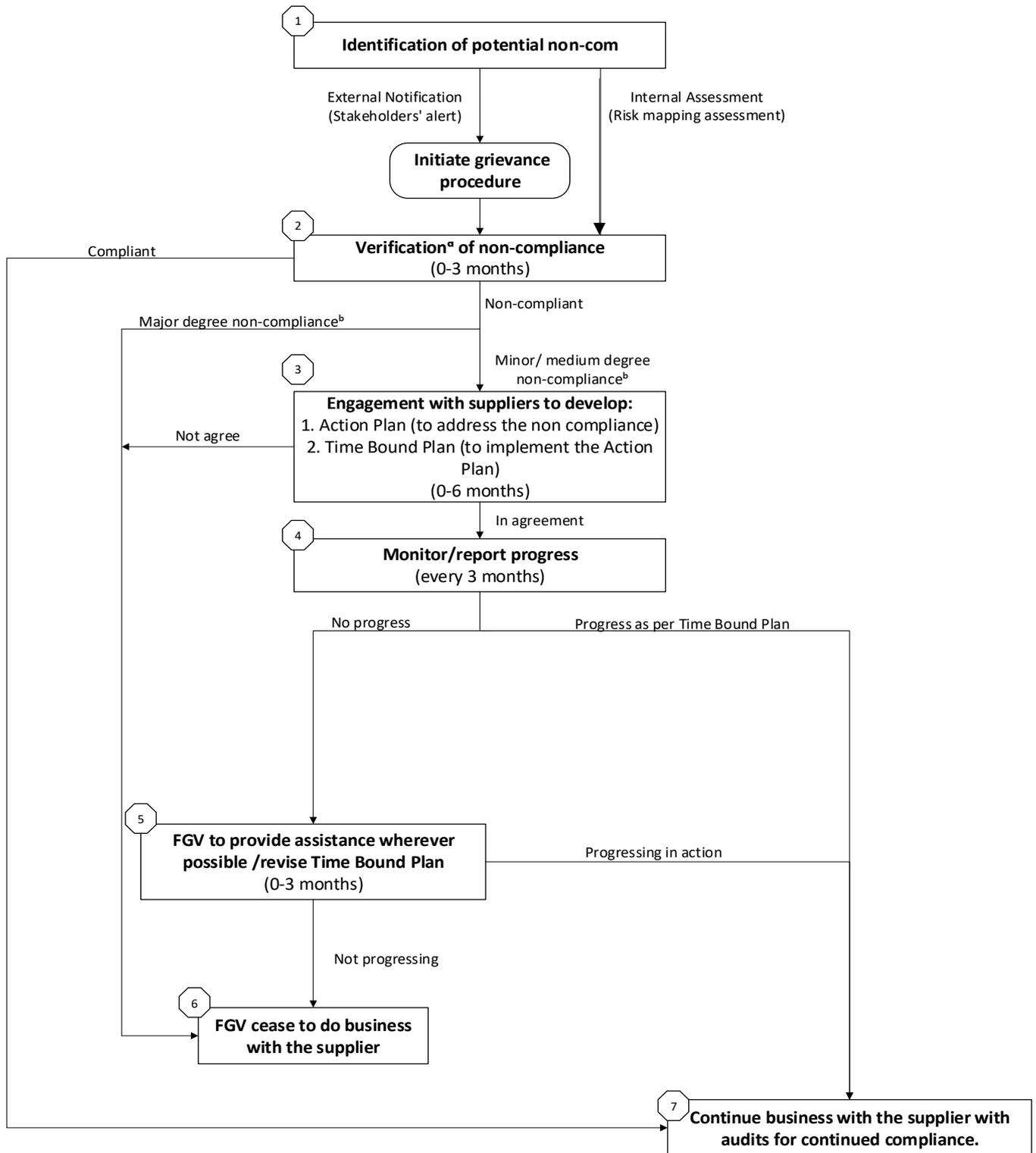
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# 1 NDPE Implementation Reporting Framework



## 2 Group Sustainability Policy (GSP) Compliance Framework

FGV uses our GSP Compliance Framework to manage any non-compliant issues (such as deforestation activity) by its suppliers. The framework is illustrated as below: -



Footnote:

- a An audit by external party might be conducted when necessary
- b Based on Supplier Delinquency Guideline

### 3 Peatland area

FGV adheres to NDPE policy since the inception of its GSP in 2016. All the existing plantations on peat adopts the best management practice as stipulated in RSPO Best management Practices (BMPs) for Existing Oil Palm Cultivation on Peat. Details of peatland in FGV areas are as below: -

FGV's total peatland area is 3,751.95 ha which has not increased since the 1<sup>st</sup> peat inventory for RSPO reporting since 2020. The 2<sup>nd</sup> peat inventory reporting in 2023 shows that there are no changes in area planted on peat.

Total Planted area (Ha)	Summary of estates containing peat (Ha)			
	Planted	Unplanted		
		Conservation	Rehabilitation	Other
33,973.88	3,751.95	1,234.78	31.83	10.00

Region	Country	Total planted area (Ha)	Summary of peat area (Ha)			
			Planted Total Area	Unplanted		
				Conservation (HCV, HCS, Conservation)	Peat (rehabilitation)	Other (Infra, buildings etc)
Sarawak	Malaysia	2278.37	738.44	0	0	10
Johor	Malaysia	6692.23	970.19	249.23	31.83	0
West Kalimantan	Indonesia	16257	325.6	357	0	0
Terengganu	Malaysia	2543.26	280	164.03	0	0
Perak	Malaysia	2151.21	496.92	0	0	0
Sabah	Malaysia	4051.81	940.8	464.52	0	0

### 4 No Open Burning/Use of Fire

Despite our best efforts to prevent any fires, there are still fire incidents occurring on and around our premises. The areas and sizes of the affected area are as below:

Area /Year	Size of affected area (Ha)			
	2020	2021	2022	2023
Malaysia	4.16	15.5	0.6	3.7
Indonesia	0.77	7.5	4.71	NA

Spontaneous burning due to hot weather & dry season in Malaysia while accidental or intentional burning by local communities is the primary cause of fire around our plantations in Indonesia.

## 5 Climate Action

### 5.1 Carbon Management

The Carbon Management is one of the six pillars our Climate Action Program. It focusses on GHG Inventory, followed by GHG Management in all FGV Group and its subsidiaries.

We are committed to reducing FGV’s Green House Gas (GHG) emissions by half in the medium term (by 2030) and to zero in the long term (by 2050), based on the baseline in 2019. Our GHG Inventory and Management cover the emissions from all our 25 business units in three business sectors (Plantation, Sugar, Logistics, and Others) that were in operation in 2019. In determining our GHG inventory and develop our reduction target based on latest science, we have appointed a third-party South pole for an independent assessment in 2013. We plan to submit our GHG reduction plan to SBTi in the later part of 2024.

In pursuance to fulfil our commitment, we have established an Environmental Policy Statement to enhance the Group’s commitment to climate action and the environment and have been implementing various strategic initiatives to reduce our carbon footprint.

We capture methane gas released from 28 of our wastewater treatment plants to lower our GHG emissions and has been monitoring the emissions avoidance of our biogas operations from the utilization of captured methane.

### 5.2 GHG Footprint

FGV has reported the GHG intensity per tonne of product for our palm oil operations, which is measured in CO<sub>2</sub>e per tonne of CPO (crude palm oil). We track our operations' net GHG emissions using the PalmGHG Calculator developed by RSPO. This calculation includes our Scope 1 and 2 emissions for our RSPO-certified management units and reported in the [RSPO ACOP Report Submissions](https://rspo.org/members/1-0225-16-000-00/). <https://rspo.org/members/1-0225-16-000-00/>

The yearly trend is as follows:

Year	2021	2022	2023
Average GHG intensity emission (tCO <sub>2</sub> e/tCPO)	1.02	0.91	0.85

## 6 Water Use Intensity

FGV is committed to achieving water neutrality throughout its operations. To this end, the company continuously monitors its water consumption and water intensity at its mills and refineries.

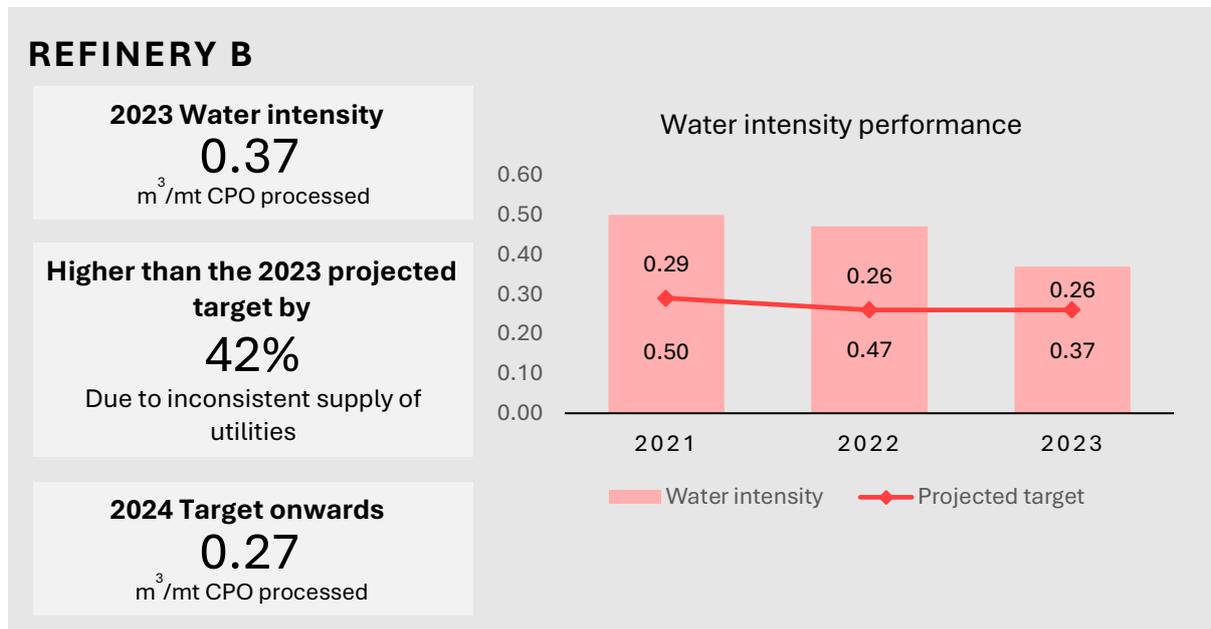
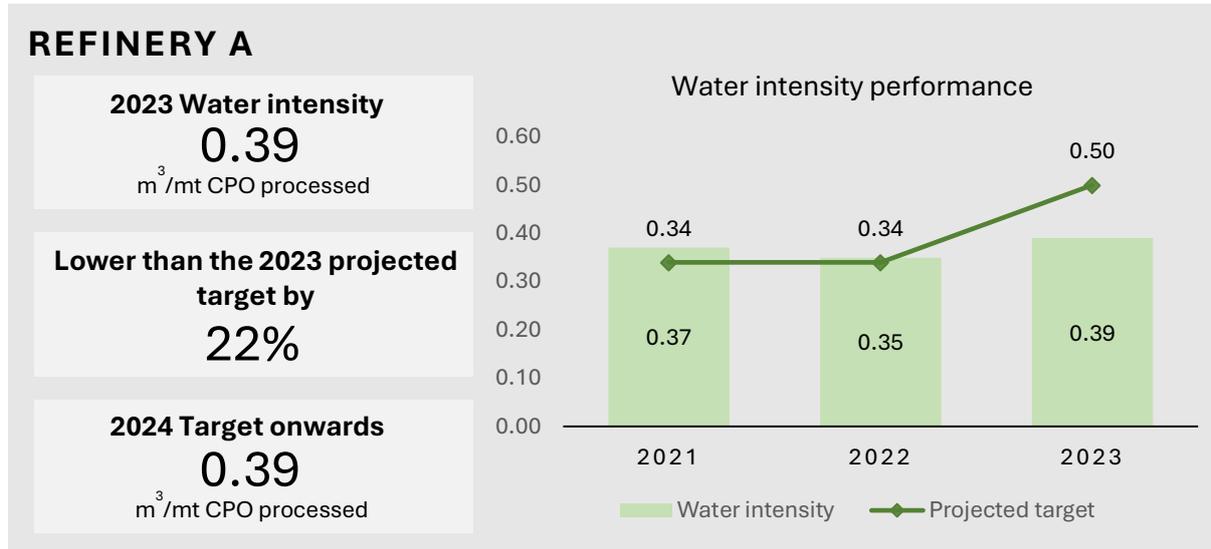
FGV, through its subsidiaries, FGV Palm Industries, operates 63 palm oil mills, and FGV Refineries and Delima Oil Products, operate with a total of 4 refineries located across Peninsular and West Malaysia.

The water intensity at these facilities is measured by the water usage volume over the tonnage of raw material or product processed. It is tracked and measured over a three-year period, with annual projected target and future targets set for improvement.

Generally, the projected water intensity targets for each year had been set based on the production forecast plan developed earlier in each year. Meanwhile, the future target for the fiscal year 2024 onwards were set based on the average from the previous projected targets.

### 6.1 Refinery Water Intensity Performance

For the refineries, the water intensity is measured by the water usage volume over the tonnage of crude palm oil (CPO) processed. The water intensity performance is as follows:

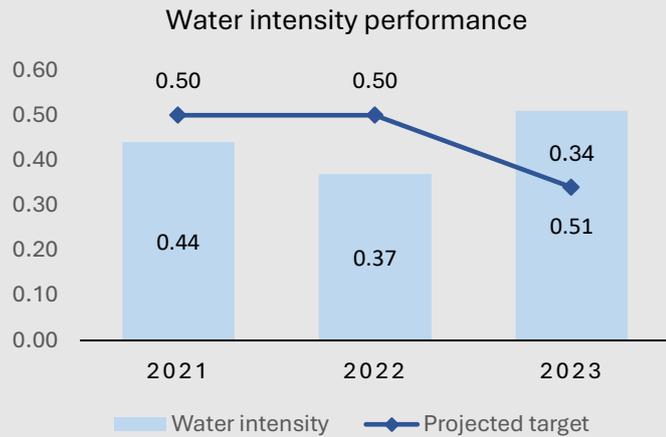


## REFINERY C

**2023 Water intensity**  
**0.51**  
 m<sup>3</sup>/mt CPO processed

**Higher than the 2023 projected target by 50%**  
 Due to unexpected downtime

**2024 Target onwards**  
**0.45**  
 m<sup>3</sup>/mt CPO processed

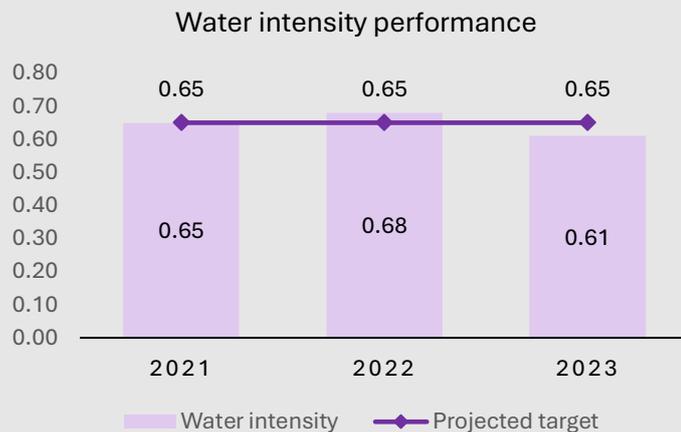


## REFINERY D

**2023 Water intensity**  
**0.61**  
 m<sup>3</sup>/mt CPO processed

**Lower than the 2023 projected target by 6%**

**2024 Target onwards**  
**0.65**  
 m<sup>3</sup>/mt CPO processed



- Two refineries achieved water intensity levels lower than their annual projected targets.
- The other two refineries exceeded their annual projected water intensity targets due to operational factors.

The average water intensity across all refineries recorded for 2023 is 0.47 m<sup>3</sup>/mt CPO processed, which remained constant with the average 2022 water intensity.

## 6.2 Mill Water Intensity Performance

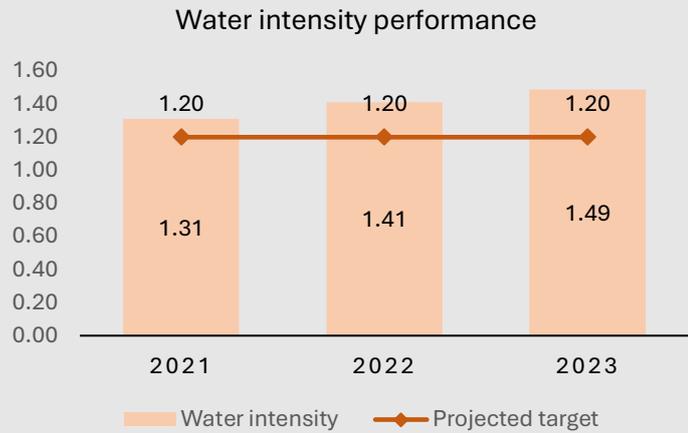
As for the mills, the water intensity is measured by the water usage volume over the tonnage of fresh fruit bunches (FFB) processed. The water intensity performance is as follows:

### MILLS – ZONE 1

**2023 Water intensity**  
**1.49**  
 m<sup>3</sup>/mt FFB processed

**Higher than the 2023 projected target by 24%**  
 due to maintenance works

**2024 Target onwards**  
**1.20**  
 m<sup>3</sup>/mt FFB processed

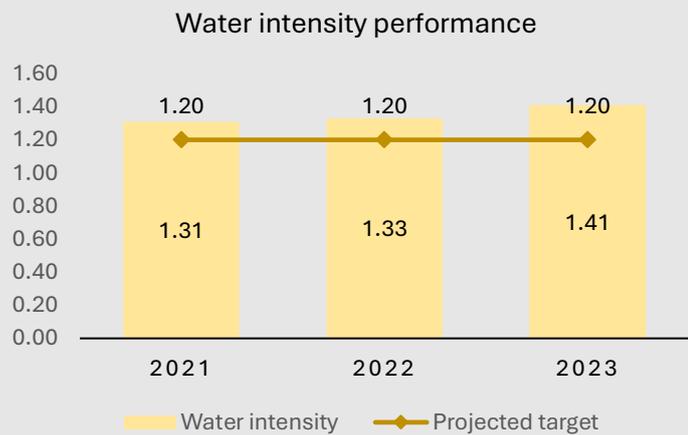


### MILLS – ZONE 2

**2023 Water intensity**  
**1.41**  
 m<sup>3</sup>/mt FFB processed

**Higher than the 2023 projected target by 18%**  
 due to maintenance works

**2024 Target onwards**  
**1.20**  
 m<sup>3</sup>/mt FFB processed

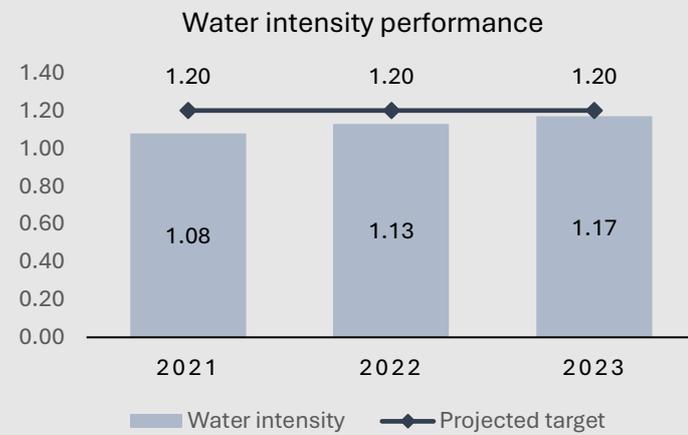


### MILLS – ZONE 3

**2023 Water intensity**  
**1.17**  
 m<sup>3</sup>/mt FFB processed

**Lower than the 2023 projected target by 3%**

**2024 Target onwards**  
**1.20**  
 m<sup>3</sup>/mt FFB processed



- Zone 3, representing East Malaysia’s mills, achieved water intensity levels lower than their annual projected target.
- Zone 1 and Zone 2, representing Peninsular Malaysia 1 and Peninsular Malaysia 2, respectively, exceeded their annual projected water intensity targets due to operational factors.

On average, the 2023 water intensity across all mills increased by 5% compared to 2022, from 1.34 m<sup>3</sup>/mt FFB processed in 2022 to 1.41 m<sup>3</sup>/mt FFB processed in 2023.

To conclude, FGV continues to closely monitor and work towards improving the water usage efficiency at its operations to achieve its water neutrality goals.

## 7 Water Quality (BOD and COD)

As FGV is committed to ensuring our operation does not give an adverse impact on the environment. We conduct daily, weekly, and monthly effluent performance monitoring that involves lab analyses and checks on the physical condition of our POME and PORE treatment systems. We continuously ensure that our discharge does not exceed the limit set by the Department of Environment (DOE) Malaysia, which is also our internal target to be achieved by 2025.

Our POME records in 2021, 2022 and 2023 are as follows:

### Watercourse Discharged

MILL	BOD Result (mg/L)			DOE Limit (mg/L)
	2021	2022	2023	
Southern (12 mills)	55	55	40	100*
Northern, Central East and Central West (38 mills)	71	75	64	100
Sarawak (1 mills)	27	49	50	100

Note:

\* The Department of Environment Johor has set a new limit (20 mg/L) for POME discharge in southern region in 2021. However, FGV has been given a mediation period until 30 June 2024 to upgrade the mills' POME treatment plants. Therefore, the current permissible POME discharge limit for FGV's mills in southern region stays at 100 mg/L until the end of the mediation period.

### Land Discharge

MILL	AVERAGE (2021-2023)	DOE Limit (mg/L)
Northern (2 mills)	108	5000
Southern (4 mills)	114	500
Southern (1 mill)	103	100
East (6 mills)	44	100
East (2 mills)	9	20

Our PORE records in 2021 2022 and 2023 are as follows:

**Facility: Refinery A**

Months/ Year	COD Result (ppm)			COD Target (ppm)	BOD Result (ppm)			BOD Target (ppm_)
	2021	2022	2023		2021	2022	2023	
Jan	158	75	80	200ppm<	15	14	21	50ppm<
Feb	128	51	43		14	10	24	
Mar	121	42	49		16	6	12	
Apr	129	35	41		15	7	10	
May	141	38	90		11	5	19	
Jun	172	54	95		13	12	17	
Jul	150	69	41		13	14	14	
Aug	155	28	128		13	6	23	
Sep	174	52	68		7	15	19	
Oct	111	115	35		13	19	9	
Nov	107	46	48		18	9	10	
Dec	99	41	29		9	10	7	

**Facility: Refinery B**

Months/ Year	COD Result (ppm)			COD Target (ppm)	BOD Result (ppm)			BOD Target (ppm_)
	2021	2022	2023		2021	2022	2023	
Jan	31	27	50	200ppm<	3	3	10	50ppm<
Feb	27	39	27		3	5	4	
Mar	20	27	39		3	3	3	
Apr	31	43	23		4	8	3	
May	16	37	62		3	4	14	
Jun	51	23	33		6	3	5	
Jul	27	19	35		4	2	3	
Aug	19	58	19		2	10	2	
Sep	54	23	19		12	3	2	
Oct	23	37	16		3	6	2	
Nov	16	15	32		2	3	4	
Dec	23	49	27		3	7	4	

**Facility: Refinery C**

Months/ Year	COD Result (ppm)			COD Target (ppm)	BOD Result (ppm)			BOD Target (ppm_)
	2021	2022	2023		2021	2022	2023	
Jan	-	65	-	200ppm<	-	32	-	50ppm<
Feb	34	-	-		13	-	-	
Mar	-	20	-		-	7	-	
Apr	135	22	44		20	6	7	
May	-	-	-		-	-	-	
Jun	29	-	171		2	-	12	
Jul	-	-	-		-	-	-	
Aug	-	-	45		-	-	6	
Sep	-	-	-		-	-	-	
Oct	-	-	38		-	-	10	
Nov	56	-	-		14	-	-	
Dec	-	23	19		-	7	2	

*Remark: FGVR Tawau only do the analysis when plant is running*

**Facility: Refinery D**

Months/ Year	COD Result (ppm)			COD Target (ppm)	BOD Result (ppm)			BOD Target (ppm_)
	2021	2022	2023		2021	2022	2023	
Jan	62.3	47.5	74.0	400	20.3	14.8	19.3	50
Feb	59.3	48.0	95.3		18.8	14.5	14.8	
Mar	63.5	48.8	58.8		17.0	14.3	17.4	
Apr	49.0	44.3	51.5		14.8	13.5	15.0	
May	53.5	61.3	67.3		16.8	17.3	17.8	
Jun	34.5	56.3	68.8		11.0	17.5	18.3	
Jul	31.3	62.5	62.5		10.0	19.5	18.3	
Aug	31.0	61.8	46.5		10.5	18.0	14.0	
Sep	35.0	51.3	30.8		10.5	14.8	9.3	
Oct	47.5	77.8	46.0		13.5	20.3	13.8	
Nov	35.3	48.3	54.5		11.3	14.3	22.3	
Dec	45.5	72.0	39.8		16.0	22.0	12.0	

## 8 Stakeholder Engagement

At FGV, stakeholder engagement is crucial for advancing sustainable development both within our operations and the surrounding area. This is to ensure there are no conflict arise due to our operation especially towards the local community.

To ensure this, FGV actively conduct stakeholder consultation using various platforms to get the stakeholder feedback, such as conducting Social Impact Assessments (SIAs) in communities where we operate, interview or meeting with local stakeholders during the High Conservation Value (HCV) assessments process, as well as stakeholder consultation program on FGV's sustainability commitment (Program Konsultasi Bersama Pihak Berkepentingan Mengenai Komitmen Kelestarian FGV).

The SIA assessment aims to demonstrate the commitment to open and comprehensive project management by actively seeking feedback from all stakeholders. The goal is to implement the management plan effectively, minimizing negative impacts while enhancing positive outcomes. As SIA assessment is also a part of RSPO and MSPO requirements, we conduct this assessment for all our areas going for certifications. The HCV assessment seeks to identify and preserve areas that are crucial for local communities' livelihoods, culture, and overall well-being. These areas may include area used for subsistence, traditional practices, spiritual rituals, or other essential community needs. The assessment ensures that these areas are safeguarded from negative impacts and are managed in a way that supports community resilience and sustainable development. Feedback is typically sought through interviews or meetings with local community representatives such as Tok Batin or Orang Asli leaders, traditional village chiefs, and relevant local agencies like the Wildlife and Forestry Departments. As SIA and HCV assessment is also a part of RSPO and MSPO requirements, we conduct this assessment for all our certified area.

Since 2022, a total of 22 series of *Program Konsultasi Bersama Pihak Berkepentingan Mengenai Komitmen Kelestarian* FGV have been conducted that covers all FGV's operation. These sessions were attended by local agencies, smallholders, Felda settlers, representatives from schools, clinics, and local authorities. The objectives of the program are to communicate FGV's commitment towards sustainability, as well as to seek input directly from stakeholders regarding the impacts of FGV's operation. Any conflict (if any) will be discussed effectively through the program.

## 9 Independent Smallholders Inclusion Programs

Smallholder farmers play a critical role in the palm oil industry, especially for FGV. In 2023, FGV sources 221,842 MT (2%) FFB for all our POM in Malaysia from the independent smallholder category.

FGV maintains an ongoing collaborative effort with our smallholder partners to continuously improve their agricultural practices, aligning with our commitment to becoming a responsible and sustainable palm oil producer.

From 2022 to 2023, FGV has conducted 9 sessions of Independent Smallholder Consultation Program, a total of 82% of smallholders (out of all invited smallholders) have been involved in our smallholder training program with the objective to provide them with training on technical advice on agronomy, industry awareness updates on the palm oil industry's development, challenges, and regulatory

requirements. These sessions are also used as a platform for FGV to get feedback and input from the smallholders for our operation's improvement.

## 10 Supplier Engagement on FGV's Sustainability Compliance

At FGV, ensuring responsible sourcing of raw materials is a cornerstone of our commitment to sustainability. We actively engage with our suppliers to uphold these standards, fostering compliance with our sustainability commitments across our supply chain. Since 2023, we have conducted a comprehensive series of engagements through the FGV Trading roadshow, reaching out to 508 of our fresh fruit bunch (FFB) suppliers, which represents 58% of our Tier 1 FFB supply base.

During these engagements, we assess our suppliers on their adherence to FGV's sustainability compliance, ensuring they align with our environmental, social, and ethical guidelines. This proactive approach not only strengthens our supply chain resilience but also reinforces our dedication to promoting sustainable practices throughout our operations. By maintaining close partnerships and rigorous assessments, FGV continues to drive positive change towards a more sustainable future.

## 11 Supply Chain Risk Management and Due Diligence

FGV is committed to ensure our raw materials are not associated with risk that may jeopardize our commitment towards sustainability. We assess our suppliers' environmental risk annually to ensure our suppliers of fresh fruit bunches (FFB), crude palm oil (CPO) and palm kernel (PK) are not associated with the risk. To determine this, we obtain traceability information of our suppliers and assess their risk using Global Forest Watch (GFW) Pro for FFB dealers and palm oil mills. As for smallholders, we use the simplified risk assessment toolkits developed by RSPO (Simplified HCV Approach for Smallholder).

To assess our own or third-party mills, as well as collection centres that supplying (FFB) to our mill, we use Global Forest Watch (GFW) Pro to assessed each's mills risk. This platform is an open-source web application that monitors global deforestation rates in near real-time and can detect land-clearing activities that encroach into protected areas. The GFW Pro will assess the mill's risk by calculating the threats and value index of area that is within 50 km radius of each mill. Threats are referred as likelihood to have deforestation, peat, protected area and fire related impact in the past, whereas value is the likelihood for such risk to happen in the future. The assessed mills and collection centre will be classified into categories of low, medium, or high risk. To date, we have analysed all our 110 collection centres and none of them operating in collective high-risk area. However, some of them are operating near areas of deforestation and peat risk. We have communicated this specifically to the respective collection centres and advised them not to source any FFB from the high-risk area. At the same time, we also assessed 603 smallholders (out of 880 active smallholders in 2023) and based on the geo-location, none of them also operating in high HCV risk area. Additionally, for private estates supplying FFB to us, we crosscheck their operation site against the latest protected forest areas database developed by the Department of Survey and Mapping Malaysia (JUPEM, 2022 edition) to identify whether the estates encroached into the protected forest.

If we identify any suppliers with high risk, we will implement the Group Sustainability Policy (GSP) Compliance Framework to manage the supplier. Previously, we have identified two suppliers with high-risk associations and have removed them from our supply base following the procedures outlined in the Group Sustainability Policy (GSP) Compliance Framework.

In general, to assess the sustainability risk of our suppliers that also include risk associated with social exploitation element, we developed an External Supplier Sourcing Checklist (ESSC) for our supplier's self-declaration. This assessment will show the progress of suppliers' operational practices in producing or managing FFB without deforestation, without peat and without human exploitation (NDPE). The results of this assessment can help identify appropriate follow-up actions to address any risks related to compliance with FGV policies and ensure continuous improvement. We have made attempts get our suppliers feedback to the ESSC through physical engagement in all our 66 mills. However, we only managed to get feedback from 508 suppliers out of 990 active suppliers as of 2023.

For all our new suppliers, they must go through a due diligence process to ensure they have no significant risk. The due diligence process starts with acquiring details of the suppliers including MPOB license number, location of collection centres, farms or estates and its size, as well as estimation FFB supply to the mills per month. This information will be verified by our FFB sourcing team for verification. Upon meeting these requirements, the suppliers will be given an offer letter together with Supplier Code of Conduct (SCOC), that includes compliance to Group Sustainability Policy (GSP). The suppliers will only be accepted as FGV's suppliers once they have signed the offer letter and agreed to meet the SCOC. All accepted suppliers will be registered in a system called, FFB Supplier Information System (FSIS) which will record the information from the supplier such as supplier identification, location of the supplier, area planted, GPS coordinate, oil palm licenses etc.

In 2023, the number of active suppliers supplying FFB to FGV's mills are:

Supplier	FFB Supply in 2023 (MT)	Numbers of suppliers/plantation	Traceability	Deforestation Free
FGVPM (Internal)	3,745,809	165	100 %	100 %
FELDA	5,308,805	256	100 %	100 %
Dealers/Cooperatives	3,064,583	110	100 %	100 %
Private Estates	253,134	111	100 %	100 %
Independent Smallholders	221,842	880	100 %	100 %
<b>TOTAL</b>	<b>12,594,173</b>	<b>1,522</b>	<b>100%</b>	<b>100%</b>

We also monitor deforestation activities that were alerted by our stakeholders. In 2021-2023, FGV received deforestation alerts as below: -

Alert Year	Total area (ha)	Location	Alert Status/Findings
2021	8,498	Mukim Keratong	<ul style="list-style-type: none"> <li>Happened outside FGV &amp; FELDA concession.</li> <li>None of our suppliers are involved in the deforestation activity.</li> </ul>
2022	351	Jengka 3	<ul style="list-style-type: none"> <li>Happened outside FGV &amp; FELDA concession. No FFB source from the area for FGV mills.</li> <li>None of our suppliers are involved in the deforestation activity.</li> </ul>

Alert Year	Total area (ha)	Location	Alert Status/Findings
	25	Mukim Jemaluang, Johor PTD 1815 concession(2.29532, 103.90490)	<ul style="list-style-type: none"> <li>The deforested area is owned by one of our indirect FFB suppliers that is supplied through one of our FFB dealers, AA Sawit.</li> <li>FGV had stopped receiving FFB from AA Sawit and engaged with them for a remedial and corrective action plan. However, FGV did not receive any response from AA Sawit and decided to cease business with AA Sawit. The last transaction with AA Sawit was in April 2022.</li> </ul>
2023	352	Felda Belara	<ul style="list-style-type: none"> <li>Happened outside FGV &amp; FELDA concession.</li> <li>None of our suppliers are involved in the deforestation activity.</li> </ul>
	496	Lepar Hilir 05	<ul style="list-style-type: none"> <li>Happened outside FGV &amp; FELDA concession.</li> <li>None of our suppliers are involved in the deforestation activity.</li> </ul>
	712	Felda Tersang 03	<ul style="list-style-type: none"> <li>Happened outside FGV &amp; FELDA concession.</li> <li>None of our suppliers are involved in the deforestation activity.</li> </ul>
	110	Jengka 2	<ul style="list-style-type: none"> <li>Happened outside FGV &amp; FELDA concession.</li> <li>None of our suppliers are involved in the deforestation activity.</li> </ul>

## 12 FGV Traceability Dashboard for Palm Oil (2023)

### 12.1 Traceability in Oil Palm

In Malaysia, FGV has a total of six (6) vegetable oil refineries. Four (4) of them are fully managed by FGV subsidiaries; FGV Refineries Sdn Bhd (3), and Delima Oil Products Sdn Bhd (1). The other two (2) refineries are managed by our joint venture FGV IFFCO Sdn Bhd.

FGV also has joint ventures with vegetable refineries overseas, one respectively in Turkey and Pakistan. However, FGV has no direct management control over those facilities.

To ensure our palm products are sourced from responsible sources, we started to trace our raw materials in 2017. Our traceability covers Traceability to Mills (TTM) and Traceability to Plantations (TTP).

#### 12.1.1 Traceability to Mills (TTM)

We consider mills traceable when details such as their name, parent company's name, address /GPS coordinate, and volume supplied are known. Our TTM has been at 100% since 2019 for all our midstream and downstream facilities which include FGV Refineries Sdn Bhd, FGV Kernel Products Sdn. Bhd., FGV Biotechnologies Sdn Bhd, Delima Oil Products Sdn Bhd as well as our JVs in Malaysia, FGV IFFCO Sdn Bhd.

Most of the CPO processed by our own vegetable refineries (FGV Refineries Sdn Bhd and Delima Oil Products Sdn Bhd) is from our own internal sources. In 2023, we only sourced from four (4) third-party mills that contribute less than 3.28% (30,102 MT) of our total CPO processed by these refineries. These facilities also processed 46% of RSPO-certified CPO.

As for our JV's in Malaysia, FGV IFFCO Sdn Bhd, the traceability information can be view at here <https://iffco.com/sustainability/dashboard/traceability-score?cst=327312894362180084>

### 12.1.2 Traceability to Plantations (TTP)

Due to the complexity of the FFB supply chain that involves multiple categories of players/levels, our requirement for TTP varies between supplier categories. The suppliers are considered traceable to the plantation when details as follows are available:

Element/Information	Third-party Estate	Smallholders*	Dealer/Cooperative/Collection Centres**
Supplier name ***	√	√	√
Parent's company name ****	√	NA	√
GPS location of supplier	√	√ (location of village/sub district is sufficient)	√
Size of land	√	√	X
Volume supplying to mill	√	√	√

NA: Not Applicable

\*This requirement is for independent smallholders supplying to FGV mills. Information for scheme/plasma smallholders are available at <https://felda.gov.my/peneroka/lokasi-rancangan>

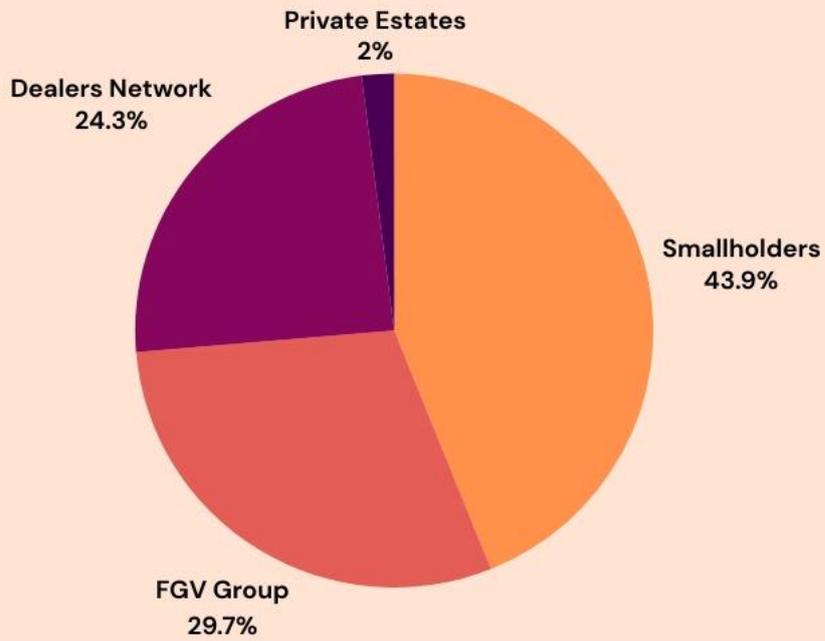
\*\*For Dealer/Cooperative/Collection Centres receiving FFB from estates, full information of the estates as mentioned in the table above (Third-party estate) is required. If the sources are from smallholders, name of the smallholders and quantity supplied are sufficient.

\*\*\*Supplier defines as an entity with legal authority to supply palm oil materials to any FGV facility.

\*\*\*\*Parent company – A holding company (large cooperation) or individual producer (grower) that has legal authority to sell palm oil material.

Of all the 66 palm oil mills operated by FGV, only four (4) mills sourced 100% of FFB from our own plantation. The remaining 62 palm oil mills received a mixture of FFB from internal and external sources. As of the end of 2023, we managed to achieve 100% TTP.

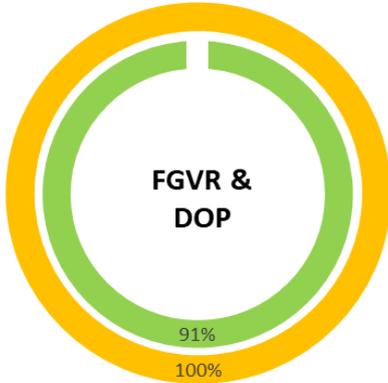
## SOURCE OF FFB SUPPLY IN 2023



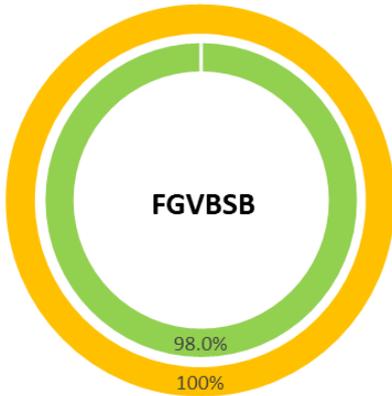
Supplier	Numbers of suppliers/plantation	Traceability
FGV Group	165	100 %
Dealers Network	110	100 %
Private Estates	111	100 %
Smallholders:		
FELDA	256	100 %
Independent Smallholders (ISH)	880	100 %
<b>TOTAL</b>	<b>1,522</b>	<b>100%</b>

### Crude Palm Oil (CPO)

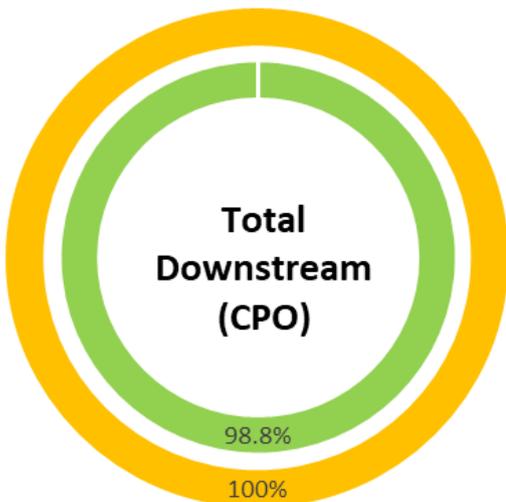
Traceability to Plantation (TTP)
   
 Traceability to Mill (TTM)



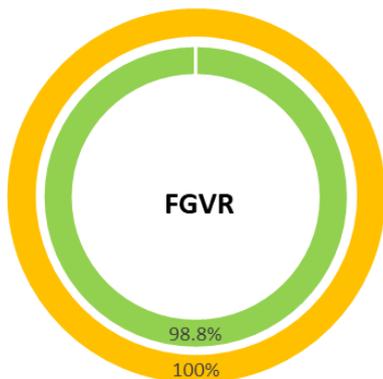
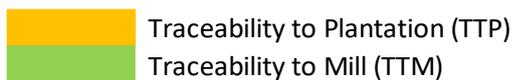
Facility	Traceability to Mill	Traceability to Plantation	Percentage of Internal CPO
Kuantan Oil Products	100 %	91 %	91 %
Sahabat Oil Products	100 %	96 %	96 %
Tawau Oil Products	100 %	72 %	72 %
Delima Oil Products	100 %	100 %	100 %



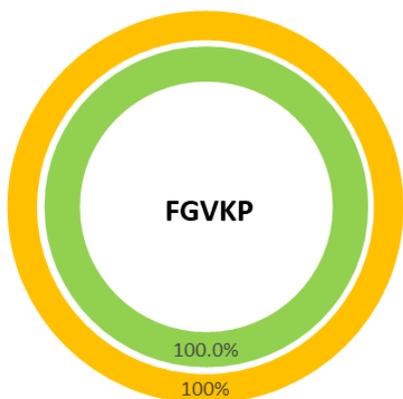
Facility	Traceability to Mill	Traceability to Plantation	Percentage of Internal CPO
FGV Biotech	100 %	98 %	100 %



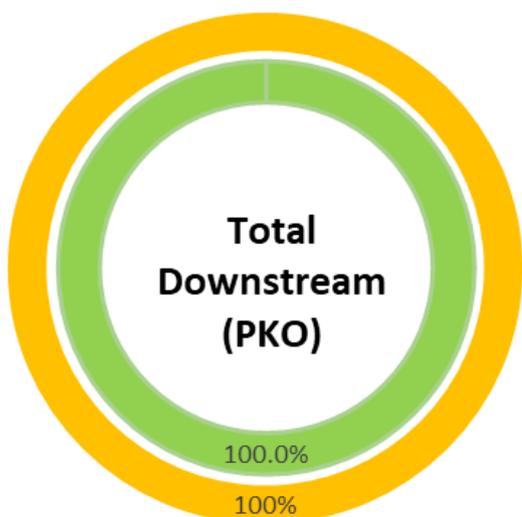
### Palm Kernel Oil (PKO)



Facility	Traceability to Mill	Traceability to Plantation	Percentage of Internal CPO
Kuantan Oil Products	100 %	91 %	91 %



Facility	Traceability to Mill	Traceability to Plantation	Percentage of Internal CPO
Semambu	100 %	100 %	100 %
<u>Pasir Gudang</u>	100 %	100 %	100 %
Pandamaran	100 %	100 %	100 %
Sahabat	100 %	100 %	100 %



**FGV SUPPLY BASE INFORMATION 2023**

NAME OF COMPANY	NAME OF MILL	UML ID <sup>1</sup>	ADDRESS	STATE	COORDINATE	RSPO CERTIFIED <sup>2</sup>	MSPO CERTIFIED <sup>3</sup>	TRACEABILITY PERCENTAGE	NAME OF MILL	SOURCE OF FFB				
										FGV GROUP	SMALLHOLDERS	PRIVATE ESTATES	DEALER'S NETWORK	OTHERS
FGV Holdings Berhad	Adela	PO1000000236	Kilang Sawit Adela, Peti Surat 73, 81907 Kota Tinggi Johor.	Johor	1°33'06.9"N 104°11'10.9"E	✓	✓	100%	Adela	77%	1%	3%	20%	-
FGV Holdings Berhad	Air Tawar	PO1000003414	Kilang Sawit Air Tawar, Peti Surat 17, Pejabat Pos Felda Air Tawar 2 81920, Kota Tinggi Johor	Johor	1°40'01.19"N 104°01'46.67"E		✓	100%	Air Tawar	58%	0%	4%	38%	-
FGV Holdings Berhad	Aring A	PO1000003045	Kilang Sawit Aring A, Peti Surat 30, 18300 Gua Musang, Kelantan	Kelantan	4°56'26.4" N 102°21'52.4" E		✓	100%	Aring A	75%	1%	16%	8%	-
FGV Holdings Berhad	Baiduri Ayu	PO1000000968	Kilang Sawit Baiduri Ayu, Peti Surat 29, 91150, Cenderawasih, Sabah	Sabah	5°04'55.73" N 118°56'28.24" E		✓	100%	Baiduri Ayu	74%	2%	12%	12%	-
FGV Holdings Berhad	Belltong	PO1000001311	Kilang Sawit Belltong, Peti Surat 61, 86007, Kluang, Johor	Johor	1°56'19.16" N 103°29'55.03" E	✓	✓	100%	Belltong	58%	0%	0%	42%	-
FGV Holdings Berhad	Besout	PO1000001892	Kilang Sawit Besout, Pejabat Pos Sungkai, 35600 Sungkai, Perak	Perak	3°52'48.18" N 101°16'34.10" E	✓	✓	100%	Besout	61%	0%	11%	28%	-
FGV Holdings Berhad	Bukit Kepayang	PO1000000898	Kilang Sawit Bukit Kepayang, Pejabat Pos Triang, 28300, Triang, Pahang	Pahang	3°20'46.8" N 102°35'48.7" E	✓	✓	100%	Bukit Kepayang	36%	1%	0%	63%	-
FGV Holdings Berhad	Bukit Mendi	PO1000000576	Kilang Sawit Bukit Mendi, Pejabat Pos Triang, 28320, Triang, Pahang	Pahang	3°11'49.45" N 102°18'03.43" E		✓	100%	Bukit Mendi	35%	1%	0%	64%	-
FGV Holdings Berhad	Bukit Sagu	PO1000001233	Kilang Sawit Bukit Sagu, Peti Surat 69, 25700 Kuantan Pahang	Pahang	3°58'11" N 103°8'51" E	✓	✓	100%	Bukit Sagu	72%	0%	2%	26%	-
FGV Holdings Berhad	Chalok	PO1000010021	Kilang Sawit Chalok, 21450 Setiu, Terengganu	Terengganu	5°27'14.99" N 102°47'01.85" E		✓	100%	Chalok	29%	0%	1%	70%	-
FGV Holdings Berhad	Chiku	PO1000007000	Kilang Sawit Ciku, Peti Surat 29, 18300 Gua Musang, Kelantan	Kelantan	4°56'34.2" N 102°12'13.4" E	✓	✓	100%	Chiku	82%	4%	6%	7%	-
FGV Holdings Berhad	Chini 2	PO1000007489	Kilang Sawit Chini 2, D/A Bandar Chini 1, 26600, Pekan, Pahang	Pahang	3°23'43" N 102°58'6" E		✓	100%	Chini 2	91%	1%	0%	8%	-
FGV Holdings Berhad	Chini 3	PO1000003760	Kilang Sawit Chini 3, D/A Bandar Chini 1, 26600 Pekan Pahang	Pahang	3°21'58" N 102°55'54" E	✓	✓	100%	Chini 3	48%	1%	0%	51%	-
FGV Holdings Berhad	Embara Budi	PO1000001654	Kilang Sawit Embara Budi, Peti surat 28, 91150, Cenderawasih, Sabah	Sabah	5°7'56.15" N 119°5'28.02" E		✓	100%	Embara Budi	100%	0%	0%	0%	-
FGV Holdings Berhad	Hamparan Badai	PO1000001698	Kilang Sawit Hamparan Badai, Peti Surat 25, 91150, Cenderawasih, Sabah	Sabah	5°20'09.07" N 119°12'11.04" E		✓	100%	Hamparan Badai	96%	3%	1%	1%	-
FGV Holdings Berhad	Jengka 3	PO1000000514	Kilang Sawit Jengka 3, Wakil Pos Kuala Sentol, 26400 Bandar Pusat Jengka, Pahang	Pahang	3°41'36" N 102°35'41" E		✓	100%	Jengka 3	21%	0%	0%	79%	-
FGV Holdings Berhad	Jengka 8	PO1000008251	Kilang Sawit Jengka 8, 26400 Bandar Jengka, Pahang	Pahang	3°49'24" N 102°30'20" E		✓	100%	Jengka 8	64%	1%	0%	35%	-
FGV Holdings Berhad	Jengka 21	PO1000000607	Kilang Sawit Jengka 21, Peti Surat 70, 26400 Bandar Jengka, Pahang	Pahang	3°44'34.9" N 102°29'23.9" E	✓	✓	100%	Jengka 21	71%	0%	0%	28%	-
FGV Holdings Berhad	Jerangau Barat	PO1000001901	Kilang Sawit Jerangau Barat, Wakil pos Felda Jerangau, 21820, Ajil Terengganu	Pahang	4°55'01.45" N 103°08'07.20" E		✓	100%	Jerangau Barat	25%	1%	0%	74%	-
FGV Holdings Berhad	Kahang	PO1000001314	Kilang Sawit Kahang, Jln Kilang Sawit, 86000 Kluang, Johor	Johor	2°04'29.91" N 103°29'41.62" E		✓	100%	Kahang	58%	0%	2%	41%	-
FGV Holdings Berhad	Kalabakan	PO1000001703	Kilang Sawit Kalabakan, Peti Surat 62007, 91030, Tawau, Sabah	Sabah	4°24'36.54" N 117°29'21.05" E		✓	100%	Kalabakan	37%	1%	0%	62%	-
FGV Holdings Berhad	Kechau B	PO1000006989	Kilang Sawit Kechau B Peti Surat 57, 27207 Kuala Lipis, Pahang	Pahang	4°14'32.78" N 102°6'16.39" E	✓	✓	100%	Kechau B	98%	1%	0%	1%	-
FGV Holdings Berhad	Kemahang	PO1000002998	Kilang Sawit Kemahang, Peti Surat 35, 17505 Tanah Merah, Kelantan	Pahang	5°51'52.2" N 102°00'19.2" E		✓	100%	Kemahang	77%	2%	0%	21%	-
FGV Holdings Berhad	Kemasul	PO1000000820	Kilang Sawit Kemasul, Pejabat Pos Triang, 28310, Triang, Pahang	Pahang	3°16'23.28" N 102°13'57.07" E	✓	✓	100%	Kemasul	68%	1%	0%	31%	-
FGV Holdings Berhad	Kembara Sakti	PO1000001701	Kilang Sawit Kembara Sakti, Peti surat 24, 91150 Cenderawasih, Sabah	Sabah	5°21'40.60" N 119°05'35.54" E		✓	100%	Kembara Sakti	100%	0%	0%	0%	-
FGV Holdings Berhad	Keratong 2	PO1000001894	Kilang Sawit Keratong 2, Peti Surat 28, 26900 Bandar Tun Razak, Pahang	Pahang	2°55'10" N 102°52'18" E	✓	✓	100%	Keratong 2	91%	1%	0%	8%	-
FGV Holdings Berhad	Keratong 3	PO1000001895	Kilang Sawit Keratong 3, Peti Surat 21, 26900 Bandar Tun Razak, Pahang	Pahang	2°55'44.5" N 102°56'4.8" E	✓	✓	100%	Keratong 3	100%	0%	0%	0%	-
FGV Holdings Berhad	Keratong 9	PO1000006502	Kilang Sawit Keratong 9, Peti Surat 32, 26900 Bandar Tun Razak, Pahang	Pahang	2°58'10.5" N 102°57'32" E	✓	✓	100%	Keratong 9	99%	0%	0%	1%	-
FGV Holdings Berhad	Kerteh	PO1000001907	Kilang Sawit Kerteh, Beg Berkunci No 3, 23309, Ketengah Jaya Terengganu	Terengganu	4°37'32.50" N 103°19'53.91" E	✓	✓	100%	Kerteh	32%	1%	1%	66%	-
FGV Holdings Berhad	Kota Gelanggi	PO1000000254	Kilang Sawit Kota Gelanggi, Wakil Pos Kota Gelanggi, 27000 Jerantut, Pahang	Pahang	3°55'17" N 102°29'23" E	✓	✓	100%	Kota Gelanggi	96%	1%	1%	2%	-
FGV Holdings Berhad	Krau	PO1000001897	Kilang Sawit Krau, Peti Surat 17, 28700 Bentong, Pahang	Pahang	3°38'50.66" N 101°58'37.49" E		✓	100%	Krau	74%	0%	0%	26%	-
FGV Holdings Berhad	Kulai	PO1000001309	Kilang Sawit Kulai, Wakil Pos Felda Taib Andak, 81000, Kulai, Johor	Johor	1°44'18.91" N 103°38'53.36" E	✓	✓	100%	Kulai	73%	1%	0%	26%	-
FGV Holdings Berhad	Lancang Kemudi	PO1000001697	Kilang Sawit Lancang Kemudi, Peti Surat 30, 91150 Cenderawasih, Sabah	Sabah	5°13'46.39" N 119°3'25.17" E		✓	100%	Lancang Kemudi	62%	0%	17%	20%	-
FGV Holdings Berhad	Lepar Hilir	PO1000001320	Kilang Sawit Lepar Hilir, Karung Berkunci No. 3 Pejabat Pos Gambang, 26300 Kuantan, Pahang	Pahang	3°38'36.4" N 103°00'41.2" E	✓	✓	100%	Lepar Hilir	99%	0%	0%	0%	-
FGV Holdings Berhad	Lepar Utara 6	PO1000000255	Kilang Sawit Lepar Utara 6, Peti Surat 12, Pejabat Pos Bandar Pusat Jengka, 26400 Bandar Jengka Pahang	Pahang	3°58'25" N 102°41'29" E	✓	✓	100%	Lepar Utara 6	93%	0%	1%	6%	-
FGV Holdings Berhad	Lok Heng	PO1000000235	Kilang Sawit Lok Heng, Peti Surat 55, 81907 Kota Tinggi, Johor	Johor	1°43'14.06" N 104°07'08.51" E		✓	100%	Lok Heng	96%	0%	0%	4%	-

FGV Holdings Berhad	Maokil	PO1000003359	Kilang Sawit Maokil, Peti surat 14, 85300 Labis, Johor	Johor	2° 17' 28.64" N 102° 59' 39.42" E	/	/	100%	Maokil	98%	0%	0%	2%	-
FGV Holdings Berhad	Mempaga	PO1000001898	Kilang Sawit Mempaga, 28600, Karak, Pahang	Pahang	3° 31' 34.57" N 101° 58' 45.20" E	/	/	100%	Mempaga	53%	2%	3%	42%	-
FGV Holdings Berhad	Mercu Puspita	PO1000001699	Kilang Sawit Mercu Puspita, Peti Surat 26, 91150, Cenderawasih, Sabah	Sabah	5° 12' 23.35" N 119° 00' 47.20" E	/	/	100%	Mercu Puspita	100%	0%	0%	0%	-
FGV Holdings Berhad	Neram	PO1000001896	Kilang Sawit Neram, Pejabat Pos Mini Felda Neram 1, 26160 Kuantan Pahang	Pahang	4° 0' 24" N 103° 17' 19" E	/	/	100%	Neram	14%	0%	8%	78%	-
FGV Holdings Berhad	Nilam Permata	PO1000001700	Kilang Sawit Nilam Permata, Peti Surat 23, 91150, Cenderawasih, Sabah	Sabah	5° 17' 34.24" N 119° 00' 30.09" E	/	/	100%	Nilam Permata	100%	-	-	-	-
FGV Holdings Berhad	Nitar	PO1000001313	Kilang Sawit Nitar, Peti surat 7, 86007 Kluang, Johor	Johor	2° 24' 27.47" N 103° 39' 37.37" E	/	/	100%	Nitar	65%	0%	5%	30%	-
FGV Holdings Berhad	Padang Piol	PO1000000674	Kilang Sawit Padang Piol, Wakil Pos Felda Padang Piol, 27040 Jerantut, Pahang	Pahang	4° 1' 24" N 102° 23' 18" E	/	/	100%	Padang Piol	11%	1%	0%	88%	-
FGV Holdings Berhad	Palong Timor	PO1000006992	Kilang Sawit Palong Timur, Peti Surat 2, 73400, Gemas, Negeri Sembilan	Negeri Sembilan	2° 44' 26.87" N 102° 42' 15.33" E	/	/	100%	Palong Timor	100%	0%	0%	0%	-
FGV Holdings Berhad	Panching	PO1000001891	Kilang Sawit Panching, Peti Surat 257, 25730 Kuantan, Pahang	Pahang	3° 49' 26.10" N 103° 09' 55.29" E	/	/	100%	Panching	4%	0%	5%	89%	-
FGV Holdings Berhad	Pasoh	PO1000008205	Kilang Sawit Pasoh, 72300 Simpang Pertang, Negeri Sembilan	Negeri Sembilan	3° 00' 48.9" N 102° 17' 07.9" E	/	/	100%	Pasoh	51%	4%	0%	45%	-
FGV Holdings Berhad	Penggeli	PO1000001310	Kilang Sawit Penggeli, Peti Surat 28, Bandar Tenggara, 81000, Kulai, Johor	Johor	1° 49' 38.12" N 103° 38' 25.31" E	/	/	100%	Penggeli	84%	0%	0%	16%	-
FGV Holdings Berhad	Sampadi	PO1000003766	Kilang Sawit Sampadi, 94500 Lundu, Sarawak	Sarawak	1° 37' 12.11" N 109° 56' 50.54" E	/	/	100%	Sampadi	13%	53%	20%	14%	-
FGV Holdings Berhad	Selancar 2A	PO1000001903	Kilang Sawit Selancar 2A, Peti Surat 98, 85007 Segamat, Johor	Pahang	2° 39' 12.79" N 113° 01' 07.54" E	/	/	100%	Selancar 2A	100%	0%	0%	0%	-
FGV Holdings Berhad	Selancar 2B	PO1000001904	Kilang Sawit Selancar 2B, Peti Surat 98, 85007, Segamat, Johor	Pahang	2° 38' 15.95" N 103° 0' 03.40" E	/	/	100%	Selancar 2B	96%	0%	0%	4%	-
FGV Holdings Berhad	Selendang	PO1000001905	Kilang Sawit Selendang, Pejabat Pos Kuala Rompin, 26800 Kuala Rompin, Pahang	Pahang	2° 42' 18.3" N 103° 26' 28.3" E	/	/	100%	Selendang	73%	1%	1%	25%	-
FGV Holdings Berhad	Semenchu	PO1000000227	Kilang Sawit Semenchu, Peti surat 63, 81907 Kota Tinggi, Johor	Johor	1° 34' 42.91" N 104° 06' 09.53" E	/	/	100%	Semenchu	93%	0%	0%	6%	-
FGV Holdings Berhad	Seroja	PO1000000603	Kilang Sawit Seroja, Wakil pos Felda seroja, 28030 Temerloh, Pahang	Pahang	3° 35' 23" N 102° 33' 33" E	/	/	100%	Seroja	80%	1%	0%	19%	-
FGV Holdings Berhad	Serting	PO1000001899	Kilang Sawit Serting, 72100 Bandar Seri Jempol, Negeri Sembilan	Negeri Sembilan	2° 59' 35.1" N 102° 28' 52.5" E	/	/	100%	Serting	100%	0%	0%	0%	-
FGV Holdings Berhad	Serting Hilir	PO1000006998	Kilang Sawit Serting Hilir, Peti Surat No.3, 72120, Bandar Serting, Negeri Sembilan	Negeri Sembilan	2° 59' 35.1" N 102° 28' 52.5" E	/	/	100%	Serting Hilir	95%	0%	0%	5%	-
FGV Holdings Berhad	Sg Tengli	PO1000001890	Kilang Sawit Sungai Tengli, 44100 Kuala Kubu Bharu, Selangor	Selangor	3° 35' 08.05" N 101° 24' 57.87" E	/	/	100%	Sg Tengli	52%	1%	6%	41%	-
FGV Holdings Berhad	Tementi	PO1000000901	Kilang Sawit Tementi, Pejabat Pos Triang, 28300, Triang, Pahang	Pahang	3° 15' 49.1" N 102° 35' 5" E	/	/	100%	Tementi	31%	0%	0%	69%	-
FGV Holdings Berhad	Tenggaroh 4	PO1000003767	Kilang Sawit Tenggaroh, Peti surat 67, 81907 Kota Tinggi, Johor	Johor	2° 3' 20.69" N 103° 55' 53.62" E	/	/	100%	Tenggaroh 4	100%	0%	0%	0%	-
FGV Holdings Berhad	Tenggaroh Timur	PO1000003769	Kilang Sawit Tenggaroh Timur, Karung Kunci No. 524, 81907, Kota Tinggi, Johor	Johor	2° 04' 57.26" N 104° 00' 25.05" E	/	/	100%	Tenggaroh Timur	76%	0%	0%	24%	-
FGV Holdings Berhad	Tersang	PO1000003262	Kilang Sawit Tersang, Pejabat Pos Raub, 27600 Raub, Pahang	Pahang	4° 06' 19.14" N 101° 47' 59.86" E	/	/	100%	Tersang	55%	1%	0%	44%	-
FGV Holdings Berhad	Triang	PO1000000762	Kilang Sawit Triang, Pejabat Pos Triang, 28300, Triang, Pahang	Pahang	3° 16' 11" N 102° 34' 40" E	/	/	100%	Triang	81%	0%	0%	19%	-
FGV Holdings Berhad	Trolak	PO1000001893	Kilang Sawit Trolak, Pejabat Pos Sungkai, 35600 Sungkai, Perak	Perak	3° 56' 20.99" N 101° 21' 06.92" E	/	/	100%	Trolak	63%	7%	1%	30%	-
FGV Holdings Berhad	Umas	PO1000001702	Kilang Sawit Umas, WDT 43, 91009 Tawau, Sabah	Sabah	4° 29' 52.57" N 117° 39' 03.31" E	/	/	100%	Umas	50%	1%	1%	48%	-
FGV Holdings Berhad	Waha	PO1000000234	Kilang Sawit Wa Ha, Karung Berkunci 55, 81907 Kota Tinggi, Johor	Johor	1° 47' 31.24" N 104° 04' 28.50" E	/	/	100%	Waha	87%	2%	2%	10%	-

Note:

- <sup>1</sup> Universal Mill List
- <sup>2</sup> Roundtable on Sustainable Palm Oil
- <sup>3</sup> Malaysian Sustainable Palm Oil