RAPIDE GROUP
OTC: RAPI · WEST PALM BEACH, FLORIDA

MARKET RESEARCH
FRESH PRODUCE & AGRITECH · ISSUE 3

VEGETABLES · HERBS · INDOOR FARMING

Malaysia Fresh Produce & Controlled-Environment Farming Monitor

Malaysia grows more tomatoes and french beans than it consumes. This report tracks where local growers lead and where supply can grow.

THE MARKET AT A GLANCE

109.4% **TOMATO SELF-SUFFICIENCY, 2025** French beans 114.3% (DOSM)	**23** **COMMODITIES ABOVE 100% SSR, 2025** Production exceeds consumption (DOSM)	**83.1%** **TROPICAL VEGETABLE SSR, 2023** Ministry of Agriculture
1.76 to 1 **VEGETABLE IMPORT RATIO, 2024** From 1.8 in 2023; ministry expects 1.64	**US$90.42bn** **GLOBAL CEA MARKET, 2026** US$143.00bn by 2031, 9.6% a year	**50,000 sq ft** **JOHOR VERTICAL FARM** Largest in Malaysia; opened July 2025

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Published by Rapide Group (OTC: RAPI), which has business interests in this sector.

01 · SUMMARY

Key takeaways

Local growers lead in several crops, policy support is building, and indoor farming is scaling.

01

Local growers lead in several crops

In 2025 french beans reached 114.3% self-sufficiency and tomatoes 109.4%, and 23 commodities exceeded 100%. (DOSM via Business Today, 29 Sep 2026.)

02

Tropical vegetables are 83.1% self-sufficient

The ministry put the tropical vegetable self-sufficiency ratio at 83.1% in 2023. (The Star, 30 Mar 2026; CodeBlue.)

03

The import ratio is improving

The vegetable import ratio was 1.76 to 1 in 2024, from 1.8 to 1 in 2023, and the ministry expects 1.64 to 1. (The Star, 12 Nov 2025.)

04

Room to grow local supply

DOSM's 2025 import dependency ratios were 82.7% for ginger, 67.9% for chilli and 59.0% for round cabbage, which leaves room for local supply to grow. (DOSM via Business Today.)

05

Government backing for smart farming

RM349.15 million of agro-food projects is approved, 347 of 782 applications. (Malay Mail, 2 Oct 2026.)

06

Indoor farming is scaling

The global CEA market is projected at US$90.42bn in 2026, rising to US$143.00bn by 2031 (MarketsandMarkets). Johor opened Malaysia's largest indoor vertical farm, 50,000 sq ft, in July 2025. (Bernama.)

OUR VIEW

Indoor farming is most likely to pay where fresh produce is perishable and priced high, such as leafy greens and herbs. Johor's farm is a first test, and we will track its yield, energy and price data in the next issue.

WHAT TO WATCH

The next DOSM supply and utilisation release, progress on smart-farming projects under the 13th Malaysia Plan, further indoor farms in Johor, and FAMA wholesale prices.

02 · DATA

Market dashboard

The indicators we track: the latest reading, how it has moved and where the figure comes from.

TOMATO SSR, 2025
109.4%
French beans 114.3%

TROPICAL VEG SSR, 2023
83.1%
Ministry

IMPORT RATIO, 2024
1.76 to 1
Ministry expects 1.64 to 1

GLOBAL CEA, 2026
US$90.42bn
US$143.00bn by 2031

INDICATOR	LATEST	CHANGE AND CONTEXT	SOURCE, DATE
SELF-SUFFICIENCY AND IMPORT DEPENDENCY			
Tropical vegetable SSR	83.1%	2023	The Star, 30 Mar 2026; CodeBlue
French beans SSR	114.3%	2025; highest of the vegetables listed	DOSM via FreshPlaza
Tomatoes SSR	109.4%	2025	DOSM via Business Today, 29 Sep 2026
Commodities above 100% SSR	23	2025	DOSM via Business Today, 29 Sep 2026
Ginger IDR	82.7%	2025; room for local supply	DOSM via Business Today, 29 Sep 2026
Chilli IDR	67.9%	2025	DOSM via Business Today, 29 Sep 2026
Round cabbage IDR	59.0%	2025	DOSM via Business Today, 29 Sep 2026
Vegetable import ratio	1.76 to 1	2024; 1.8 to 1 in 2023; ministry expects 1.64	The Star, 12 Nov 2025
INDOOR FARMING AND POLICY			
Global CEA market	US$90.42bn	2026; US$143.00bn by 2031; hydroponics 11.5% a year	MarketsandMarkets, 2026
Johor vertical farm	50,000 sq ft	Largest in Malaysia; opened Jul 2025	Bernama, 7 Jul 2025
Johor farm estimated yield	306,000 kg/yr	About 66 kg per sq m a year (our arithmetic)	Bernama; The Sun
Agro-food programme, 13MP	RM349.15m	347 projects approved of 782 applications	Malay Mail, 2 Oct 2026

Data are as of the dates shown. SSR is self-sufficiency ratio and IDR is import dependency ratio; they are different measures.

03 · SUPPLY

Local growers lead in several crops

Malaysia covers its own tomatoes and french beans, and has clear room to grow local supply of ginger, chilli and cabbage.

Figure 1. DOSM self-sufficiency (SSR) and import dependency (IDR) ratios, selected vegetables, 2025 (%)



Source: DOSM, Supply and Utilization Accounts 2025, via Business Today (29 Sep 2026) and FreshPlaza. SSR and IDR are different measures, so compare bars of the same colour only.

Where the ministry is heading

The ministry's vegetable import ratio improved from 1.8 to 1 in 2023 to 1.76 to 1 in 2024, and it expects 1.64 to 1. DOSM reported that 23 commodities had self-sufficiency ratios above 100% in 2025.

The government has approved RM349.15 million of agro-food projects, 347 of 782 applications (Malay Mail, 2 Oct 2026), under a 13th Malaysia Plan that prioritises smart farming.

VEGETABLE IMPORT RATIO, MINISTRY

1.76 → 1.64

From 1.76 to 1 in 2024 to an expected 1.64 to 1 (The Star, 12 Nov 2025).

04 · INDOOR FARMING

What controlled-environment farming can offer

The global market is growing fast, and Malaysia now has its largest indoor vertical farm.

Steady output all year

Climate-controlled growing gives steady output through the year, independent of rain and temperature. That is one reason indoor farming draws interest for leafy greens and herbs.

Johor's vertical farm

FarmByte, part of Johor Corporation, opened Malaysia's largest indoor vertical farm in July 2025 with a Singapore agritech partner. The farm, built for about RM40 million, spans more than 50,000 square feet, grows leafy vegetables without pesticides, and had an estimated yield of about 306,000 kg a year (Bernama; The Sun). That is roughly 66 kg per square metre of floor area a year (our arithmetic, using 50,000 square feet).

What we will track

MEASURE	STATUS
Yield per square metre	Johor estimate about 66 kg per sq m a year
Energy per kilogram	Planned for the next issue
Price against imports	FAMA series planned
Offtake agreements	Retail and food service

US$90.42bn to US$143.00bn

WHY THIS MATTERS

MarketsandMarkets projects the global controlled-environment agriculture market to grow from US$90.42 billion in 2026 to US$143.00 billion in 2031, 9.6% a year, with hydroponics fastest at 11.5%.

05 · OUTLOOK

Outlook and watch-list

Policy support and growing evidence for indoor farming.

NEXT THREE MONTHS

Local supply and policy support

The ministry expects the vegetable import ratio to improve to 1.64 to 1, and the 13th Malaysia Plan backs smart farming and food hubs.

INTO 2027

Evidence for indoor farming

RM349 million of agro-food projects is approved. Published yield, energy and price data from sites such as Johor's will show how far indoor farming can scale.

Key dates

Periodic	**Ongoing**	**Ongoing**	**Next issue**	**Next issue**
DOSM supply and utilisation release	Johor indoor farm output	13th Malaysia Plan approvals	FAMA wholesale prices	Energy and cold-chain data

What we are watching

INDICATOR	WHY IT MATTERS	FREQUENCY
SSR and IDR by crop	Shows where local supply is growing	Annual, DOSM
Vegetable import ratio	Progress toward 1.64 to 1	Annual, ministry
Indoor farm announcements	Whether Johor's model spreads	As announced
Smart-farming approvals	Public funding for new projects	As announced
Global CEA estimates	Scale of the technology market	Periodic
FAMA wholesale prices	Price against imports	Planned, next issue

COMING FEATURES FAMA wholesale prices · Energy and cold-chain costs · Indoor-farm yield and cost data

06 · REFERENCES

Sources

Sources

DOSM, Supply and Utilization Accounts, Selected Agricultural Commodities, Malaysia 2021–2025, via Business Today (29 Sep 2026) and FreshPlaza.

The Star, 30 Mar 2026 and 12 Nov 2025; CodeBlue, Aug 2025 (tropical vegetable SSR).

Malay Mail, 2 Oct 2026 (agro-food programme).

Bernama, The Sun and RTM, 7 Jul 2025 (Johor vertical farm opening, cost and expected output).

MarketsandMarkets, Controlled Environment Agriculture market report, 2026.

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