



Current Situation and Prospect of China Oilseed, Oils & Fats Industry



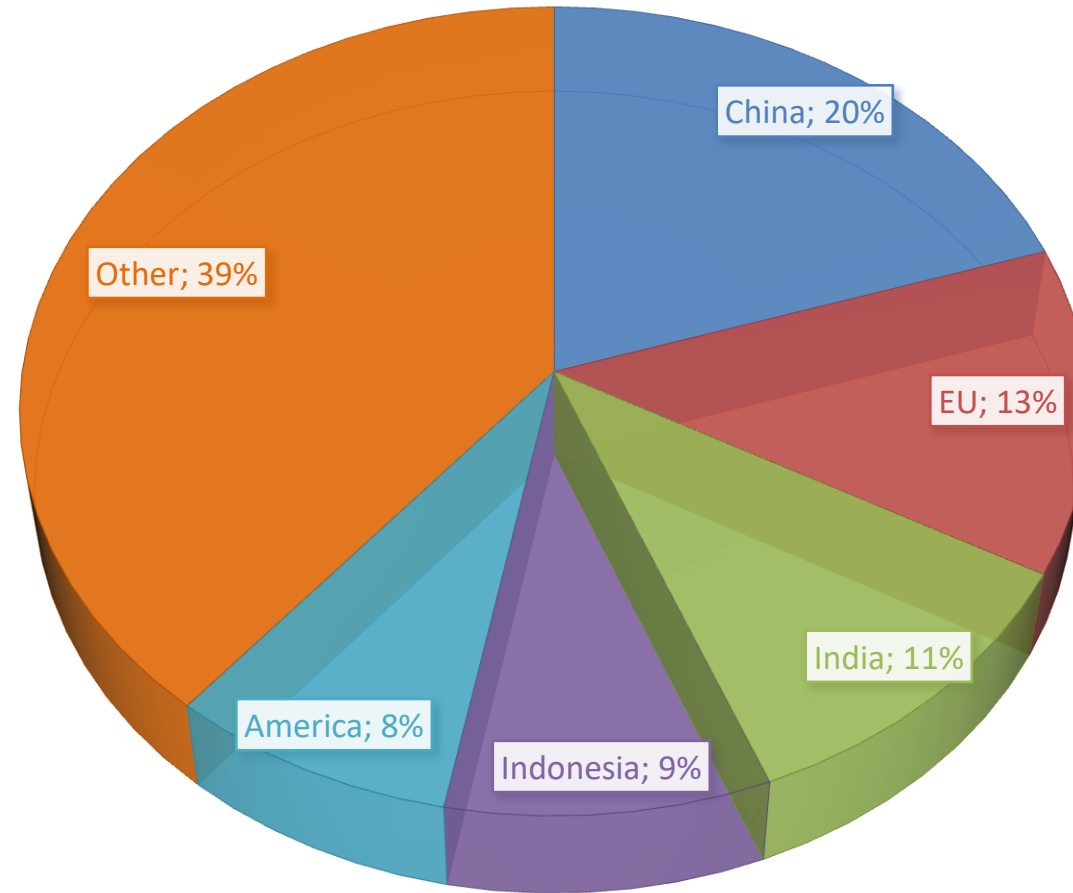
**Andrii Vusyk,
Deputy General Manager
Myande Group Co., Ltd**

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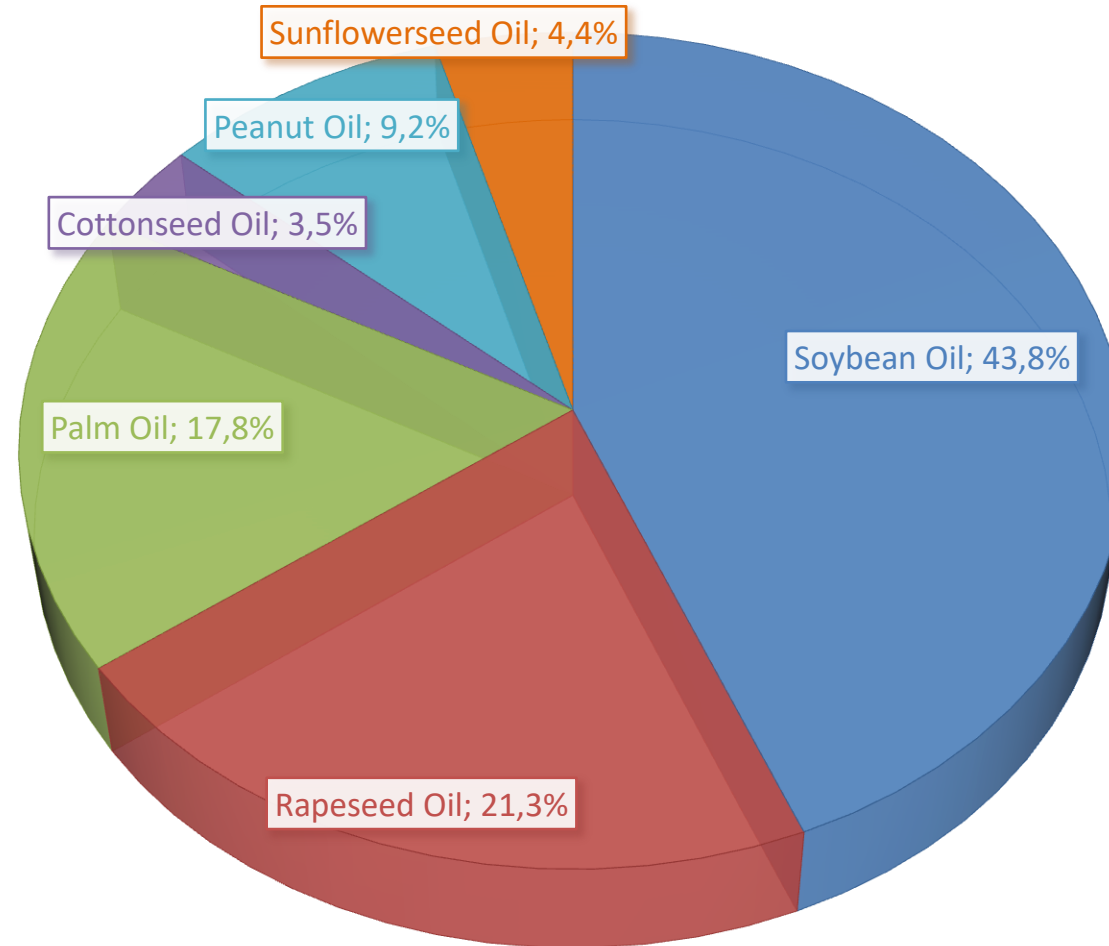
Main figures of the Chinese market



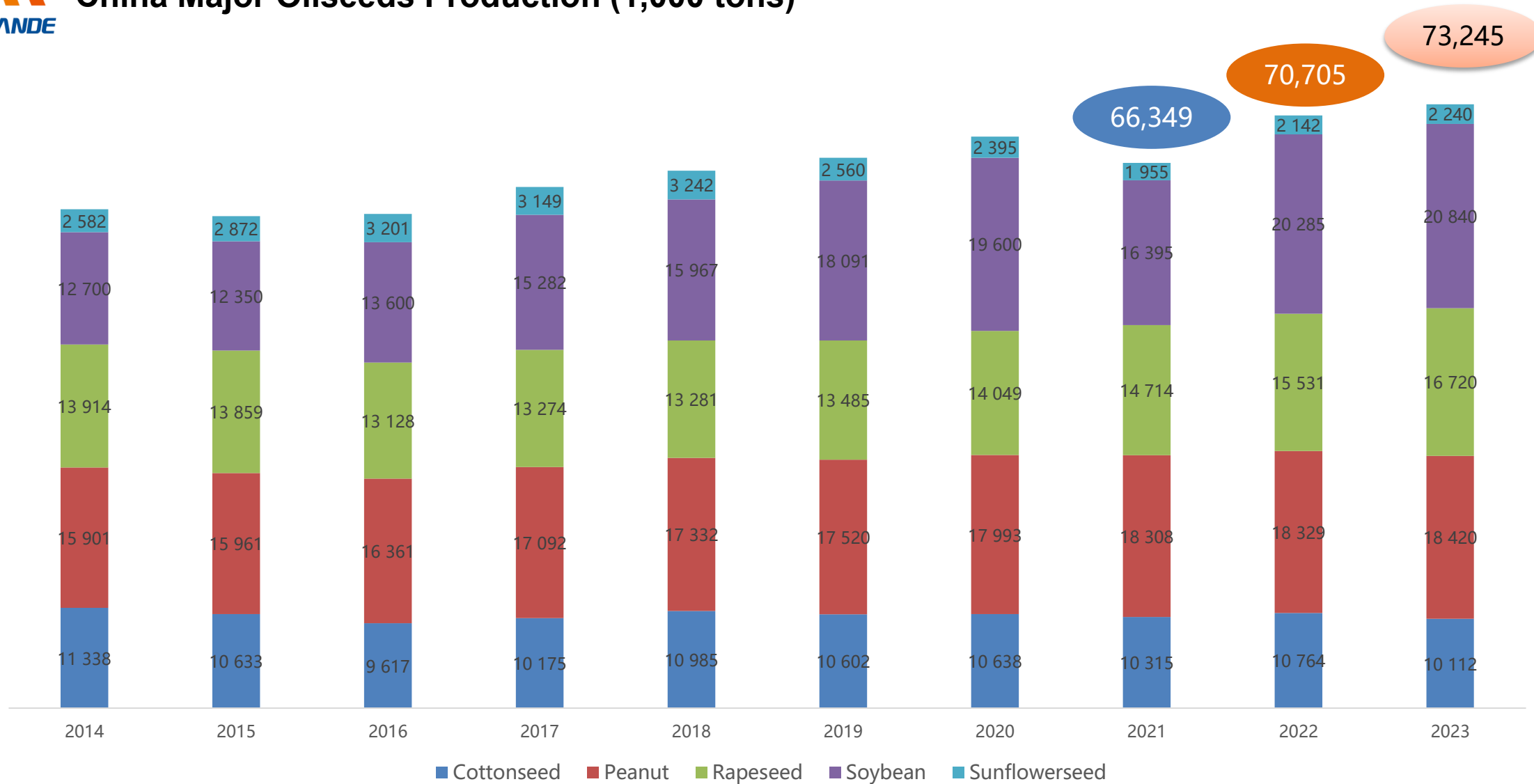
Global Vegetable Oil Consumption by Region in 2023



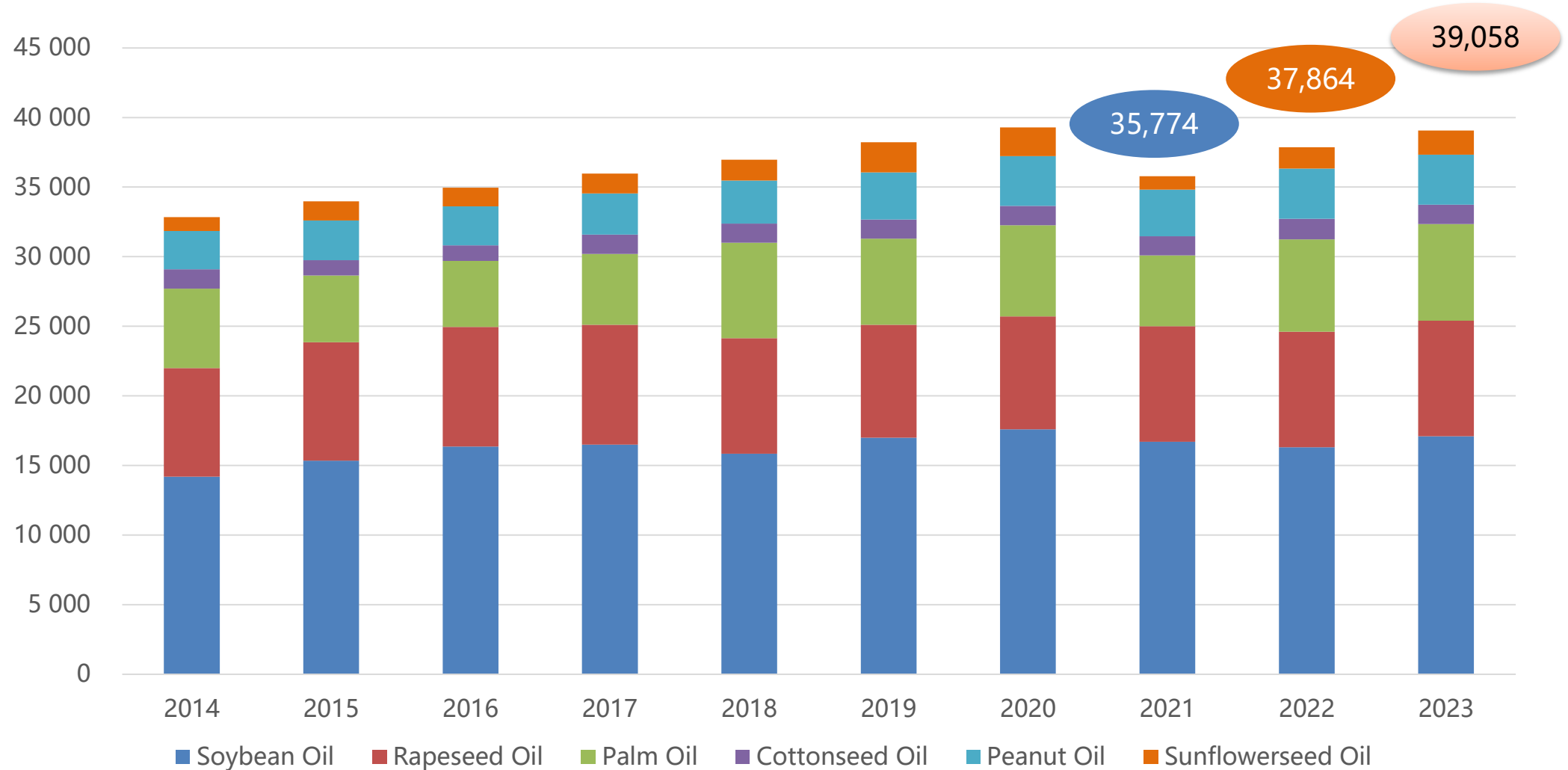
2023 China Vegetable Oil Consumption Share



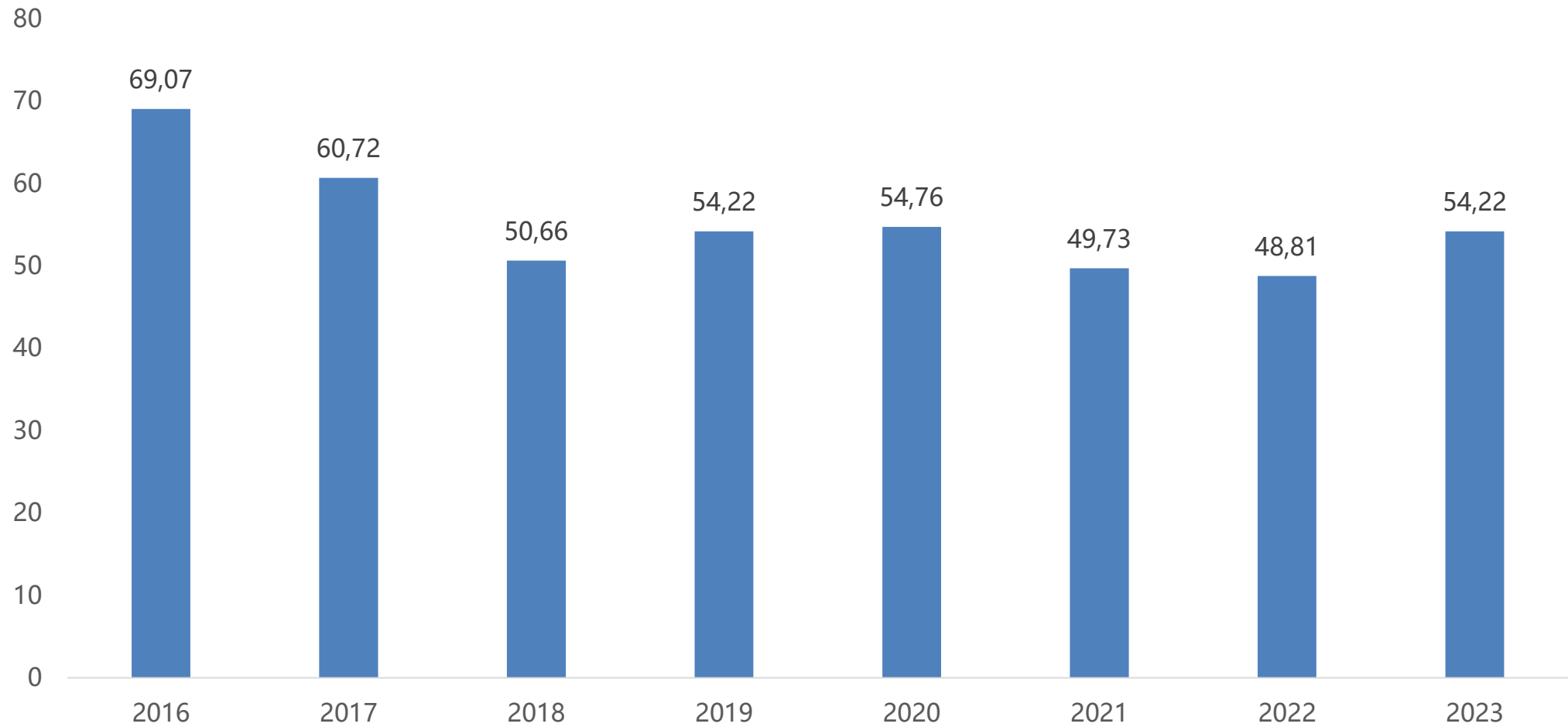
China Major Oilseeds Production (1,000 tons)



China Major Oils Consumption (1,000 tons)



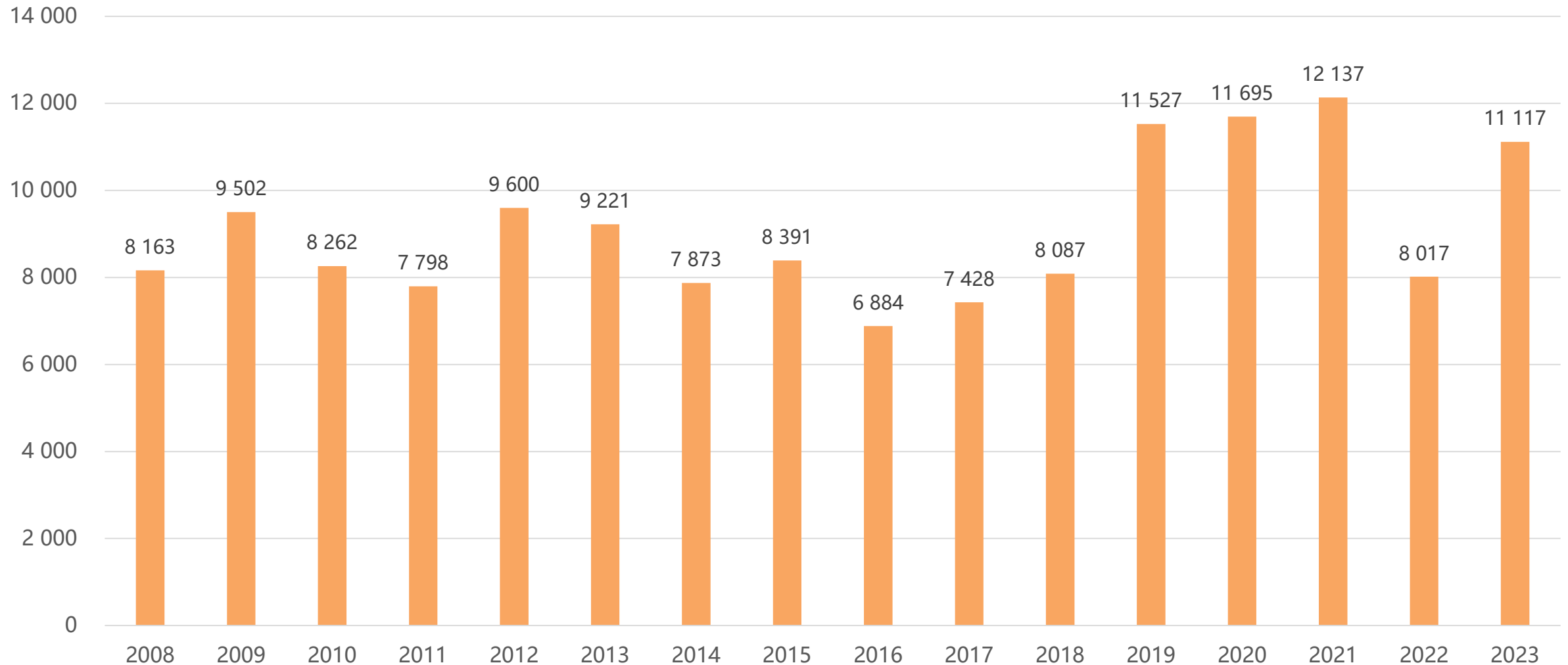
China Refined Edible Vegetable Oil Production (Million Tons)





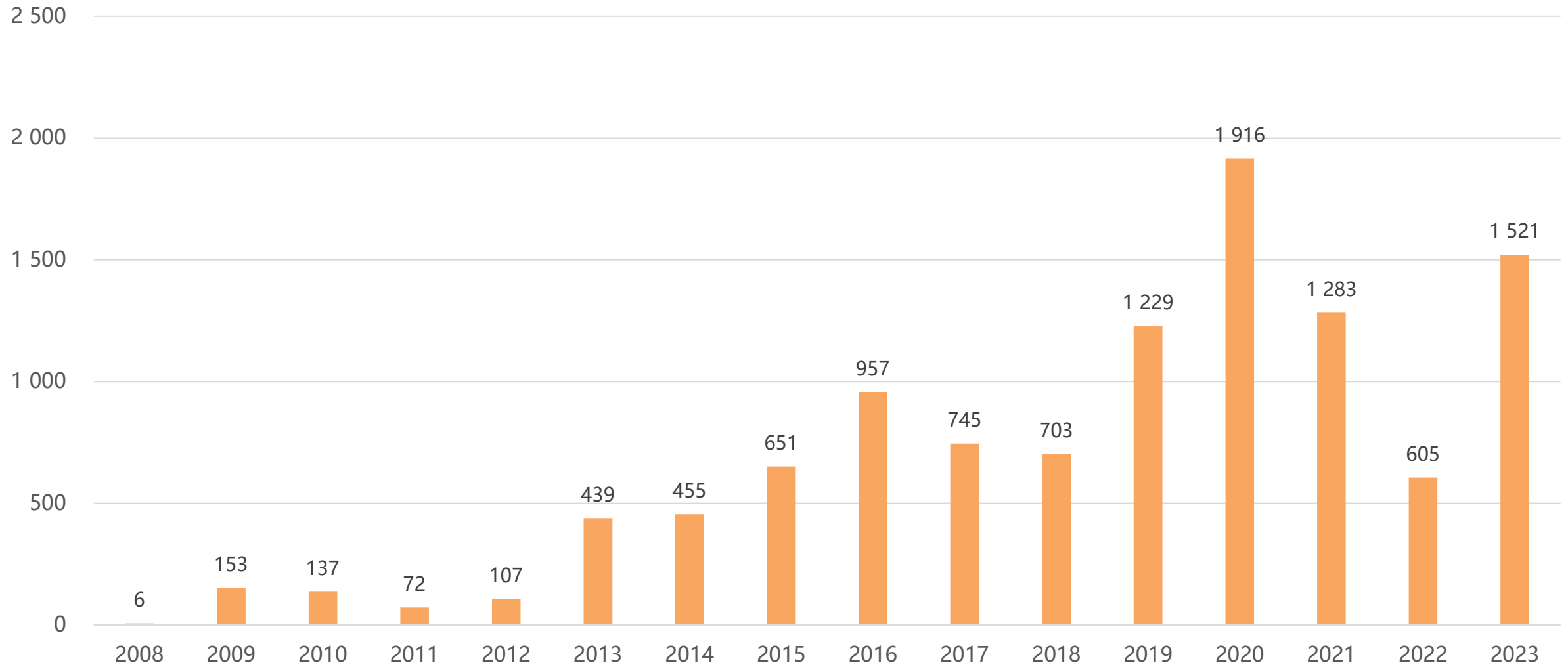
China Total Vegetable Oil Import (1,000 tons)

The average import in the past three years remained at 10.42 million tons.



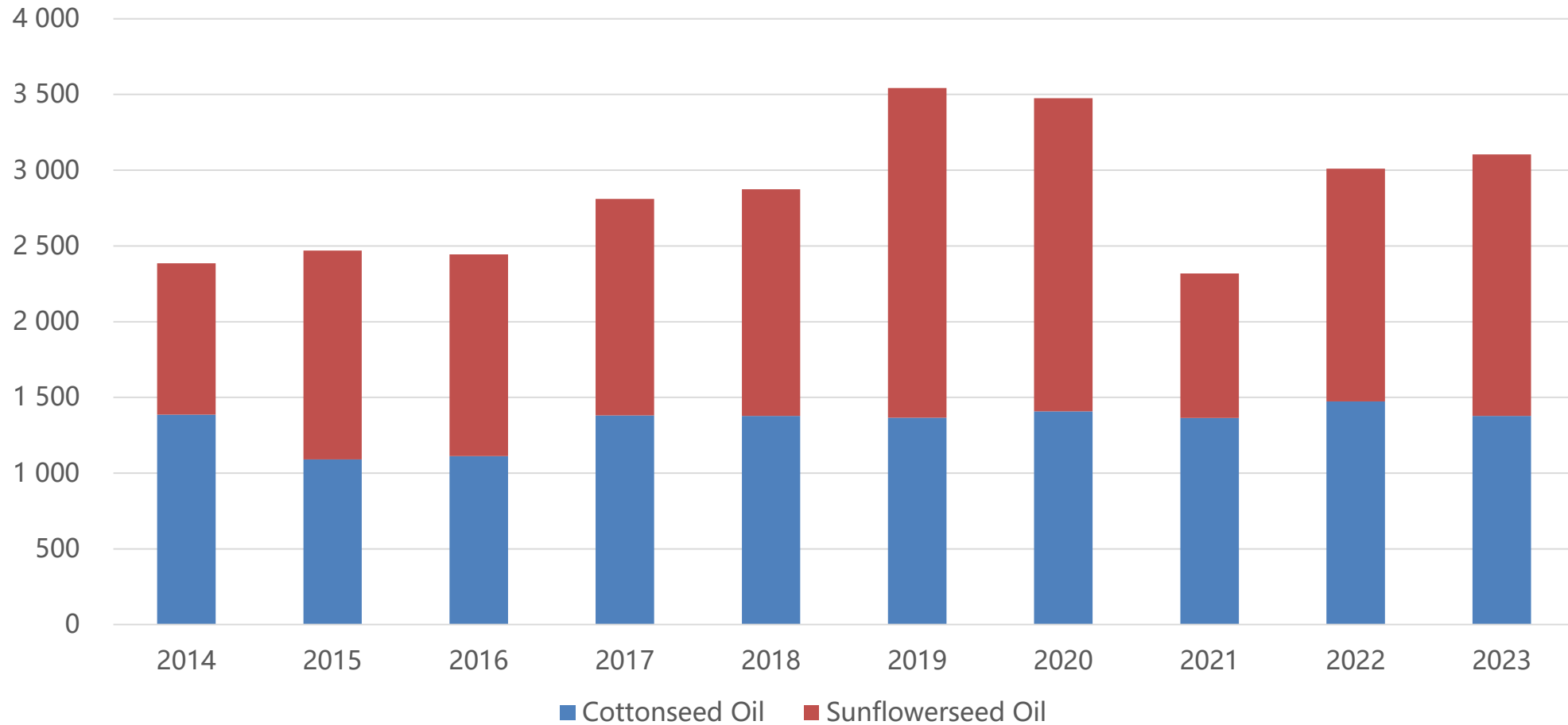


China Sunflower Seed Oil Import (1,000 tons)



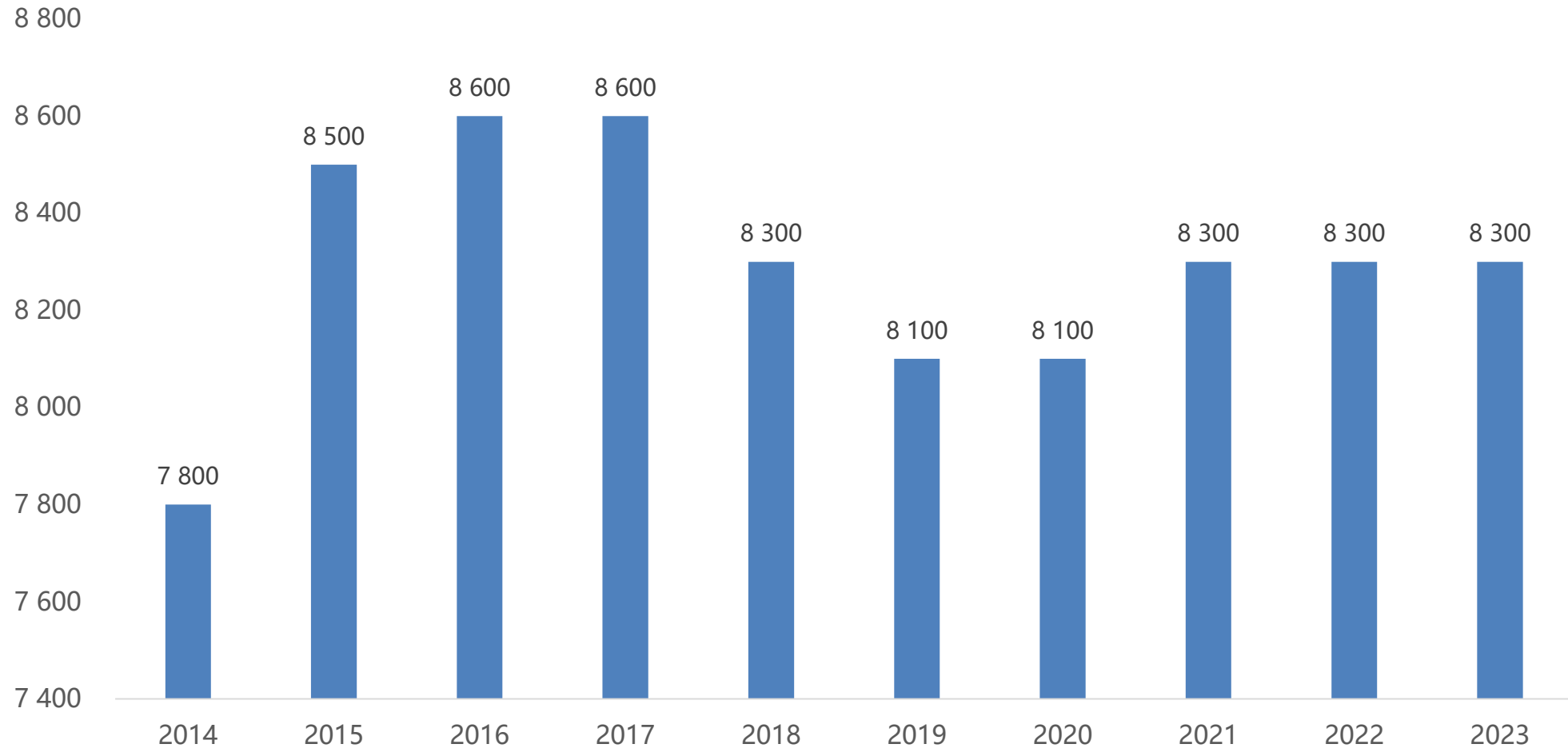


China Sunflowerseed & Cottonseed Oil Consumption (1,000 tons)



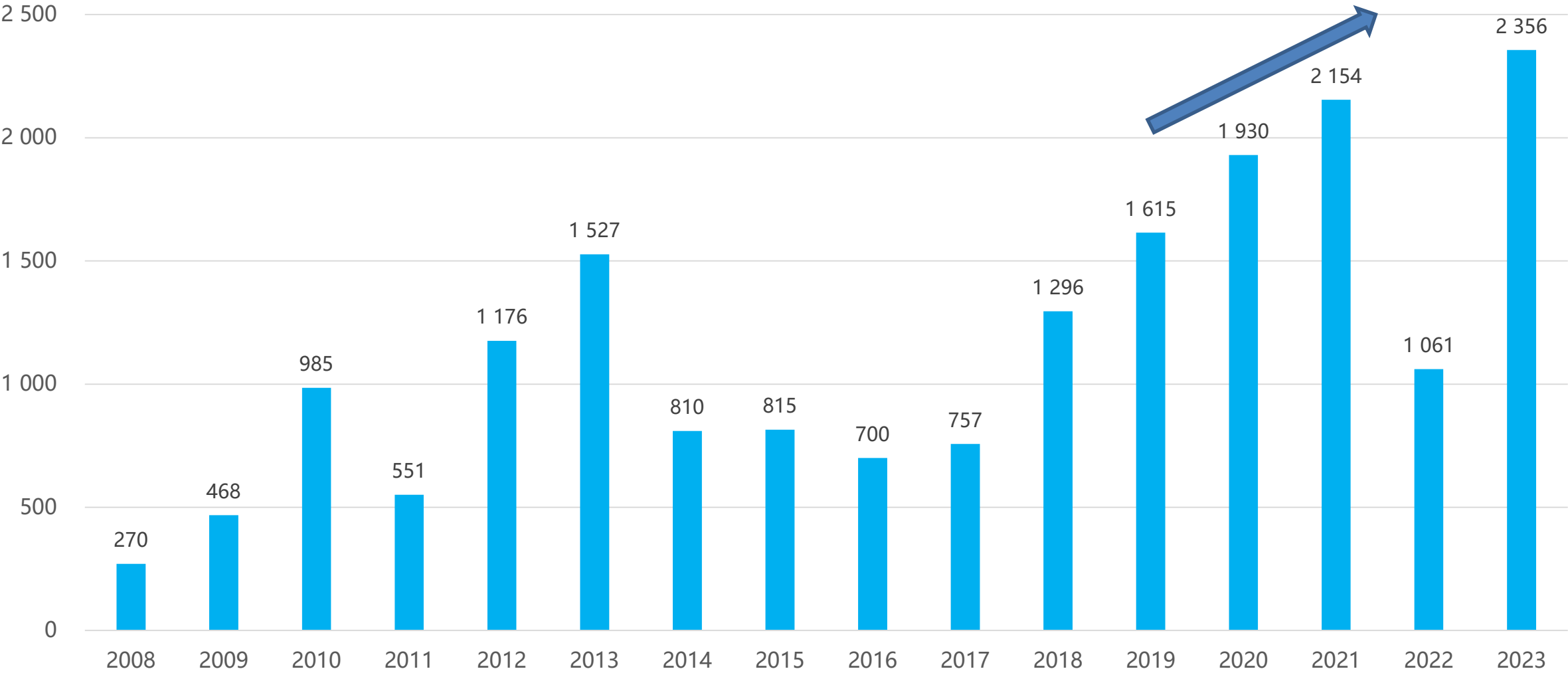


China Rapeseed Oil Consumption (1,000 tons)



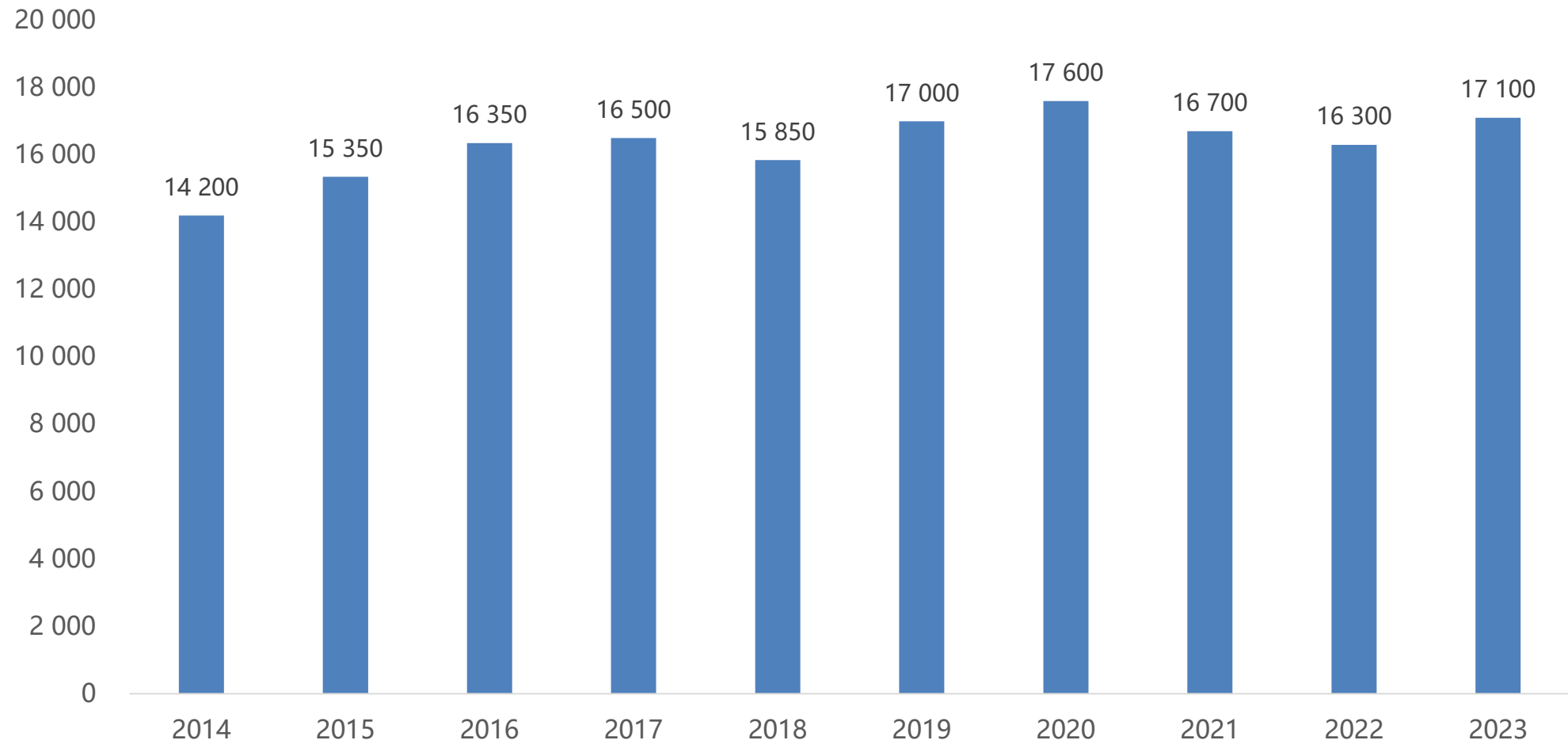


China Rapeseed Oil Import (1,000 tons)



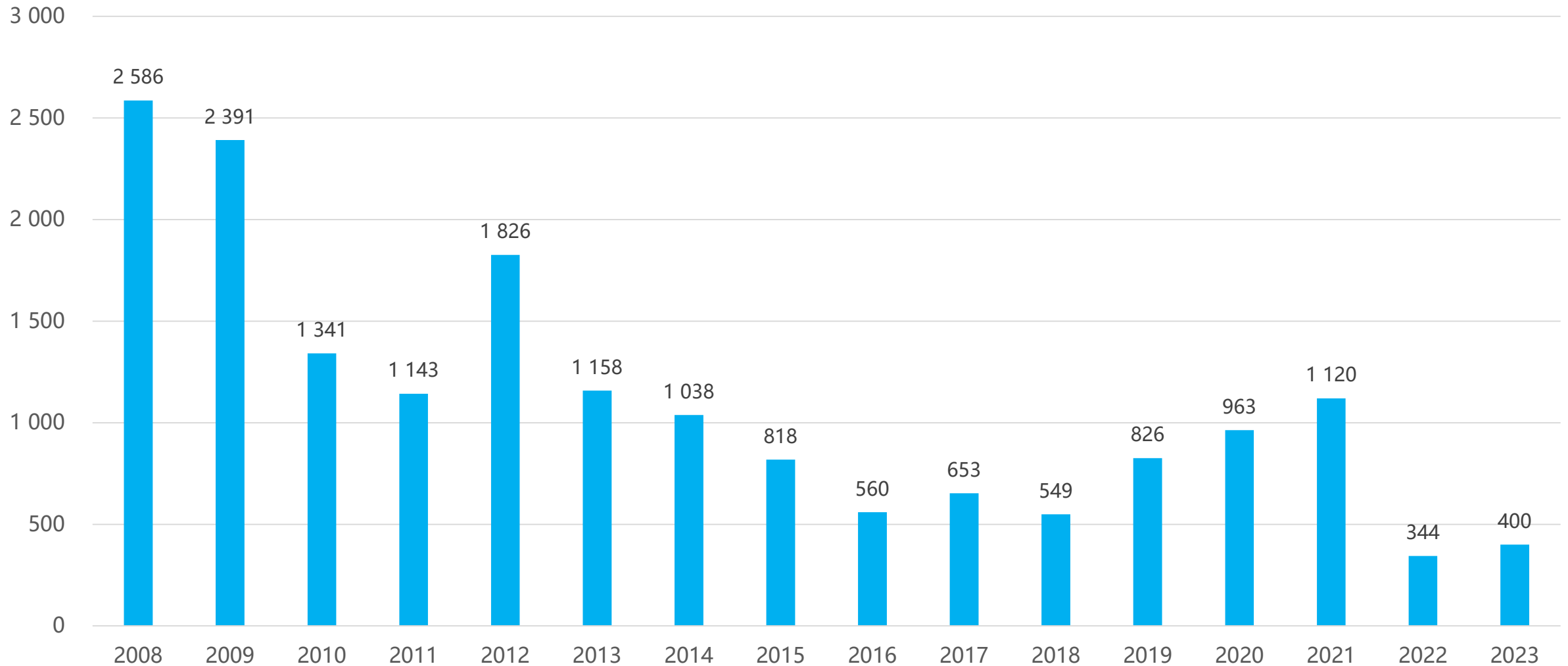


China Soybean Oil Consumption (1,000 tons)





China Soybean Oil Import (1,000 tons)





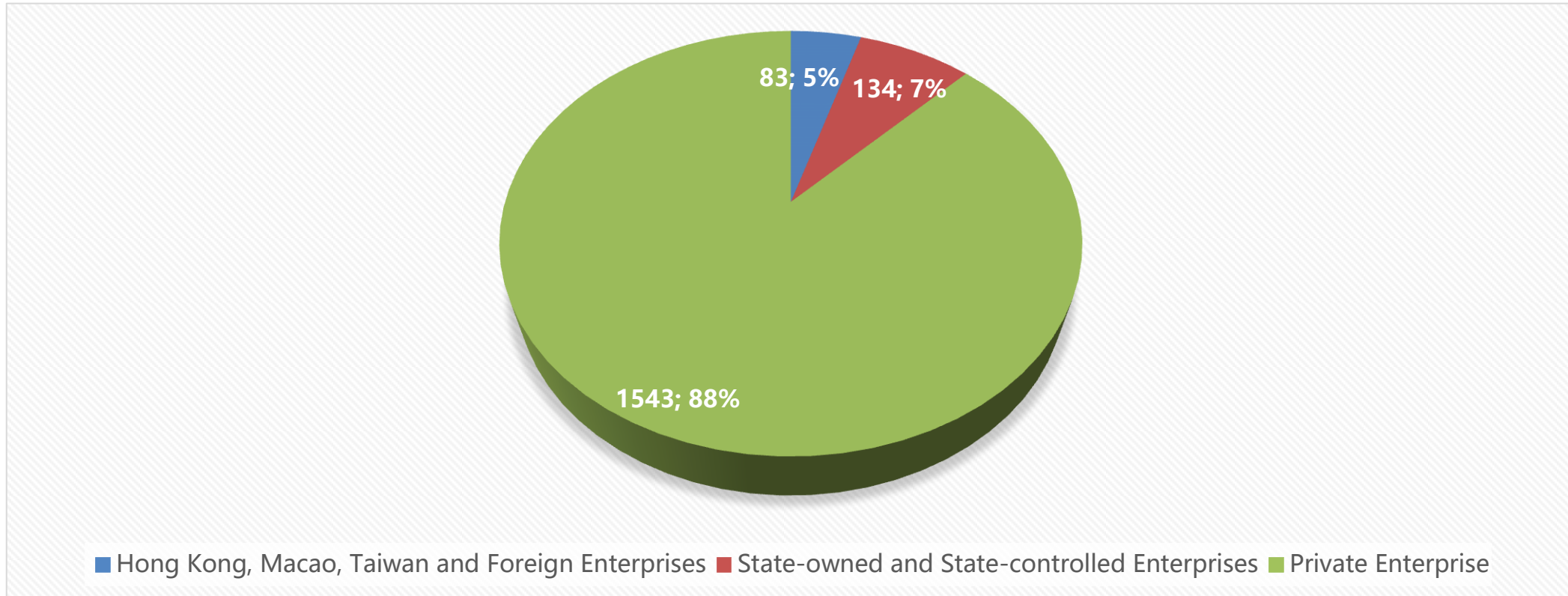
Comprehensive Balance Analysis of China Edible Oil Market (1,000 tons)

	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
Production	28,799	29,663	28,910	29,666	31,273	30,163	32,288
Import	7,291	7,519	10,228	11,597	12,694	6,792	10,039
Total Supply	36,090	37,182	39,138	41,263	43,922	36,955	42,327
Domestic Food Consumption	33,770	34,500	35,110	35,800	37,330	34,150	36,780
Industrial and Other Consumption	3,700	3,830	4,670	5,360	5,465	3,240	4,180
Export	164	265	241	190	75	165	156
Total Demand	37,634	38,595	40,021	41,350	42,870	37,555	41,116
Total Savings	-1,544	-1,413	-883	-88	1,054	-600	1,211

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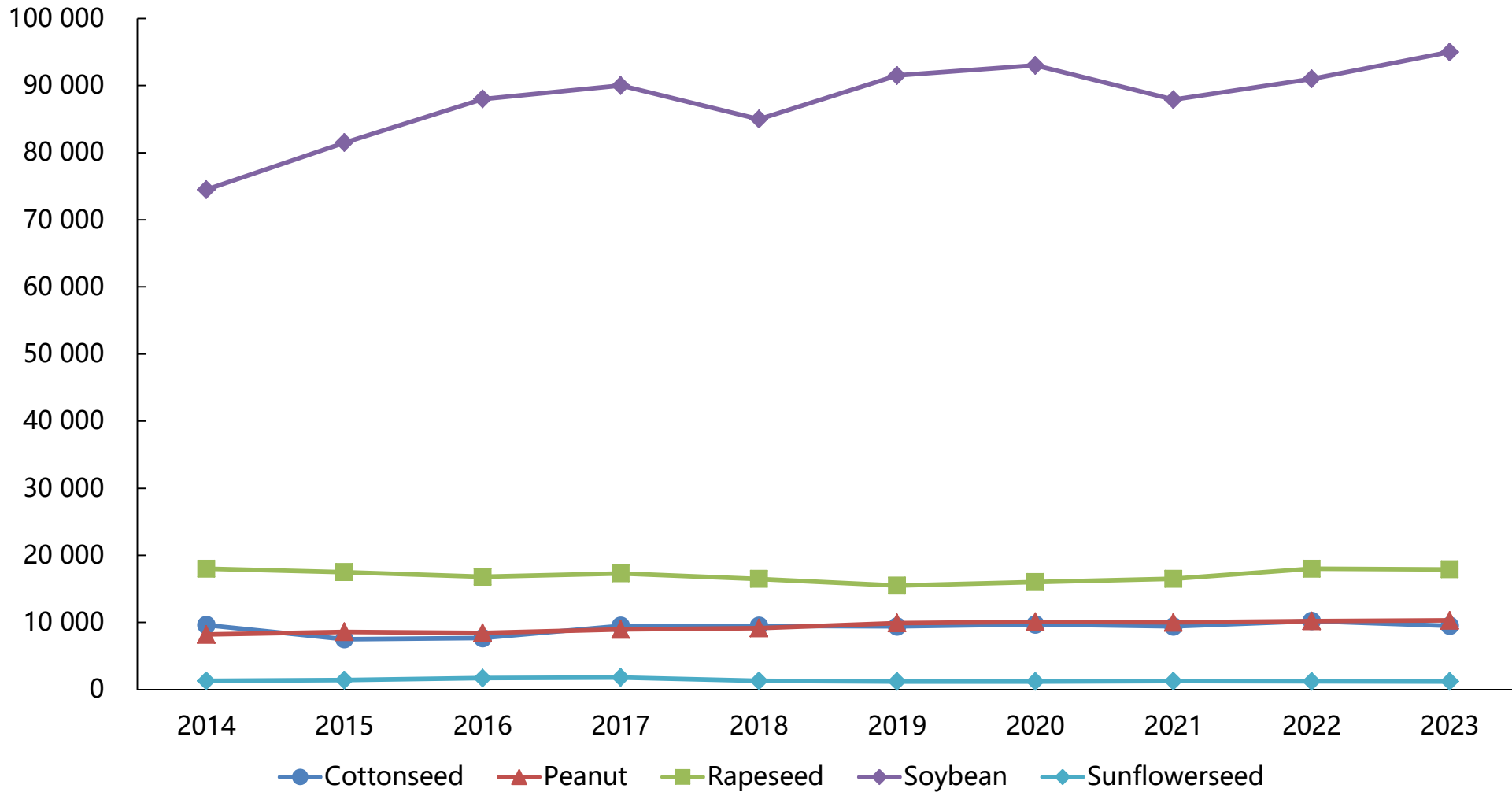
China Oilseeds Crushing Market

Number of Edible Vegetable Oil Processing Companies in China

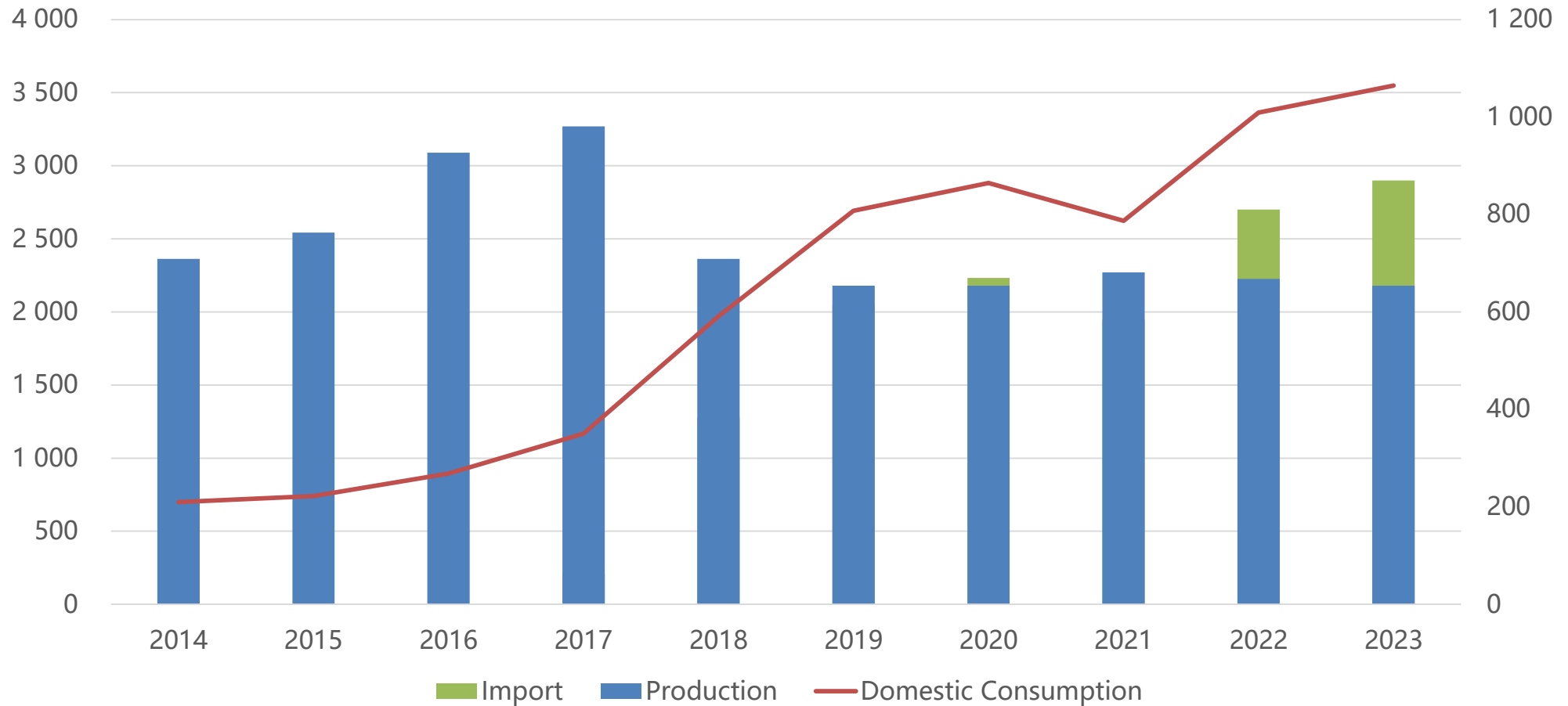


In 2022, there are 1,760 edible vegetable oil processing enterprises above designated size in China, including 134 state-owned and state-controlled enterprises, 1,543 domestic non-state-owned enterprises, and 83 Hong Kong, Macao, Taiwan and foreign enterprises, accounting for 7.6%, 87.7% and 4.7% respectively.

China Major Oilseeds Crushing (1,000 tons)



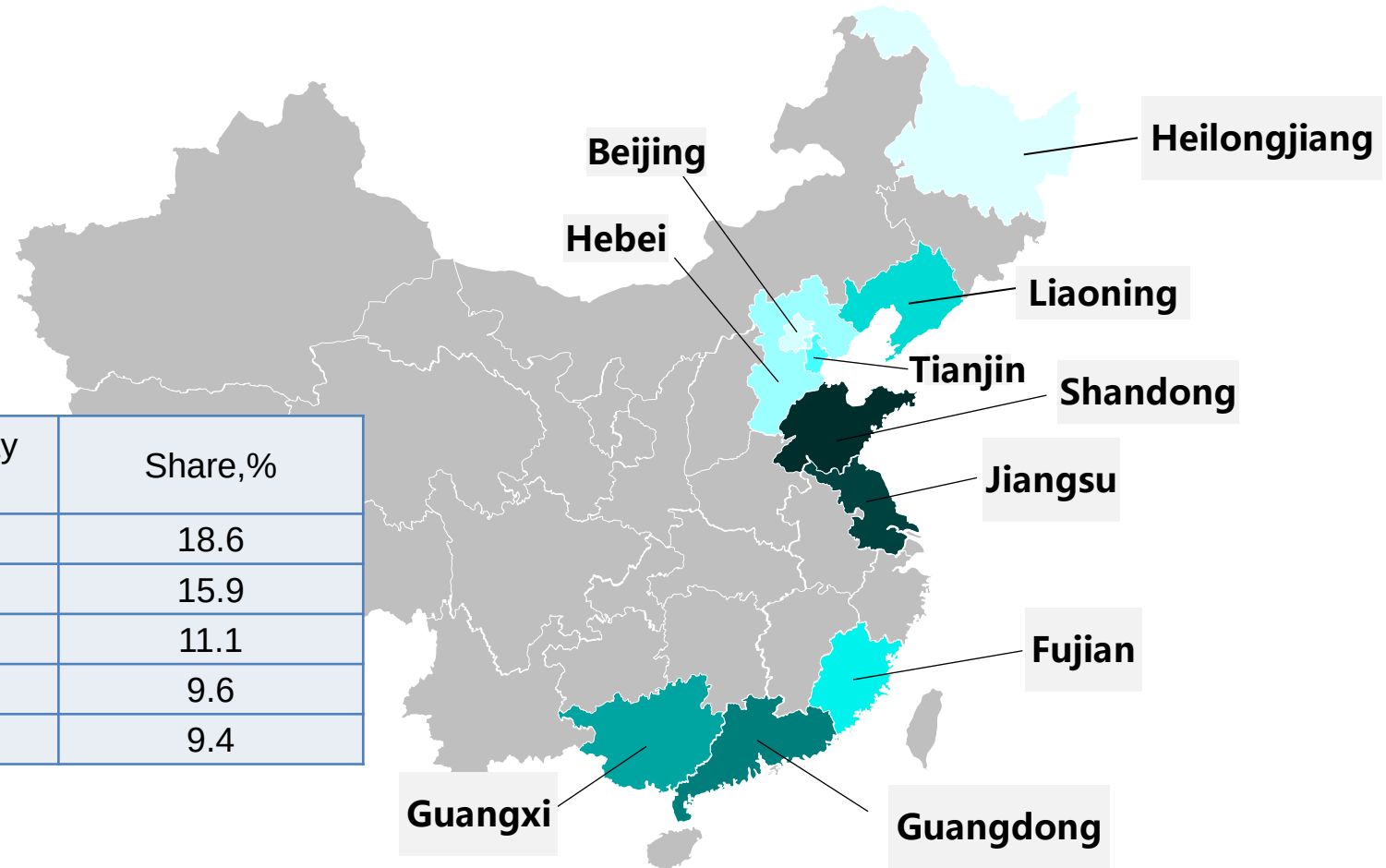
China Sunflower Seed Meal Supply and Demand (1,000 tons)



China sunflower seed meal consumption is increased by 13.68% average in the last 5 years.

China Top 10 Soybean Crushing Provinces

No	Province	Crushing Capacity (Million tons)	Share, %
1	Shandong	29.53	18.6
2	Jiangsu	25.37	15.9
3	Guangdong	17.59	11.1
4	Guangxi	15.33	9.6
5	Liaoning	14.96	9.4





大豆压榨行业十大集团 2021年

排名	集团	产能占比	压榨量 (万吨)
1	中粮集团	20%	1860
2	益海嘉里	11%	968
3	中储粮	9%	785
4	九三粮油	9%	777
5	渤海集团	7%	680
6	嘉吉粮油	7%	651
7	路易达孚	7%	614
8	汇福粮油	7%	595
9	邦吉集团	6%	558
10	中海粮油	3%	269

03

Myande – who we
are?

1.1 Manufacturing and Engineering Development Center

- ◆ Year of establishment: 2003
- ◆ Ownership: Private
- ◆ Turnover (annual sales): 300 mln. USD
- ◆ Production area: 130,000 m²
- ◆ Center territory: 7,500 m²
- ◆ Staff: 1,200+ (500+ Engineers)



Around 1000+ oils & fats turn-key projects worldwide

80+ Countries

[Reference List](#)

Recently 10 years:

Turn-key Crushing Projects include:

4000-6000TPD – 18

2000-4000TPD - 31

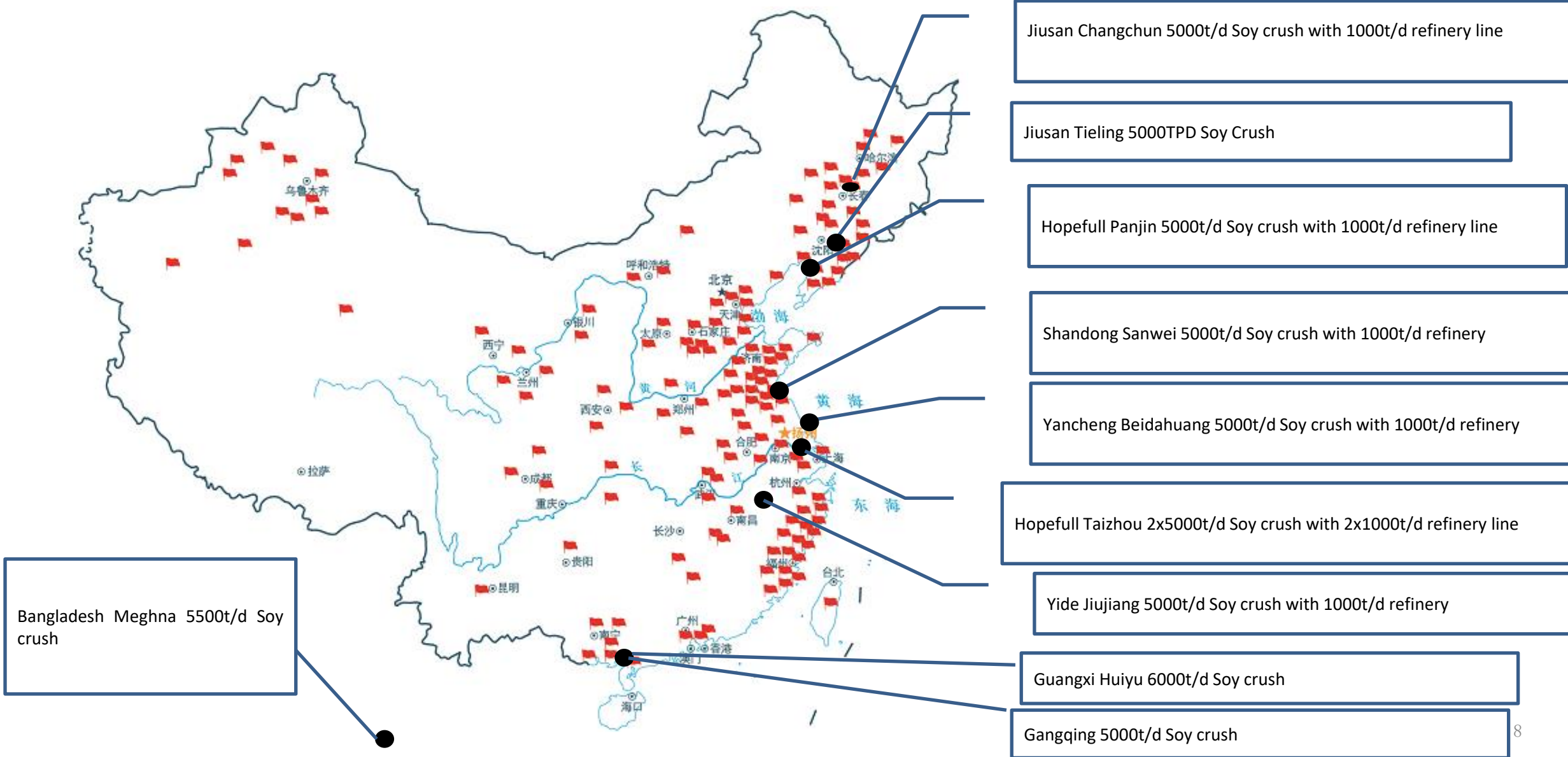
Turn-key Refinery Projects include:

1000TPD – 14

200-800TPD - 35



Reference in China



Myande Market Share-Report from third party

Myande Market Share in 2023

83.9% market share in China market

29.5% market share in the world wide





Main customers



益海嘉里



中糧
COFCO

04

Selected reference projects in CIS Countries



Ukraine – 1,400TPD Sunflower Seed Crush Project





Ukraine - 1200TPD Sunflower Seed/Rapeseed Solvent Extraction Project





Ukraine VI - 500TPD Sunflower Seed/Rapseed Solvent Extraction Project





Kazakhstan AM - 500TPD Sunflower Seed Crushing & 120TPD Refinery Project

500TPD Sunflower Seed Crushing with 120TPD Oil Refinery Project



Designed By: Myande Group Co., Ltd



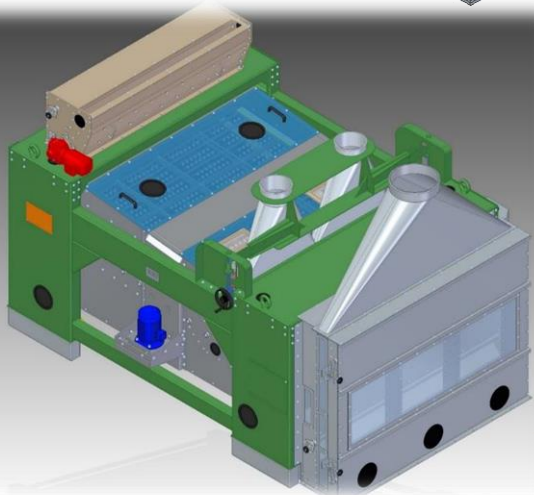
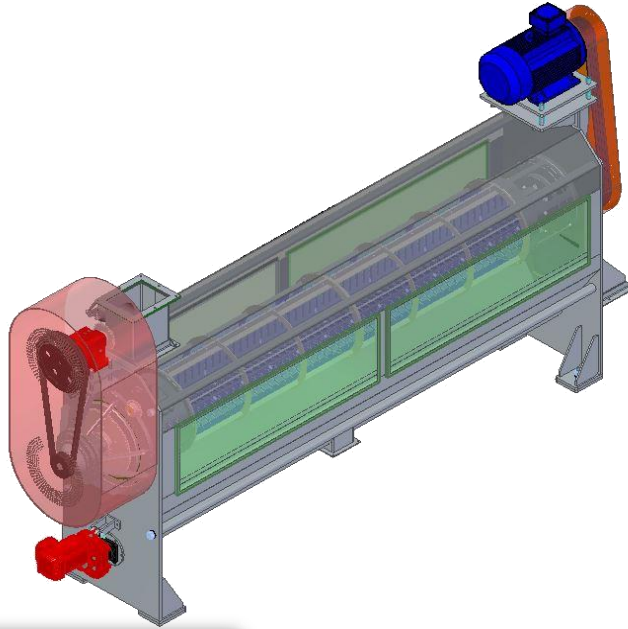
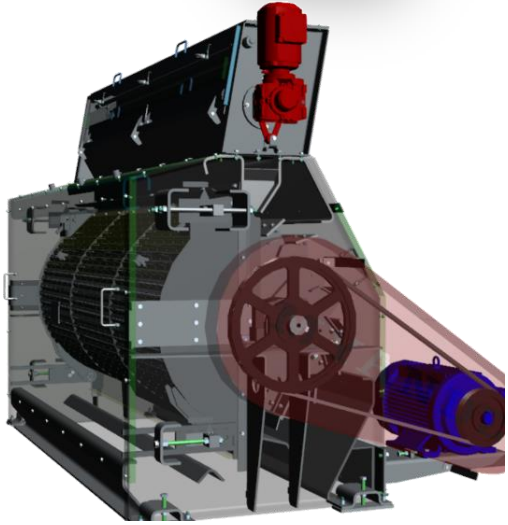
Turkey- 1000TPD Cotton, sunflower seed etc multiseed Project – Extraction + Miscella Refining



Project Reference (undergoing)

Turkey- 1000TPD Sunflower seed, Soybean, Rapeseed Crushing Project



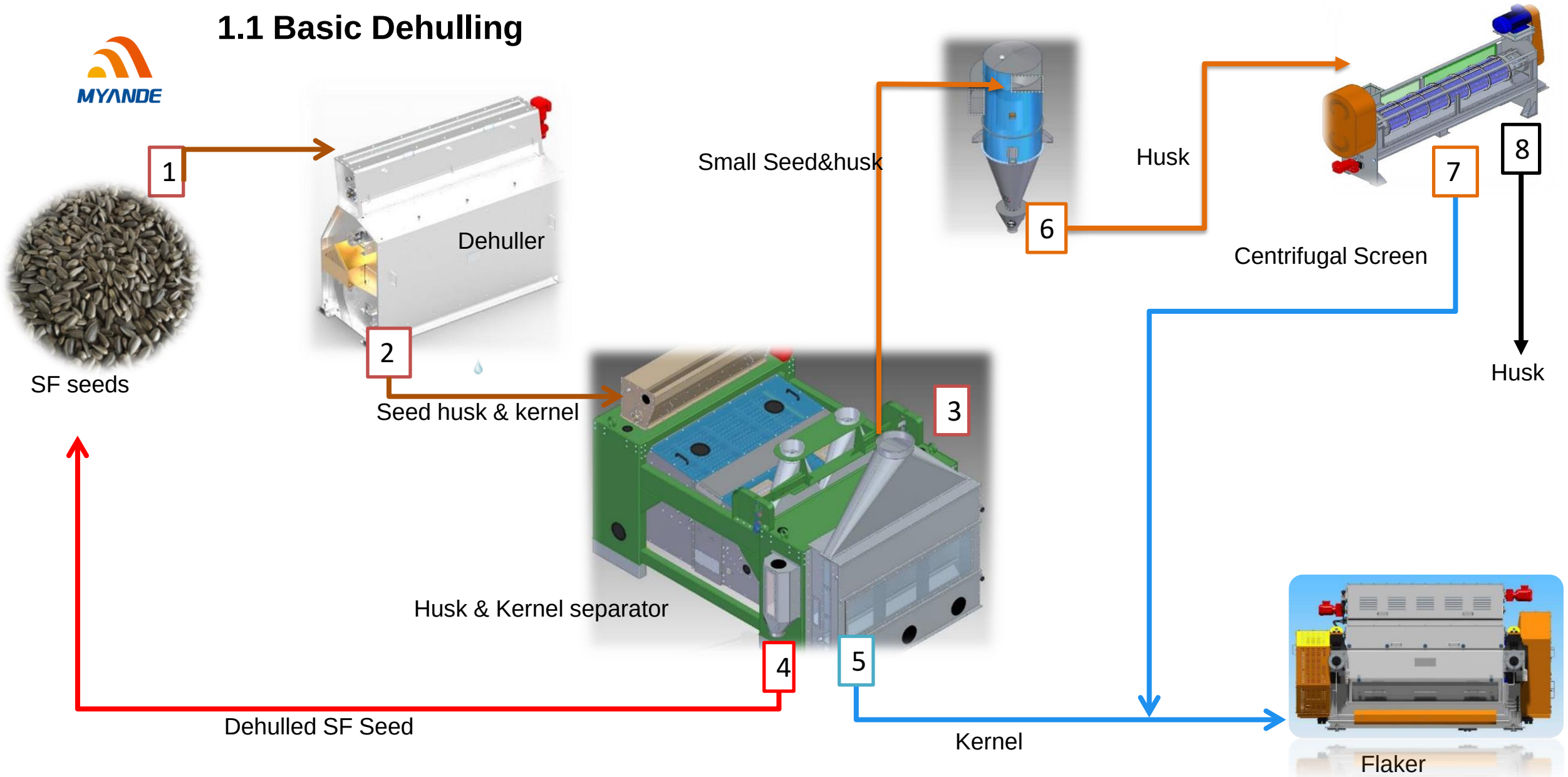


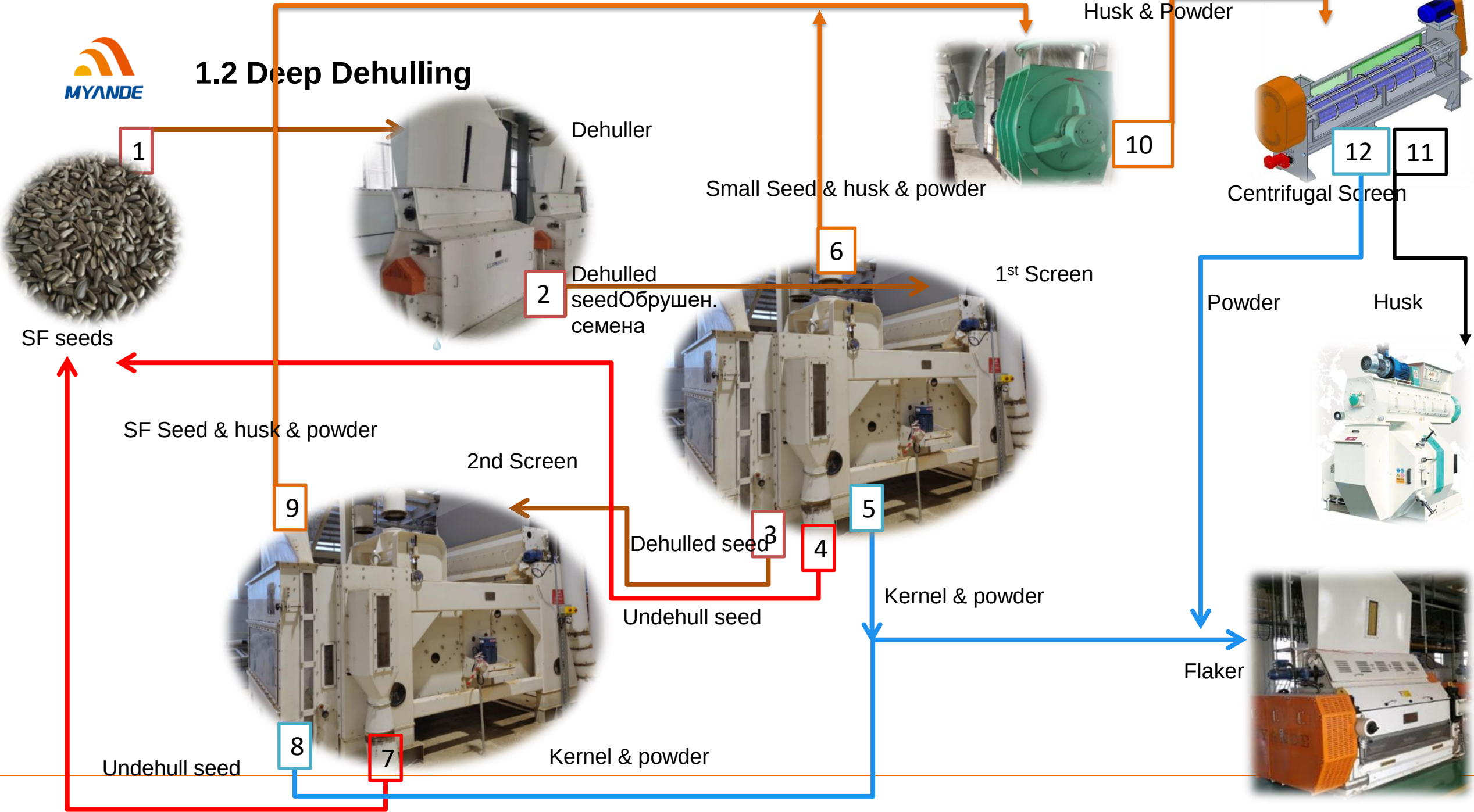
High efficiency
High automation
Optimize structural design
Low husk content in kernel
Low kernel content in the husk

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1.1 Basic Dehulling

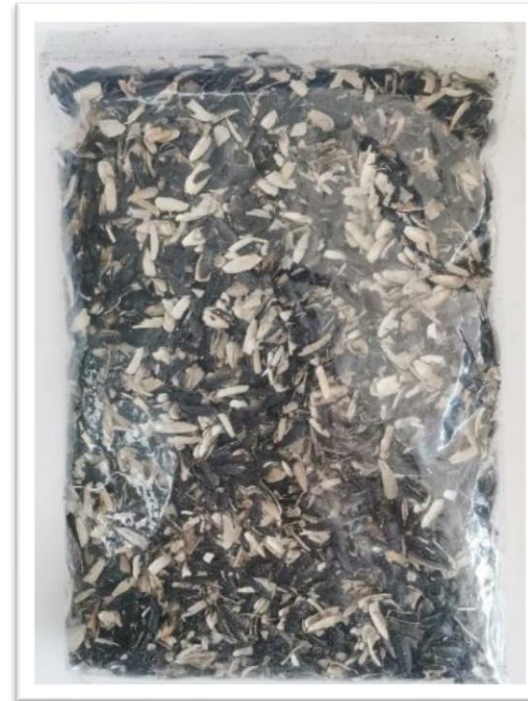




1.3 Application and processing of materials



Kernel after husk separator (3)/(8)

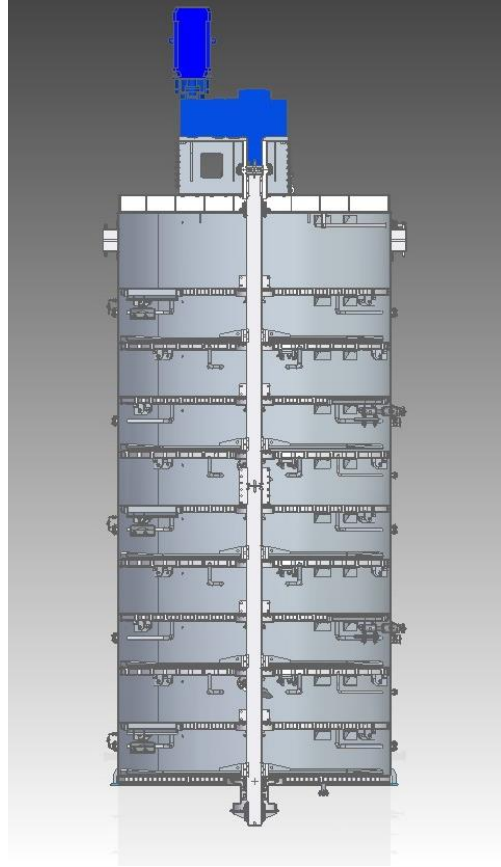
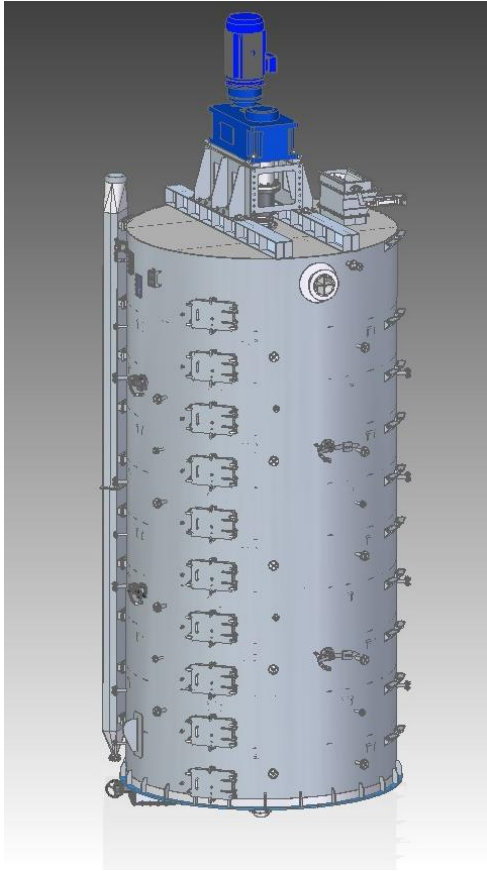


Husk (14)





- 1. No dead corners, uniform cooking.**
- 2. Low installed power, greatly reduced energy consumption, and decreased production costs.**
- 3. Long service life, low failure rate, and low maintenance costs.**
- 4. The cooking time can be adjusted at any time.**
- 5. Cooking the material while drying it, with a maximum water removal rate of 2% to 5%.**



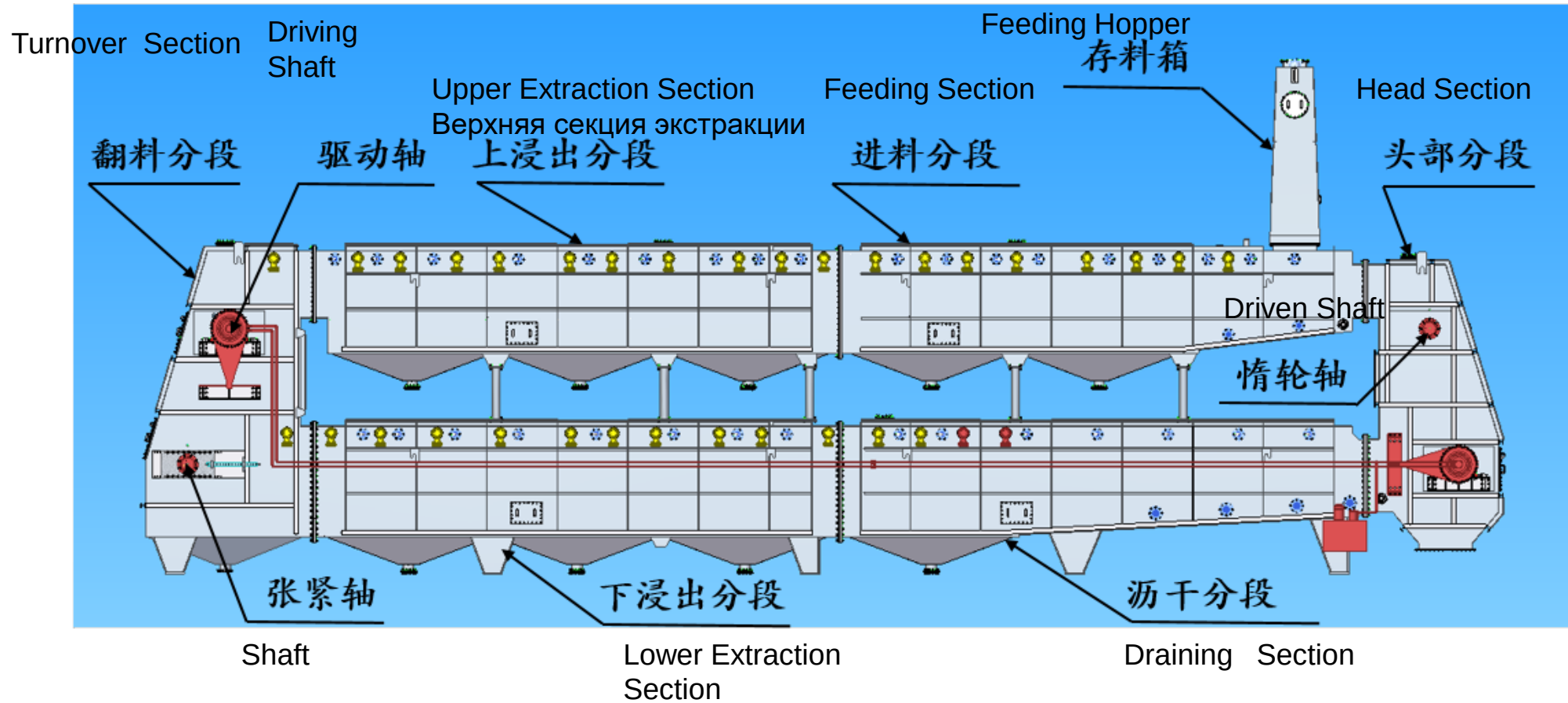
1. No dead corners, uniform cooking.
2. Large heat exchange area, sufficient heat exchange, and optional heat tracing.
3. Fully automatic control.
4. The height of the material layer and the drying time can be adjusted.
5. Comprehensive protection with good safety effect.

Myande New Tech-E-type Extractor conference-Five generation

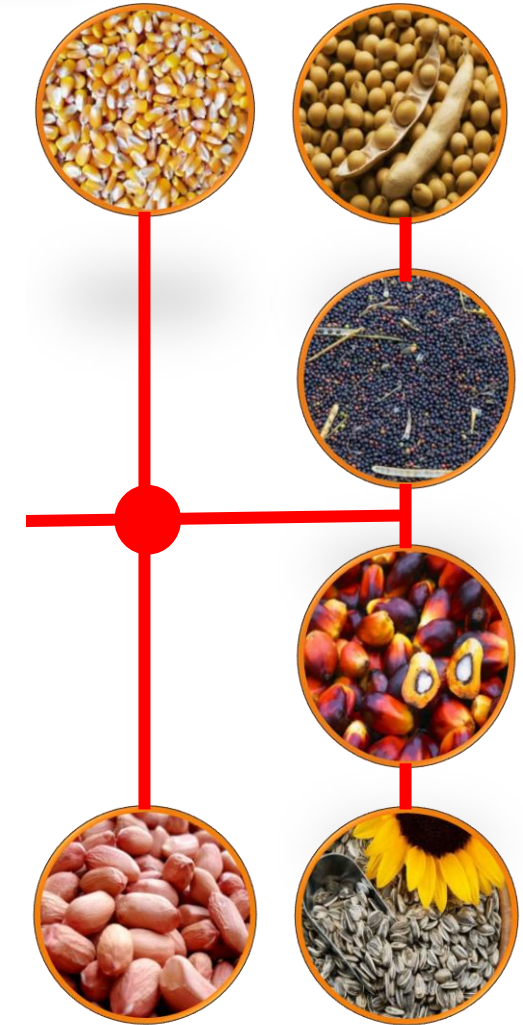
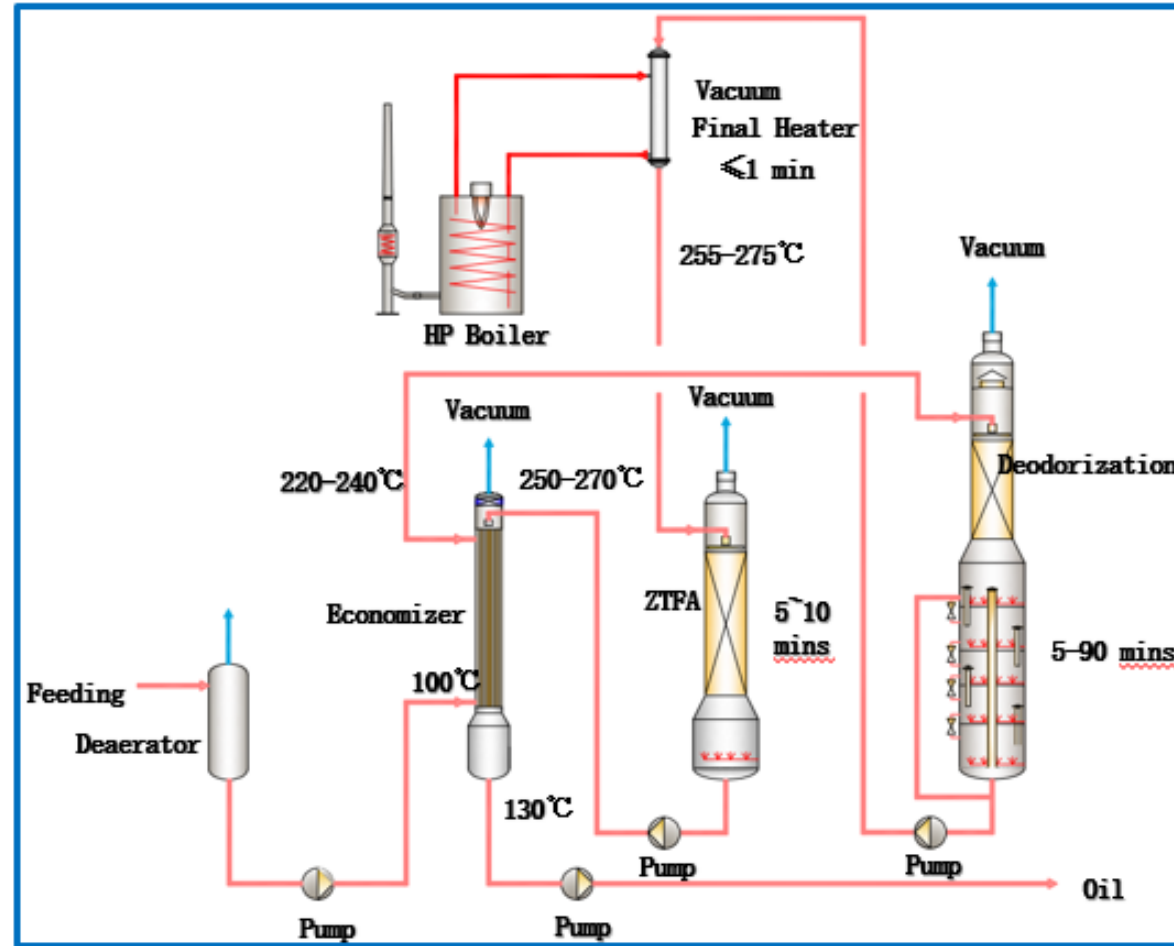


**New generation and revolution
Higher performance
High level safety
Reduce friction and wear
Less maintenance
Force drainage system
Easy for delivery and installation
.....**

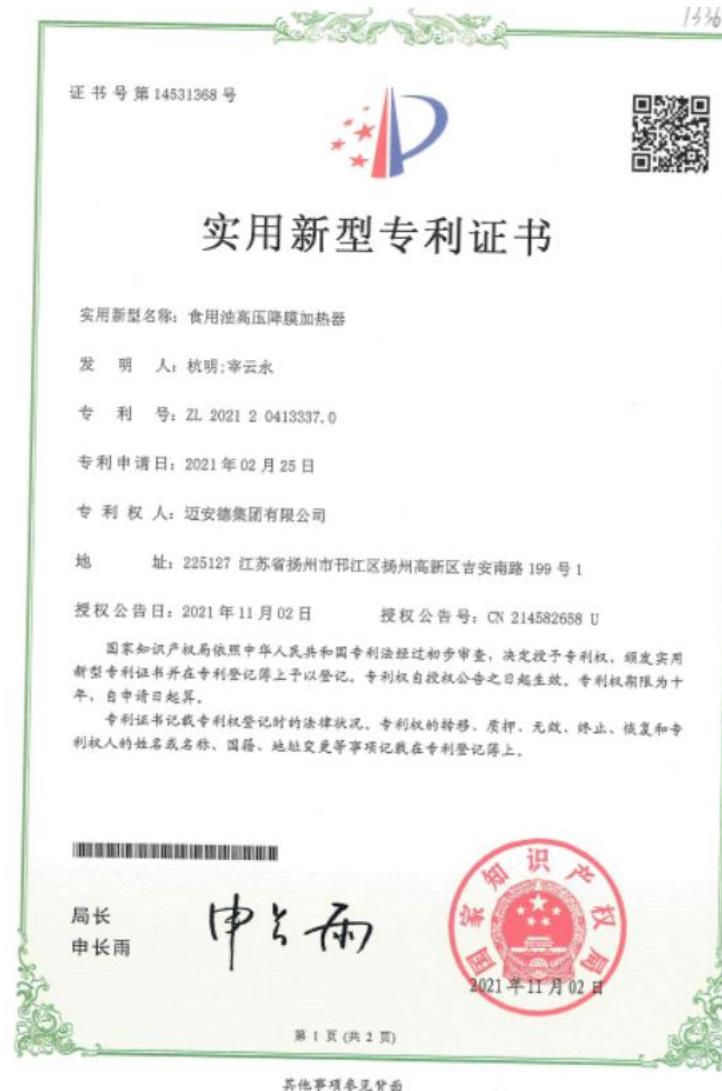
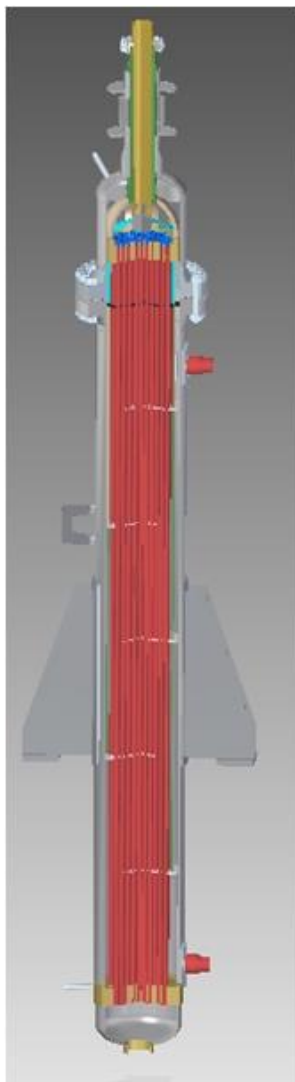
E Type Extractor Structure



- Flexible process choice;
- Adjustable retention time-
Diversity of applicable raw materials
- Effectively controlling 3-MCPD-Ester, GEs and TFA in the final oil.



Application of Vertical Falling Film Heater

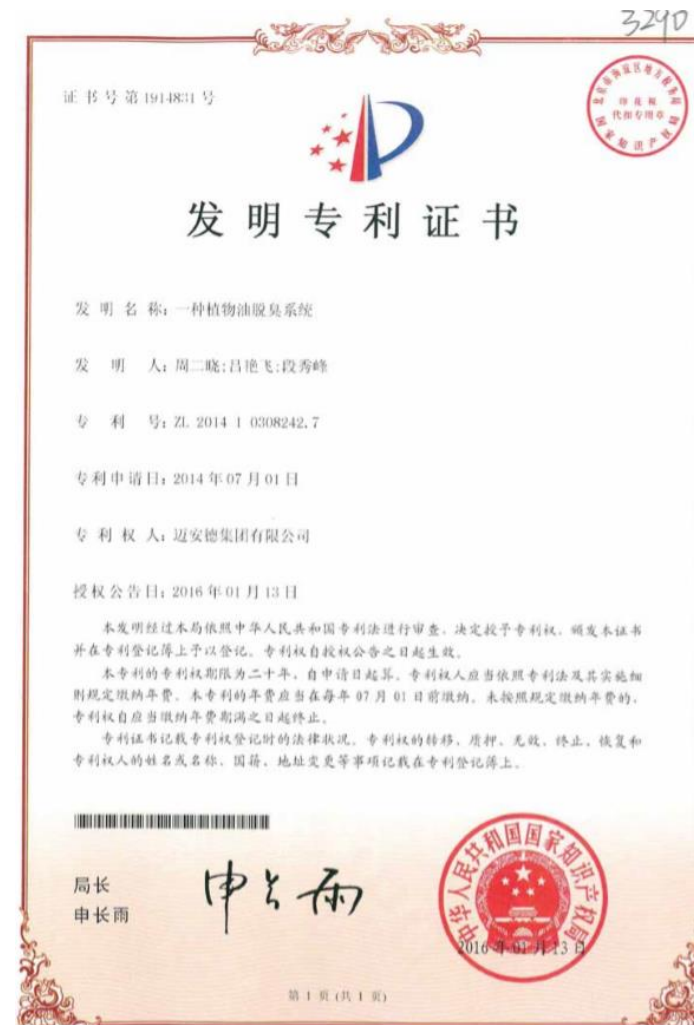
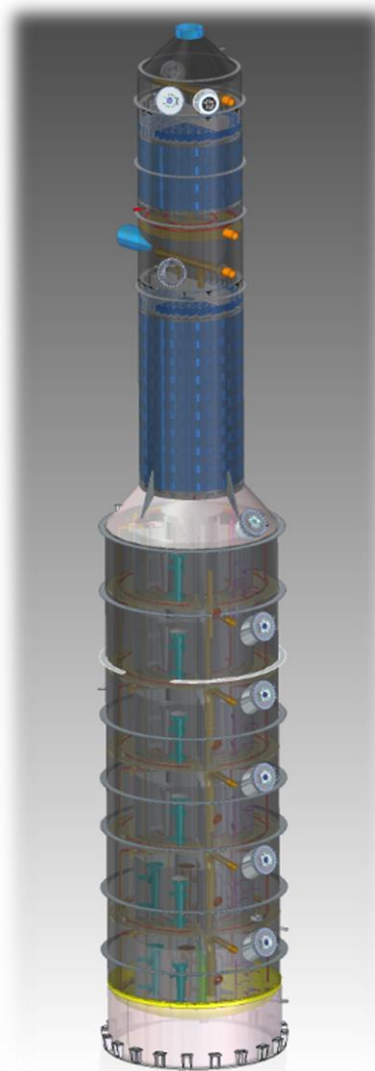
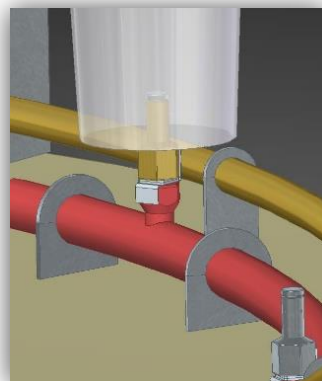
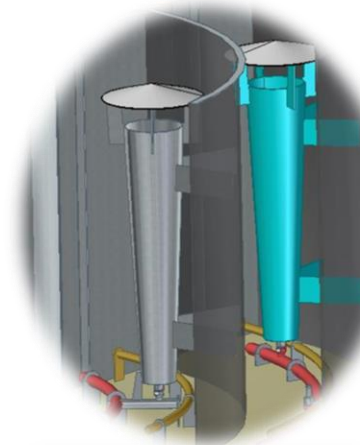
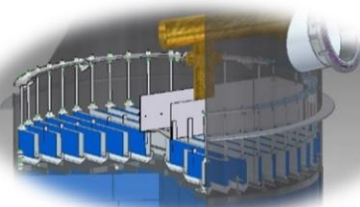


Deodorization Column and ZTFA Stripper Column

Adapt to a variety of oils to meet different production requirements.

The reaction temperature and time are controllable.

Effectively controlling 3-MCPD-Ester, GEs and TFA in the final oil.





Alkali consumption reduced by 40+%

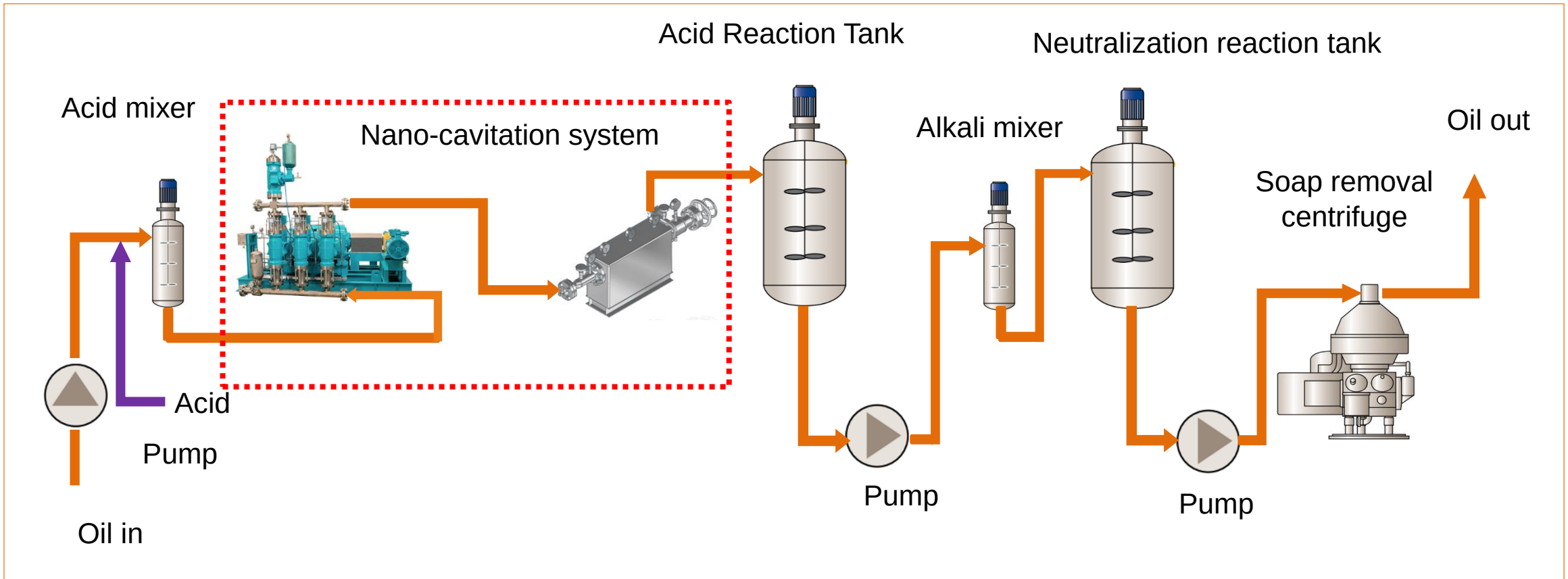
Phosphoric acid consumption reduced by 70+%

Reduce washing water consumption by 35%

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Technical characteristics of Myande nano-cavitation system-process route

Acid strengthening process route



**Committed to customer success and
creating a better future together**

激情 精細 誠信

Vă mulțumesc foarte mult pentru atenție

