



台塑關係企業
FORMOSA PLASTICS GROUP

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History of Development

Formosa Plastics Corporation was founded in 1954. At start-up in 1957, its plant produced 4 MT/day of polyvinyl chloride (PVC) resin, the smallest PVC plant in the world at that time. With such a small production volume, product costs were comparatively high. Due to the lack of a local downstream industrial base, sales remained stagnant, resulting in the stockpiling of finished goods. To ameliorate this situation, it was decided to increase production volume in order to lower unit costs. Simultaneously, manufacturing plants were founded to consume PVC resins, and the export of products was thus promoted.



In the 1957, the ox-towing carts were used to transport the PVC resins to Kaohsiung Port for exporting to other countries.

PVC production volume went up from 4 MT/day to 40 MT/day. At the same time, plans were made to construct downstream processing facilities to help consume the PVC resins. Nan Ya Plastics Corporation was set up in 1958 to produce secondary products such as PVC pipes, PVC film, and PVC leather. Soon afterwards, the New Eastern Corporation was formed to help consume Nan Ya's products by making such tertiary products as handbags, luggage, shoes, curtains, raincoats, and inflatables for the export market. The strategy was enormously successful in solving the problem of slow sales of PVC resins. With the following expansions of Formosa Plastics Group and the encouragement of the founding of new businesses by ex-employees of New Eastern Corporation, an incomparably lucrative tertiary processing industry was created. This led to the prosperous



The first plant of the fledgling Formosa Plastics Group - the old Kaohsiung factory

development of the local petrochemical industry and contributed significantly to the economic development of Taiwan.

Since it has established a solid base its plastic material and manufacturing, the Formosa Plastics Group started to operate diversified industries. In 1965 it set up Formosa Chemicals and Fibre Corporation (FCFC) to produce rayon staple fiber, yarn, fabric, and garments from wood materials left on the mountains after lumbering. Nan Ya expanded in 1968, setting up plants to produce polyester staple fibre. The same year Formosa Plastics Corporation (FPC) set up plants to produce acrylic fiber. In 1974, FCFC added nylon filament and fabric to its product lines. To offer better service to downstream customers, large-scale dyeing and finishing plants were set up to add to the value of the textile products. The companies were the only ones in Taiwan that produced four kinds of fibers and offered finishing and dyeing services. The Formosa Plastics Group had become one of the largest fiber producers in the world.

In view of the rapid development of the electronics and information industries in Taiwan, and with major components greatly relying on imports, Nan Ya began investing in 1984 in the manufacture of printed circuit boards and copper-clad laminates as the first step in participating in the electronics industry. NanYa had been in the petrochemical, plastic, and fiber textile industries for a long time and was unfamiliar with the

electronics and information technology industries. However, the printed circuit board was still recognized as the most basic component of the electronics and information technology industries as well as having a long product life and few variations, and thus was selected for market entry and production. The key to success would lie in the control of quality, manufacturing processes and costs, which all involve management expertise on the part of the Group. Through ongoing involvement in the industry, the Group became familiar with business operations of the electronics and information technology industries and sought future expansions accordingly. After more than 10 years of assiduous efforts, the Group established a successful vertically-integrated production of electronics raw materials and implemented further investments in upstream key components such as dynamic random access memory chips (DRAMs) and wafers. This move significantly contributed to the self-sufficiency of the nation's electronics and information industries.



Nan Ya Plastics set up a PCB plant in 1984, the first step FPG took to cross into the electronics industry.

manufacturing operations. This achievement, as well as the continuous output from petrochemical related factories of affiliated companies, has realized the value of vertical integration of the No. 6 Naphtha Cracking Project and has advanced the operational abilities of the Group.

With over 50 years of development, the Formosa Plastics Group is now one of the largest private enterprises in Taiwan. The Group includes Formosa Plastics Corporation, Nan Ya Plastics Corporation, Formosa Chemicals & Fibre Corporation, Formosa Petrochemical Corporation, Formosa Ha Tinh Steel Corporation, and more than 100 other investments in Taiwan, the United States, China, Vietnam, Philippine, and Indonesia, in addition to several large educational and medical organizations.



An evening view of the No. 6 Naphtha Cracking Project

Observing Taiwan's chronic shortage of upstream petrochemical materials, in 1973 the Formosa Plastics Group proposed the Naphtha Cracking Project. Following several rejections by the government, final approval was obtained in 1986 to build the No. 6 Naphtha Cracking Project. In coordination with this giant undertaking, Formosa Petrochemical Corporation was founded in 1992 to take charge of the construction of the oil refinery, naphtha cracking plant and co-generation plant. All three plants have since been completed and begun



FPC USA

Organization and Operational Structure

To pursue the rationalization of management, the Group Administration Office, functioning as a professional staff and service unit, was set up to coordinate resources and perform the cooperative function in the Group. In addition to pursuing management implementation and improvement, the Office is also in charge of group-wide strategy, computerized management systems, business auditing, material procurement, financing, engineering construction, legal affairs and public relations. Each group company maintains a President's Office, each division a Vice President's Office and each plant a Plant Manager's Office, constituting a complete vertical line of staff organization. In addition, each company has its own accounting, administration, warehousing and shipping, technical and labor safety and health departments.

To improve efficiency, the following concepts have been implemented:

1. Division System: To prevent the growth of the Companies from hampering the efficiency of operations, the Group realized the division system to correspond to the principles of producing and marketing unification, as well as responsible operation. The Group is composed of several divisions, with the purpose of arranging its own sales and production operations and set its own targets according to the needs of its organization, manufacturing processes, and product lines. In addition, the profit center concept is implemented throughout. Each center is grouped by plant or by product, with independent profit and loss statements. Through comparative analysis of financial reports, costs and revenues, areas for improvement can be easily identified for further operational rationalization.





FPG uses "Unit Cost Analysis," carrying out a detailed analysis of the costs of each product, to achieve the best possible costs and efficiency.

2. Management by Objective: To ascertain the effectiveness of each department, we place great importance on the management of costs and performance. By analyzing the difference between the objective and actual performance, we can identify issues causing the gap, organize improvement measures and achieve the goals of cost control and financial performance. The key lies in the unit cost analysis, whereby each element in product cost is deeply analyzed and cost objectives established. Improvement is achieved by finding solutions to the difference between actual costs and objective costs. Once an improvement is implemented, a new objective cost is set, leading to the most rational cost structure possible.

3. Individual Performance Reward System:

To rationalize rewards for employees' efforts and to make them feel that they are integral to the Company's success, we implement an Individual Performance Reward System for all levels of employees. Bonuses are given as a reward to an employee' in proportion to performance. At the same time, performance is also used as a factor in each employee's annual evaluation. This system is designed to promote employees' work quality and production efficiency.

To achieve continual development and growth, the Formosa Plastics Group has diversified into many businesses. In addition to efforts in research and development for providing products at reasonable prices, all facets of management activities such as procurement, production, sales, engineering, personnel, finance, performance evaluation, and hospital management have been computerized. We realize that only a sound management system can provide a company with a firm foundation for long-term growth.



To rationalize management and pursue even greater operational efficiency, all of FPG's management systems are completely computerized.

Major Businesses in Taiwan

In addition to Formosa Plastics Corporation, Nan Ya Plastics Corporation, Formosa Chemicals & Fibre Corporation and Formosa Petrochemical Corporation, the Formosa Plastics Group in Taiwan includes more than 40 other companies, including Formosa Heavy Industries Corporation, Formosa Sumco Technology Corporation, Nanya Technology Corporation, Nan Ya PCB Corporation, Nan Ya Photonics Incorporation, Formosa Biomedical Technology Corporation. We are engaged in such businesses as oil refining, petrochemicals, plastic raw materials, secondary processing of plastics, fiber and textile, electronic materials, machinery, and transportation.

Oil Refining, Petrochemicals and Plastic Raw Materials

At present, Formosa Petrochemical Corporation runs Taiwan's only privately owned oil refinery and naphtha cracking plant. In September 2000, gaso-

line and diesel produced in the refinery began to be sold in gas stations across Taiwan, marking FPC's formal entry into the gasoline market. By December 2011, the company had already taken a 23.4% share of that market.

Construction of Formosa Petrochemical's No.1 and No.2 naphtha cracking plants were completed in 1999 and 2000 respectively. Plant No.3 was been completed in 2007; Formosa Petrochemical's total ethylene production capacity currently stands at 2.9 million tones per year.

At present, the Formosa Plastics Group's total annual PVC resin capacity has reached 3.18 million metric tons, ranking it one of the largest PVC producer in the world.

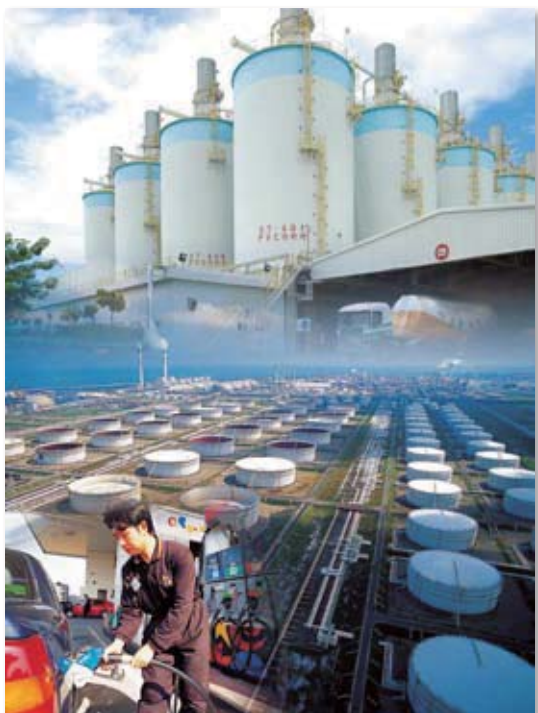
Nan Ya Plastics produces PVC pipes, PVC leather and film, etc. It is the world's largest secondary plastics processor.

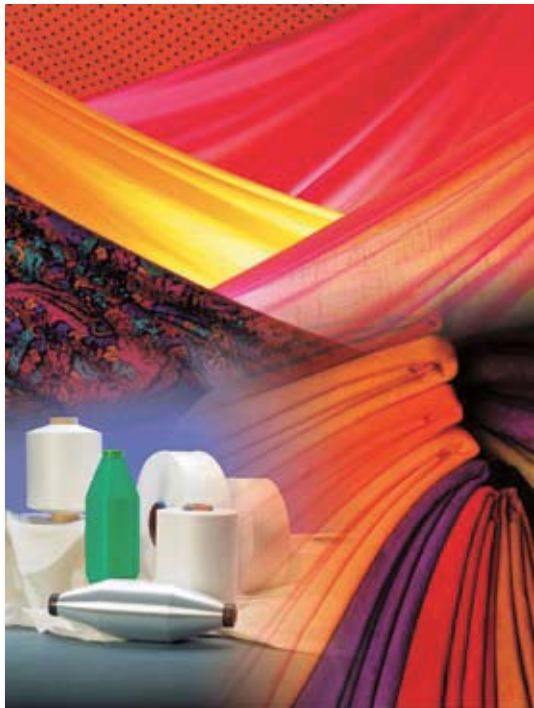
Aside from ethylene, propylene, PVC resin and plastic processing, we also produce dozens of petrochemical intermediate materials, including liquid caustic soda, VCM, EDC, MBS, POM, LiPF₆, NF₃, HDPE, LDPE, EVA, LLDPE, PP, AN, MMA, MAA, ECH, MTBE, B-1, DEHP, AE, NBA, ABS, PS, PC, PTA, PTMG and SM. Each of these products enjoys a leading position in its respective market.

Fibers, textiles and carpets

At present, FPG produces seven types of fibers: polyester, acrylic, nylon, rayon, carbon, fiberglass and spandex. Production output is among the world's highest for most of these fibers.

FPG has also become one of the largest textile and dyeing producers in Taiwan, producing different kinds of greige yarn, dyed yarn, greige fabric and dyed fabric.





The carpet factory is currently the largest single-product business in Asia. With over 70% of its raw materials are supplied by subsidiaries within the Group, the factory possesses a self-production system from raw materials to products and is equipped with the most up-to-date computer-controlled embroidering and dye-transfer systems. It

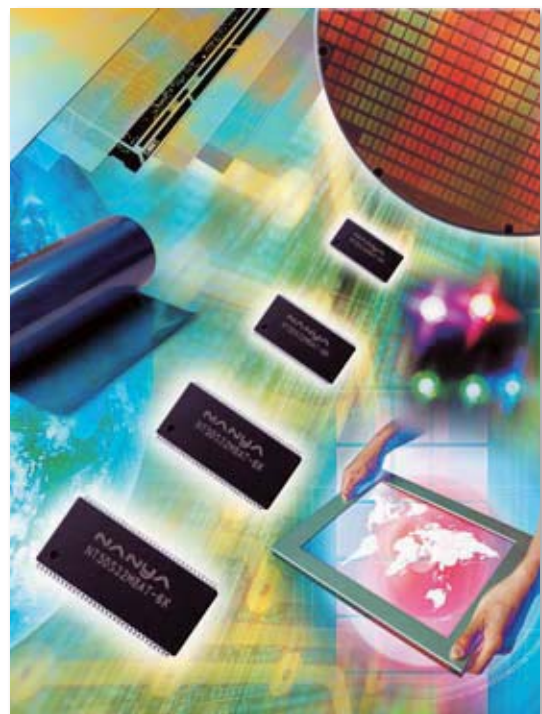
has the capability to produce finely-patterned jacquard woven carpet tiles, broadloom and artificial turf. These products have been received with positive customer acceptance world-wide.



Electronic Materials

FPG has established a vertically integrated production system ranging from printed circuit boards, copper-clad laminates to upstream products such as epoxy resin, bisphenol-A, copper foil, glass fiber cloth and yarn.

Meanwhile, the Group has made additional investments to manufacture basic computer components such as DRAMs, wafers and LEDs. Completion of these projects will further enhance the self-sufficiency of Taiwan's computer and information systems industries.



Major Businesses in Taiwan

Machinery Products

As the largest machinery shop in Taiwan, FPG's products and services include co-generation power plant, automated warehousing systems, refinery and petrochemical equipments, heavy load transportation and installation, gear reducers and large precision gears, industrial rollers, linings, metal roll electroplating and electropolishing.



Transportation

Formosa Fairway Corporation, Formosa Plastics Transport Corporation, Formosa Petrochemical Transpotation Corporation, and Su Hua Transport Corporation operate in Taiwan. In 1981, we established the first chemical tanker fleet in Taiwan. This fleet was expanded to meet the needs of transportation of mass amounts of raw materials to and from the No. 6 Naphtha Cracking Project, such as oil products, petrochemical materials, and coal for the group's power plant. It currently forms a huge self-owned fleet of 70 ships, including 21 highly advanced chemical tankers, 8 oil product tankers, 10 crude oil tankers (ranging from 280,000 to 300,000 tonnes), 21 cargo carriers (ranging from 37,000 to 205,000 tonnes), 2 LPG ships, 7 container ships and a sand suction ship.



No. 6 Naphtha Cracking Project

A land expansion project that will
elevate national competitiveness.



No. 6 Naphtha Cracking Project



Total reclaimed area 2,255 hectares Total Investment US\$17.7 billion

As noted earlier, to alleviate Taiwan's long-term shortage of basic petrochemical materials that hindered the development of midstream and downstream petrochemical industries, Formosa Plastics Group proposed the No. 6 Naphtha Cracking Project for several times, beginning in 1973. It was eventually approved in 1986, resulting in the No. 6 Naphtha Cracking Project that we see today.

Site selection was the first issue faced after project approval. The first site selected for the project was a 280-hectare property in Lizi, Yilan. Due to environmental objections at that site, another site in Guanyin, Taoyuan was selected in 1988. Similar reasons then drove subsequent site selections at AuKu, ChiaYi and TaiShi, Yunlin. In 1991, after resolving a couple of problems and changes, a final selection was made to locate the project at Mailiao, Yunlin.

The Mailiao Zone and the Haifong Zone of the project were established at the estuary of Chuoshui Creek at the northern end of Yunlin County, with the total length of 8 kilometers from south to north, and extension 4 kilometers out from the

coastline, with most of the land below the sea level. The Cracking Project required massive land reclamation efforts to improve the geographical character and to shore up the foundation for plant construction, eventually creating 2,255 hectares of new land with the waterway segregated from the fishery farms along the coast.

Mailiao is located in a region that is commonly dubbed "head of the windstorm and end of the waterfowl," with the northeast monsoon blowing half of the year. Inconvenient transportation and poor weather made the reclamation work doubly formidable.

The Project includes: oil refinery plants with capacity to refine 25 million tons of crude oil annually, naphtha cracking plants for producing 2.94 million tons ethylene per year, and other petrochemical plants, heavy machinery plants, a co-generation plant and the Mailiao Industrial Harbor. A thermal power plant has been connected into the Taiwan Power Company (TPC) electrical grid to help alleviate the serious power shortage in Taiwan.

The total investment of the four phases of the No. 6 Naphtha Cracking Project (including the

industrial harbor and the power plant) is US\$17.7 billion. All 54 plants that comprise the Project have been completed and have begun production.

With the completion of the Project, Taiwan's ethylene self-sufficiency was raised to over 90.2% in 2011 from 38% in 1994, and the annual increment on production values has reached US\$50.8 billion. The Project has increased the country's GDP by 9.2% and government annual tax revenues by over US\$693 million.

Due to successful advanced planning, the Project has efficiently reduced operating costs through its integration with the power generation unit, industrial harbor and other facility infrastructure systems. Further, integration with upstream and downstream petrochemical raw materials and products in the Project have reduced transportation costs and secured a stable supply of raw and intermediate materials.

The fifty four plants that comprise the Project are briefly described below:

1. Civil Works

- **Land reclamation** : 109.15 million cubic meters of sand were poured to create land, sufficient in volume to construct a three story tall, eight-lane wide building along the 373 km-long stretch of freeway from Keelung to Kaohsiung. The total area of reclaimed land is 2,255 hectares, about 8% the size of Taipei City (27,180 hectares) and 14.7% the size of Kaohsiung City (15,359 hectares), or equal to 0.062% of Taiwan's land area.
- **Engineering foundation** : The total length of piles driven amounted to 4.5 million meters and the total amount of concrete used reached 8.48 million cubic meters (approximately 1.72 million tons).
- **Plant construction** : Fifty four plants were built within a single complex, including oil refineries, naphtha cracking plants, co-generation plants, power plants, heavy machinery plants, boiler plants, wafer fabrication plants and petrochemical-related plants. Piping inside the plant area alone extends for 3,000 km.

- **Complex area** : The area of the entire complex totals 2,603 hectares, more than four times the total of the Linyuan (388 ha), Dashe (115 ha), and Toufen (96 ha) petrochemical industrial zones.



Pipeline end of land reclamation



Land reclamation



No. 6 Naphtha Cracking Project



2. Mailiao Port

The Project's Mailiao Port occupies an area of 476 hectares, comparable to the size of Taichung Port (487 ha) and more spacious than Keelung Port (384 ha). With a water depth of 24 meters during mid-tide, the Port can accommodate 300,000 ton vessels. Therefore, it is Taiwan's deepest port and the first privately funded industrial port. The Mailiao Port has the ability to handle up to 70 million tons of cargo a year, second only to Kaohsiung Harbor. Although Mailiao Port was constructed for industrial purposes, its operations in Yunlin County incorporates the vast adjacent hinterland area into the port zone. Consequently, the access to convenient marine transportation promotes development of local industry.

3. Independent Power Plant

The Project includes a large thermal power plant equipped with three power generation units that each generate 600,000 kW of electricity, for a total generating capacity of 1.8 million kW. Since commercial operation of these units officially commenced in June 1999, September 1999 and September 2000, respectively, all electricity generated has been sold to the Taiwan Power Company and incorporated into the national power grid. This contribution has helped ease Taiwan's power shortage.





4. Oil Refinery

The oil refinery's capacity increased from 450,000 to 540,000 barrels/day upon the completion of the Phase IV expansion. Meanwhile, the naphtha capacity increased to 4 million tons/year, which is sufficient to supply for the entire Mailiao Complex. Other petroleum products, including gasoline, diesel, kerosene and Liquefied Petroleum Gas (LPG) are exported to overseas markets.

5. Naphtha Cracking Plant

There are three naphtha cracking plants (NCP). Upon the completion of the NCP1 de-bottlenecking project, ethylene capacity will increase from 0.45 million tons/year to 0.7 million tons/year; the NCP2 unit's ethylene capacity is 1 million tons/year. The NCP3 unit, with a capacity of 1.2 million ton/year, was completed in 2007, bringing the total combined ethylene capacity to 2.9 million tons/year.



6. Co-generation plant

The plant is designated to generate electricity, steam, and water for industrial use, as well as produce hyperpure water, nitrogen, oxygen, and compressed air for use by plants within the complex. The largest co-generation plant in Taiwan, it has 16 generation sets with a total capacity of 2.82 million kW. After supplying onsite manufacturing needs, excess electricity is sold to Taiwan Power Company to ease Taiwan's power shortage.

7. Machinery Shop and Boiler Shop

The machinery shop primarily engages in the design, manufacture, installation, and construction of oil refining and petrochemical process equipment such as reactors, towers, pressure containers, earth covered tanks, etc. It has the capability of producing very large vessels – up to 10 meters in diameter, 100 meters in length and 1,000 tons in weight. During the project, the shop participated in the planning, design, manufacture, installation, and construction of the 50-150 MW co-generation power plant and the 600 MW independent power plant. Today, it produces large vessels for external commercial sale.



No. 6 Naphtha Cracking Project



8. Wafer Fabrication Plant

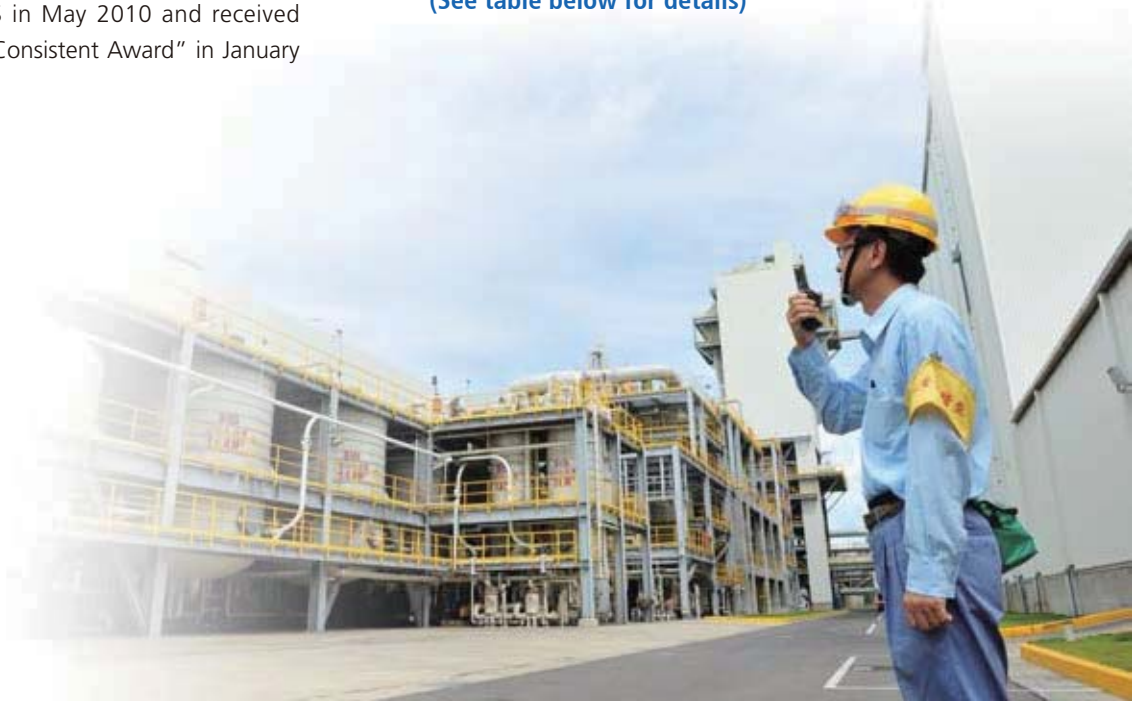
This wafer plant is a joint venture owned by Formosa Plastics, Asia-Pacific Investment and Japan's SUMCO TECHXIV CORPORATION for the production of silicon wafers used in semiconductor, with an annual capacity of 3.84 million pieces for 8-inch and 2.4 million pieces for 12-inch, planning to expand 12-inch annual capacity to 3.6 million in 1Q 2013. The plant was qualified by ISO-9001:2000 in December 2002, ISO-14001 in March 2001, QS9000 in March 2003, and TS16949/OHSAS18001 in April 2005. In December 2006, the plant further received the "TPM Excellence Award" from Japan Institute of Plant Maintenance (JIPM) and in August 2007 it also received the "Golden Merchant Award." Furthermore, the plant was qualified by TOSHMS in May 2010 and received the "TPM Excellence Consistent Award" in January 2012.

9. Formosa Asahi Spandex Co, Ltd.

Formosa Asahi Spandex Co. Ltd., with an annual capacity of 5,600 MT for spandex and 21,000 MT for polytetramethylene ether glycol (PTMG), is a joint venture between Formosa Plastics and Asahi Kasei Fibers of Japan. The plant was qualified by ISO-14001:2004 certification in November 2009, OHSAS 18001:2007 in November 2009, and ISO-9001:2008 in September 2010.



10. No. 6 Naphtha Cracking Project Investment Items (See table below for details)



No. 6 Naphtha Cracking Project Investments

Investing Company	Item	Factory	Product	Capacity (10000 MT/yr unless otherwise noted)
Formosa Plastics Corp.	1	Acrylic Acid & Ester plant	AA/AE	10.8/15.4
	2	Polyvinyl Chloride plant	PVC	49.4
	3	Vinyl Chloride Monomer plant	VCM	80
	4	Caustic Soda plant	Caustic Soda	123
	5	High Density Polyethylene plant	HDPE	35
	6	Carbon Fiber plant	Carbon Fiber	0.88
	7	Ethylene-Vinyl Acetate plant	EVA/LDPE	24
	8	Acrylonitrile plant	AN	28
	9	Linear Low Density Polyethylene plant	LLDPE	26.4
	10	Methyl Methacrylate plant	MMA	9.8
	11	C4 plant	MTBE/B-1	17.4/3.2
	12	Epichlorohydrin plant	ECH	10
	13	NBA plant	NBA	25
Nan Ya Plastics Corp.	1	Plasticizer plant	DEHP	35
	2	Epoxy Resin	EPOXY	16
	3	Propionic Anhydride plant	PA	22.8
	4	Isooctanol plant	2EH	20
	5	Bisphenol A factory	BPA	42
	6	Ethylene Glycol plants	EG	132
	7	Hydrogen Peroxide plant	ESO/H ₂ O ₂	2/2
	8	1,4-Butylene Glycol plant	1,4BG	10
	9	Iso-nonyl Alcohol plant	INA	11.5
	10	Antioxidant plant	AO/CPE	0.3/1
Formosa Chemicals & Fibre Corp.	1	Aromatic Hydrocarbon plants	BZ/PX/OX/MX/TOL	133/178/48/10/2
	2	Styrene Monomer plant	SM	132
	3	Purified Terphthalic Acid plant	PTA	110
	4	Phenol Synthesis plant	PHENOL/ACETONE	44/27.1
	5	Polypropylene	PP	51
	6	PABS	PS/ABS/PBT	18/14/3
	7	Polycarbonate plant	PC	20
Formosa BP Chemicals Corp.	1	Acetic Acid Plant	HAC	30
Formosa Petrochemical Corp.	1	Refinery plant	Naphtha, gasoline, diesel	2,500(Refinery)
	2	Naphtha Cracking plant	Ethylene	293.5
	3	Utilities Supply plant	Steam	11,580 T/H
			Electricity	2,820MW
Mailiao Power Corp.	1	Power station	Electricity	600MW X 3
Formosa Heavy Industries Corp.	1	Equipment for Machinery Shop	Equipment for refinery, petrochemical plants	4.3
	2	Boiler Shop	Equipment for CO- generation and utility power plants	500T/H X 4ST
Formosa Sumco Technology Corp.	1	Wafer fabrication plant	8-inch wafers 12-inch wafers	3.84 million pcs. 2.4 million pcs.
Formosa Asahi Spandex Co.	1	Spandex plant	SPANDEX/PTMG	0.6/2.1
Nan Chung Petrochemical Corp.	1	Ethylene Glycol plants	EG	30
Simosa Oil Co, Ltd.	1	Asphalt plant	Asphalt	30

Environmental Protection Advocacy

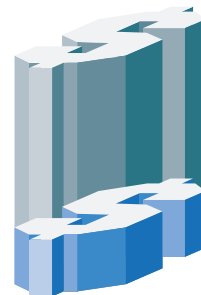
To reinforce environmental protection, FPG established a Safety Health & Environment Center to monitor and control the air, wastewater, waste, noise and ecological environment conditions. We adopted most advanced Best Available Control Technology (BACT) to reduce the negative impacts on the environment. The invested budget for pollution control and prevention is about US\$2.95 billion. The outcome is very significant; it not only surpasses our national official standards but also meets the standards of the most developed countries.

For example, in the thermal power plant we adopted sealed systems for coal transportation and storage to prevent the coal dust or ash blown out of the system to cause pollution. All of the emitted gas is subjected to various treatments, such as ventilated denitrification and desulfuration, static electricity dust collection, to ensure pollutants are eliminated. Also, we set up ten comprehensive

wastewater processing pools - before being discharged, all of the wastewater is treated in chemical and biological process units. In addition, the 6th Naphtha Project is the only petrochemical complex in Taiwan that can process its own waste. The complex has two incinerators that can process 150 tons of waste daily, a immobilization factory, a landfill site and an ash pond.

- **Investment in pollution prevention facilities (From phase 1 to phase 4 of project)**

Total Investment of No. 6 Naphtha Project
US\$17.7 billion



Spending on pollution prevention :
US\$2.95 billion



In Mailiao Factory of No. 6 Naphtha Cracking Project, the greenish Wang Chan-yung Memorial Park

Water and energy saving program at Mailiao Complex

In the wake of waster and energy resource constraints, FPG formed two task groups, "The Center For Water Resource Utilization And Development" and "The Project Team of Energy Saving and Carbon Reduction", to research for ways to improve water and energy conservation efforts. Both task groups have conducted several projects to reduce water consumption, including process water reduction and wastewater and rainwater recycling. On the energy front, the task groups have also worked to slow global warming and improve energy efficiency by improving heat recovery and developing alternative energy sources such as wind turbines.

Up to the end of 2011, FPG has conducted 1,459 energy saving projects at Mailiao Complex. It has reduced 6.47 million tons of CO₂ emissions, which is equivalent to 860 million trees' carbon uptaking for one year. In addition, 757 water saving projects have reduced 84.07 million tons of water consumption per year. This amount is equivalent to the water consumed by 921,000 people in one year.



Overseas Production

In 1978 we began investing in production capability in the United States to supply petrochemical materials to the North American marketplace. We selected the United States as the location for our overseas investments because the country possessed an excellent infrastructure and a well-educated workforce in addition to rich natural resources and well-established legal, political, and economic systems.

After years of effort, Formosa Plastics Corporation, U.S.A. (FPCUSA), Nan Ya Plastics Corporation USA (NPCUSA), and Nan Ya Plastics Corporation, America (NPCA) were established. In addition, we acquired Neumin Production Company. Presently, we own several large petrochemical plants, secondary and tertiary processing plants, and natural gas production wells.

FPCUSA has its headquarters in Livingston, New Jersey and three chemical manufacturing sites in Delaware City, Delaware, Baton Rouge, Louisiana and Point Comfort, Texas. It began by producing polyvinyl chloride (PVC) resin and its related products. To further vertically integrate our production, in 1990 we invested US\$ 1.9 billion to build our first olefins plant and eight related petrochemical intermediate plants. In 1994, we



successfully completed those facilities and added polypropylene and polyethylene resin products in our product lines. Following the completion of a second olefins' plant in early 2002, FPCUSA is now a major U.S. supplier of PVC, polypropylene, polyethylene and caustic soda.



Point Comfort Aerial.



Baton Rouge Aerial



Ningbuo Factory in China



Kunshan Factory in China

NPCUSA was founded in 1979 and produces PVC rigid film in Wharton, Texas and sheet molding composite (SMC) fiberglass doors in Houston, Texas.

NPCA was founded in 1989 and produces PVC flexible film, ethylene glycol and polyester fiber in Batchelor, Louisiana, Point Comfort, Texas, and Lake City, South Carolina, respectively.

After the 1980s, China gradually opened itself to the global market and developed a strong 'magnetic effect' due to its low-cost labor and broad import market to attract investments from countries all over the world. We perceived the trend and invested in China after 1994, starting with Nan Ya's downstream manufacturing facility. To meet market demands for materials and complete the vertical self-supply stream production, in 2001 we established a petrochemical special district in Ningbuo City of Zhejiang Province.

Currently, FPG has over ten manufacturing bases spread across Guangzhou, Xiamen, Nantong, Kunshan, and Ningbuo, with investments and businesses ranging from primary petrochemical materials and secondary plastics processing to electronic materials, heavy machinery and power generation.

In 2001 FPG established facilities in Vietnam to address the business difficulty of high production costs in Taiwan. We currently operate plants that produce polyester textile and fiber, power generation, BOPP, Nylon-6 chips and Nylon-6 filament. We expect this to be our textile and fiber production center in Asia. In view of rapid economic growth and infrastructure development of ASEAN in recent years, the Formosa Plastics Group decided to set up the steel plant, harbor and power plants in Vung Ang economic zone Ha Tinh Province of Vietnam. The steel plant is the largest steel plant in Southeast Asia. In July 2008 a groundbreaking ceremony was held and it is scheduled to operate in 2015. This project is the largest investment and will have great contribution for the economic development in Vietnam.



Formosa Ha Tinh Steel Corporation

Education and Medical Care

Aiming to “take from the society and use it for the society”, FPG established several medical and educational nonprofit organizations. Chang Gung Memorial Hospital was founded in 1976 when Taiwan was in dire need of quality medical facilities. At the time, there were only 19 medical beds for every 10,000 persons, far less than the 40 beds per 10,000 people standard in modernized nations. To address the problem, we built big hospitals in Taipei, Linkou, Keelung, Kaohsiung, Taoyuan, Chiayi and Yunlin. At present, Chang Gung treats 28,000 outpatients daily and has 9,000 beds available for inpatients. It is one of the largest, best equipped and best performing general hospitals in the Far East.

To provide children with more professional medical care, Chang Gung Memorial Hospital established a major childcare medical center in Linkou and Kaohsiung in 1993 and 1994, respectively, with a total capacity of 800 inpatient beds. To attain the best efficiency for the use of medical resources, we founded a nursing home in early 2001 and established the Taoyuan Branch for both acute and chronic medical care in December of 2003. This branch targets chronic medical and long-term nursing services and provides patients with complete medical treatments.

While the population of people over 65 years old now exceeds 10.6% of Taiwan’s total population, we opened a health culture village in January 2005 to provide; it is an ideal community where older people can spend the rest of their lives. Furthermore, to promote traditional medicine



With 9,000 beds available for inpatients, it is one of the largest, best equipped, and best-performed general hospitals in the Far East.

by combining it with the modern, scientific techniques and approaches of western medicine, we established the first Chinese medicine center in Taiwan. To optimize our medical services further, we also established a cancer center to provide a critical-disease-based specialist medical service.

To address an insufficiency of medical resources in the Yunlin and Chiayi areas, our Chiayi Branch started services by the end of 2001. It is the first hospital in Taiwan to apply full electronic medical records; it won the National Biomedical Technology Quality Award in 2003. Our Yunlin Branch opened in December 2009, aiming to provide medical services to a greater number of patients.

A special fund was set up to subsidize low-income and handicapped patients with medical expenses. In 2010, our subsidy exceeded US\$ 18.88 million.

Chang Gung Memorial Hospital has paid great attention to both clinical and basic medical research since the beginning. Based on established systems in research resources, we continuously devote our resources in recruiting potential scholars and physicians to set up branch research centers and laboratories in diverse specialty fields. The research centers include Animal Molecular Image Center, Kidney Research Center, Molecular Infectious Diseases Research Center, Neuroscience Research Center, Gynecologic Cancer Research Center, and Liver Research Center; laboratories include Microscopy Core Laboratory, Clinical Proteomics Core Laboratory, Genomic Medicine Research Core Laboratory, DNA Sequencing Core Laboratory, and Resource Center for Clinical Research. These



Chang Gung Cultural and Health Promotion Village

facilities provide highly qualified resources and produce excellent achievements.

In 2010, Chang Gung Memorial Hospital invested US\$87.88 million in 2092 intra-funds and published 1,210 SCI-qualified papers. The research results and published manuscripts contribute greatly to the advancement of medical research.

Chang Gung University was established in April 1987 as Chang Gung Medical College. The school expanded and changed its name to Chang Gung Medical and Engineering College and subsequently to Chang Gung University in August 1997. Following the technological advancement and medical progress, we invite specialists from Taiwan and abroad to join the faculty and augment our facilities to strengthen our teaching and research abilities. To support the need to develop national medical, engineering and management talents, it has launched various internship programs with both Chang Gung Memorial Hospital and FPG affiliates, developing a solid reputation over the years.



Chang Gung University realizes its stringent attitudes on education, and has won the distinguished credit for several years in evaluation held by Ministry of Education, as one of top rating among private schools.

Chang Gung University has been recognized for its stringent academic standards and performance. Several times it has been awarded the Ministry of Education's "Distinguished Credit", a top rating among private schools.

Presently, the university has schools in medicine, engineering, and management, and around 3 dozens of departments and graduate institutes. Our faculty and students observe the school motto of "diligence, perseverance, frugality,

and trustworthiness' and carry out the principle of "integrating theory and practice". Under the full support of the board of directors, the university is well-funded and well-staffed, provided with adequate and state-of-the-art facilities. It is designed with a quiet and pleasant campus environment and truly stands out by providing a fine, high quality education.

Ming Chi University of Technology was founded in 1963 as Ming Chi Institute of Technology, upgraded in July 1999, and then approved for further transformation into a university in August 2004. Presently, the university has colleges of Engineering, Environment and Resources, and Management & Design, with a total of ten departments and eleven graduate institutes to cultivate higher level industrial talents. In order to carry out the university founder's kindness to concern about disadvantaged groups, aboriginal undergraduate students are exempt from paying the tuition and fees and their dormitory fees, cafeteria meal fees and book expenses are subsidized. The university also offers continuing education for on-the-job professionals. With exceptional operational performance, Ming Chi has been rated as one of the best universities of technology in Taiwan.

Group founder Wang established the Chang Gung Institute of Nursing in 1988 to increase the number and the quality of nursing personnel. The institute initially offered two-year and five-year clinical nursing courses to provide education and training for clinical nursing personnel. Subsequently, it added two-year courses on childcare education and information management. Since 1995, the institute has offered free tuition to five-year nursing students of aboriginal background to provide them with education and employment opportunities. To enhance the level of vocational education, in 2002 the institute was restructured into the Chang Gung Institute of Technology (CGIT). In August 2011, CGIT transitioned to Chang Gung University of Science and Technology (CGUST). Presently, the university has two colleges: Nursing and Human Ecology, one graduate school, seven departments, one division and two post-baccalaureate program.

Major Products and Sales Departments

PETROLEUM PRODUCTS

Product	Capacity (MT/Y)	Company	Division	Tel	FAX
Naphtha	4,000,000MT	FPCC	Refinery Div.	02-27122211	02-27175288
Gasoline	6,000,000KL	FPCC	International Trading Dept.	02-27122211#7240	02-27189001
Diesel	10,000,000KL	FPCC	International Trading Dept.	02-27122211#7235	02-27189001
Aviation fuel/kerosene	2,300,000KL	FPCC	International Trading Dept.	02-27122211#7235	02-27189001
Fuel Oil	1,030,000KL	FPCC	International Trading Dept.	02-27122211#7241	02-27189001
LPG	730,000MT	FPCC	International Trading Dept.	02-27122211#7240	02-27189001
Lube Base Oil	650,000MT	FPCC	Base Oil & White Oil Business	02-27122211#7370	02-27181483
Food Grade White Oil	50,000MT	FPCC	Base Oil & White Oil Business	02-27122211#7374	02-27181483

PETROCHEMICALS & CHEMICAL PRODUCTS

Product	Capacity (MT/Y)	Company	Division	Tel	FAX
PVC Resin	1,301,000	FPC	Plastics Div.	02-27175880	02-27137012
VCM	1,580,000	FPC	Plastics Div.	02-27178123	02-27135423
Caustic Soda (liquid)	1,600,000	FPC	Plastics Div.	02-27178129	02-27137012
Caustic Soda (flake)	50,000	FPC	Plastics Div.	02-27178129	02-27137012
Micro Prills Caustic Soda	100,000	FPC	Plastics Div.	02-27178129	02-27137012
Chlorine	366,700	FPC	Plastics Div.	02-27178129	02-27137012
Hydrochloric Acid	126,700	FPC	Plastics Div.	02-27178129	02-27137012
MBS	19,700	FPC	Plastics Div.	02-27178130	02-27137012
Chlorosolvents	48,900	FPC	Plastics Div.	02-27178131	02-27137012
Processing Aids	25,000	FPC	Plastics Div.	02-27178130	02-27137012
LiPF ₆	200	FPC	Plastics Div.	02-27178546	02-27137012
NF ₃	400	FPC	Plastics Div.	02-27178546	02-27137012
HDPE	566,000	FPC	Polyolefin Div.	02-27178141	02-27178176
EVA/LDPE	240,000	FPC	Polyolefin Div.	02-27178141	02-27178176
LLDPE	264,000	FPC	Polyolefin Div.	02-27178141	02-27178176
AA	159,000	FPC	Tairylan Div.	02-27122211#6101	02-27134818
NBA	250,000	FPC	Tairylan Div.	02-27122211#6194	02-27134818
SAP	45,000	FPC	Tairylan Div.	02-27122211#6107	02-27134818
AN	280,000	FPC	Chemicals Div.	02-27122211#7101	02-27178340
ACN	5,000	FPC	Chemicals Div.	02-27122211#7111	02-27178340
MMA	98,000	FPC	Chemicals Div.	02-27122211#7115	02-27178340
MAA	20,000	FPC	Chemicals Div.	02-27122211#7115	02-27178340
ECH	100,000	FPC	Chemicals Div.	02-27122211#7101	02-27178340
MTBE	174,000	FPC	Chemicals Div.	02-27122211#7101	02-27178340
B-1	32,000	FPC	Chemicals Div.	02-27122211#7111	02-27178340
Lime	250,400	FPC	Calcium Carbide Div.	02-27122211#6860	02-27193261
Calcium Carbonates	258,000	FPC	Calcium Carbide Div.	02-27122211#6860	02-27193261

Taical	14,400	FPC	Calcium Carbide Div.	02-27122211#6860	02-27193261
White masterbatch, Calcium carbonate masterbatch	27,420	FPC	Calcium Carbide Div.	02-27122211#6860	02-27193261
Light Master Batch	36,000	FPC	Calcium Carbide Div.	02-27122211#6860	02-27193261
PP	400,000	FPC	Polypropylene Div.	02-27133655	02-27181230
POM	45,000	FPC	Polypropylene Div.	02-27133655	02-27181230
PTMG	21,000	FASC	Business Div.	02-27122211#6794	02-27128718
BPA	420,000	Nan Ya	Petrochemicals 2nd Div.	02-27178244	02-27138248
1,4BG/THF	100,000	Nan Ya	Petrochemicals 2nd Div.	02-27178244	02-27138248
H ₂ O ₂	20,000	Nan Ya	Petrochemicals 2nd Div.	02-27178244	02-27138248
ESO	20,000	Nan Ya	Petrochemicals 2nd Div.	02-27178244	02-27138248
Plastic Stabilizer	12,000	Nan Ya	Petrochemicals 2nd Div.	02-27178244	02-27138248
Unsaturated Polyester Resin	24,000	Nan Ya	Plastics 3rd Div.	02-27178507	02-27198661
Plasticizers	350,000	Nan Ya	Petrochemicals 1st Div.	02-27178165	02-27178534
PA	228,000	Nan Ya	Petrochemicals 1st Div.	02-27178165	02-27178534
2EH	200,000	Nan Ya	Petrochemicals 1st Div.	02-27178273	02-27178534
INA	115,000	Nan Ya	Petrochemicals 1st Div.	02-27178273	02-27178534
AO	3,000	Nan Ya	Petrochemicals 1st Div.	02-27178273	02-27178534
CPE	10,000	Nan Ya	Petrochemicals 1st Div.	02-27178273	02-27178534
EG	1,320,000	Nan Ya	Petrochemicals 3rd Div.	02-27122211#6880	02-25475259
Benzene	1,330,000	FCFC	Petrochemicals 1st Div.	02-27122211#5561	02-27180358
PX	1,780,000	FCFC	Petrochemicals 1st Div.	02-27122211#5561	02-27180358
OX	480,000	FCFC	Petrochemicals 1st Div.	02-27122211#5561	02-27180358
MX	100,000	FCFC	Petrochemicals 1st Div.	02-27122211#5561	02-27180358
TOL	20,000	FCFC	Petrochemicals 1st Div.	02-27122211#5561	02-27180358
SM	1,320,000	FCFC	Petrochemicals 2nd Div.	02-27122211#5561	02-27180358
Phenol	440,000	FCFC	Petrochemicals 2nd Div.	02-27122211#5561	02-27180358
Acetone	271,000	FCFC	Petrochemicals 2nd Div.	02-27122211#5561	02-27180358
PTA	2,200,000	FCFC	Petrochemicals 3rd Div.	02-27122211#5580	02-25148198
PS	320,000	FCFC	Plastics Div.	02-27178405	02-27180358
ABS	410,000	FCFC	Plastics Div.	02-27178405	02-27180358
PP	510,000	FCFC	Plastics Div.	02-27178405	02-27180358
PC	200,000	FCFC	FIPC	02-27122211#6617	02-25473133
Anhydrous Sodium-Sulfate	104,600	FCFC	Rayon Div.	02-27178358	02-27175283
Sulphuric Acid	131,400	FCFC	Rayon Div.	02-27178358	02-27175283
Ethylene	2,935,000	FPCC	Olefin Div.	02-27122211#6762/6763/6764	02-87128789
Propylene	2,367,000	FPCC	Olefin Div.		
Butadiene	447,000	FPCC	Olefin Div.		
Electron-grade hydrofluoric acid	16,700	FDAC	Business Div.	02-27122211#7403	02-27129281
NH ₄ F	5,200	FDAC	Business Div.	02-27122211#7403	02-27129281
Buffer hydrofluoric acid	1,800	FDAC	Business Div.	02-27122211#7403	02-27129281
HAC	300,000	Formosa BP Chemicals Corp.	Business Div.	02-27122211#6576	02-27180053

Major Products and Sales Departments

PLASTICS

Product	Capacity (MT/Y)	Company	Division	Tel	FAX
HDPE Bag	10,000	FPC	Plastics Processing Dept.	02-27178113	02-27193262
Flexible PVC Film	103,200	Nan Ya	Plastics 1st Div.	02-27178202	02-27178532
Rigid PVC Film	38,400	Nan Ya	Plastics 1st Div.	02-27178214	02-27126113
Metallized Rigid PVC Film	6,600	Nan Ya	Plastics 1st Div.	02-27178214	02-27126113
A-PET Film	21,600	Nan Ya	Plastics 1st Div.	02-27178214	02-27126113
PP Synthetic Paper	26,400	Nan Ya	Plastics 1st Div.	02-27178509	02-27126113
Rigid PVC Pipe	175,000	Nan Ya	Plastic 3rd Div.	02-27178230	02-25140628
Extruded Products	28,000	Nan Ya	Plastic 3rd Div.	02-27178226	02-25140628
Injected Products	16,000	Nan Ya	Plastic 3rd Div.	02-27178230	02-25140628
PVC Plate	27,000	Nan Ya	Plastic 3rd Div.	02-27178226	02-25140628
Wrap Film	12,000	Nan Ya	Plastic 3rd Div.	02-27178233	02-27166899
PVC Tile	11,900,000m ²	Nan Ya	Plastic 3rd Div.	02-27178226	02-25140628
BOPP & CPP Film	96,000	Nan Ya	Plastic 3rd Div.	02-27178233	02-27166899
PVC Granule	60,000	Nan Ya	Plastic 3rd Div.	02-27178226	02-25140628
PU Leather	10.8 million yards	Nan Ya	Plastics 1st Div.	02-27178248	02-27178239
SMC (Sheet Molded Compound)	18,000	Nan Ya	Plastic 3rd Div.	02-27178507	02-27198661
Engineering Plastics	24,000	Nan Ya	Plastic 3rd Div.	02-27178507	02-27198661
Unsaturated Polyester Resin	30,000	Nan Ya	Plastic 3rd Div.	02-27178507	02-27198661
Vinyl Windows & Doors	12,400	Nan Ya	Plastics 2nd Div.	02-27178169	02-27178512
SMC Door	14,800	Nan Ya	Plastics 2nd Div.	02-27178169	02-27178512
Sound Absorber (AL,SMC)	1,000	Nan Ya	Plastics 2nd Div.	02-27178169	02-27178512

FIBER, TEXTILE AND DYEING

Product	Capacity	Company	Division	Tel	FAX
Carbon Fiber	8,750 MT	FPC	Tairylan Div.	02-27122211 #6192	02-27134818
Acrylic Staple Fiber, Tow & Top	63,000 MT	FPC	Tairylan Div.	02-27122211 #8554	02-27134818
Spandex	5,600 MT	FASC	Business Div.	02-27122211 #6795	02-27128718
Polyester Staple Fiber	134,700 MT	Nan Ya	Polyester Fiber Div.	02-27178324	02-25454065
Polyester Chips	564,600 MT	Nan Ya	Polyester Fiber Div.	02-27178324	02-25454065
Polyester Spin Drawn Yarn	78,500 MT	Nan Ya	Polyester Fiber Div.	02-27178324	02-25454065
Polyester POY	228,600 MT	Nan Ya	Polyester Fiber Div.	02-27178324	02-25454065
Polyester Textured Yarn	106,300 MT	Nan Ya	Polyester Fiber Div.	02-27178324	02-25454065
Polyester Dyed Yarn	7,200 MT	Nan Ya	Polyester Fiber Div.	02-27178324	02-25454065
SPP Chip	197,640 MT	Nan Ya	Polyester Fiber Div.	02-27178324	02-25454065
PET Film	72600MT	Nan Ya	Polyester Fiber Div.	02-27178333	02-25454065
Liquid Film	960MT	Nan Ya	Polyester Fiber Div.	02-27178333	02-25454065
Polyester Release Film	105,600KSM	Nan Ya	Polyester Fiber Div.	02-27178333	02-25454065
Polyester Woven Fabric	18,000KY	Nan Ya	Polyester Fiber Div.	02-27178346	02-27124448
Knitted Fabric	1,800MT	Nan Ya	Polyester Fiber Div.	02-27178346	02-27124448
Rayon Staple Fiber	145,265MT	FCFC	Rayon Div.	02-27178358	02-27175283

Blended Spun Yarn	68,000 bales	FCFC	Textile Div.	02-27178362	02-27175281
Spun Fabric	44,000 KY	FCFC	Textile Div.	02-27178365	02-27178544
Filament Fabric	21,000 KY	FCFC	Textile Div.	02-27178367	02-27178544
Nylon 6 Chip	213,000MT	FCFC	Nylon Div.	02-27178371	02-27175285
Nylon 6 Filament	110,800MT	FCFC	Nylon Div.	02-27178371	02-27175285
Nylon 6 Stretch Yarn	13,200MT	FCFC	Nylon Div.	02-27178371	02-27175285
Nylon 6 Filament for Industrial Use	60,360MT	FCFC	Nylon Div.	02-27178371	02-27175285
Carpet Roll	1,200,000 ping	FCFC Carpet Corp.	Business Div.	02-27178552	02-27182221
Carpet Tile	600,000 ping	FCFC Carpet Corp.	Business Div.	02-27178552	02-27182221

ELECTRONICS

Product	Capacity	Company	Division	Tel	FAX
Distributed Computer Control System	36 ST	FPC	Electronic Dept.	07-3711411#5163	07-3727026
Printed Circuit Board IC substrate	8.772 million sft	Nan Ya PCB	Sales Dept.	03-3223751#1058	03-3223802
Copper-clad Laminates	36 million sheets	Nan Ya	Electronic Materials Div.	02-27178504	02-27178260
Copper Foil	32,400 MT	Nan Ya	Electronic Materials Div.	02-27122211#5828	02-27182258
Epoxy Resin	220,000 MT	Nan Ya	Electronic Materials Div.	02-27178258	02-27182258
Glass Fiber Cloth for Electronic Use	288 million meters	Nan Ya	Electronic Materials Div.	02-27122211#5825	02-27182258
STN-LCD, Touch Panel	1,200,000 PCS	Nan Ya	Electronic Materials Div.	03-3223751#2717	03-3125803
Glass Yarn for Electronic Use	75,000 MT	PFG Fiber Glass Co.	Business Div.	02-27178502	02-27189468
Chopped Strand & Continuous Roving	15,000 MT	PFG Fiber Glass Co.	Business Div.	02-27178502	02-27189468
8 inch Wafer	3,840,000 PCS	Formosa Sumco Technology	Business Div.	02-27122211#6113	02-27178567
12 inch Wafer	2,400,000 PCS	Formosa Sumco Technology	Business Div.	02-27122211#6113	02-27178567
DRAM	660,000 PCS	Nanya Technology	Sales Div.	03-3281688#6031	03-3960997
LED EPI-Wafer	432,000sheets	Nan Ya Photonics, Inc.	Sales Div.	02-26806311 #5570,5569,5556	02-26809611
LED Chip	4,800 million pcs	Nan Ya Photonics, Inc.	Sales Div.	02-26806311 #5570,5569,5556	02-26809611
LED Lamp	4million pcs	Nan Ya Photonics, Inc.	Sales Div.	02-26806311 #5570,5569,5556	02-26809611

Major Products and Sales Departments

OTHERS

Product	Capacity	Company	Division	Tel	FAX
Switch Gear & Control Panel	7,700 ST	Nan Ya	Engineering Div.	02-27122211 #6329~6337	02-27198996
Gear Reducer	1,000 ST	Formosa Heavy Industries	Gear Div.	07-3738164	07-3721748
Large Precision Gear	4,000 PCS	Formosa Heavy Industries	Gear Div.	07-3738164	07-3721748
Petrochemical Process Equipment	43,200 MT	Formosa Heavy Industries	Machinery Div.	07-3711411#5276	07-3717476
Automatic Storage/ Retrieval System	15 ST	Formosa Heavy Industries	Automation Div.	07-3711411 #5902~5904 02-27122211 #6158,6159	07-3715148 02-27135519
Rubber Roller	6,000 PCS	Formosa Heavy Industries	Rubber Div.	07-3738165	07-3719801
Rubber and Flake Lining	10,000 m2	Formosa Heavy Industries	Rubber Div.	07-3738165	07-3719801
Hard Chrome Plating Hot Grinding, Polishing for Metal Roll	300 PCS	Formosa Heavy Industries	Rubber Div.	07-3738165	07-3719801
Cogeneration System and Power Generation Equipment	4 ST	Formosa Heavy Industries	Cogeneration Div.	07-3711411 #5891/5935	07-3721833
Cooling Tower	60 ST	Formosa Heavy Industries	Cogeneration Div.	05-6812130	05-6812576
Alkyl Benzene Sulphonic Acid	25,000MT/Y	Formosa Bio-medical Co.	Business 1st Div.	02-27122211#7813	02-27178381
Detergent Powder	66,000MT/Y	Formosa Bio-medical Co.	Business 1st Div.	02-27122211#7813	02-27178381
Detergent Liquid	8,520MT/Y	Formosa Bio-medical Co.	Business 1st Div.	02-27122211#7813	02-27178381
Personal Clean Products	1,980MT/Y	Formosa Biomedical Co.	Business 1st Div.	02-27122211#7813	02-27178381
Skin Care Products	1,163,148 PCS	Formosa Biomedical Co.	Business 2nd Div.	02-27122211#7807	02-27178381
Diagnostics	233 million set/ Y	Formosa Biomedical Co.	Business 3rd Div.	02-27122211#7828	02-27178381

MAJOR PRODUCTS OF US COMPANIES

Product	Capacity (MT/Y)	Company	Tel	Fax
PVC Resin	1,476,186	FPC-USA	973-992-2090	973-422-7724
VCM	1,365,327	FPC-USA	973-992-2090	973-422-7724
Caustic Soda	929,692	FPC-USA	973-992-2090	973-422-7723
Chlorine	823,649	FPC-USA	973-992-2090	973-422-7723
EDC	1,088,134	FPC-USA	973-992-2090	973-422-7723
Ethylene	1,620,630	FPC-USA	973-992-2090	973-716-7230
Propylene	742,112	FPC-USA	973-992-2090	973-716-7230
HDPE	733,466	FPC-USA	973-992-2090	973-422-7737
PP	828,722	FPC-USA	973-992-2090	973-422-7856
LLDPE	342,919	FPC-USA	973-992-2090	973-422-7737
EG	300,000	NPC-A	843-389-7800	843-389-6889
Fiber Grade Polyester Chip	108,000	NPC-A	843-389-7800	843-389-6889
Bottle Grade PET Chip	378,000	NPC-A	843-389-7800	843-389-6889
Polyester Staple Fiber	216,000	NPC-A	843-389-7800	843-389-6889
Partially Orientated Yarn	144,000	NPC-A	843-389-7800	843-389-6889
Polyester Spin Drawn Yarn	18,000	NPC-A	843-389-7800	843-389-6889
Polyester Textured Yarn	12,000	NPC-A	843-389-7800	843-389-6889
Flexible PVC Film	46,800	NPC-A	225-492-2141	225-492-2818
Rigid PVC Film	60,000	NPC-USA	281-727-7300	281-727-7309
SMC Door	36,000 Units	NPC-USA	713-674-7822	713-674-7823
Natural Gas	5,007,800 MMBTU	Neumin	361-987-8900	361-987-2283
Condensate	230,970 BBLS	Neumin	361-987-8900	361-987-2283
Oil	181,480 BBLS	Neumin	361-987-8900	361-987-2283
Ethane/Propane/Butane	1,642,500	FHC	361-987-8900	361-987-2283

Major Products and Sales Departments

MAJOR PRODUCTS OF CHINA COMPANIES

Product	Capacity	Company	Tel	FAX
PVC Resin	400,000	Formosa Industries (Ningbo)	574-86902999#3129	574-86902942
AA	160,000	Formosa Acrylic Esters (Ningbo)	574-86902999#3398	574-86902967
SAP	45,000	Formosa Super Absorbent Polymer (Ningbo)	574-86902999#3136	574-86902987
PP	450,000	Formosa Polypropylene (Ningbo)	574-86902999#2710	574-86902983
Flexible PVC Film	86,400	Nan Ya Plastics (Guangzhou)	020-36413900#2801	020-36415639
	42,000	Nan Ya Plastics (Nantong)	0513-85291811#111	0513-85291561
Flexible PVC Film for Building Material	19,200 KY	Nan Ya Kyowa Plastics (Nantong)	0513-85291811#260	0513-85285005
PVC Leather	21,600 KY	Nan Ya Plastics (Guangzhou)	020-36413900#2804	020-36415639
	32,400 KY	Nan Ya Plastics (Nantong)	0513-85291811#111	0513-85291903
PU Leather	19,200 KY	Nan Ya Synthetic Leather (Nantong)	0513-85291811#126	0513-85281869
	16,800 KY	Nan Ya Plastics (Huizhou)	0752-6926203	0752-6926214
PVC Casting	12,000 KY	Nan Ya Plastics (Huizhou)	0752-6926203	0752-6926214
Rigid PVC Film	67,200	Nan Ya Plastics Construction Materials (Nantong)	0513-85291811#611	0513-85291575
	67,200	Nan Ya Rigid Film (Guangzhou)	020-36413262	020-36413557
Metallized Rigid PVC Fill	4,800	Nan Ya Rigid Film (Guangzhou)	020-36413262	020-36413557
Engineering Plastics	14,400	Nan Ya Plastics (Huizhou)	0752-6926601#6210	0752-6926688
Unsaturated Polyester Resin	36,000	Nan Ya Plastics (Huizhou)	0752-6926601#6210	0752-6926688
Rigid PVC Pipe	37,800	Nan Ya Plastics (Xiamen)	0592-6510371#150	0592-6518907
	37,900	Hua Ya Wu Hu Plastic	0553-5841111	0553-5843939
	73,200	Hua Ya Dongying Plastic	0546-8305238	0546-8307178
	19,200	Nan Ya Plastics Construction Materials (Guangzhou)	020-36413900#5801	020-36416205
	25,740	Nan Ya Plastics (Zhengzhou)	0371-6777886	0371-6777889
	33,768	Nan Ya Plastics (Anshan)	0412-7200200#300	0412-2504888
PVC Fitting	12,000	Nan Ya Plastics (Xiamen)	0592-6510371#150	0592-6518907
PVC Film	15,000	Nan Ya Plastics Construction Materials (Nantong)	0513-85291811#291	0513-85281936
BOPP Film	26,400	Nan Ya Plastics Film (Nantong)	0513-85291811#640	0513-85281936
	30,000	Nan Ya Plastics Film (Huizhou)	0752-6926114#6850	0752-6926192
PVC Compound	24,000	Nan Ya Plastics Construction Materials (Guangzhou)	020-36413900#5801	020-36416205
Switchgear	3,500 ST	Nan Ya Electric (Nantong)	0513-85291811#669~673	0513-85291187

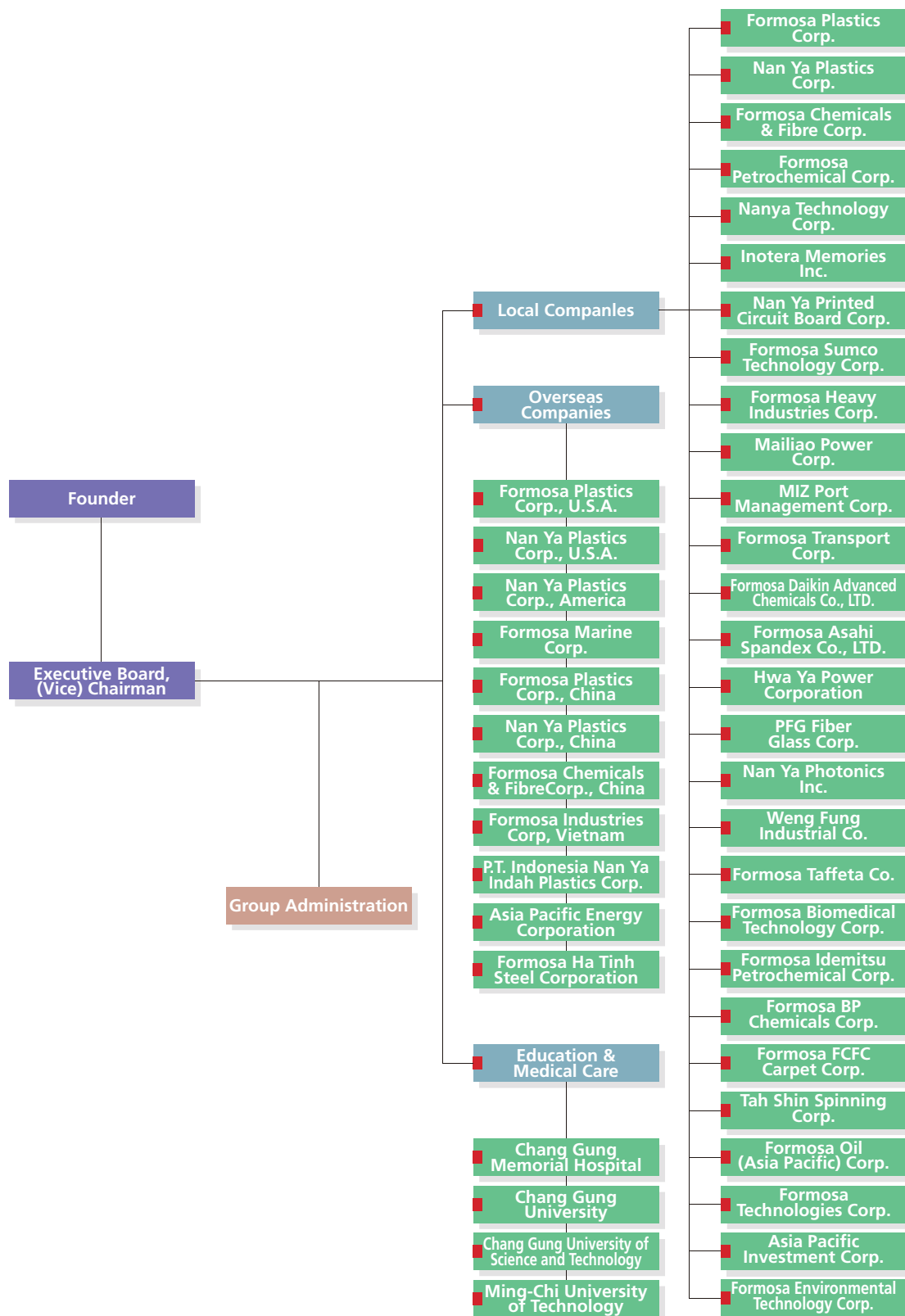
Major Products and Sales Departments

Copper Clad Laminates	37.2 million sheets	Nan Ya Electric Materials (Kunshan)	0512-57357080#3188	0512-57369018
	13.2 million sheets	Nan Ya Electric Materials (Huizhou)	0752-6926799	0752-6926777
Glass Fiber Cloth	276 million meter	Nan Ya Glass Fabrics (Kunshan)	0512-57357080#3333	0512-57369003
Epoxy Resin	238,200	Nan Ya Epoxy Resin (Kunshan)	0512-57357080#3410	0512-57378101
Copper Foil	36,000	Nan Ya Copper Foil (Kunshan)	0512-57357080#3288	0512-57357080#3266
Glass Yarn for Electronic Use	91,000	PFG Fiber Glass (Kunshan)	0512-57357080#3506	0512-57369016
Chopped Strand	15,000	PFG Fiber Glass (Kunshan)	0512-57357080#3506	0512-57369016
Printed Circuit Board, IC Substrate	22.044 million sft	Nan Ya Printed Circuit Board (Kunshan)	0512-57357080#5900	0512-57369002
Polyester Chips	216,000	Nan Ya Draw-Textured Yarn (KUNSHAN) CO., LTD.	0512-57723888	0512-57723883
Polyester POY	58,500	Nan Ya Draw-Textured Yarn (KUNSHAN) CO., LTD.	0512-57723888	0512-57723883
Polyester Spin Drawn Yarn	7,200	Nan Ya Draw-Textured Yarn (KUNSHAN) CO., LTD.	0512-57723888	0512-57723883
Polyester Textured Yarn	23,760	Nan Ya Draw-Textured Yarn (KUNSHAN) CO., LTD.	0512-57723888	0512-57723883
Polyester Dyed Yarn	3,360	Nan Ya Draw-Textured Yarn (KUNSHAN) CO., LTD.	0512-57723888	0512-57723883
Knitted Fabric	3,970	Nan Ya Draw-Textured Yarn (KUNSHAN) CO., LTD.	0512-57723888	0512-57723883
PTA	600,000	Formosa Chemical Industries (Ningbo)	86-574-86902999#2506	86-574-86902953
ABS	300,000	Formosa ABS Plastics (NINGBO)	86-574-86902999#2119	86-574-86902922
PS	200,000	Formosa PS (NINGBO)	86-574-86902999#2119	86-574-86902922

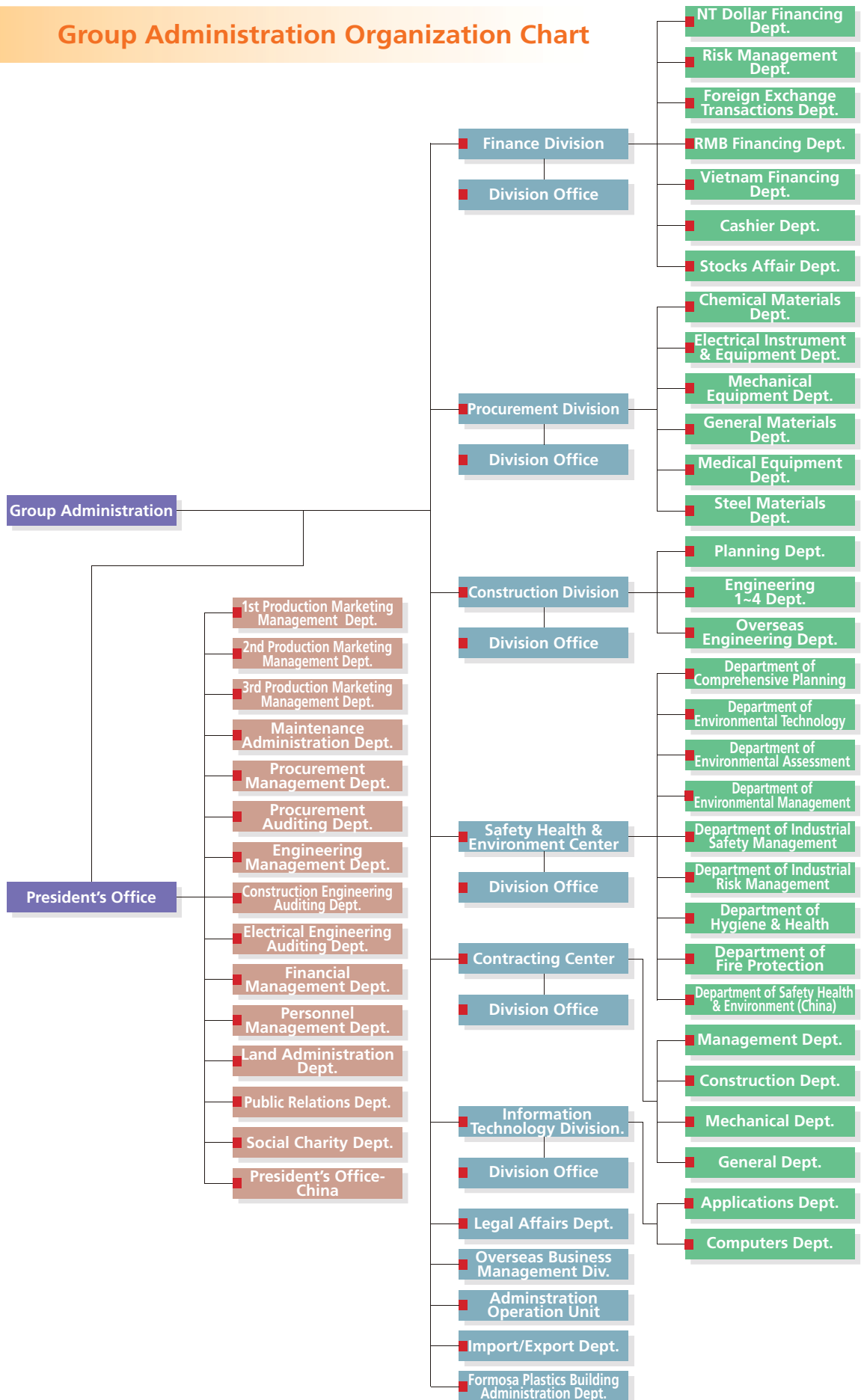
MAJOR PRODUCTS OF VIETNAM COMPANIES

Product	Capacity	Company	Tel	FAX
Blended Spun Yarn	287,000 bales/Y	Formosa Industries	84-61-3560309#2901	84-61-3560667
Polyester Staple Fiber	108,000 MT/Y	Formosa Industries	84-61-3560309#5901	84-61-3560666
Polyester Chips	162,000 MT/Y	Formosa Industries	84-61-3560309#5901	84-61-3560666
SPP Chip	162,000 MT/Y	Formosa Industries	84-61-3560309#5901	84-61-3560666
Polyester POY	23,000 MT/Y	Formosa Industries	84-61-3560309#5901	84-61-3560666
Polyester Spin Drawn Yarn	17,300 MT/Y	Formosa Industries	84-61-3560309#5901	84-61-3560666
Polyester Textured Yarn	23,000 MT/Y	Formosa Industries	84-61-3560309#5901	84-61-3560666
BOPP Film	60,000 MT/Y	Formosa Industries	84-61-3560309#7901	84-61-3560384
PVC Film	3,000MT/Y	Formosa Industries	84-61-3560309#7902	84-61-3560385
Nylon-6 Chips	46,800 MT/Y	Formosa Industries	84-61-3560309#1003	84-61-3560195
Nylon-6 Filament	39,000 MT/Y	Formosa Industries	84-61-3560309#1003	84-61-3560195

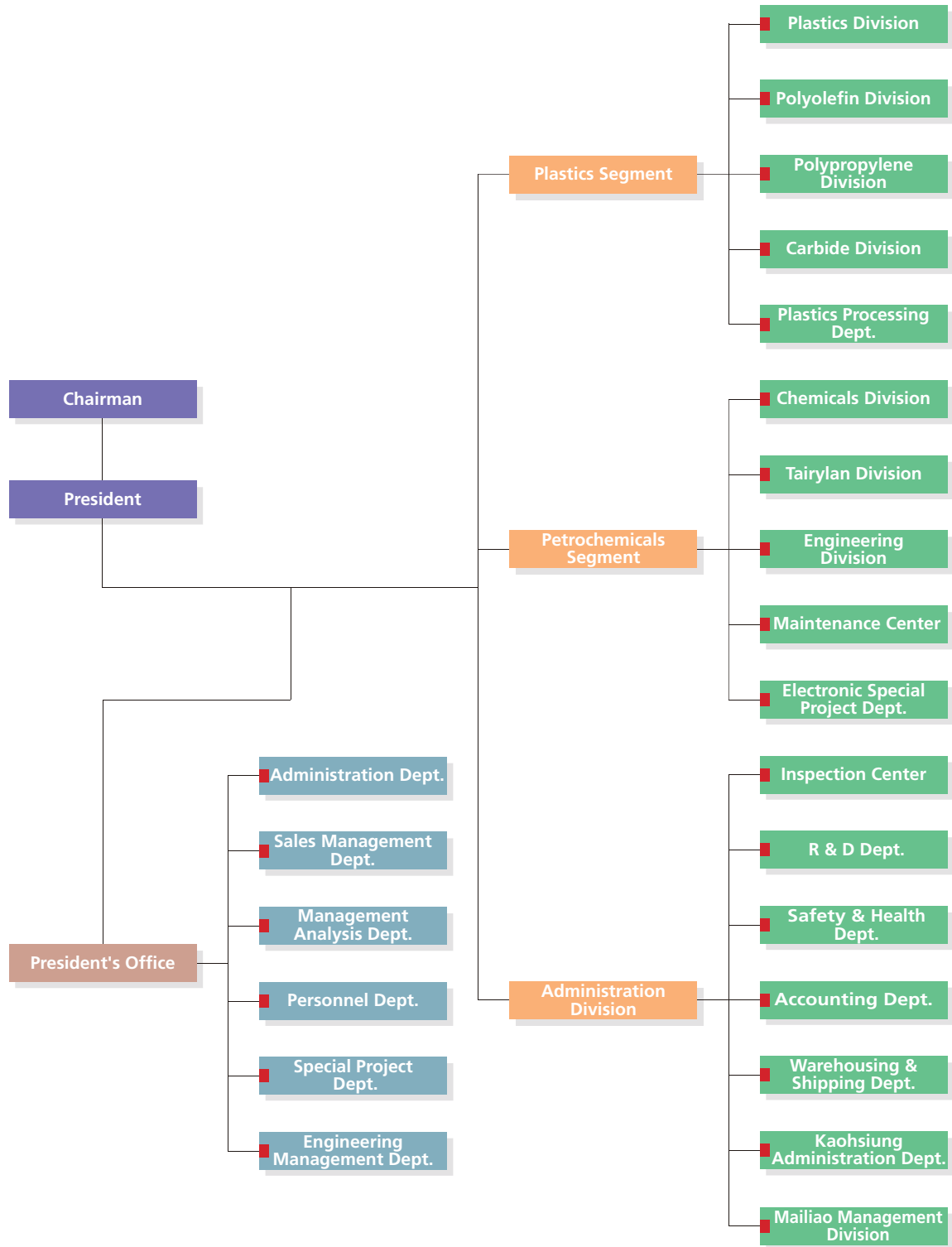
Formosa Plastics Group Organization



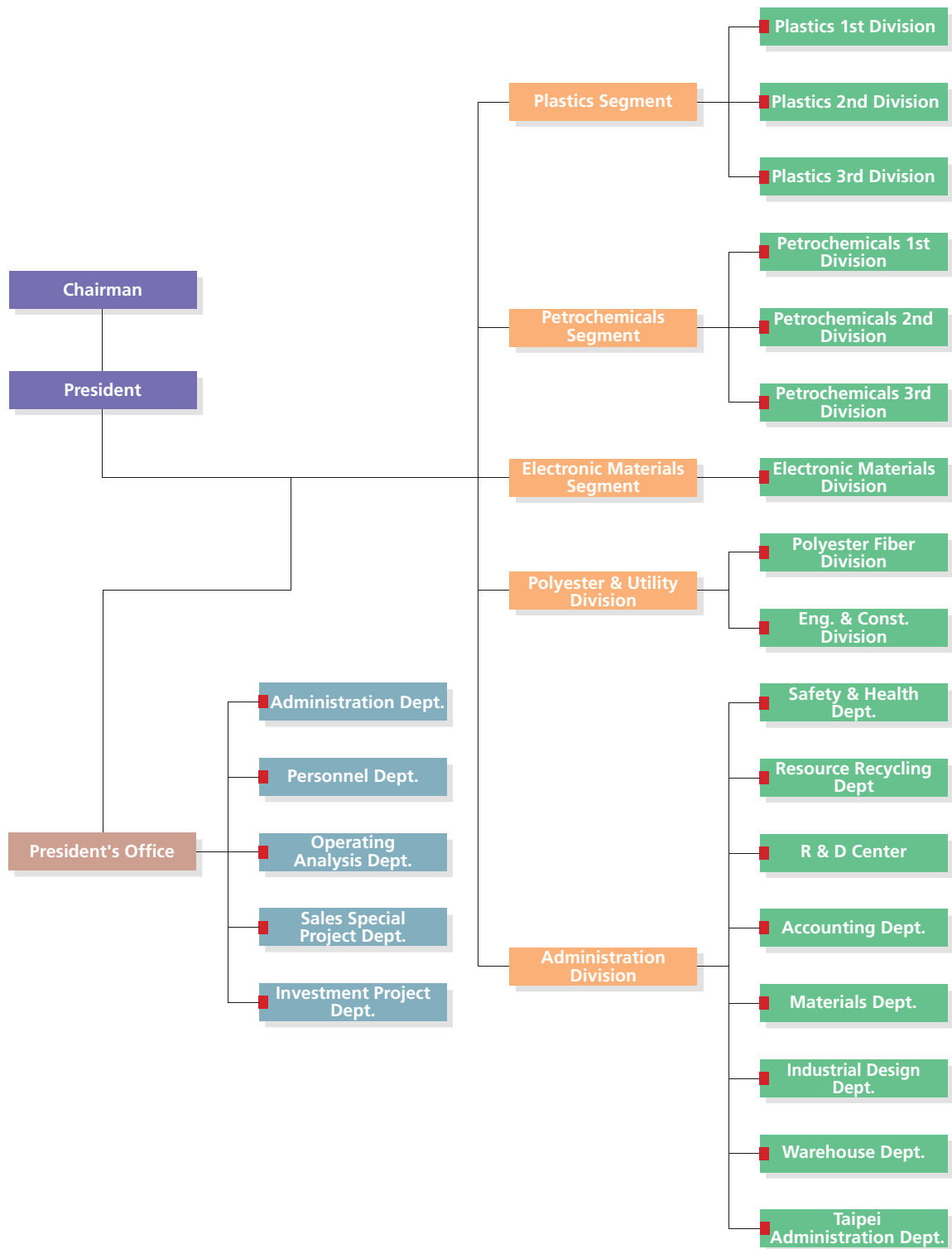
Group Administration Organization Chart



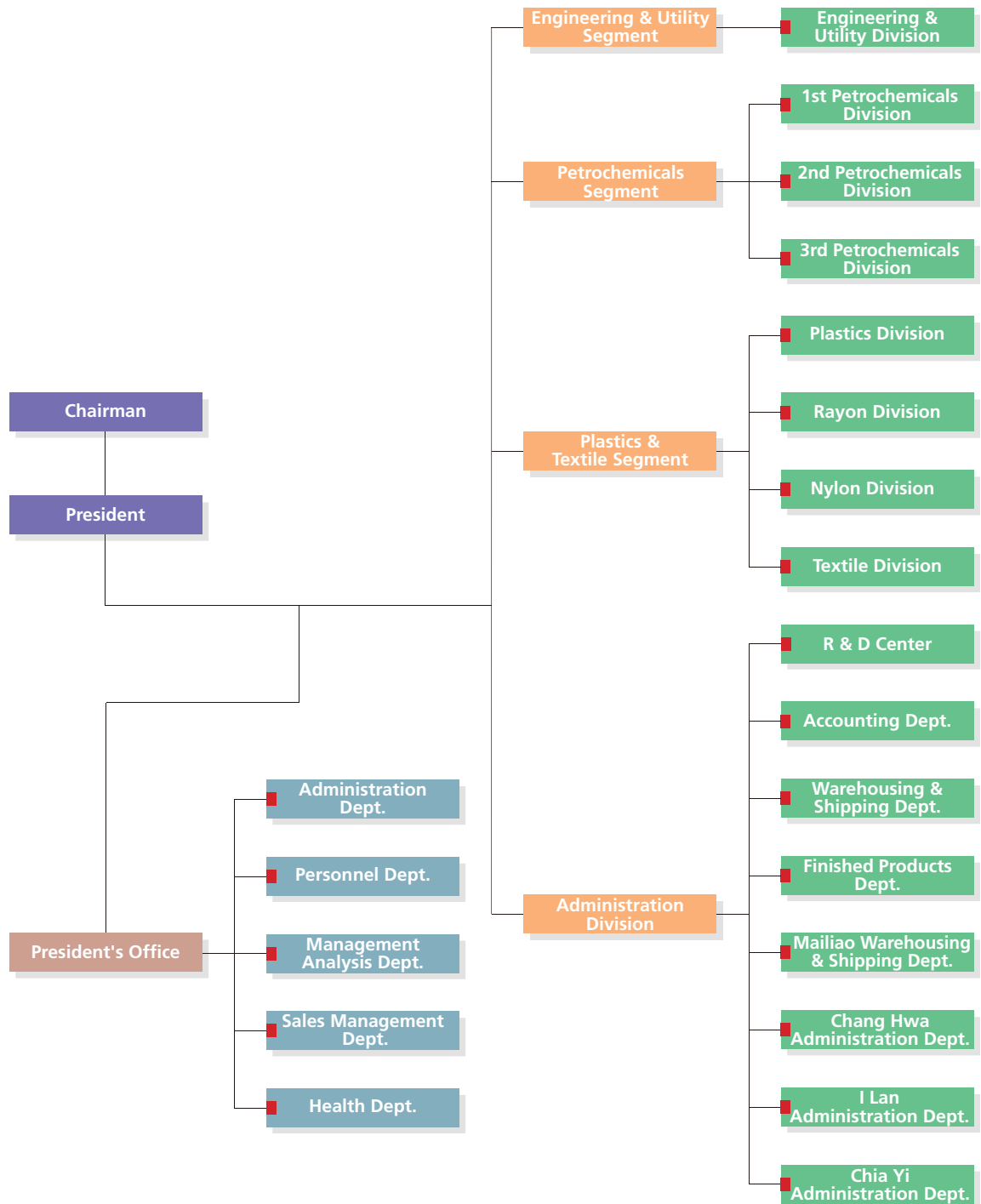
Formosa Plastics Corp. Organization Chart



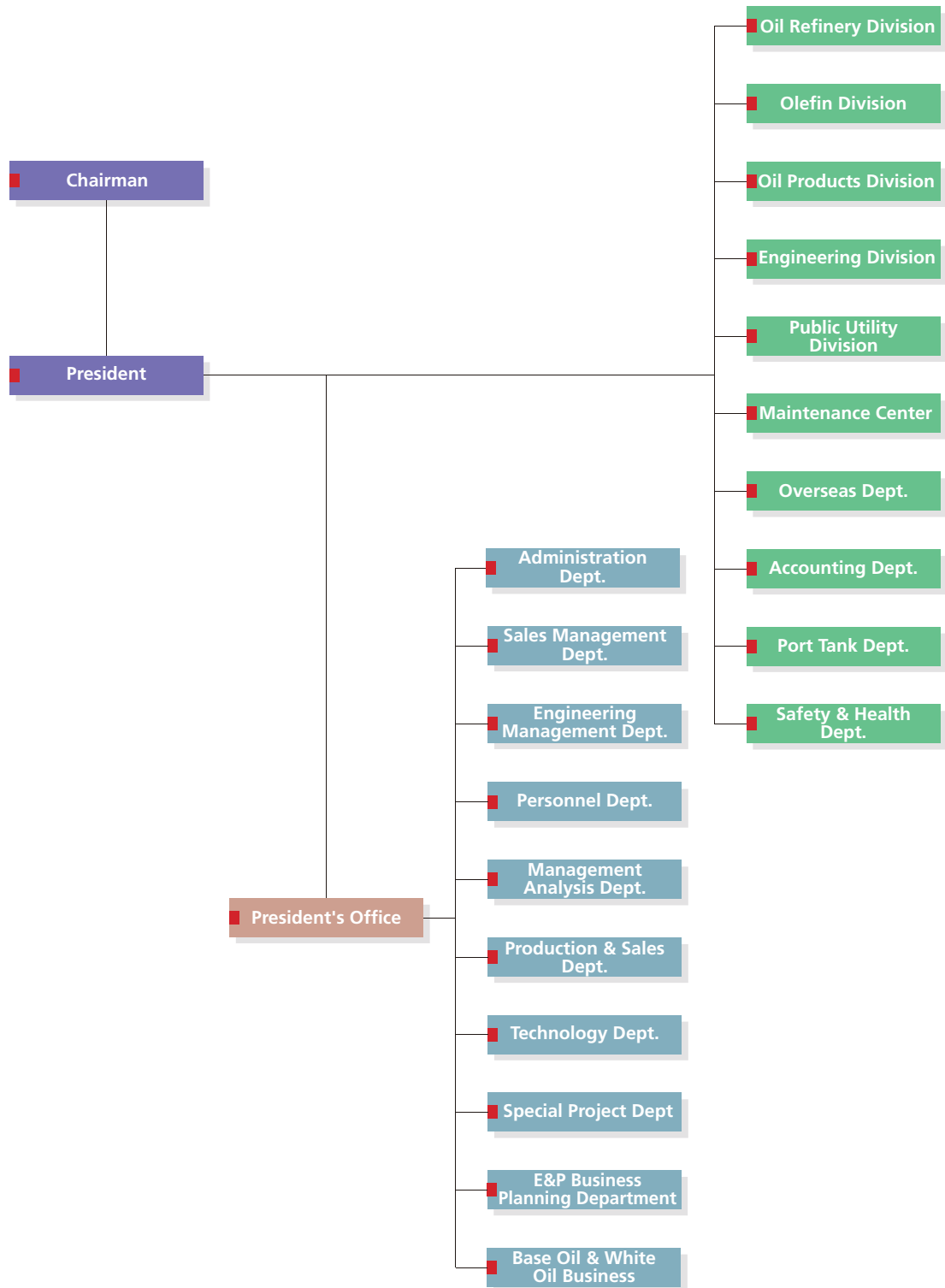
Nan Ya Plastics Corp. Organization Chart



Formosa Chemicals & Fibre Corp. Organization Chart



Formosa Petrochemical Corp. Organization Chart



2011 Financial Highlights

(Expressed in Thousands of US Dollars, persons)

Company	Capital	Assets	Sales	Income Before Income Tax	Equity	Number of Employees
Formosa Plastics Corp.	2,020,767	11,176,724	6,193,573	1,339,127	7,964,855	5,362
Nan Ya Plastics Corp.	2,592,373	13,506,735	6,405,475	930,916	8,736,185	12,122
Formosa Chemicals & Fibre Corp.	1,878,664	12,058,812	9,270,835	1,205,590	8,177,436	5,258
Formosa Petrochemical Corp.	3,144,919	15,245,212	26,362,947	814,492	7,368,368	4,463
Nan Ya Technology Corp.	4,907,527	3,910,671	1,212,984	-1,316,794	752,161	3,997
Nan Ya PCB Corp.	213,326	1,359,815	1,250,213	124,445	1,149,985	7,219
Inotera Memories Inc.	1,532,418	3,994,367	1,234,240	-693,403	1,071,169	3,560
Formosa Sumco Technology Corp.	256,090	796,998	280,130	8,776	612,704	888
Formosa Taffeta Co., Ltd.	556,178	2,288,366	1,196,293	82,353	1,792,510	4,871
Formosa Advanced Technologies Corp.	145,996	532,622	391,578	48,961	310,606	2,611
Mai-Liao Power Corp.	660,284	1,885,040	895,153	67,152	1,248,270	403
Subtotal of Public Companies	17,908,542	66,755,362	54,693,421	2,611,615	39,184,249	50,754
Other Domestic Companies	1,319,302	13,180,578	4,555,415	703,700	11,607,809	27,393
Subtotal of Domestic Companies	19,227,844	79,935,940	59,248,836	3,315,315	50,792,058	78,147
Companies in U.S.A	933,026	6,531,325	6,979,517	868,120	4,122,165	3,471
Companies in China	3,196,728	8,398,929	7,063,625	539,813	4,620,304	16,489
Other Foreign Companies	838,581	4,030,056	1,426,956	11,517	1,781,571	4,570
Subtotal of Foreign Companies	4,968,335	18,960,310	15,470,098	1,419,450	10,524,040	24,530
Total of Formosa Plastics Group	24,196,179	98,896,250	74,718,934	4,734,765	61,316,098	102,677

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