

Kung Long Batteries
Performance and future outlook





Stock Code 1537



Contents



KUNG LONG

www.klb.com.tw

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Established date	Jan. 25, 1990
Listed date	Jan. 22, 2002 (TWSE : 1537)
HQ address	No.6 Tzu-Li 3 Rd, Nantou city
Plant	Taiwan-Kung Long(1990) 、 Le Long(1995) Vietnam-Ben Luc(1996) 、 Duc Hoa(2007)
Capital	NTD 817,853,940
Main activity	Batteries for renewable energy and storage system, batteries for telecom and switch stations, UPS batteries 、 EV batteries 、 Starting batteries
Numbers of employees	About 4,272 people



Main products

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UPS



Electric Tools



Electric Vehicle



Motorcycle



Automotive

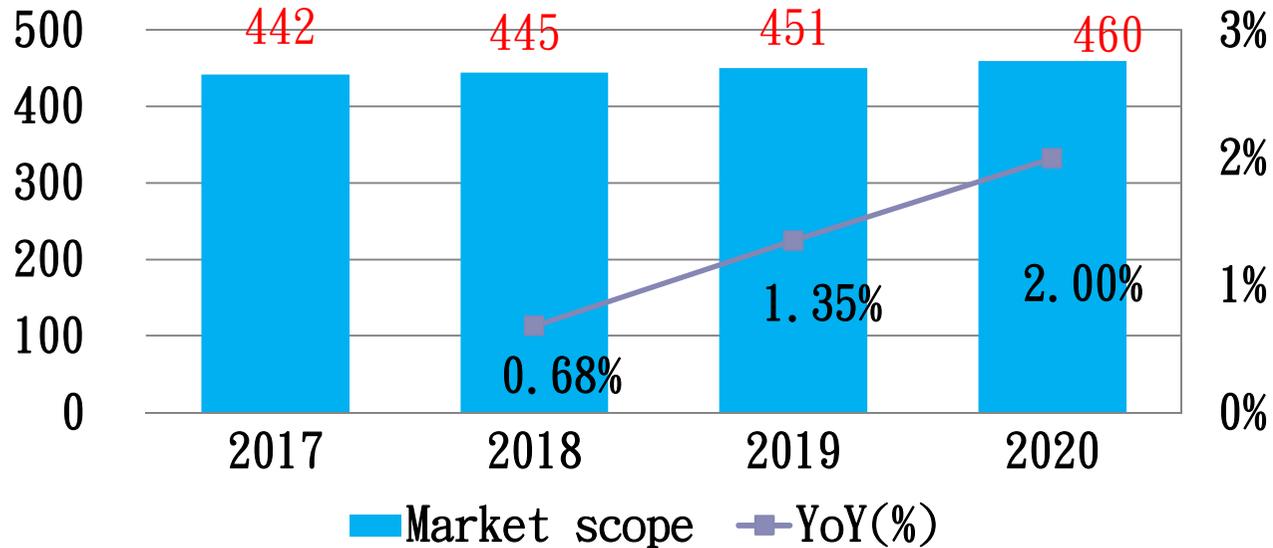


Telecom



Market outlook

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Lead-acid Batteries Market Scope Forecast (Unit: Million USD\$)
Sources- IEKof ITRI (Dec/2016)

In terms of current market size of lead-acid batteries, it is USD 43.7 billion globally in year 2016. With the development of automobiles, motorcycles, and energy storage applications in the future, it is expected that future 's market growth will be 1%~2%. In comparison with the market size of Nickel secondary batteries being USD 2.5 billion, and that of Lithium batteries being USD 20 billion, lead-acid batteries are still the electricity storage products with the biggest shares.



The strength of lead-acid batteries

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1. High C/P ratio

The high C/P ratio of lead-acid batteries has been standing for long time.

2. Wide applications

Lead-acid batteries can be used for starting, energy storage, telecom, transportation purposes.

Strength

3. Safety

Compared with other batteries, lead-acid batteries are more stable and of higher performance.

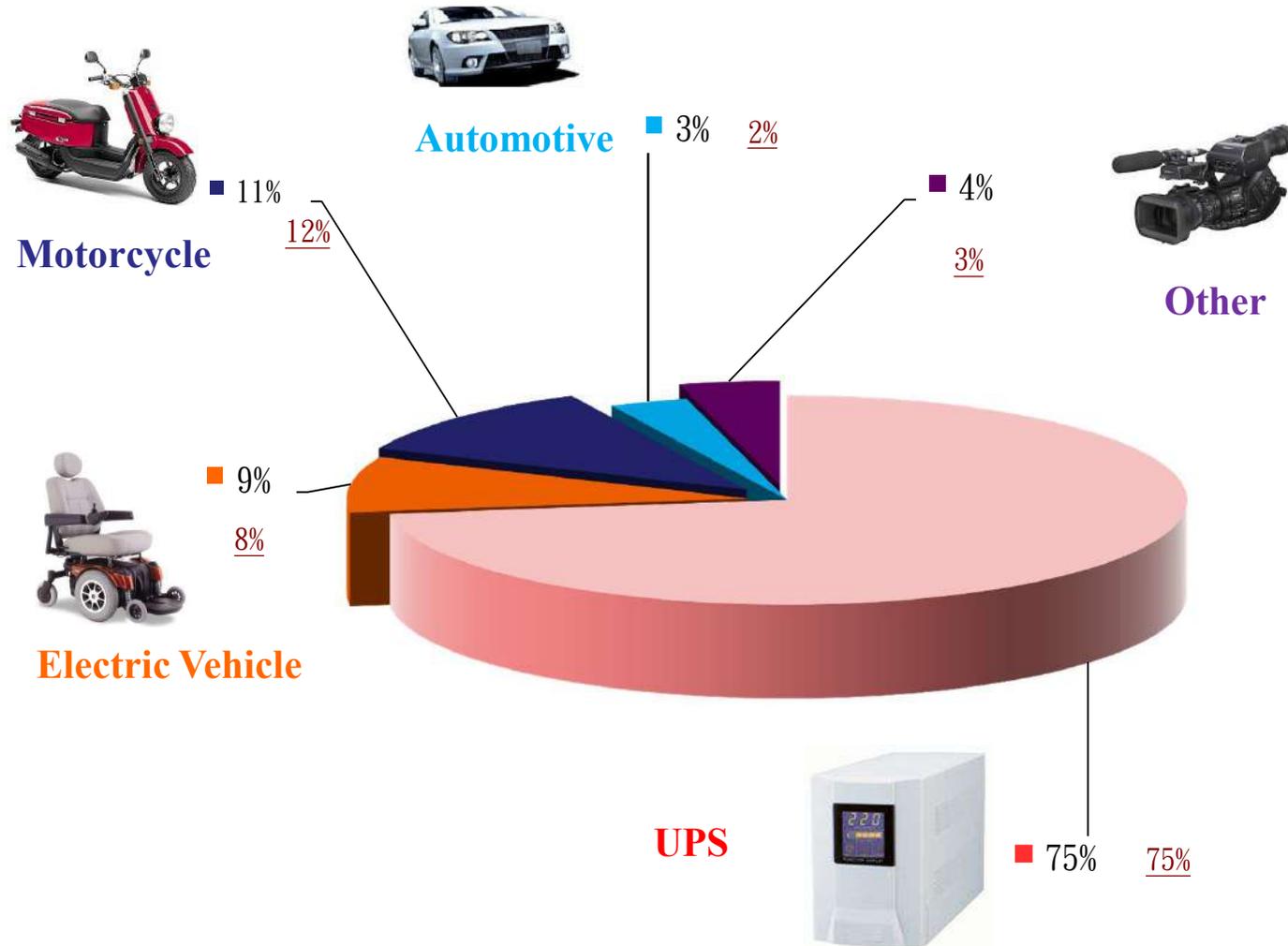
4. Recyclable and reusable

Wasted lead-acid batteries can be recycled. They are also the only battery product whose raw materials can be reused.



2016 Sales Profile by application

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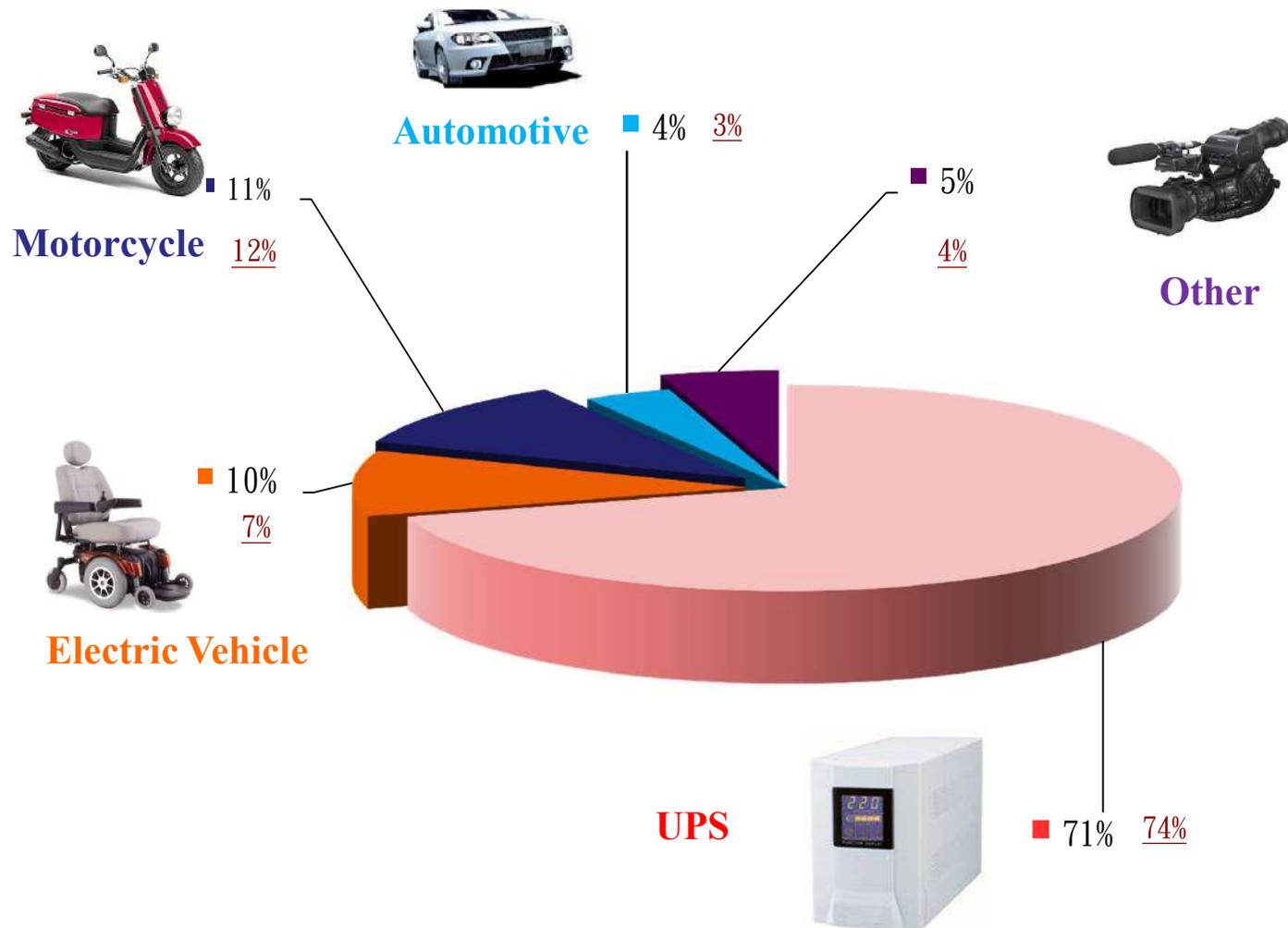


PS Letters highlighted in red stand for the numbers of 2015



2017 1Q Sales Profile by application

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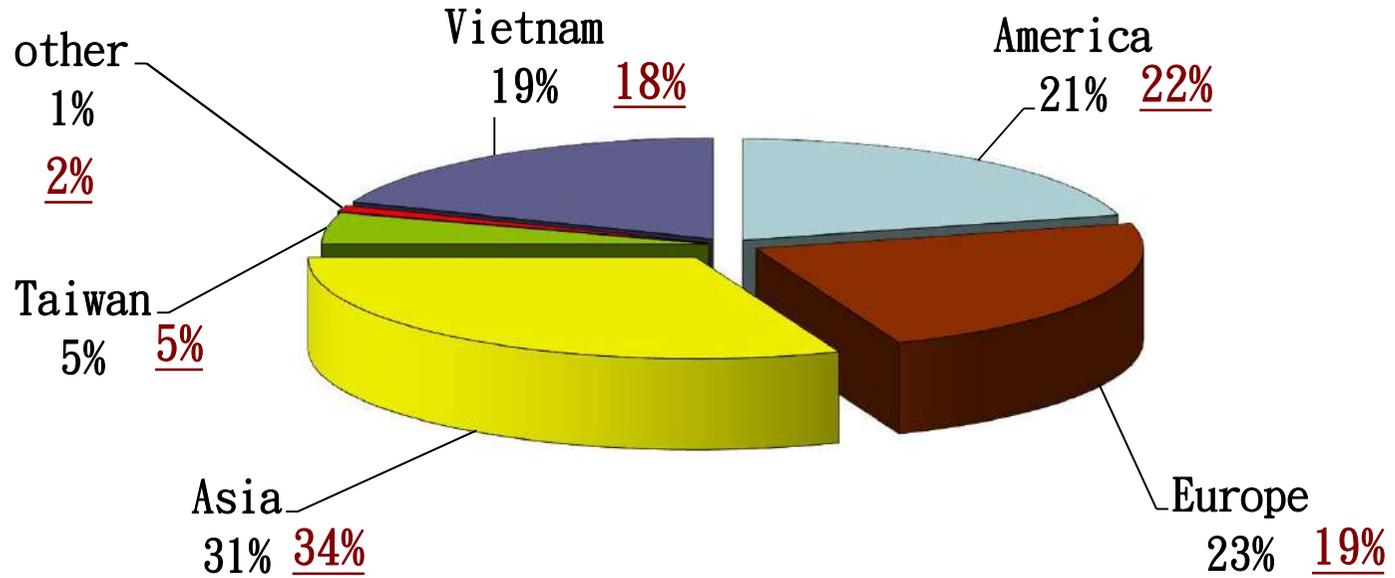


PS Letters highlighted in red stand for the numbers of 2015



2016 Sales Profile by geography

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PS Letters highlighted in red stand for the numbers of 2015

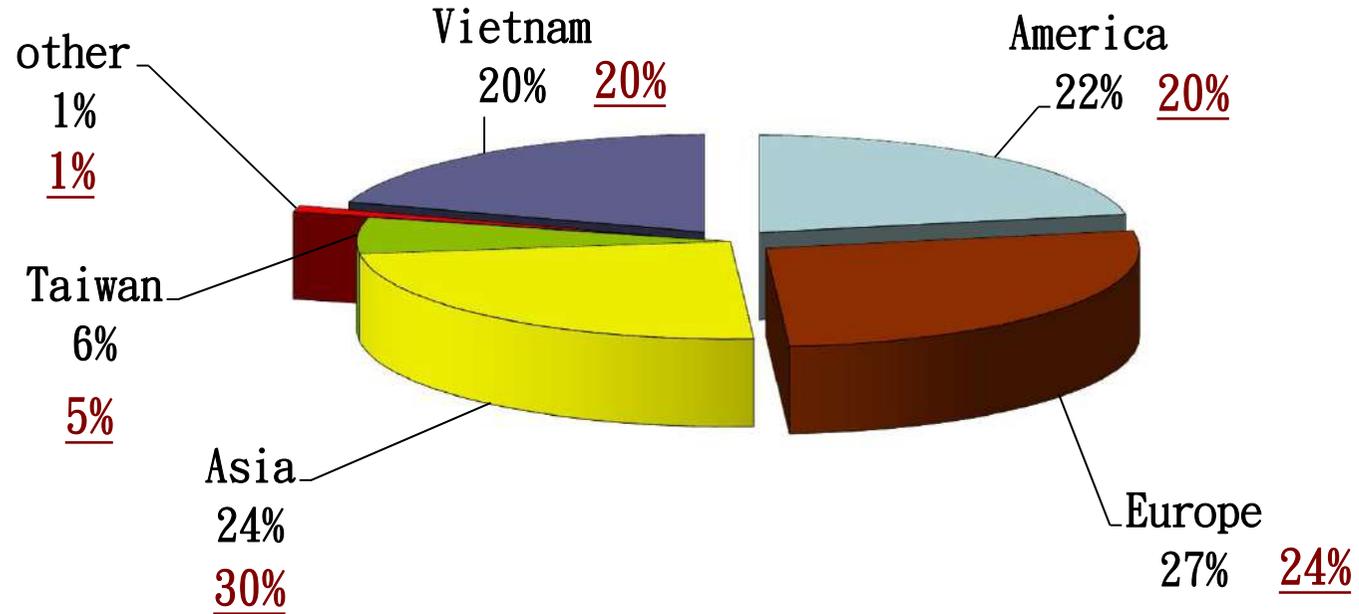
Currency: thousand NTD

Area	America	Europe	Asia	Taiwan	Others	Vietnam
2016年	1,454,697	1,601,437	2,181,717	349,320	116,390	1,320,321
%	21%	23%	31%	5%	1%	19%
2015年	1,544,195	1,323,103	2,332,636	319,382	120,630	1,303,925
%	22%	19%	34%	5%	2%	18%



2017 1Q Sales Profile by geography

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PS Letters highlighted in red stand for the numbers of 2016

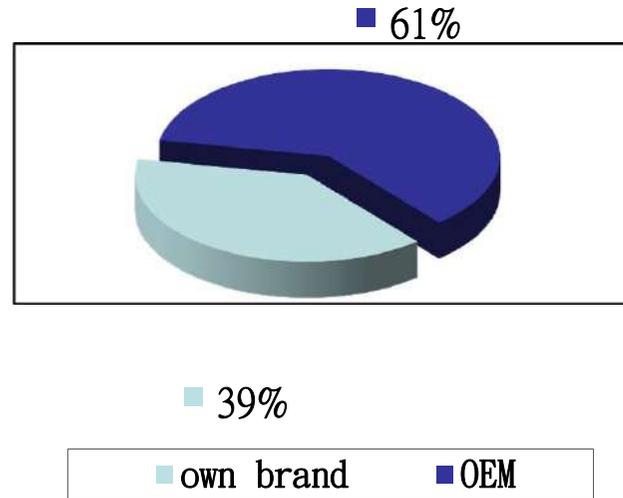
Currency: thousand NTD

Area	America	Europe	Asia	Taiwan	Others	Vietnam
2017 1Q	377,615	453,706	416,333	107,318	22,813	342,958
%	22%	27%	24%	6%	1%	20%
2016 1Q	329,610	381,617	474,024	78,128	18,425	319,910
%	20%	24%	30%	5%	1%	20%



Sales by brand-consolidated

Percentage of own brand and OEM brand in 2017 1Q



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worldwide



Vietnam



Financials -consolidated

Consolidated income statement

Currency: million NTD

category	2011	2012	2013	2014	2015	2016	2017 1Q
Operating revenue	4,830	5,901	5,695	6,766	6,944	7,024	1,721
Gross profit	726	1,271	1,109	1,299	1,430	1,732	416
Gross Margin	15%	22%	19%	19%	21%	25%	24%
Operating profit	361	837	710	841	968	1,229	302
Pre-tax Profit	405	847	753	898	1,052	1,251	228
After-tax profit	324	629	579	676	802	948	184
Profit attributable to former owner of business combination under common control	315	616	573	660	769	870	180
EPS(NTD)	3.90	7.55	7.02	8.09	9.42	11.31	2.20
Average LEAD price(USD/ton)	2,402	2,062	2,142	2,096	1,786	1,871	2,279

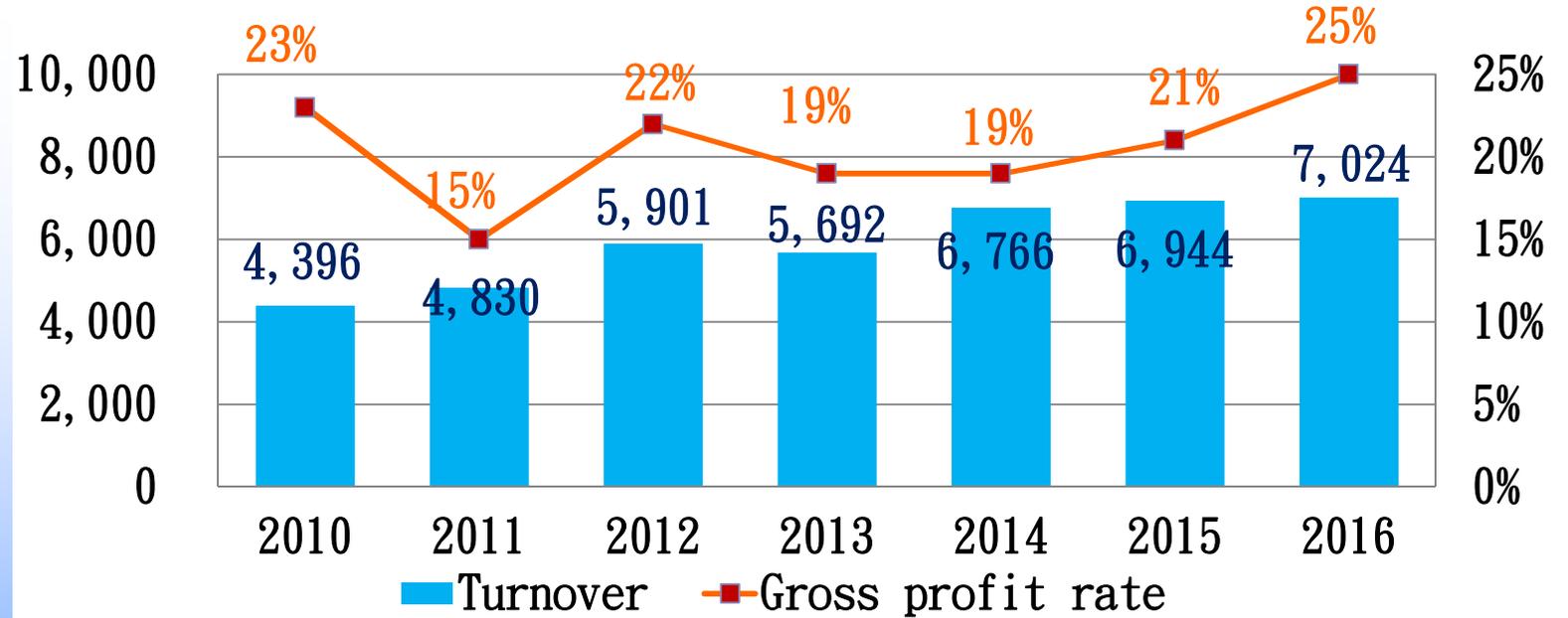
Average
7.88

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Consolidated Sales

Currency: million NTD



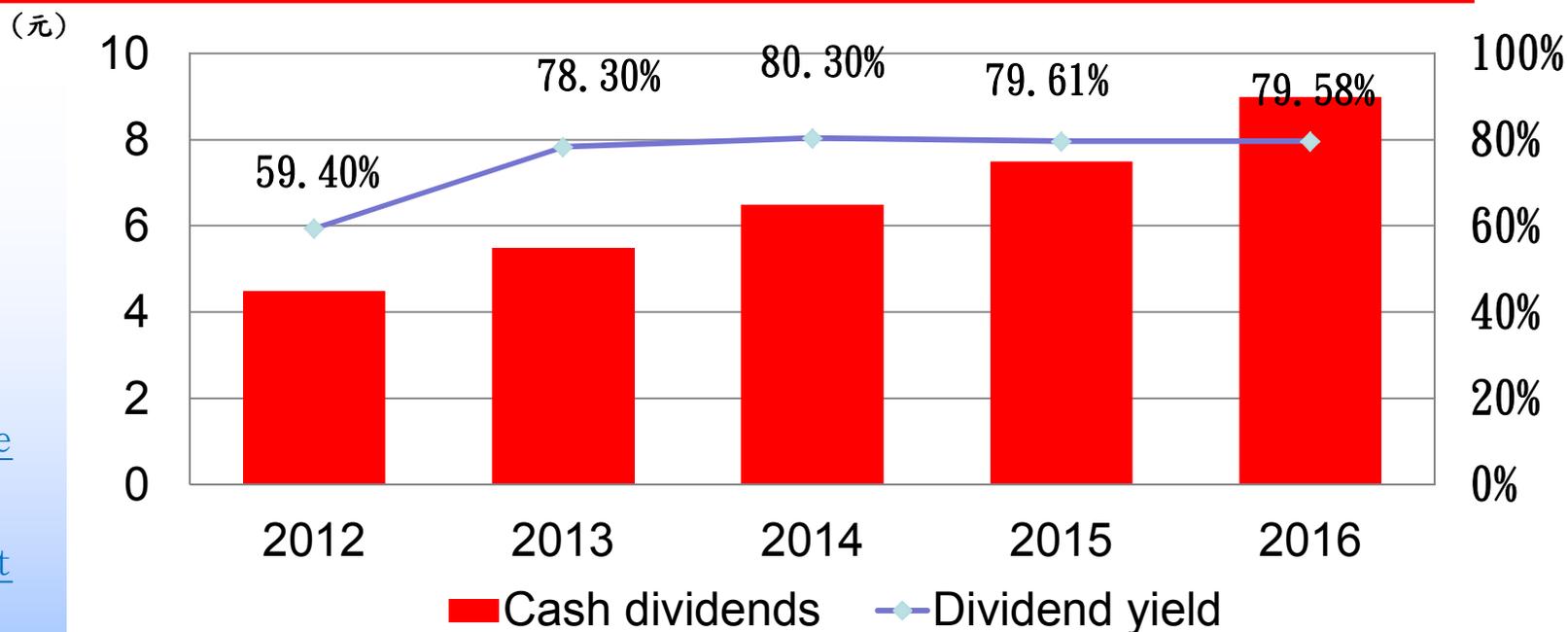
Consolidates Turnover	4,396	4,830	5,901	5,695	6,766	6,944	7,024
LME average price(USD/MT)	2,148	2,402	2,062	2,142	2,096	1,786	1,871
Gross Profit Margin	23%	15%	22%	19%	19%	21%	25%
After-tax EPS	6.82	3.90	7.55	7.02	8.09	9.42	11.31

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Dividend policy

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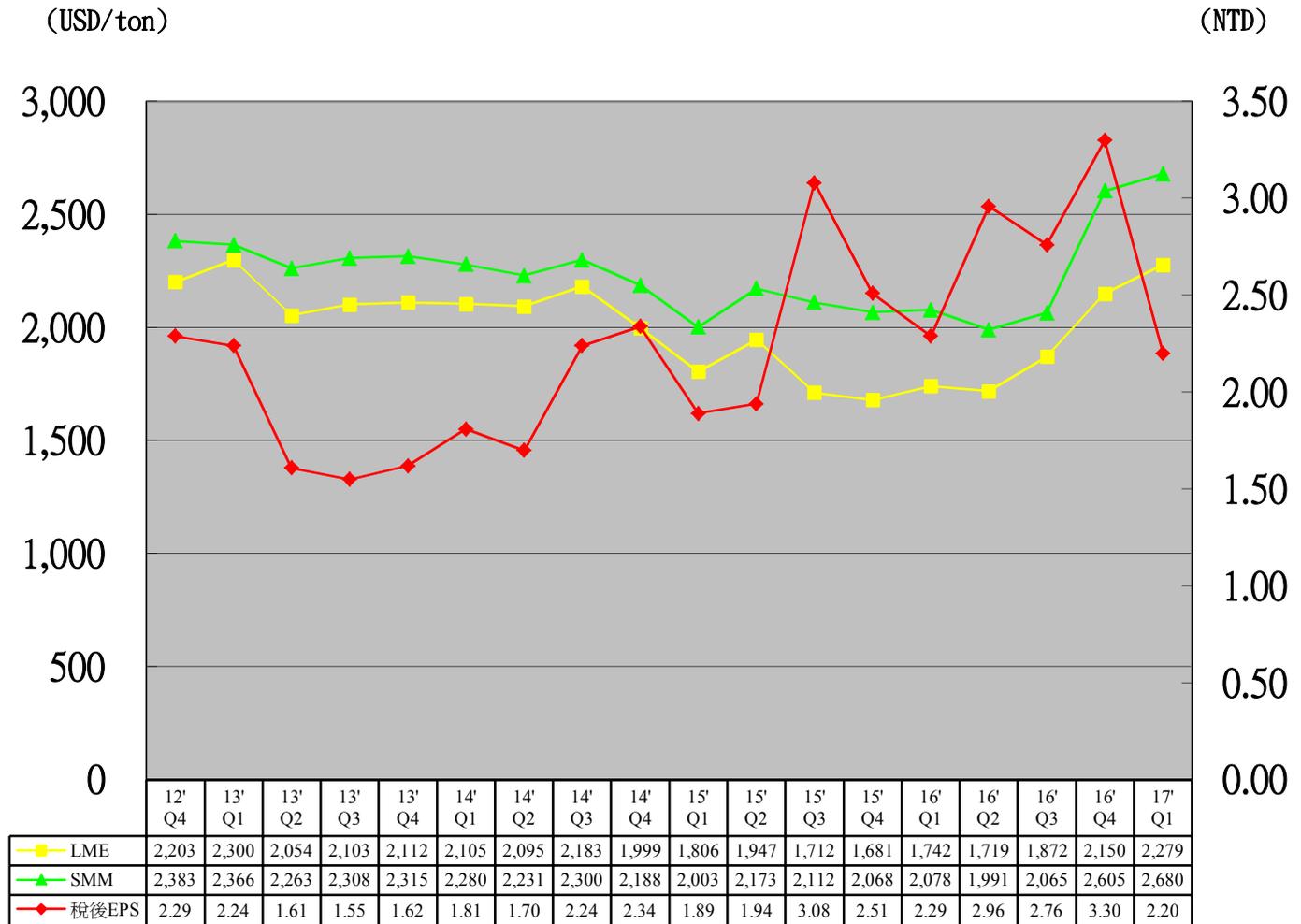


		2012	2013	2014	2015	2016
EPS		7.58	7.02	8.09	9.42	11.31
Dividend distribution	Cash dividends	4.50	5.50	6.50	7.50	9.00
	Stock dividends	-	-	-	-	-
Dividend yield		59.4%	78.3%	80.3%	79.61%	79.58%



Comparison chart of LME, SMM, and EPS

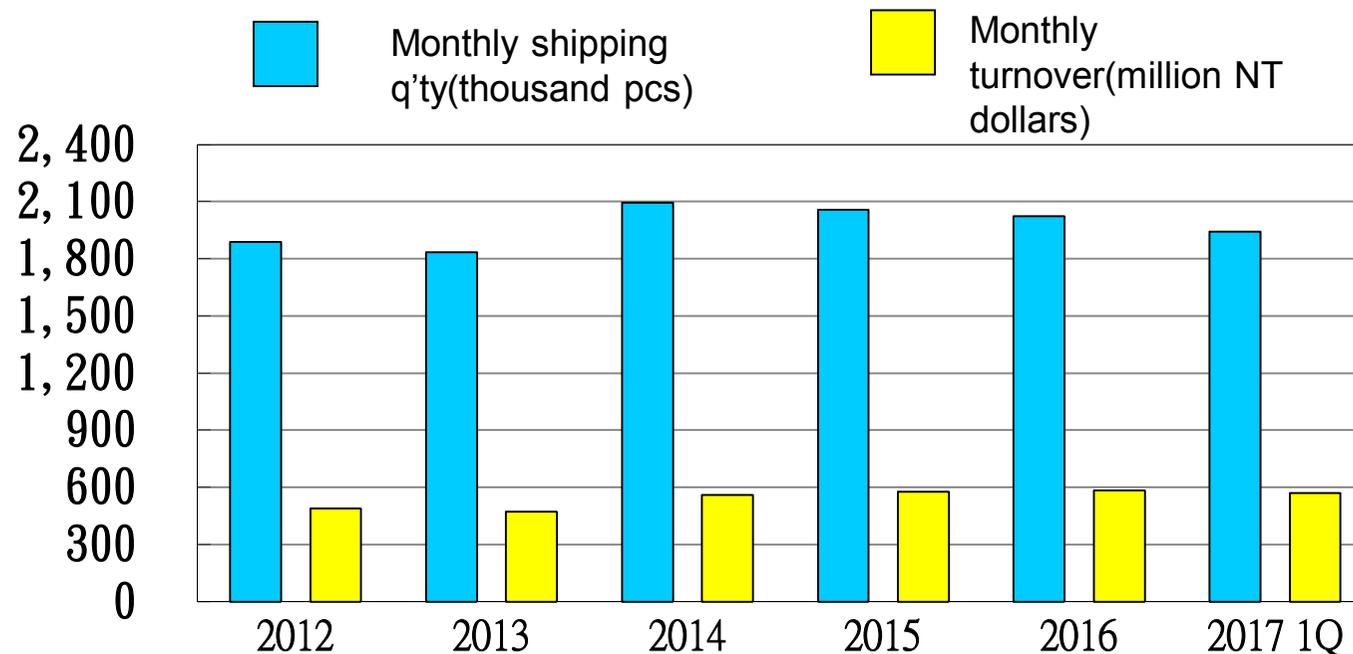
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Sales Quantity by KL group

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Monthly shipping q'ty	1,888	1,835	2,095	2,057	2,026	1,943
Growth rate of shipping q'ty	34%	-3%	14%	-2%	-2%	-4%
Monthly turnover	492	474	564	579	585	573
Growth rate of turnover	22%	-4%	19%	3%	1%	-2%



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Location

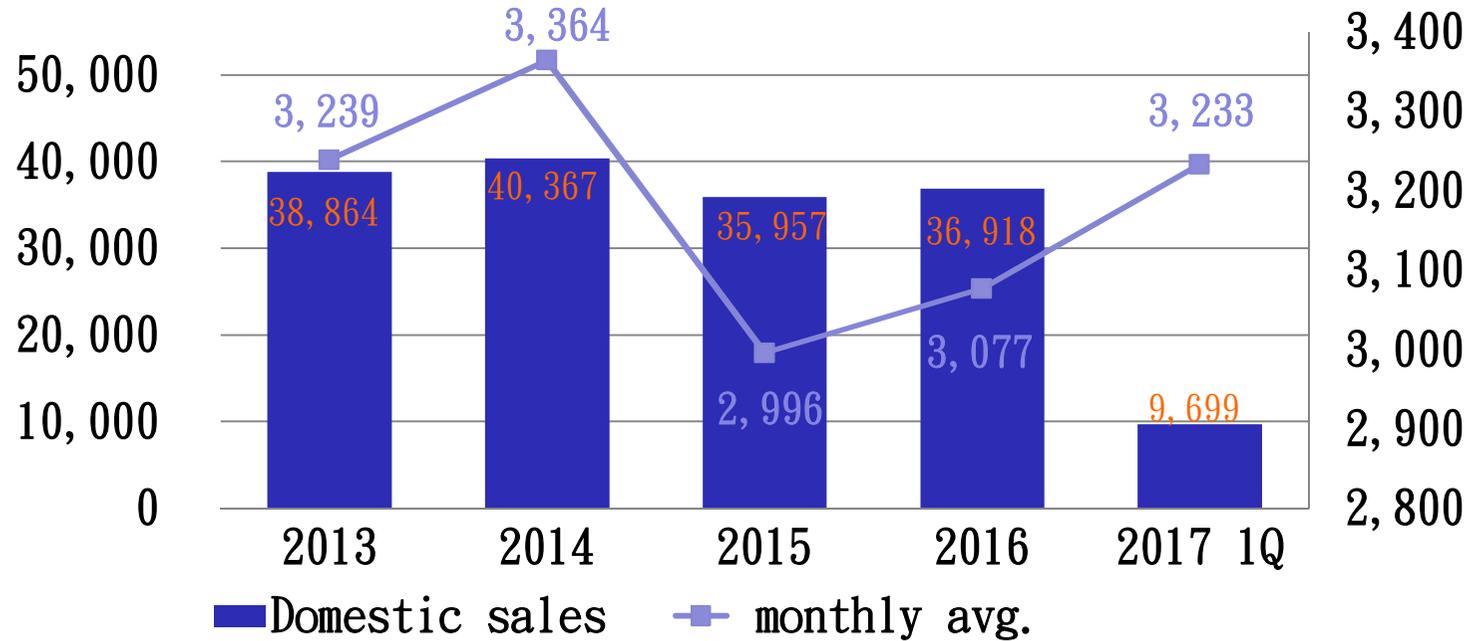
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Turnover of Le Long Vietnam

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currency : thousand USD

Category	2013	2014	2015	2016	2017 1Q
Domestic sales	38,864	40,367	35,957	36,918	9,699
Domestic sales monthly avg.	3,239	3,364	2,996	3,077	3,233



Overview of Vietnam plant

Ben Luc plant

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36,500 square meters



Overview of Vietnam plant

Ben Luc plant

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36,500 square meters



Overview of Vietnam plant

Duc Hoa plant

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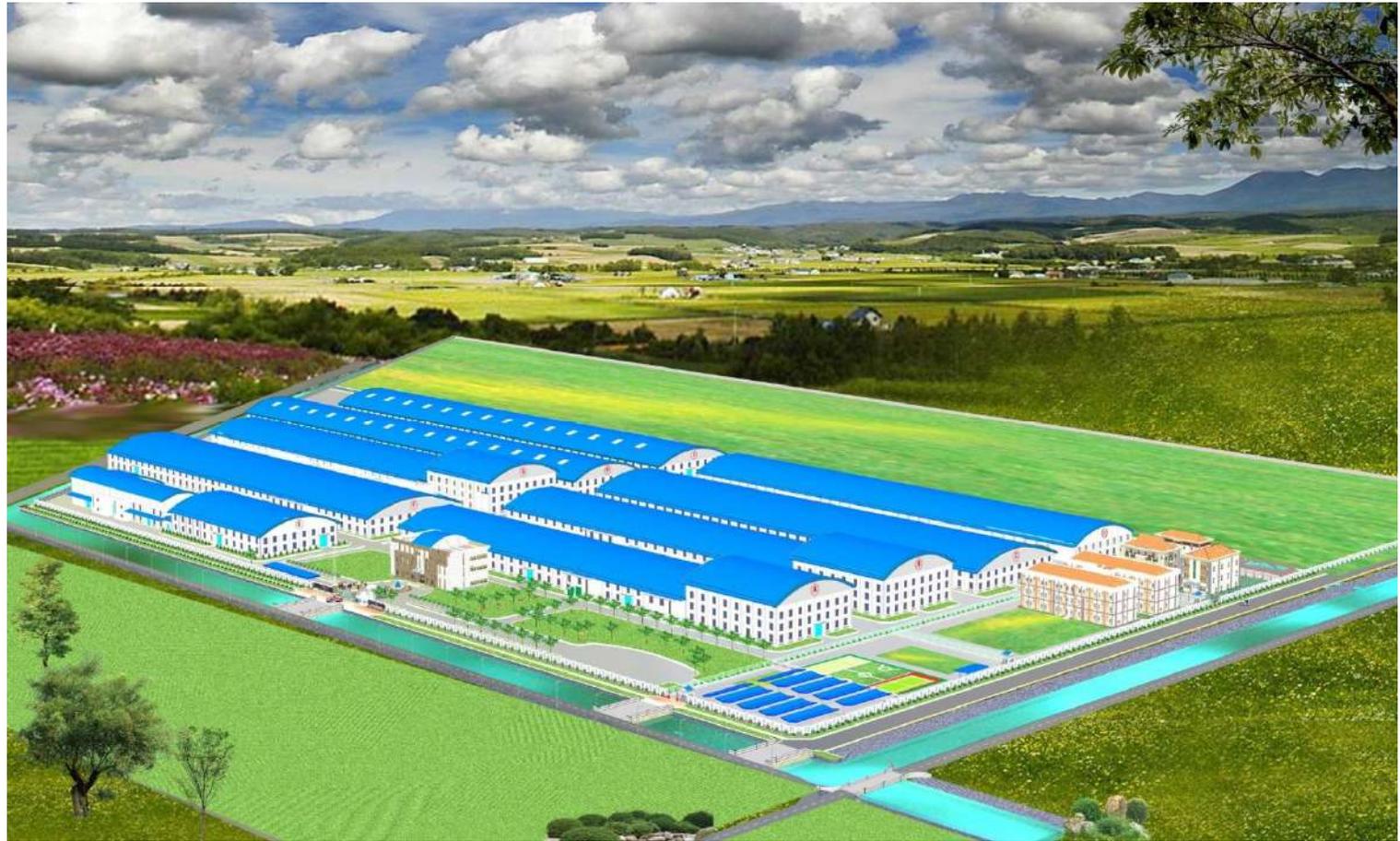
350,000 square meters (200,000 square meters are developed)



Overview of Vietnam plant

Duc Hoa plant

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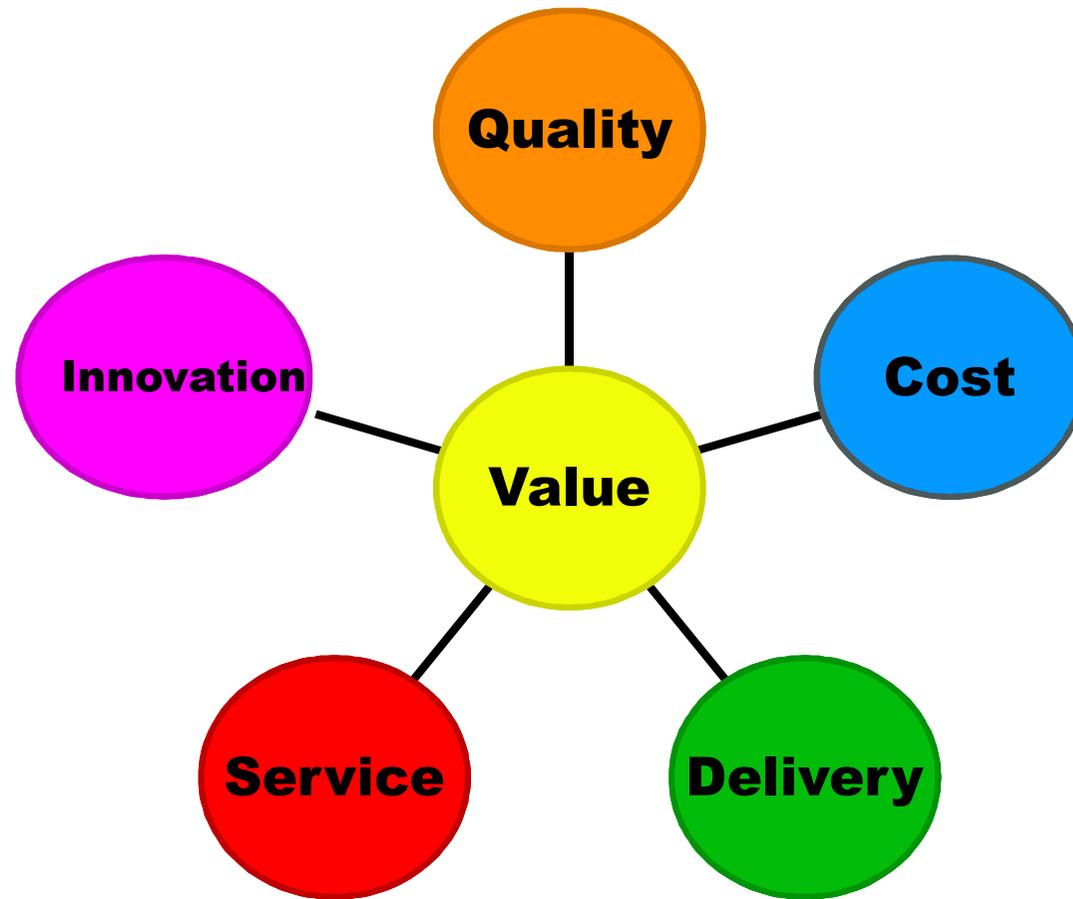


2010-2015: Increase productivity, Introducing automatic equipment



Core value

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Strength

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1. Excellent and stable quality

The production of lead-acid batteries comprises the know-how of electrochemistry and complex system of manufacturing & management. It is not easy to produce quality batteries stably for the long term.

2. The enhancement of entrance barrier

With more and more people realizing the importance of environmental protection, China has imposed lots of restrictions on the manufacturing of lead-acid batteries including the production scale, facilities, and environmental protection...etc. This standard is also considered by many other countries, and therefore there's no new comer for many years. And besides China, there're few manufacturers in other Asian

3. Higher qualification standard

It takes long time to test individual battery performance and service life. The most important is that the incoming inspection can not determine the service life of batteries. Thus, quality customers will set up high qualification procedure and field audit for new comers. We are able to develop the products meeting customer needs.

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4. Successful localization in Vietnam

All our supervisors are Vietnamese, and Taiwanese management people can communicate with them in Vietnamese language without problem. By the way, we enter Vietnam market early and take high shares in M/C AM market. Our batteries have been recognized as high quality. Our brand images is also well established. All of these are very helpful for our profits. Also, the investment environment in Vietnam is good and government seldom interferes.

5. Superior R&D ability

We're devoted to the upgrade and diversity of lead-acid batteries. Through the enhancement of battery performance, we not only make more profits but also develop lower-end products to help customers take more market shares. Our program has been extended from current small sized SLA to medium/large sized ones. We also develop star stop batteries to expand client bases.

6. Quality client bases

Our customers include leading companies in each industries, thus the importers in each areas are willing to distribute our products. Moreover, as the sales territories and customers are properly diversified, we can avoid the huge impacts resulted by single industry and economic factors.

External environment

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Most of our competitors has factory in China. But the issuance of “manufacturing permission of SLA batteries “ in 2011 has limited the development of SLA industry and eliminated lagging production. We’re the professional UPS battery manufacturer with biggest capacity in Southeast Asia, and it can help us to take more orders than our competitors.

Main production bases of small/ medium sized SLA batteries are located in China and Vietnam. When Chinese labor costs keep rising, RMB is under pressure for appreciation, and SLA industry is limited, Chinese battery manufacturers are forced to move to outside. However it’s difficult to find a suitable location. While we’re producing in Vietnam and we can expand our capacities to maintain our advantages

Recently China publishes the notice for imposing consuming tax on batteries and pasting – starting from 1/1/2016, 4% consuming tax will be imposed on lead-acid battery manufacturing, OEM, and import. It is expected that this will bring significant burden to Chinese lead-acid battery factories.

Future outlook

R&D projects

Long-life floating charge batteries

Deep cycle lead-carbon batteries for renewable energy applications

Mass production for long life Intelligent start-stop (ISS) batteries

Research on long cycle life lead-carbon batteries

The introduction of large circular-welding process and single-machine & welding-free process

Back-up batteries for 4G and cloud data centers

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1. Continuous introduction of automatic equipment:

Introducing automatic equipment to increase production efficiency, decrease material waste and maintenance cost, to lower the dependence on manpower.

2. Continuous development on light-weight models :

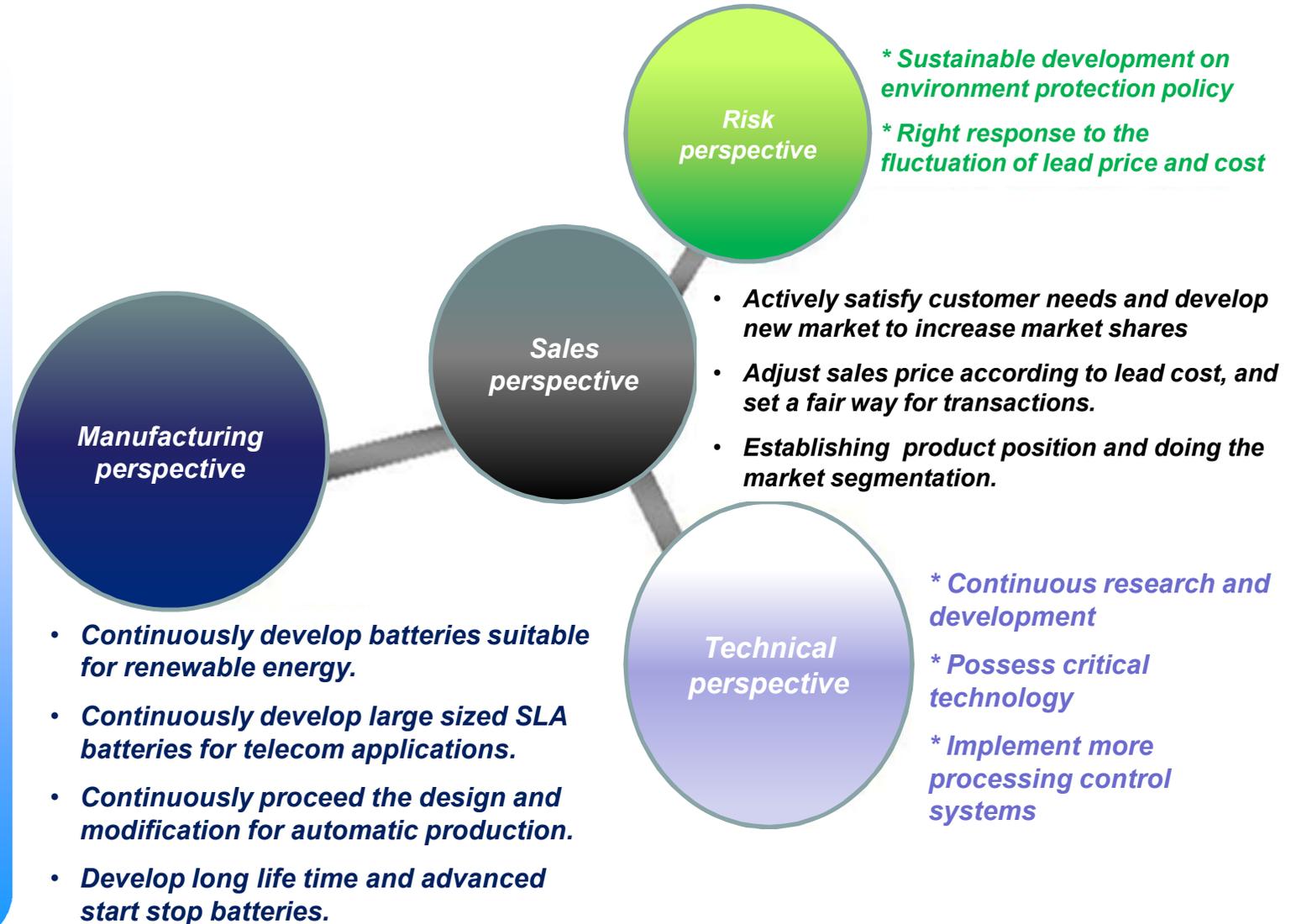
Continuously develop light weight models which meet market needs to increase gross margin.

3. The promotion of new products and market:

Develop large sized SLA batteries for industrial and telecom applications to segment current mass products and obtain niche market.

Marketing layout

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Backup Power

For UPS, Security, Fire Alarm System



Cyclic Power

For Multi-Purpose



High Power

For Telecommunication,
UPS System



Electric Vehicle Power

For Mobility Scooter, Electric Vehicle,
Golf Trolley, Medical



Long Life Power

For Telecommunication,
UPS System



Green Power

For Solar and Renewable Energy,
Deep Cycle



Power your life

LONG

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LONG BATTERY

