



廣隆光電科技股份有限公司

KUNG LONG BATTERIES INDUSTRIAL CO., LTD.

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 4,100 people

Main products

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UPS



Electric Tools



Electric Vehicle



Motorcycle

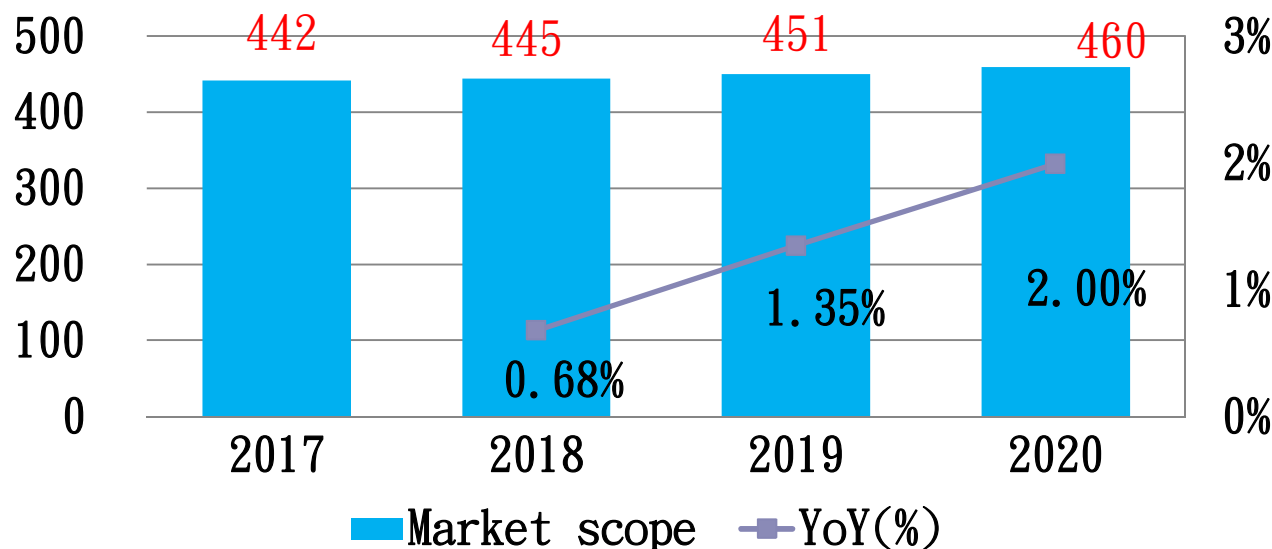


Automotive



Telecom

Market outlook



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

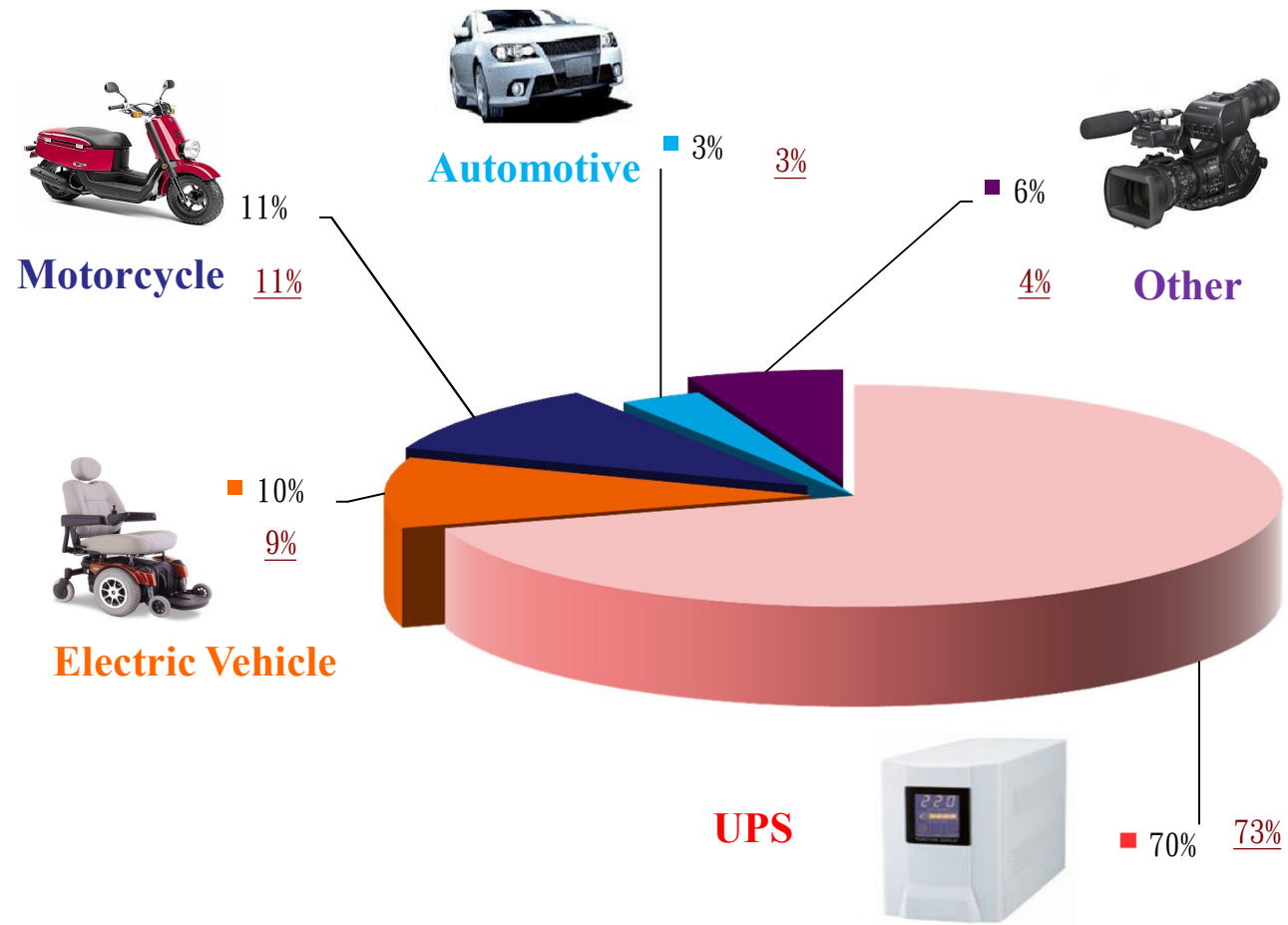
Compared with other batteries, lead-acid batteries are more stable and of higher performance.

4. Recyclable and reusable

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

2017 Sales Profile by application

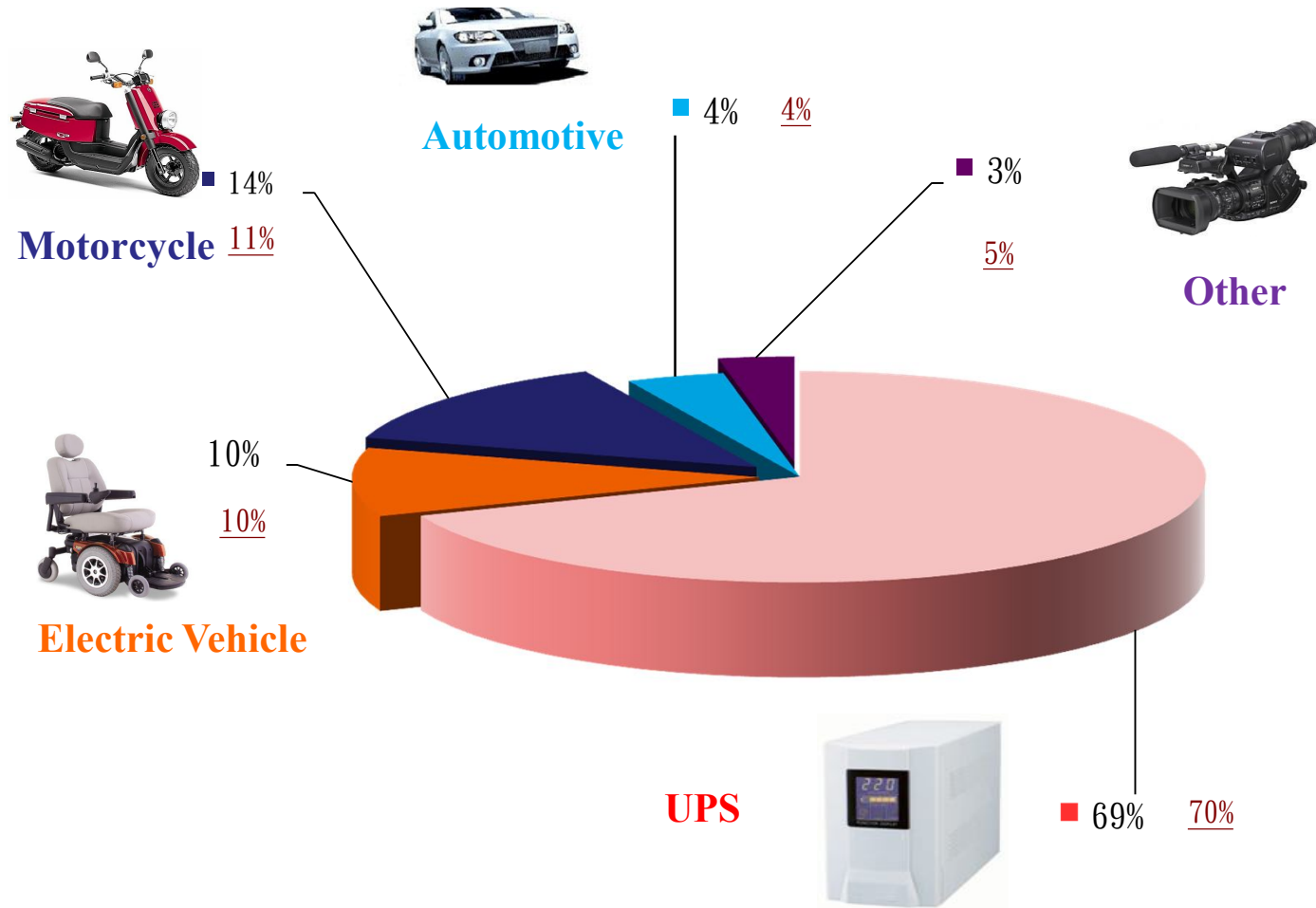
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PS Letters highlighted in red stand for the numbers of 2016

2018 1Q Sales Profile by application

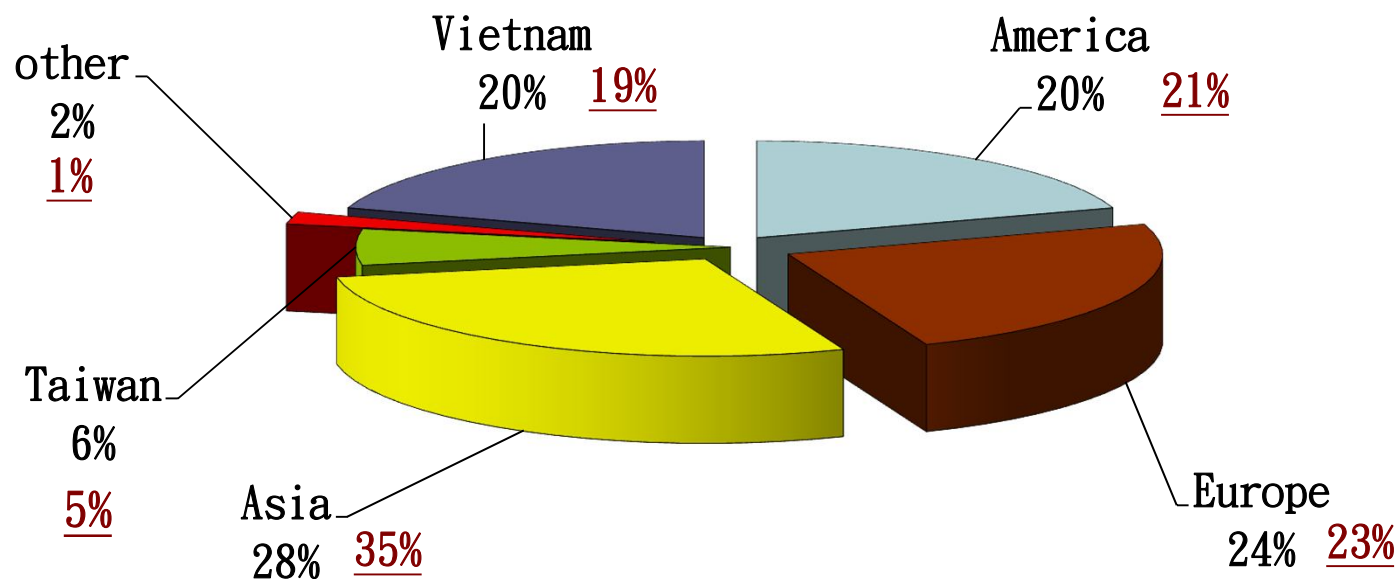
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PS Letters highlighted in red stand for the numbers of 2017

2017 Sales Profile by geography

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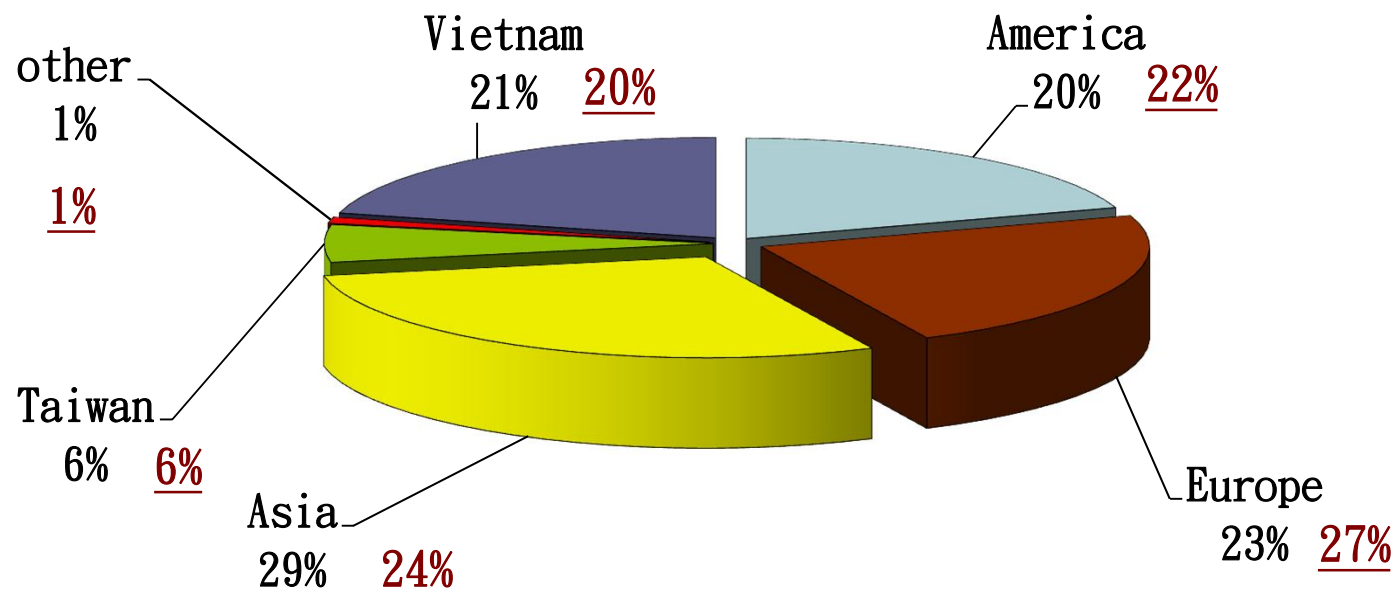


PS Letters highlighted in red stand for the numbers of 2016

Currency: thousand NTD

Area	America	Europe	Asia	Taiwan	Others	Vietnam
2017年	1, 587, 412	1, 874, 993	2, 175, 850	437, 418	141, 429	1, 555, 729
%	20%	24%	28%	6%	2%	20%
2016年	1, 454, 697	1, 601, 437	2, 181, 717	349, 320	116, 390	1, 320, 321
%	21%	23%	31%	5%	1%	19%

2018 1Q Sales Profile by geography



PS Letters highlighted in red stand for the numbers of 2017

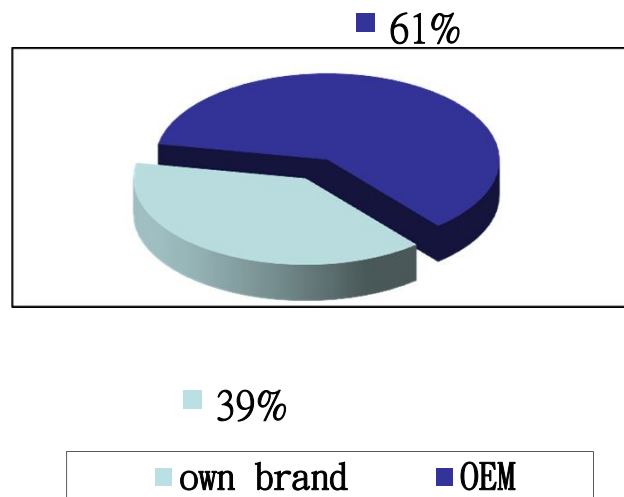
Currency: thousand NTD

Area	America	Europe	Asia	Taiwan	Others	Vietnam
2018年Q1	388, 550	454, 386	574, 110	120, 922	30, 234	415, 053
%	20%	23%	29%	6%	1%	21%
2017年Q1	377, 615	453, 706	416, 333	107, 318	22, 813	342, 958
%	22%	27%	24%	6%	1%	20%



Sales by brand-consolidated

Percentage of own brand and OEM brand in 2018 1Q



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worldwide



Vietnam

Financials –consolidated

Consolidated income statement

Currency: million NTD

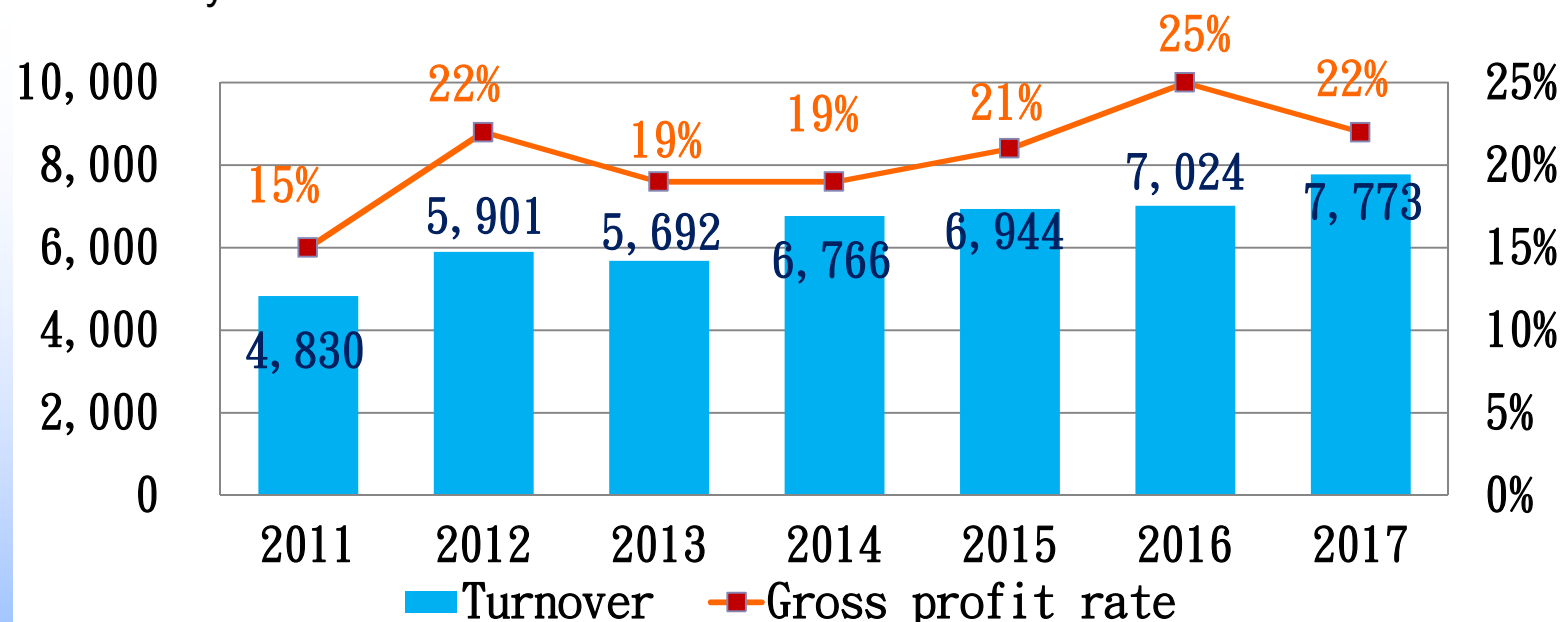
category	2012	2013	2014	2015	2016	2017	2018 1Q
Operating revenue	5, 901	5, 695	6, 766	6, 944	7, 024	7, 773	1, 983
Gross profit	1, 271	1, 109	1, 299	1, 430	1, 732	1, 755	410
Gross Margin	22%	19%	19%	21%	25%	22%	20%
Operating profit	837	710	841	968	1, 229	1, 261	287
Pre-tax Profit	847	753	898	1, 052	1, 251	1, 198	258
After-tax profit	629	579	676	802	948	906	199
Profit attributable to former owner of business combination under common control	616	573	660	769	870	728	199
EPS(NTD)	7. 55	7. 02	8. 09	9. 42	11. 31	11. 04	2. 44
Average LEAD price(USD/ton)	2, 062	2, 142	2, 096	1, 786	1, 871	2, 318	2, 523

Average
9. 07

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Consolidated Sales

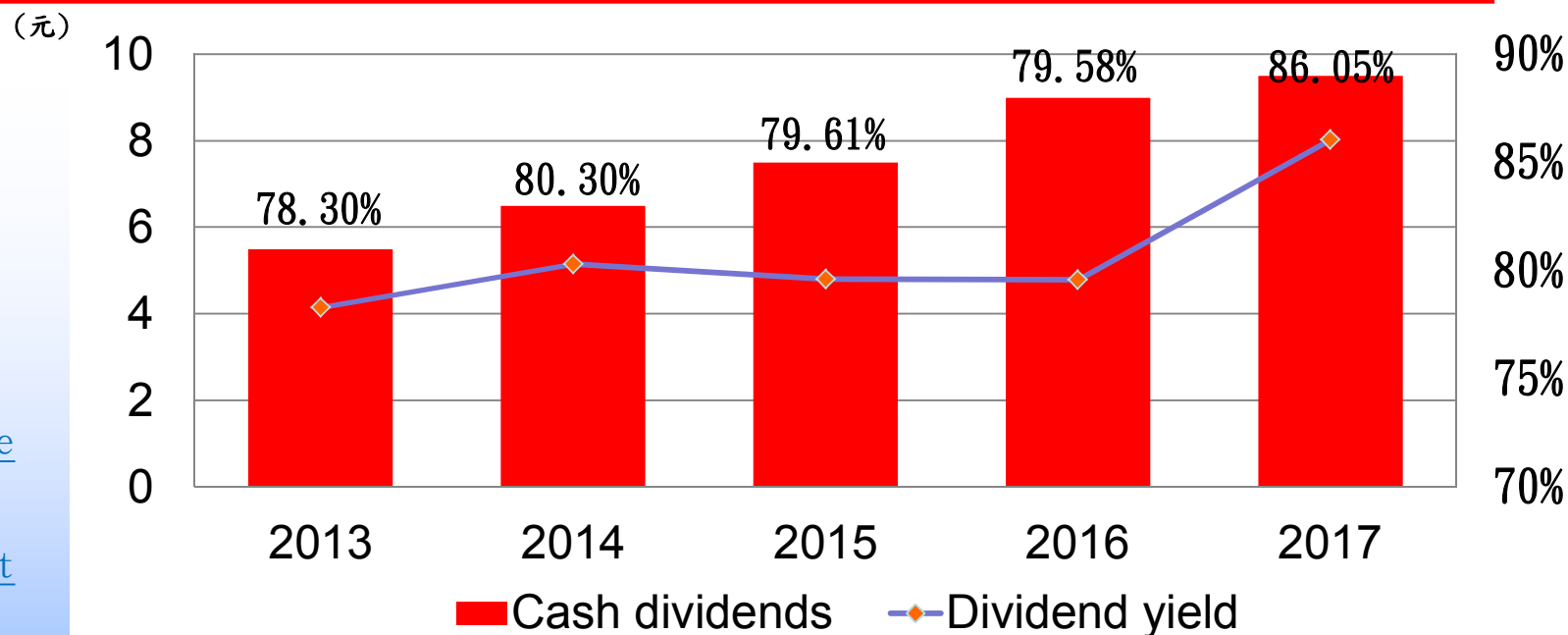
Currency: million NTD



Consolidated Turnover	4,830	5,901	5,695	6,766	6,944	7,024	7,773
LME average price(USD/MT)	2,402	2,062	2,142	2,096	1,786	1,871	2,318
Gross Profit Margin	15%	22%	19%	19%	21%	25%	22%
After-tax EPS	3.90	7.55	7.02	8.09	9.42	11.31	11.04

Dividend policy

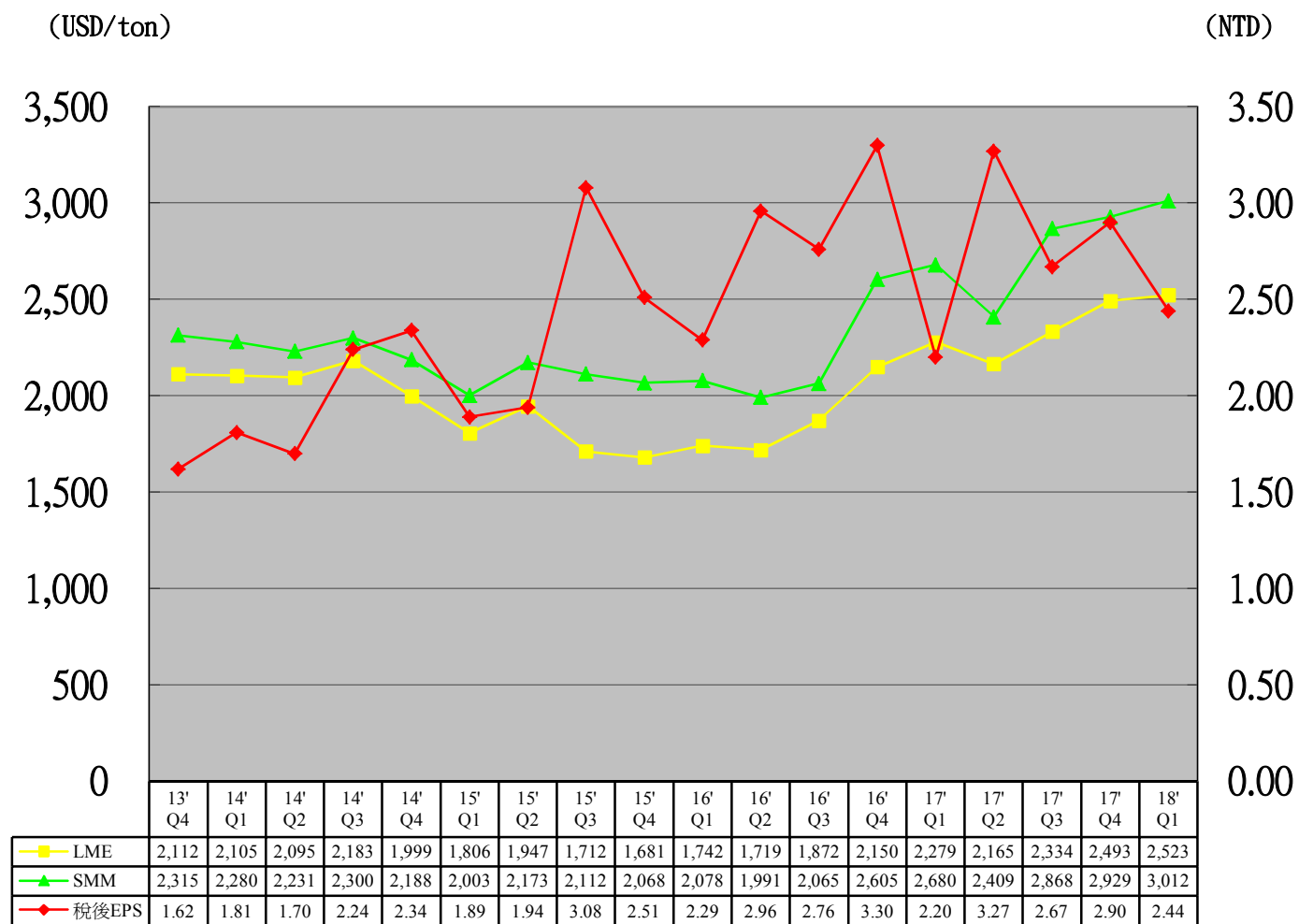
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		2013	2014	2015	2016	2017
EPS		7.02	8.09	9.42	11.31	11.04
Dividend distribution	Cash dividends	5.50	6.50	7.50	9.00	9.50
	Stock dividends	—	—	—	—	—
Dividend yield		78.3%	80.3%	79.61%	79.58%	86.05%

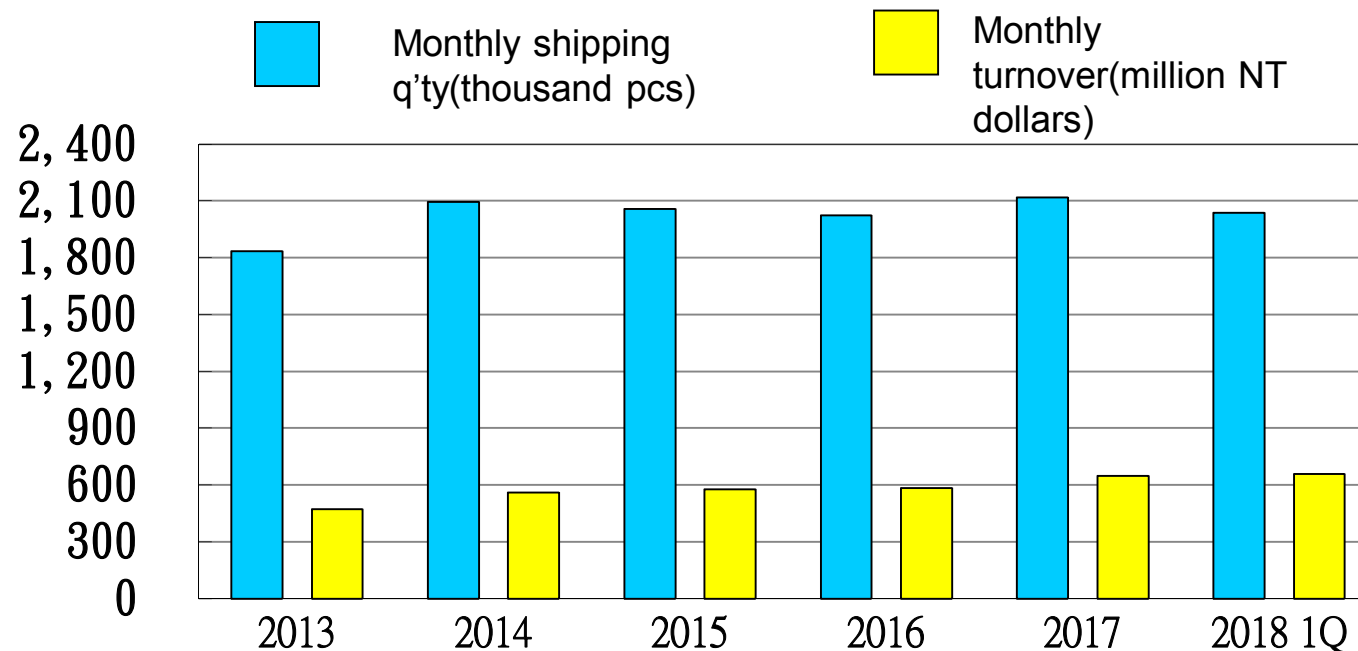
Comparison chart of LME, SMM, and EPS

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Sales Quantity by KL group

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Monthly shipping q'ty	1, 835	2, 095	2, 057	2, 026	2, 119	2, 039
Growth rate of shipping q'ty	-3%	14%	-2%	-2%	5%	-4%
Monthly turnover	474	564	579	585	648	661
Growth rate of turnover	-4%	19%	3%	1%	11%	2%

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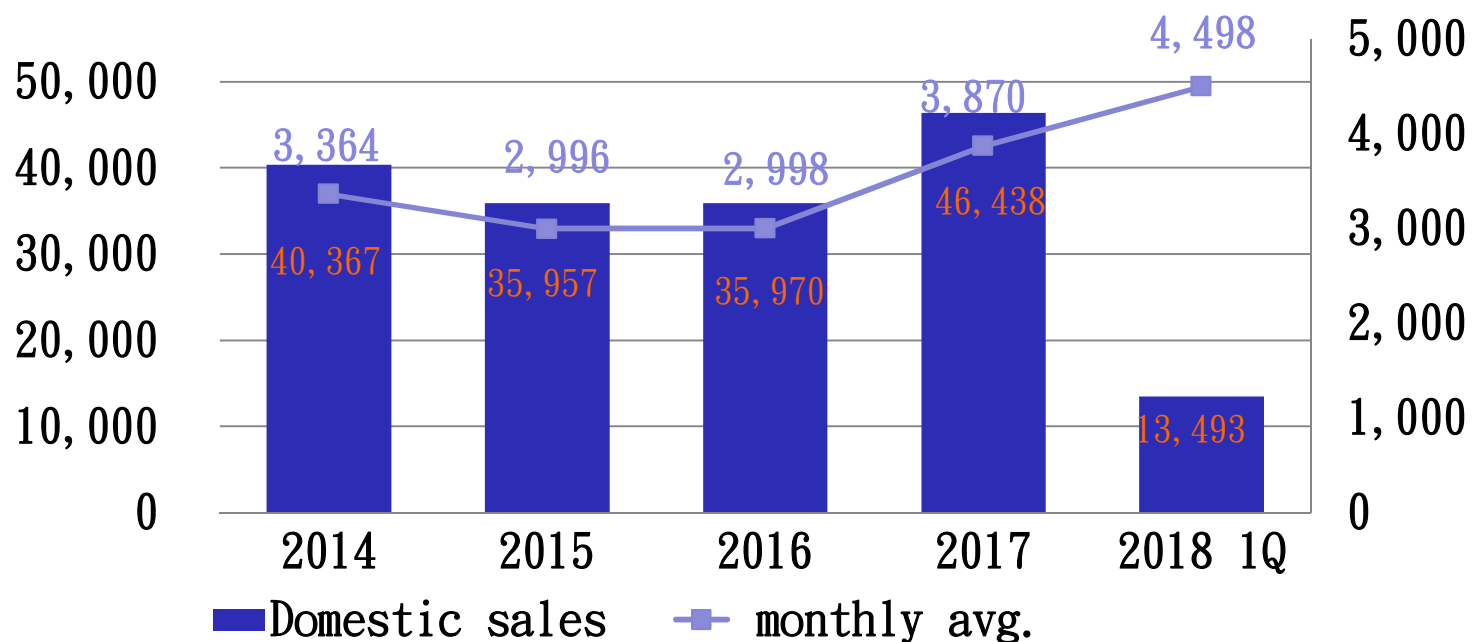
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Turnover of Le Long Vietnam

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currency : thousand USD

Category	2014	2015	2016	2017	2018 1Q
Domestic sales	40,367	35,957	36,918	46,438	13,493
Domestic sales monthly avg.	3,364	2,996	3,077	3,870	4,498

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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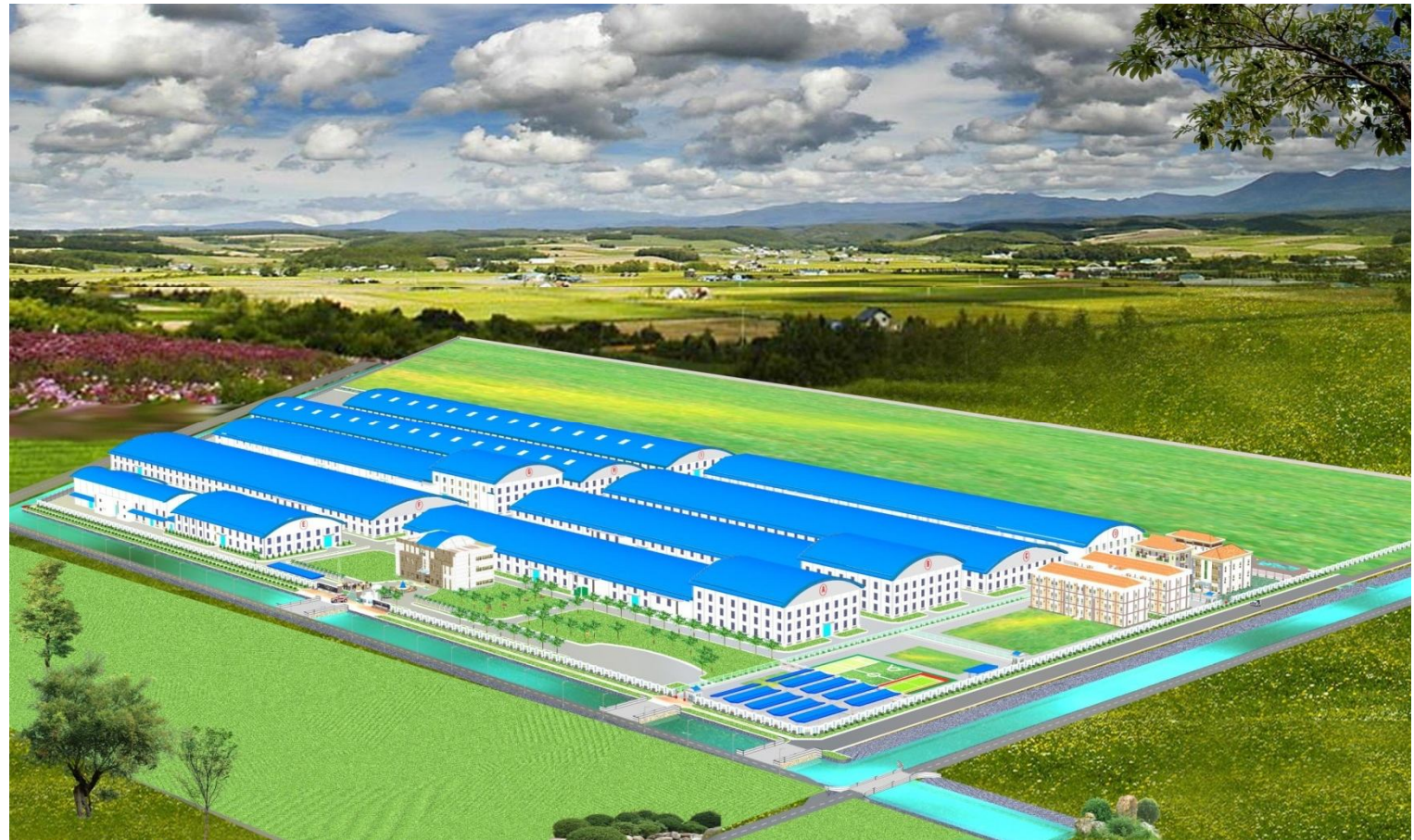


350,000 square meters (200,000 square meters are developed)

Overview of Vietnam plant

Duc Hoa plant

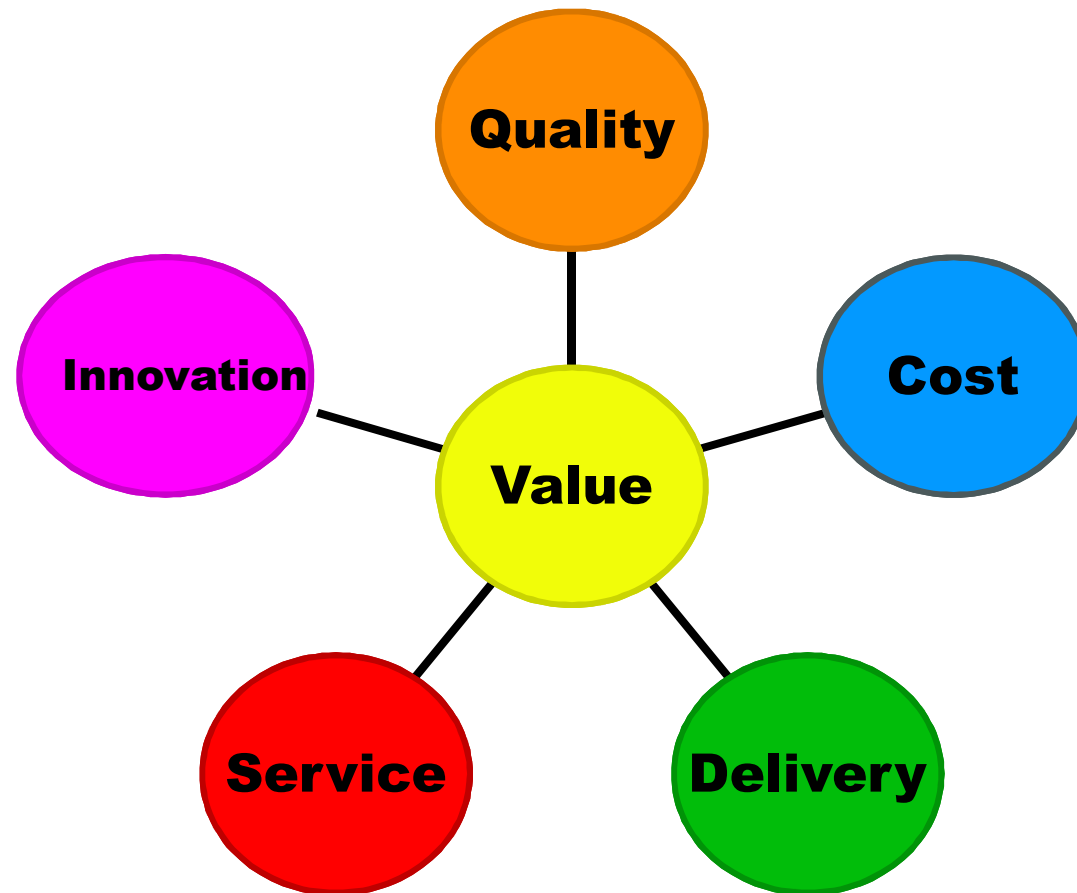
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2010-2015: Increase productivity, Introducing automatic equipment

Core value

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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 expend 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.

Strength

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.

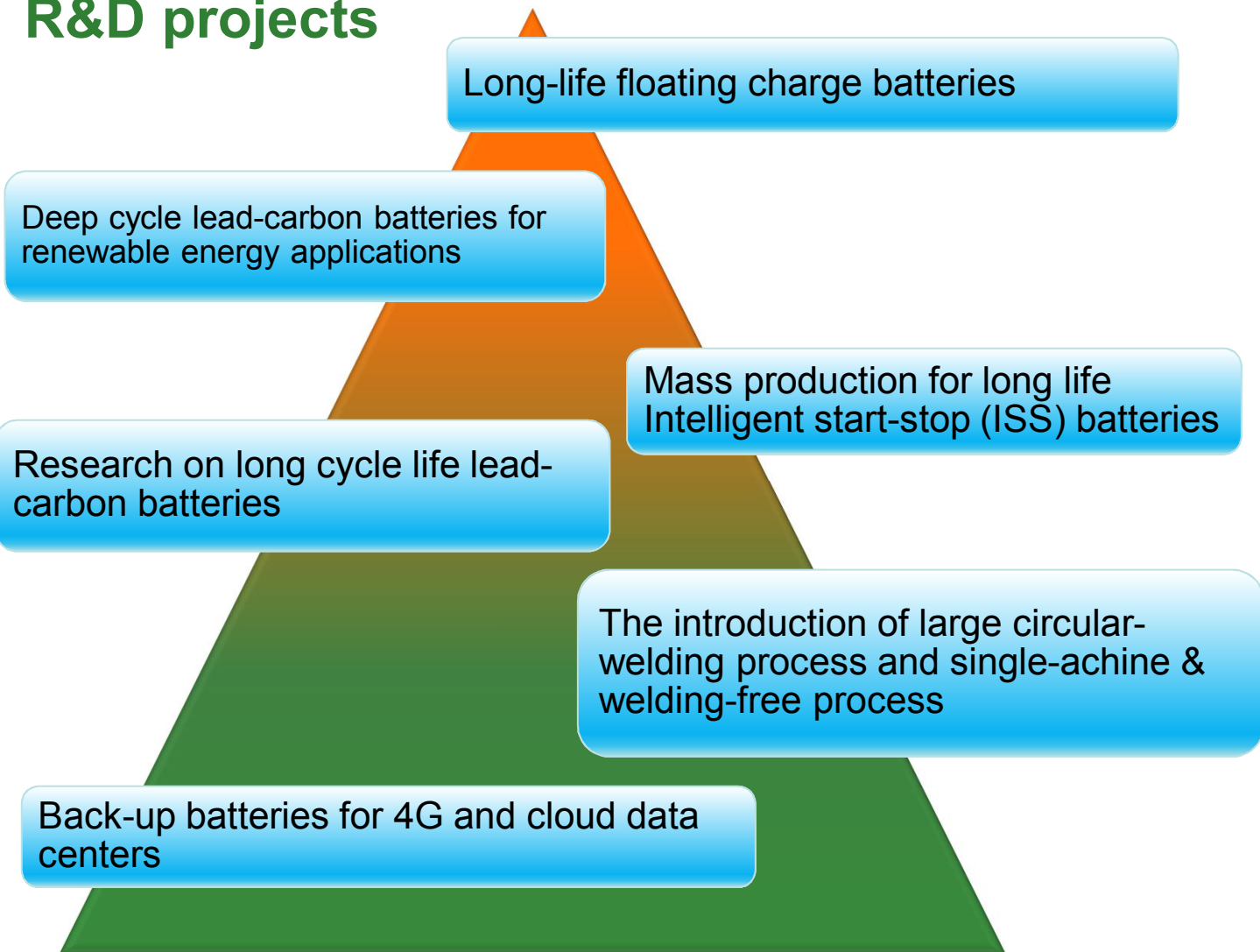
Main production bases of small/ medium sized SLA batteries are located in China and Vietnam. When Chinese labor costs keep rising, RMB is under pressure for appreciation, and SLA industry is limited, Chinese battery manufacturers are forced to move to outside. However it’s difficult to find a suitable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

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R&D projects

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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 :

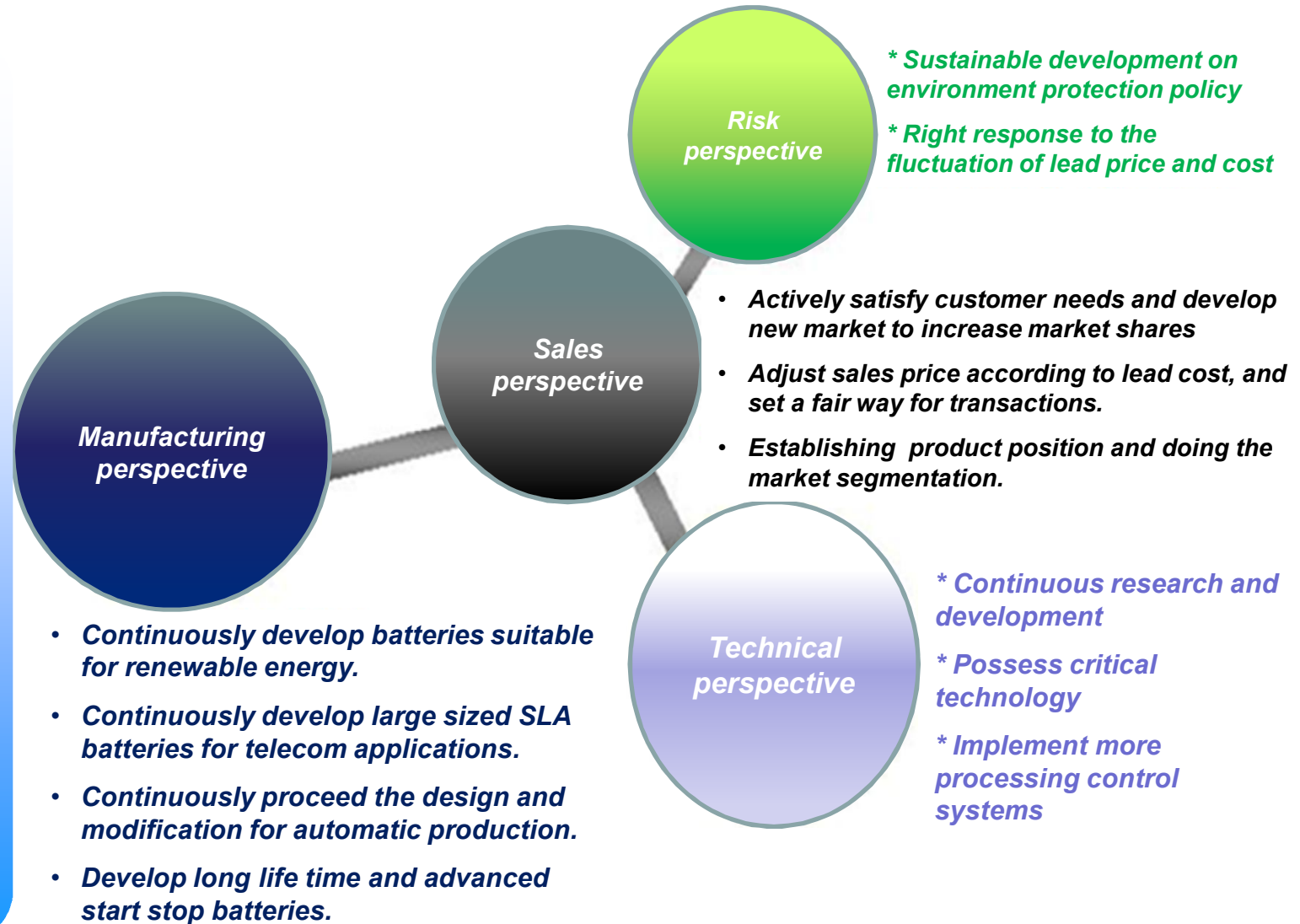
Continuously develop light weight models which meet market needs to increase gross margin.

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

Vincent Liu

Financial Senior Manager

Email: vincent@mail.klb.com.tw

TEL: +886-49-2254777

LONG BATTERY

