



Doosan Engine

Investor Relations 2012 Operating Results



March 2013
Doosan Engine

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Disclaimer

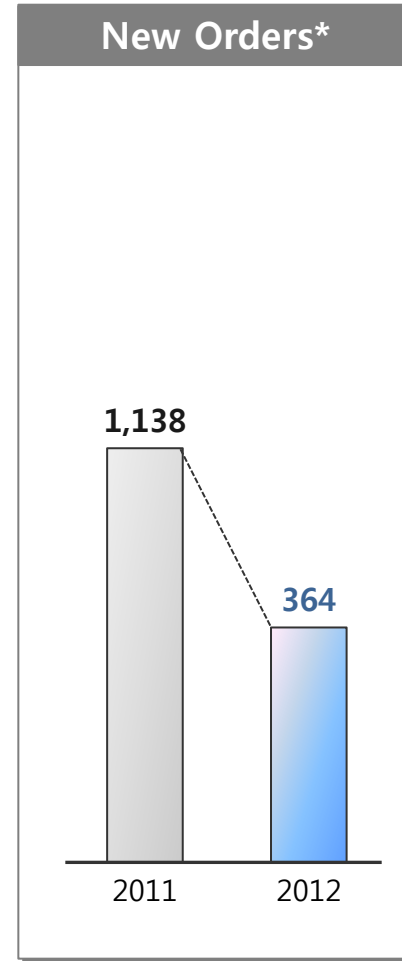
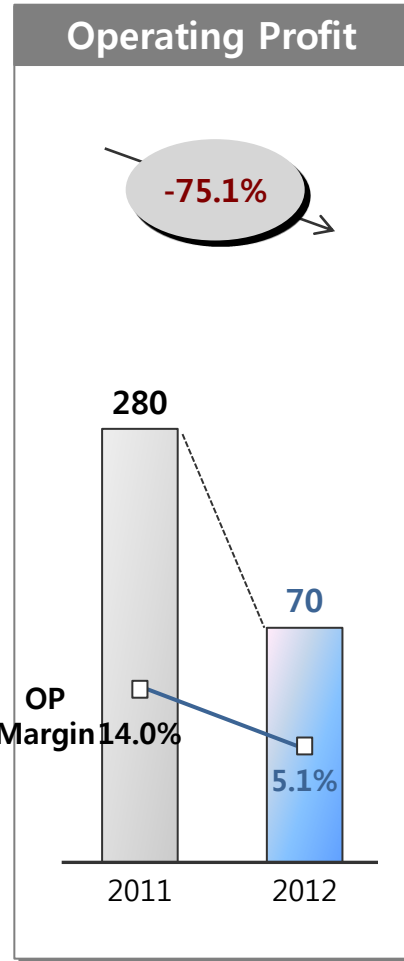
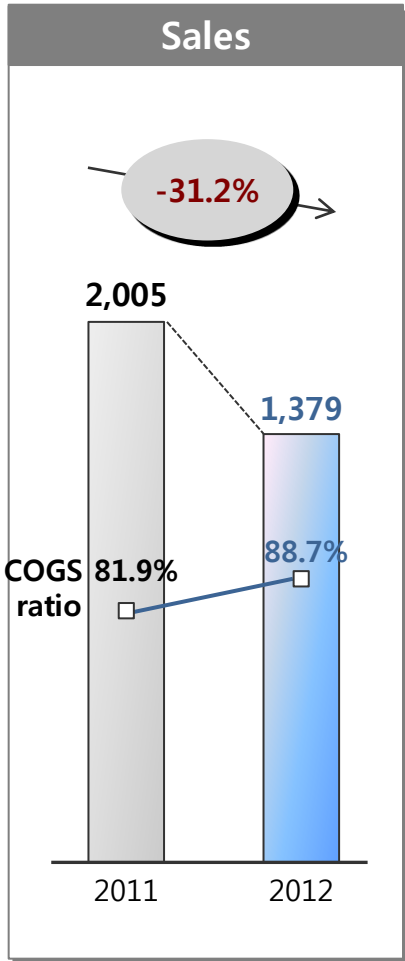
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2012 Operating Results Summary

(Wbn)



- New Orders : Based on receiving advance receipts

4Q Income Statement

✓ Sales W318bn, Operating Loss W22bn(OPM -7.0%)

(Wbn)

	'12.4Q	'12.3Q	QoQ	'11.4Q	YoY
Sales	318 ¹	288	+10.3%	532	-40.3%
COGS ratio(%)	(96.9%)	(85.7%)	(+11.2%p)	(86.5%)	(+10.4%p)
Gross Profit	10	41	-75.8%	72	-86.1%
SG&A	32	17		21	
Operating Profit	-22 ²	23	TR	51	TR
OP Margin(%)	(-7.0%)	(7.9%)	(-15.9%p)	(9.6%)	(-17.5%p)
Other gain & loss*	-4	-1		-10	
Financial income & loss	-0.9 ³	-0.2		+4	
Equity Method gain & loss	111 ⁴	-0.1		+0.9	
Pretax Profit	85	22	+286.4%	47	+80.9%
Tax	-7	4		18	
Net Profit	91	18	+411.1%	29	+217.2%

- Other gain & loss are classified as non-operating profit and loss according to the new business accounting standard

4Q Main Points (QoQ)

- 1 Sales +10.3%(QoQ)**
 - Increase in deliveries(deferred from 3Q)
- 2 OP Margin -7.0% (Turned Red)**
 - Deteriorated Product Mix
 - SG&A increased W15bn QoQ
 - One-off expense occurred due to restructuring related cost(W20bn)
- 3 4Q Financial Income/Expense -W0.9bn**
 - Interest income & expense -W0.1bn
 - FX translation gain & loss +W5.2bn
 - Forward hedging gain & loss -W6.2bn
- 4 Gain/Loss Equity Method +W114bn**
 - Gain on equity investment evaluation +W20.1bn
 - Gain on disposal of equity investment +W91.3bn (Bobcat stake fell 18.4%→15.5%)

2012 Income Statement

✓ Sales W1,379bn, Operating Profit W69bn(OPM 5.1%)

(Wbn)	2011	2012	YoY
New Orders ¹⁾	1,138	346	-69.6%
Sales	2,005	1,379	-31.2%
COGS ratio(%)	81.9%	88.7%	+6.8%p
SG&A	68	85	
Operating Profit	280	69	-75.0%
OPM(%)	14.0%	5.1%	-8.9%p
Other Gain ²⁾	7	13	
Other Loss ²⁾	23	12	
Financial Income	83	121	
Financial Expense	78	120	
Gain/Loss on Equity Method	12	136	
Pretax Profit	297	208	-30.0%
Net Profit	225	190	-15.6%
Net Debt	-158	46	
Debt ratio	257%	139%	

1) New Orders : Based on receiving advance receipts

2) Other gain & loss are classified as non-operating profit and loss according to the business accounting standard, 2011 operating profit before the change of accounting standard

Main Issues	
New Orders	<ul style="list-style-type: none"> • New Orders W346bn (-69.6% YoY) <ul style="list-style-type: none"> - Marine engine orders struggled due to the depressed commercial vessel market - Diesel Power Plant new orders W109bn
Sales	<ul style="list-style-type: none"> • Marine Engine : Engine shipments declined from the decrease in engine shipment • Diesel Engine : Sales jumped W22bn due to increase in progress completion
Non-Operating gain/loss	<ul style="list-style-type: none"> • Financial Income/Expense +W1.2bn <ul style="list-style-type: none"> - Interest income & expense +W3.5bn(-W2.2bn YoY) - FX Translation Gain & Loss+W7.4bn(+W10bn YoY) - Forward Hedging Gain & Loss -W9.1bn(-W9.3bn YoY) • Gain/Loss on Equity Method +W136bn <ul style="list-style-type: none"> - DSD, Casco -W1bn - Bobcat +W137bn (Gain on equity investment evaluation W46bn Gain on disposal of equity investment W91bn)

2012 Balance Sheet

✓ Net Debt W45bn, Liability Ratio 139%

(Wbn)

	'11.12	'12.12	+/-
Current assets	994	641	1 -353
Non-current assets	1,056	1,145	+89
Total assets	2,050	1,786	-264
Current Liabilities	1,217	718	-499
Advance receipts	724	393	2 -331
Non-current liabilities	259	320	+61
Total liabilities	1,476	1,038	-438
Paid in capital	69.5	69.5	0
Capital Surplus	367	367	0
Retained earnings	140	333	+193
Accumulated other comprehensive income	-3	-22	-19
Total equities	573	748	3 +175
Total debt	319	313	-6
Cash & Cash Equivalents	477	267	-210
Net Debt	-158	+45	4 +203
Liability ratio	257%	139%	-118%p

Key Points

1 Current assets -W353bn

- Cash & Cash Equivalents fell due to the decrease of advance receipts and return of bond -W231bn
- Account receivable declined from the decrease number of engine shipments -W47.9bn

2 Advance receipts -W331bn

- Advance receipts dropped since new orders decreased

3 Total equities +W174bn

- Increase of net profit +W190bn

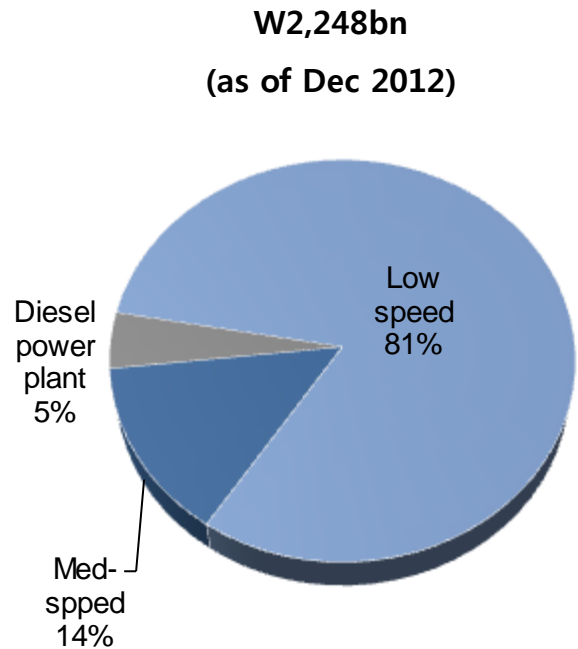
4 Net debt +W203bn

- Cash fell due to the decreased new orders -W210bn

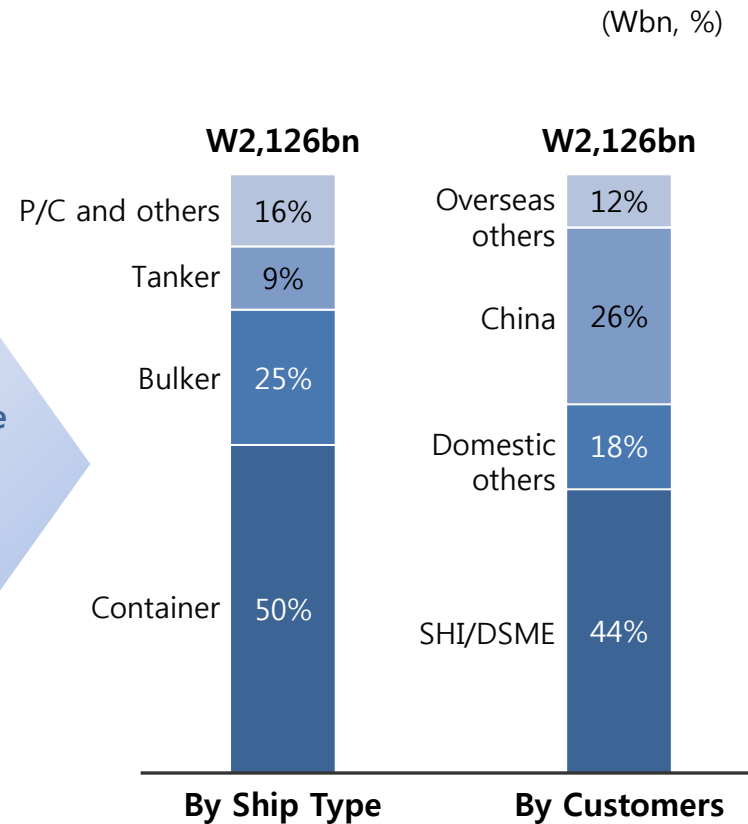
Order backlog

✓ Order backlog : W2.2tr, marine engine accounts 95%

Order Backlog Breakdown



Marine engine
(low speed +
med speed)
: W2,126bn

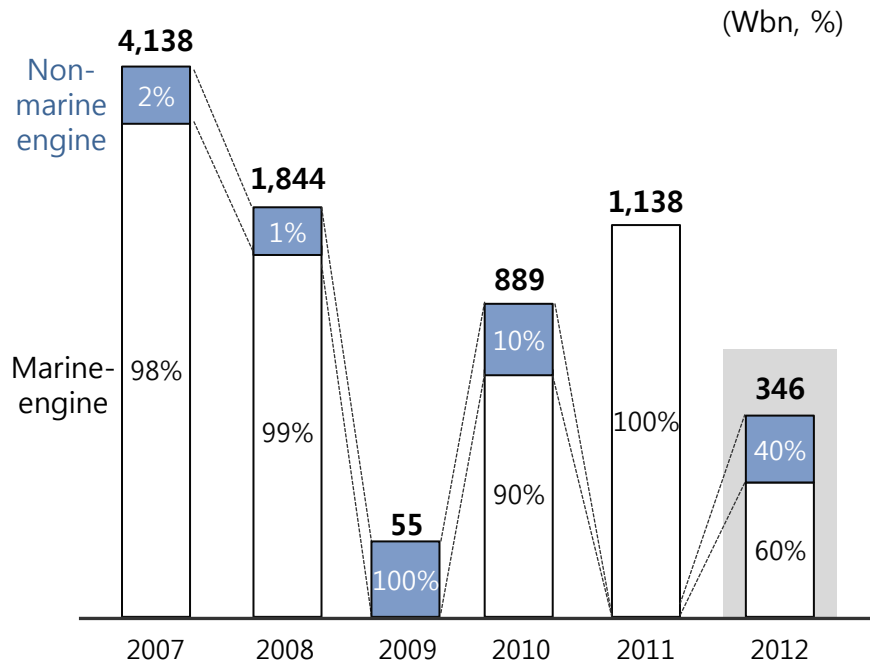


※ Backlog : Recognized upon receiving advance receipts
(reflection of cancellation and order changes)

Annual new orders & order backlog

- ✓ Order backlog dropped 37% YoY since new orders decreased and fell 68% against its peak in '08
- ✓ Marine engine new orders have struggled due to the depressed commercial vessel market, but the increasing new orders in diesel power plant contributed to building a diverse business portfolio

Annual new orders trend



Annual order backlog trend

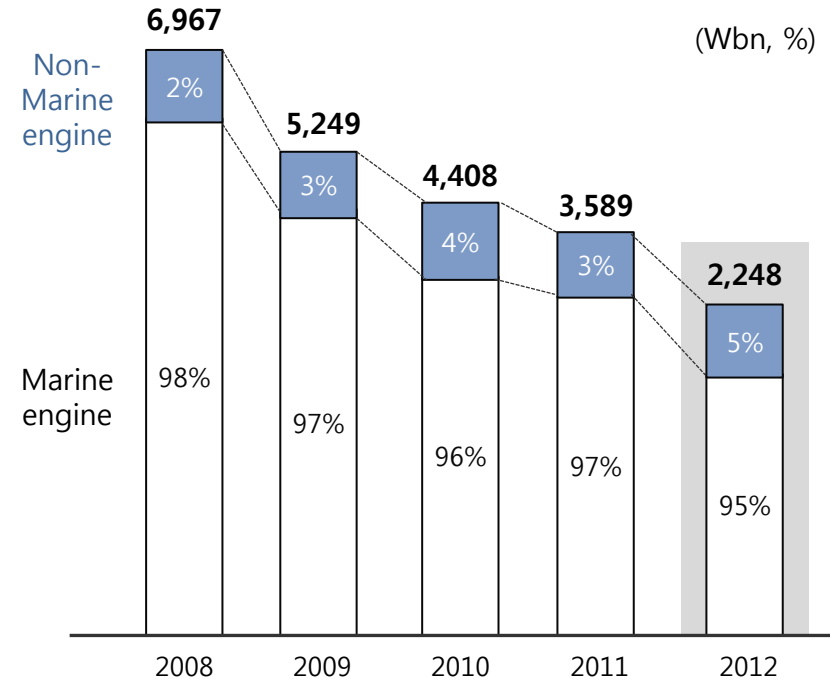


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Mid to Long Term Growth Strategy

- ✓ Implementing a diverse business portfolio by strengthening diesel power plant and focusing non-shipbuilding business
- ✓ Differentiated order-taking competitiveness and securing cost competitiveness by strengthening marine engine business

Strategy	'13 Key Strategy	Main Issues
<p>1</p> <p>Stable Business Portfolio</p>	<ul style="list-style-type: none"> • Strengthening Diesel Power Plant • Improving non-shipbuilding business by building a diversified business portfolio 	<ul style="list-style-type: none"> • Implementing EPC based system engineering • Expanding new order pool and market intelligence • Developing eco-friendly/efficiency-enhancing ship parts • Developing non-shipbuilding business
<p>2</p> <p>Strengthen Engine Business Competitiveness</p>	<ul style="list-style-type: none"> • Strengthening marine engine business 	<ul style="list-style-type: none"> • Securing cost competitiveness • Strengthening R&D/sales force

Mid-to-long term Vision

✓ Focus on non-marine engine areas to achieve W3tr sales by 2017

Mid to long term Financial Aspiration – Sales

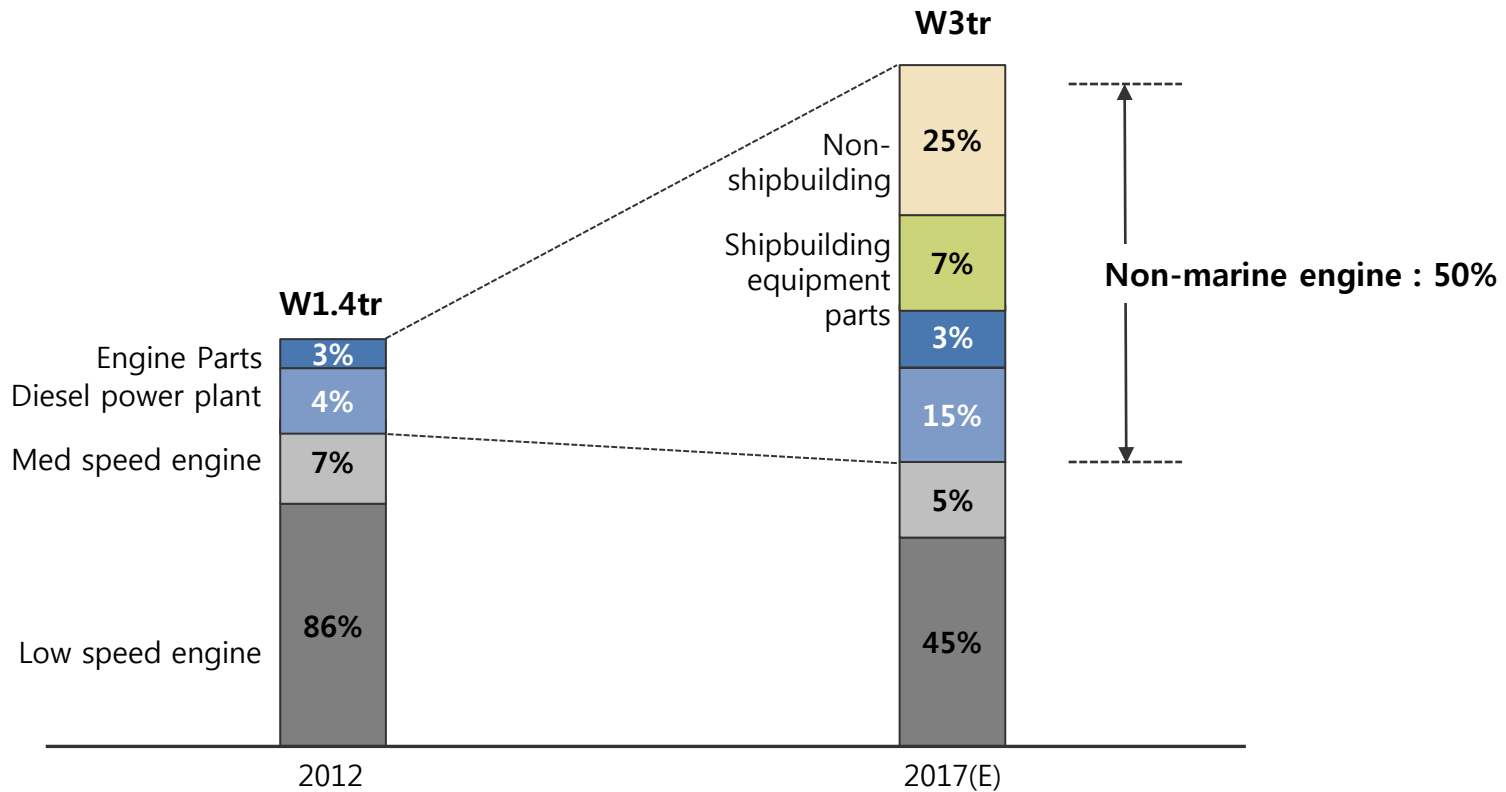


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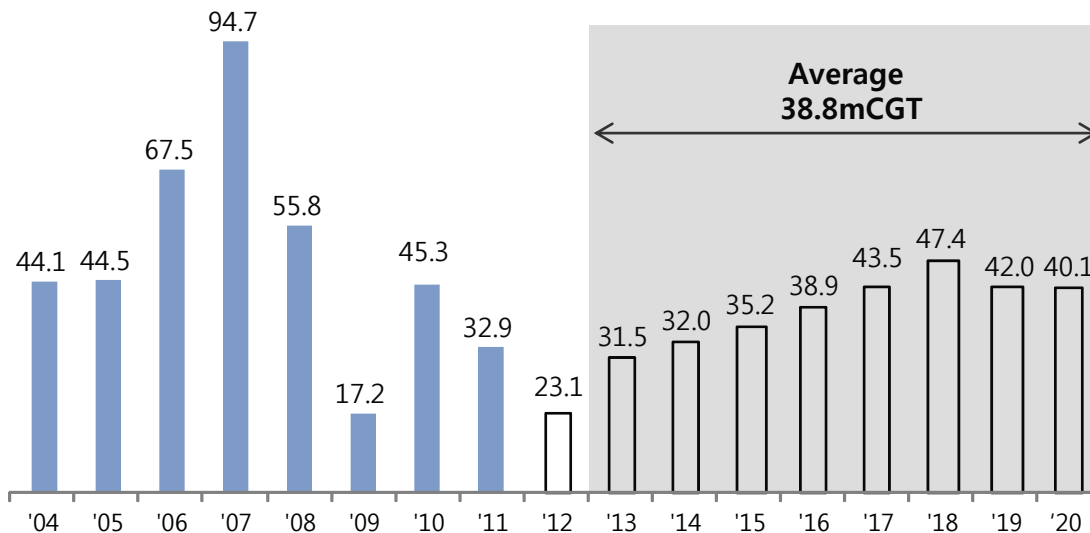
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Shipbuilding market outlook

- ✓ The global new order outlook will start to recover in 2013 and likely to maintain an annual average of 39mCGT level until 2020
- ✓ The abatement(emission reducing equipment)market will significantly grow to W3tr in 2020 after the market develops in 2013

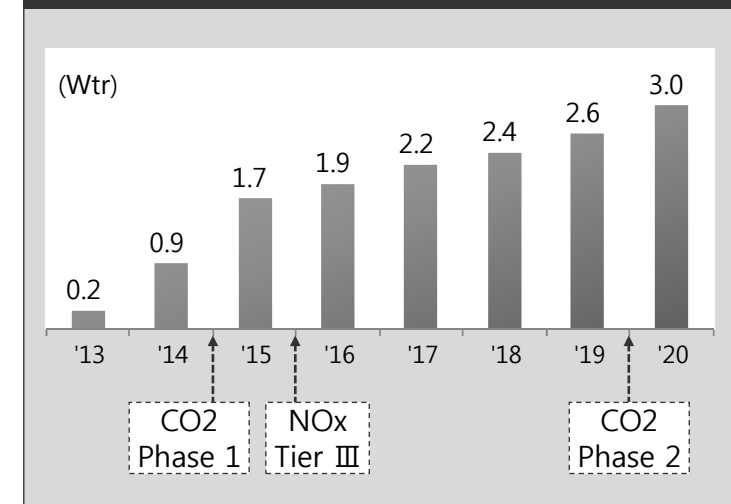
Global new order outlook

(mCGT)



* Source : Clarkson Forecast Report('13.3)

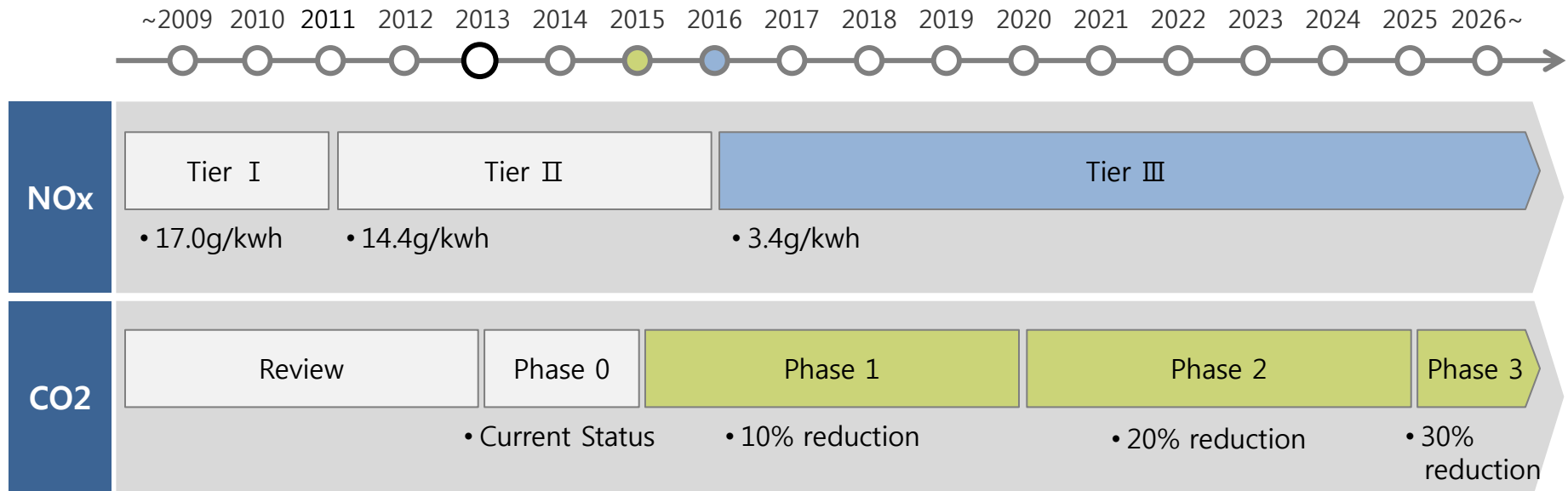
Abatement market size outlook



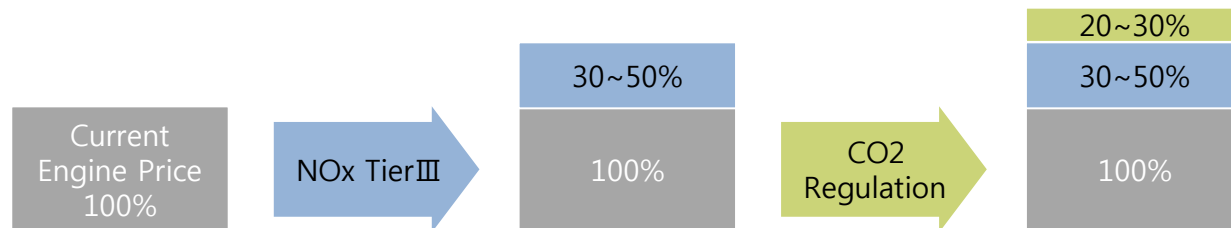
* Source : Doosan Engine Estimates

Investment Point 1. IMO environmental regulation trend

IMO regulation Milestone



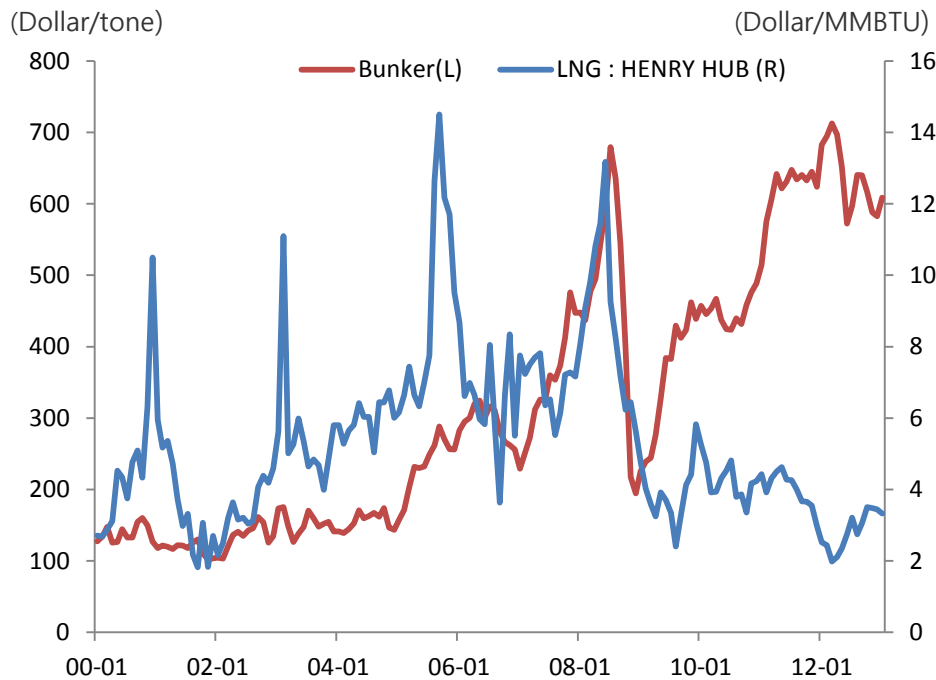
Impact on Engine Price



Investment Point 2 : ME-GI(ELECTRIC DRIVEN - GAS INJECTION) Engine(1/2)

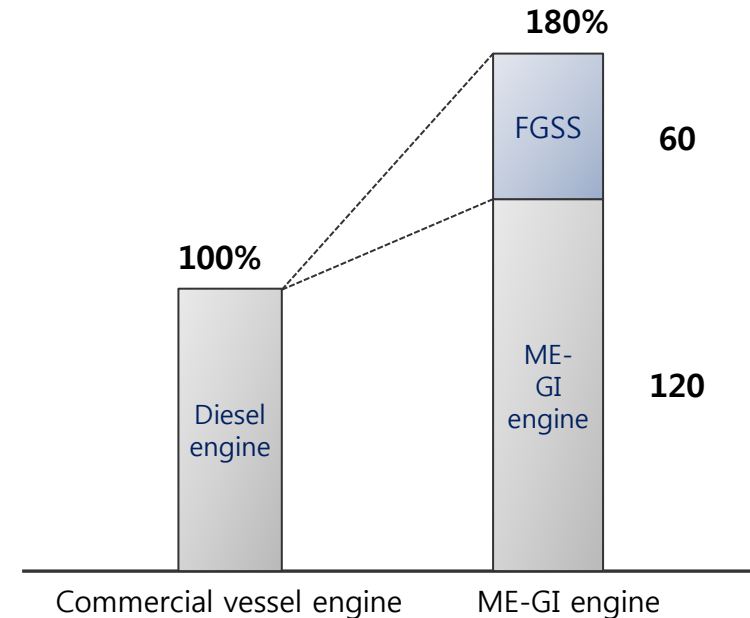
- ✓ The expansion of shale gas led to the decrease of natural gas price, LNG is environment friendly and secures economic efficiency
- ✓ The price of ME-GI engine is higher than the diesel engine, therefore it will create new business opportunity

Natural price and bunker price trend after 2000



* Source : Bloomberg

Engine price impact

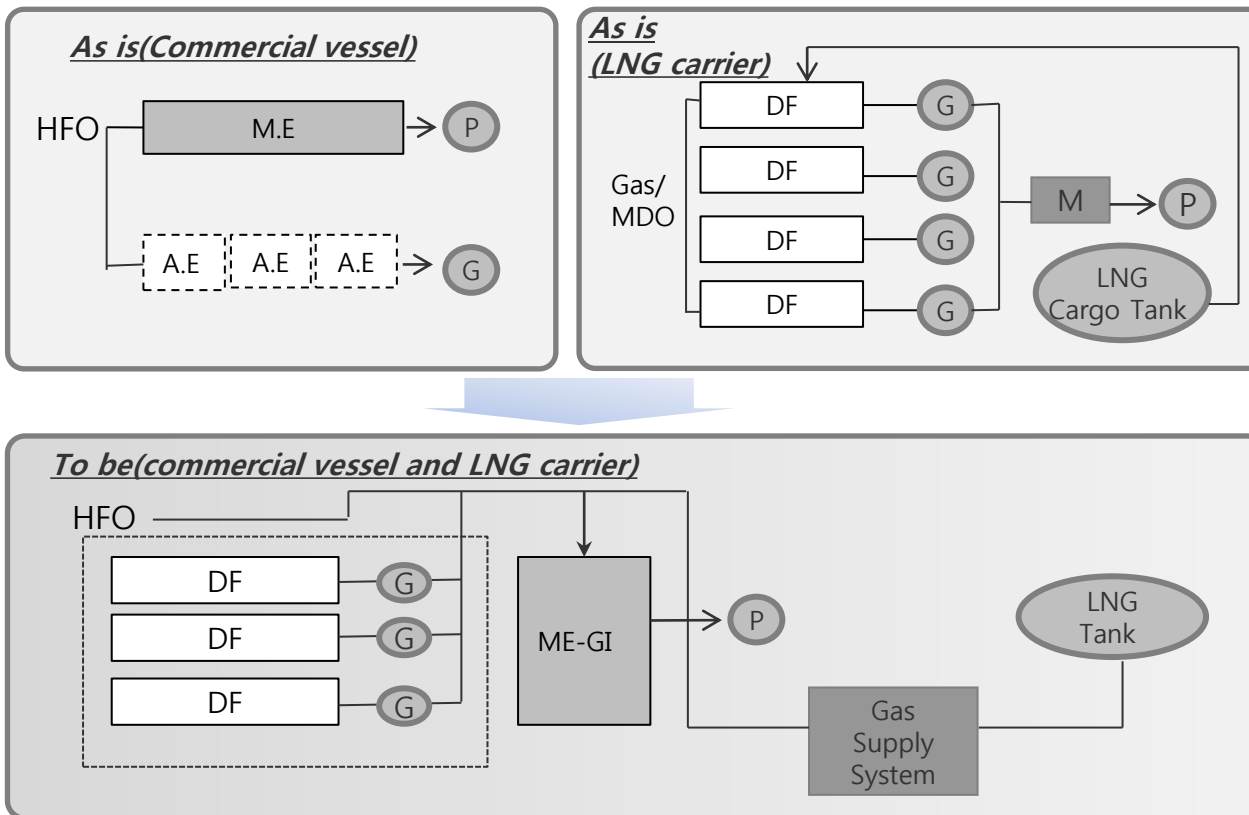


* FGSS : Fuel Gas Supply System, we expect outsource from DSME

Investment Point 2 : ME-GI(ELECTRIC DRIVEN - GAS INJECTION) engine(2/2)

- ✓ ME-GI engine meets environment regulation issues and generates massive output power
- ✓ The future engine propulsion system in commercial vessel(diesel engine) and LNG carrier(DF engine) will likely replace to ME-GI engine

The change of engine propulsion system



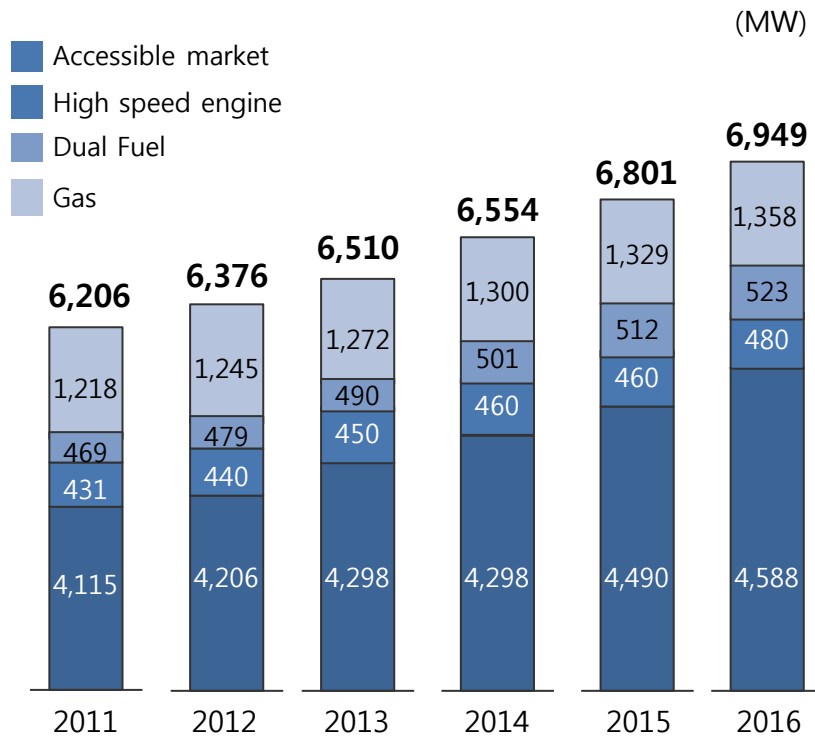
Engine efficiency/ Environment regulation		
	Engine efficiency	Environment regulation
Diesel engine	46%	X
Med speed DF engine	40%	O
ME-GI engine	46%	△

- M/E= Main Engine A/E= Auxiliary Engine, DF=Dual Fuel, P=Propeller G=Generator HFO=Heavy Fuel Oil MDO= Marine Diesel Oil, M=Motor

Investment Points 3. Diesel Power Plant Market

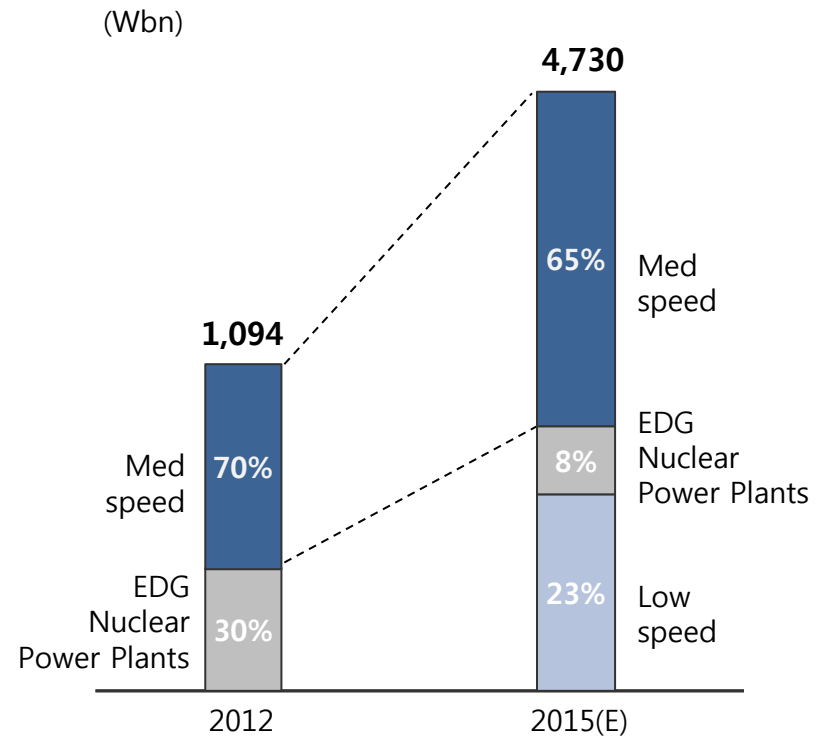
- ✓ The diesel power plant market will grow an average of 6,585MW per year since the increasing demand of small to mid sized electricity, our accessible market is around 4,348MW(W4tr)
- ✓ Improvement in EPC based system engineering will strengthen the diesel power plant business in the long term

Diesel power plant market outlook



* Source : IEA, World Energy Outlook 2010

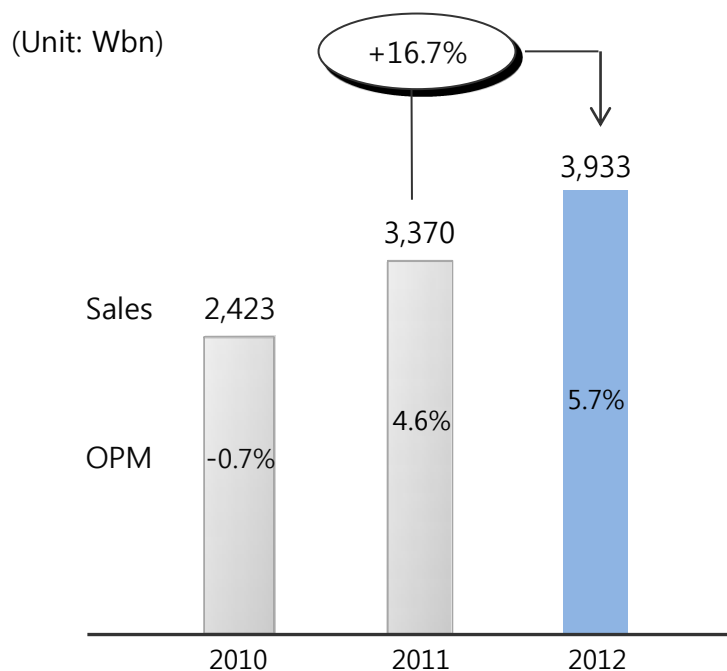
Mid to long-term new order outlook



Investment Points 4. Bobcat Turnaround

- ✓ 4Q Sales W891bn(-10% YoY), '12 Sales 3,933bn(+16.7% YoY)
- ✓ '12 Gain(Loss) on Equity Method of Bobcat W137bn(Gain on equity investment evaluation W46bn, Gain on disposal of equity investment W91bn)

Bobcat Sales and Operating Profit Trend ('10~'12)



* Source : Doosan Infracore IR material('13. 2)

Bobcat Operating Results

(Wbn, %)

	'11.4Q	'12.4Q	YoY
Sales	991	891	-10.0%
OP	58	39	-32.4%
OPM(%)	(5.9%)	(4.4%)	(-1.5%p)

Equity Method Gain/Loss

(Wbn, %)

	FY 2011	FY 2012
Stake(%)	18.4%	15.5%
Acquisition Cost	738	738
Book Value	325	447
Gain(Loss) on Equity Method of Bobcat	13	*137

*Gain(Loss) on equity method includes gain on equity investment evaluation and gain on disposal of equity investment

Appendix

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- II. History**
- III. Plants**
- IV. Production infrastructure**
- V. Business area**
- VI. IR Contact Point**

Appendix 1. Company Overview

Overview

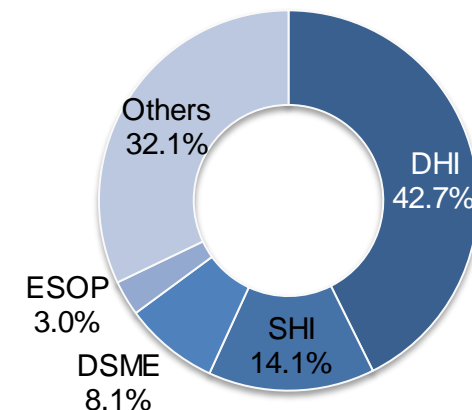
Company	Doosan Engine Co., Ltd
Date of Foundation	Dec 30, 1999
Address	Sinchon-dong 69-3, Seongsan-gu, Changwon-si, Gyeongnam
Business	Marine diesel engines / Diesel engines for power plants
Exports	Local/direct Exports(96%), Domestic (4%)
Capital	W69.5bn
No. of Employees	1,005 [As of Dec 2012]
Subsidiary	Doosan Marine Industrial (DMI) Dalian Co., Ltd (100% owned)

Business Areas

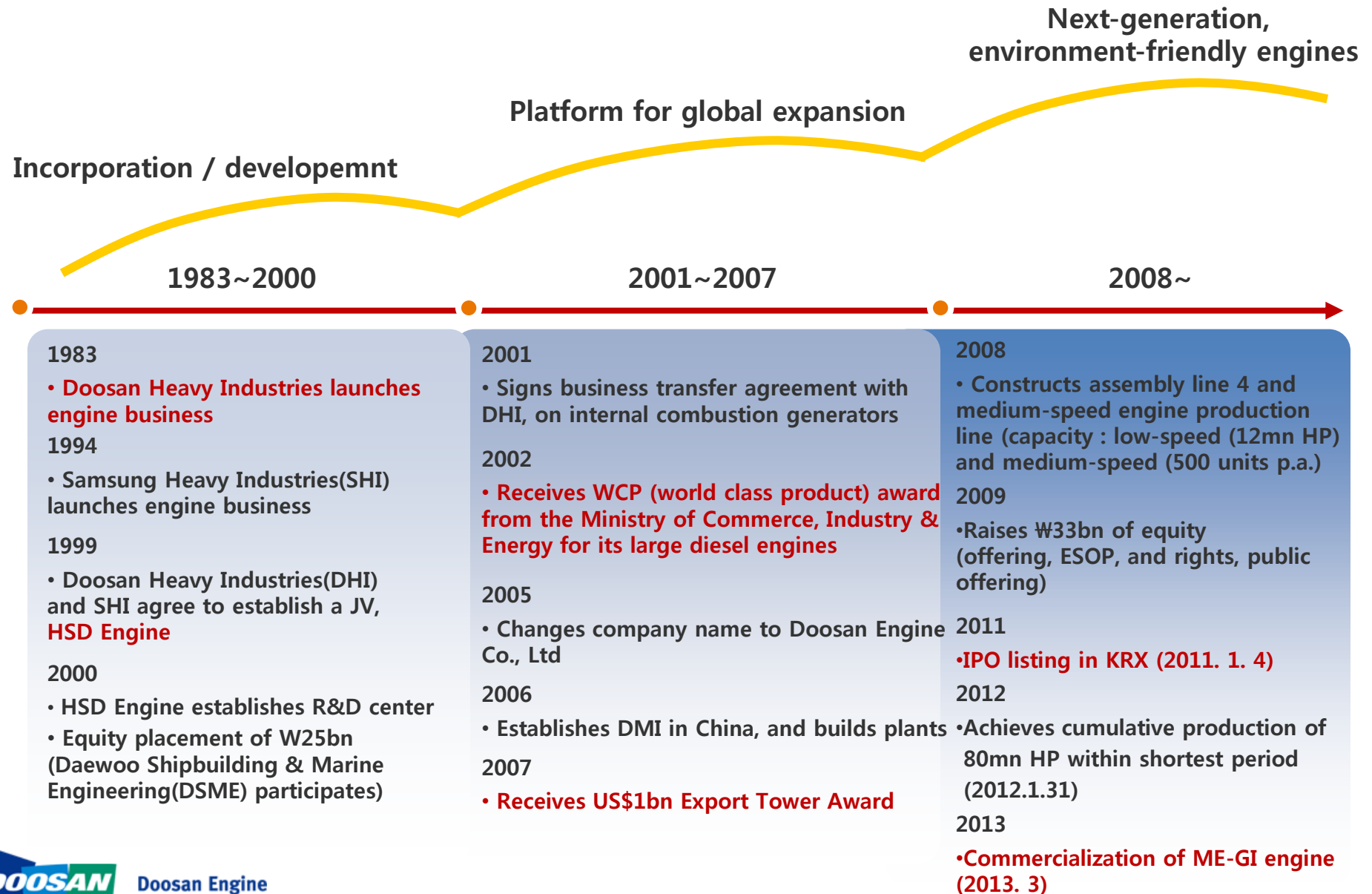
Business Areas	Sales (2012)	% of sales
Low-speed engine	W1,183bn	86%
Med-speed engine	W92bn	7%
Diesel power plant	W59bn	4%
Engine parts and C/S	W45bn	3%
Total	W1,379bn	100%

Shareholders

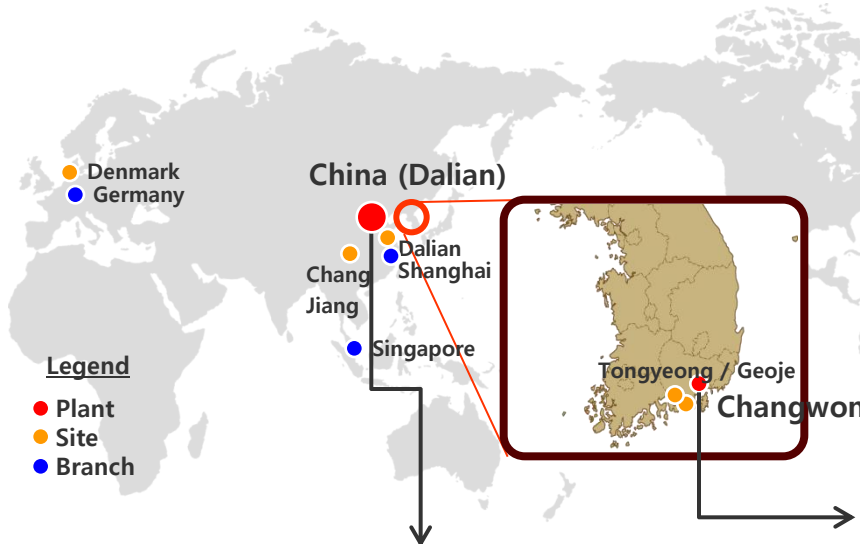
[As of 2012.12.31]



Appendix 2. History



Appendix 3. Plants



Dalian, China plant



- Size : 57,904m² (17,500 pyeong)
- Product line-up : Diesel engine parts
- Production capacity : 250 blocks of engine canning parts

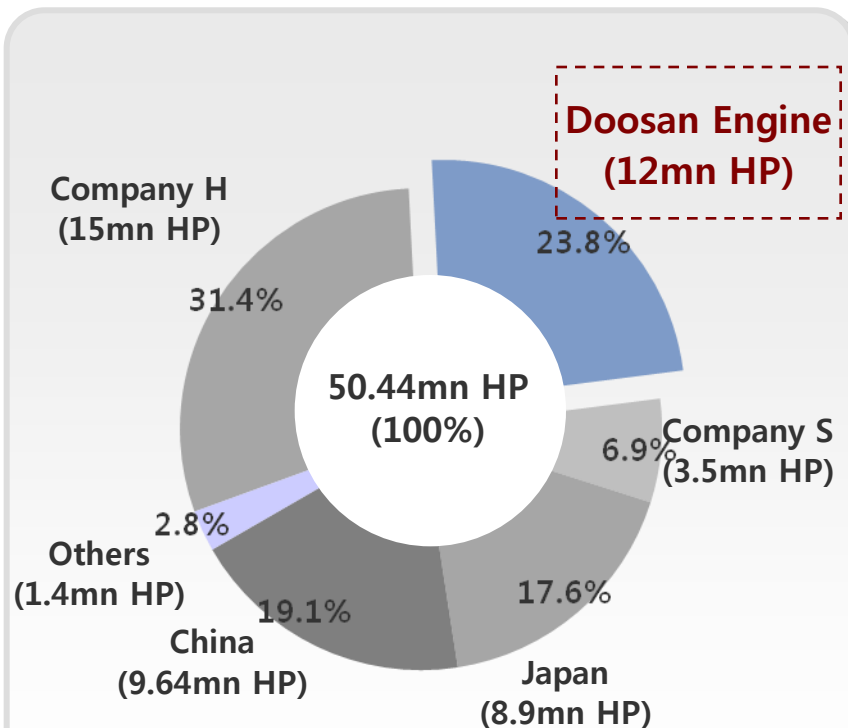


- Products : Diesel engines
- Size : 328,000m² (99,500 pyeong)
- Overview

Classification	Size(m ²)	Production CAPA (per year)
Low-speed engine plants	42,720 (12,922 pyeong)	12,000,000 HP
Med-speed engine plant	17,010(5,145 pyeong)	2,000,000 HP
Processing plant	27,100(8,197 pyeong)	
Canning plant	4,894(1,480 pyeong)	
Total Capacity		14,000,000 HP

Second largest diesel engine production facility in the world

Low-speed diesel engine production Capacity



Note : Estimates based on each company's 2010 annual report

Production facilities and infrastructure

1. Large low-speed diesel engine plant

- Production capacity : 12mn HP
(Operating in 9mn HP)
- Assembly and testing plants
- Processing plant (7 Plano Millers, 8 Boring)
- Canning plant(250 blocks/year)

2. Medium-speed diesel engine plant

- Production capacity : 500units
- Assembly and testing plants
- Processing plant (5 Plano Millers, 4 Mill-Turns)

3. Top-of-line production infrastructure

- High-quality supply chain
(Quality/stable procurement and joint R&D)
- Cutting-edge production system
("Flow production", "fool-proof" system)
- Skilled design and production workforce

Appendix 5. Business area : Low-speed diesel engines

Low-speed diesel engines



- Main Business(2012 Sales- 86% of total sales)
- Uses : Large vessels
(e.g. containerships, crude tankers, LNG carriers)
- Market position : No.2 globally, with 24% m/s
- Customers : SHI, DSME, Yangzijiang(China)
Sinopacific(China), COSCO(China)

Containership engines



Crude tanker engines



LNG carrier engines



Bulk carrier engines



Appendix 5. Business area : Med-speed diesel engines

Medium-speed diesel engines



- New growth business
(Sales : 7% of total sales in '12)
- Uses : Auxiliary engines in large ship engines,
Propulsion engines in small to mid-sized ships
- Customers : SHI, DSME, China, Brazil



Warship (Dokdo
naval ship) engines



Cruise engines



Drillship engines



Ferry engines

Appendix 5. Business area : Power plants (Low-speed & Medium-speed)

Diesel Power Plant

Med-speed Diesel Power Plant

- Med-speed diesel power plant engine
- Generates 1~25MW power suited for small capacity power plant
- Installed in small islands or remote areas and used for emergency purpose
(Philippines, Fujairah, Bangladesh)



Emergency Generators for Nuclear Power Plants

No.1 supplier of emergency generators for nuclear power plants

- Exclusive supplier of emergency generators for nuclear power plants in Korea; Orders to grow from rise in nuclear power plant exports
- Generates power capacity of 3,500 ~ 9,000KW
- Supplied to the major nuclear power plants in Korea

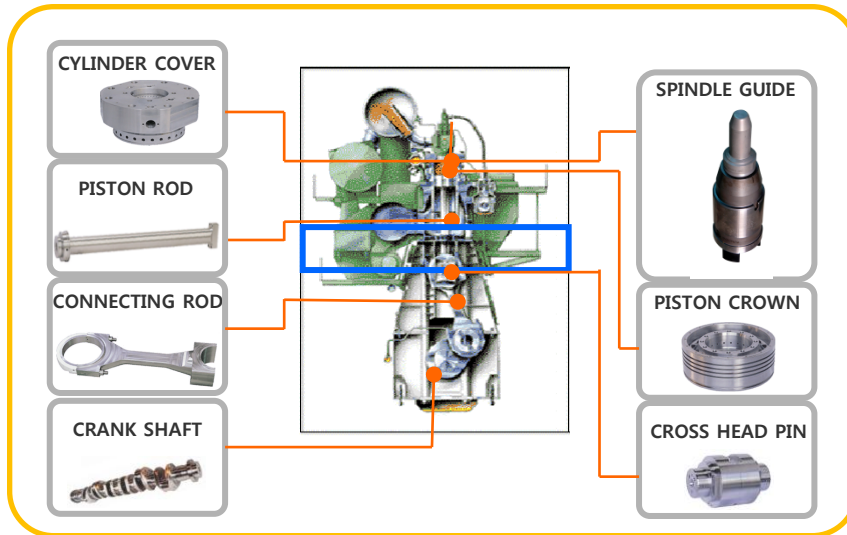


※ DPP (Diesel Power Plant) : Power plant with small capacity that is used in a place where construction is difficult (e.g. islands)

EDG (Emergency Diesel Generator) : EDG is a diesel-powered emergency backup systems for nuclear power plants

Appendix 5. Business area : Parts & C/S

Main engine parts



- Uses : Ship engines, Retrofit
- Customers :
 - 14 agencies (12 domestic, 2 overseas)
 - Ship owners: A.P.Moller(Denmark), CSCL(China), NOVO Ship(Russia)
- Market size : ₩600bn(as of 2012)
- Business overview
 - Domestic production of engine parts
 - Developing paid A/S items



CYLINDER COVER



ROD(CON/PISTON)



ALPHA RETROFIT



CROSS HEAD PIN

Appendix 6. IR Contact point

For further information about our company or affiliates, please contact us at the following.

Company	Name	Phone	E-mail
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Doosan Heavy	Ms. WON Youngsoo	82-2-513-6789	youngsoo.won@doosan.com
Doosan Infracore	Ms. OH Hyunji	82-2-3398-8416	hyunji.oh@doosan.com
Doosan E&C	Ms. LEE Hayoung	82-2-510-3896	hayoung.lee@doosan.com