HATIOTI SYSTEMS

2022 Global Investor Day

February 10, 2022

Today's Speakers



Min Sung
Chief Executive Officer and
Representative Executive Officer



Nurdal Kücükkaya

President and
Representative Executive Officer



Subu Nagasubramony
Executive Vice President and
Chief Financial Officer



Steven Clarke
Vice President and
Chief Technology Officer

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Subu Nagasubramony

Executive Vice President and Chief Financial Officer

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FY 2021: Key Financial Metrics



(KRW in Billions)

	FY 2021	FY 2020	YoY	Variance
Revenue	7,351	6,873	478	7.0%
COGS	6,502	6,008	494	8.2%
% of Sales	88.5%	87.4%		
SG&A (Incl. R&D)	523	549	-26	-4.6%
% of Sales	7.1%	8.0%		
EBITDA	834	784	50	6 .4%
Margin (%)	11.3%	11.4%		
Operating Profit	326	316	10	3 .2%
Margin (%)	4.4%	4.6%		
Net Income	311	113	198	173.9%
Margin (%)	4.2%	1.7%		

YoY Improvement in Revenue, EBITDA and Net Income Despite Continued Market Slowdown

4Q 2021: Key Financial Metrics



(KRW in Billions)

	1001	1000		2001	0.00
	4Q21	4Q20	YoY %	3Q21	QoQ %
Revenue	1,926	2,101	-8.3%	1,704	1 3.0%
COGS	1,722	1,761	-2.2%	1,506	14.4%
% of Sales	89.4%	83.8%		88.4%	
SG&A (Incl. R&D)	143	146	-1.7%	128	11.9%
% of Sales	7.4%	6.9%		7.5%	
EBITDA	194	318	-39.1%	194	-0.1%
Margin (%)	10.0%	15.1%		11.4%	
Operating Profit	61	194	-68.7%	71	-13.9%
Margin (%)	3.2%	9.2%		4.1%	
Net Income	98	90	9.7%	53	87.0%
Margin (%)	5.1%	4.3%		3.1%	

Revenue Recovery from 3Q21; Inflation and Supply Chain Issues Negatively Impacted OP Margin

FY 2021 Highlights



2021 Highlights

- Annual revenue increased 7% YoY on xEV revenue growth; surpassed industry vehicle volume growth of 2%
- Internal and external initiatives mitigated cost impact of industry headwinds
- 22% of 2021 revenue from electrified vehicles; company shipped 2 million electric compressors

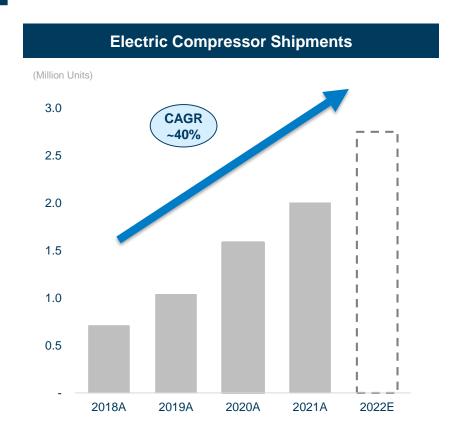
Sales Breakdown (FY2021)

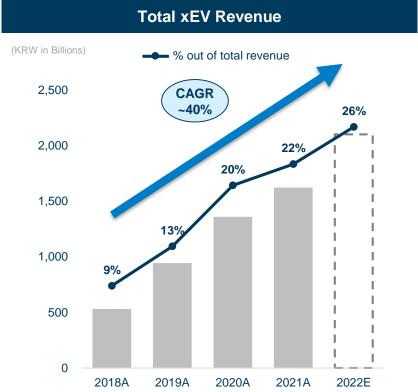




eCompressor Shipments and xEV Revenue



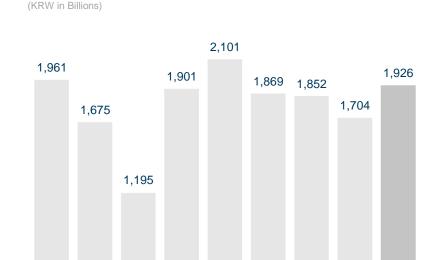




Quarterly Sales



Consolidated Sales



4Q20

1Q21

2Q21

3Q21

4Q21

Comments

4Q21 Quarterly Comments

- Europe, Americas, China and Korea 4Q21 YoY revenue down by 17%, 10%, 9% and 1% respectively
- Decrease in GM (-31%), Mercedes (-25%),
 Ford (-13%), Stellantis (-13%) and VW (-9%)
 YoY revenue due to chip shortage
- BMW (+8%) revenue increased, while HMG revenue remained flat (-1% YoY)

2021 Full Year Comments

- Korea, Europe, Americas and China 2021 YoY revenue up by 8%, 8%, 5% and 3% respectively
- Increase in VW (+27%), Stellantis (+20%), BMW (+19%) and HMG (+13%) in 2021 due to higher ASP of EVs
- Revenue decrease in Ford (-2% YoY), Mercedes (-7%),
 GM (-4%) in 2021 due to volume decline and chip shortage

Gradual Production Volume Recovery Drives 4Q Revenue Increase of 13% QoQ

4Q19

1Q20

2Q20

3Q20

Quarterly COGS





Comments

· Positive factors

- Company mitigates supply chain headwinds through cost improvement actions
- Electrified component profit margins continue to improve driven by higher eco-friendly vehicle volumes

· Negative factors

- Chip shortage continues to impact volumes into 2022;
 OEMs continue to flex production schedules
- Raw material and freight costs remain high, while some are peaking out

Temporary Margin Deterioration due to Prolonged Cost Burden Despite Ongoing Cost Management

Quarterly SG&A





4Q20

1Q21

2Q21

3Q21

4Q21

Comments

- 4Q21 Quarterly Comments
 - SG&A expense: 7.4% of total revenue (+0.5%p YoY)
 - R&D spend (incl. R&D capitalization): 5.1% of total revenue
- 2021 Full Year Comments
 - SG&A expense: 7.1% of total revenue (-0.9%p YoY)
 - R&D spend (incl. R&D capitalization): 4.6% of total revenue

4Q19

1Q20

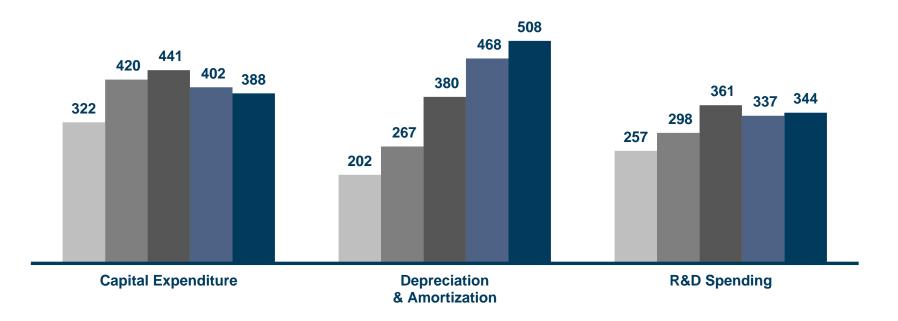
2Q20

3Q20

Trend of CapEx, D&A and R&D Spending







R&D Spending and CapEx to Balance in 2021 Supporting Business Continuity and Future Growth

Dividend



Annual Dividend (KRW per share)



YE 2021 Balance Sheet



(K-IFRS / KRW in Billions, x times)

Balance Sheet			
	Dec 2021	Dec 2020	Dec 2019
Cash and cash equivalent	1,404	1,325	687
Account receivable	1,025	1,202	1,254
Inventories	810	630	613
Property and equipment	2,336	2,224	2,130
Intangible assets	1,790	1,622	1,593
Lease assets	227	211	205
Other assets	642	593	601
Total assets	8,234	7,807	7,082
Account payable	1,475	1,581	1,459
Debt	3,723	3,430	2,734
Other liabilities	560	557	552
Shareholder's equity	2,343	2,117	2,217
Non-controlling	133	122	121
Total liabilities & shareholders' equity	8,234	7,807	7,082

Cash and Debt			
Cash Balance	Dec 2021	Dec 2020	Dec 2019
Net Debt	2,319	2,104	2,047
Net Debt Ratio	0.9	0.9	0.9
Debt to Equity	1.5	1.5	1.2
Leverage	2021	2020	2019
EBITDA	834	784	864
Debt / EBITDA	4.5	4.4	3.2
Net Debt / EBITDA	2.8	2.7	2.4
EBITDA/ Net Interest Expenses	10.5	9.2	13.8

Guidance for 2022

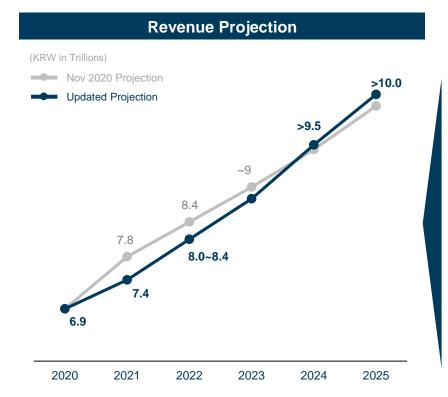


(KRW in Billions)

2022 Guidance	
Revenue	8,000 ~ 8,400
EBITDA	960 ~ 1,000
Operating Profit	410 ~ 450
Capital Spending	370 ~ 400

Mid-Term Revenue Outlook





Key Drivers



- Anticipate improvements in chip shortage and supply chain issues in second half of 2022
- Strong demand in global markets with historically low vehicle inventory



- Continued strong new business win momentum and sufficient backlog
- Increasing share of wallet with anchor customers by winning EV platforms and replacing competitors business



Acceleration

- Emergence of global mega EV platforms
- Elevated EV volume forecast with OEMs carbon emission reduction initiatives
- On-track to achieve >40% of revenue from xEVs in 2025

On-Track to Reach 10 Trillion KRW in 2025 with Upside Opportunity Due to Accelerated Electrification

Profitability Management Strategy



Cost Pressure



Freight Cost Spike

- Duration of Impact: Short
- Controllability: Low



Purchase Cost Increase

- Duration of Impact: Medium
- · Controllability: Medium



Labor & Overhead Inflation

- Duration of Impact: Long
- · Controllability: High

Outlook & Mitigation Strategy

- Freight cost index expected to peak out and decline gradually throughout 2022
- Leverage global footprint to optimize current business
 value stream and accelerate local content
- Expect temporary commodity surcharge impacts in 2021 to recover in 2022
- Leverage market leadership and bargaining power to neutralize cost impact
- Utilize volume rebound ramp-up to absorb increase in labor and overhead costs
- Industry-leading manufacturing excellence and shift to cost-efficient renewable energy for plant operations

Expect Margin Recovery Near Original Projection (EBITDA Margin ~13% in 2023)



Nurdal Kücükkaya

President and Representative Executive Officer

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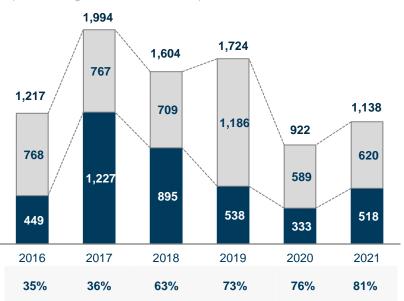
New Business Wins Performance



FY2021 New Business Wins



(Annual Average Revenue in USD Millions)



- Company achieved 2021 NBW target that is increased by 10% in the middle of the year
- Orders from customers other than HMG and Ford account for 83% of FY2021 new wins, accelerating customer diversification
- Ongoing focus to leading position in EV market with strong customer diversification
- Awarded major thermal system order for global EV platform from a premium customer
- Significant increase approaching USD 1.5 billion in 2022

Ecofriendly

(% out of New win)

Achieved Elevated NBW Guidance in 2021; Expect to Exceed 2021 Performance in 2022

Maintained Solid Backlog

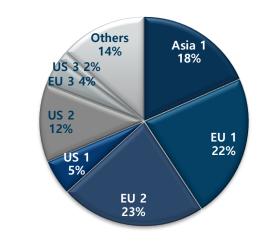


4Q 2021 Backlog





New-win Backlog \$11B xEV ~80%



Note: Total Backlog includes the followings

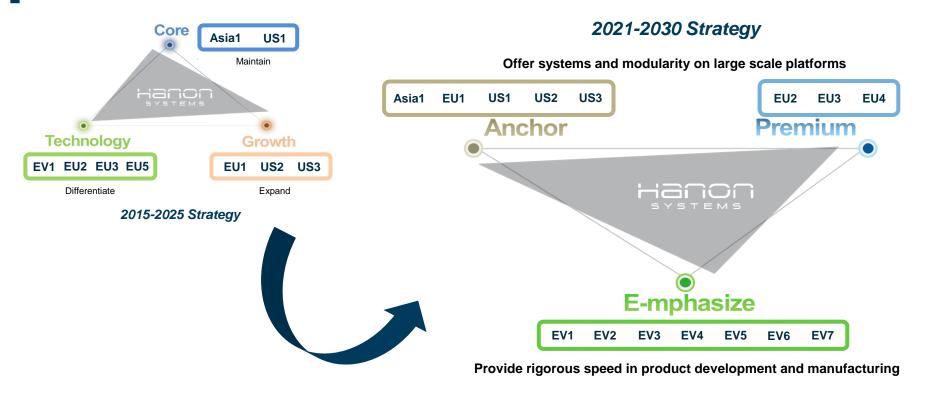
¹⁾ In-production backlog: Remaining life-cycle revenue from vehicles in production

²⁾ Re-win backlog: Program life-cycle revenue of re-win vehicles to be launched

³⁾ New-win backlog: Program life-cycle revenue of new-win vehicles to be launched

Customer Strategy Transition





EV Models with Hanon Systems Products: Anchor (1/2)

Select Examples Only



Hyundai IONIQ 5 / 6 / 7



Genesis GV60



Genesis GV70 EV



Genesis G80 EV



Hyundai NEXO



Thermal Management System (Heat Pump)

Thermal Management System, Air Compressor

Chevrolet Bolt EV and Bolt EUV



HVAC; Condenser/Radiator/Fan Module (CRFM)

GMC HUMMER EV



HVAC, A/C Lines, Condenser, Radiator

Cruise First-Gen AV



HVAC

GM BrightDrop EV600



HVAC, Radiator, Condenser, A/C Lines

EV Models with Hanon Systems Products: Anchor (2/2)

Select Examples Only



Ford F-150 Lightning



Battery Chiller, A/C Lines, Condenser, Low Temperature Radiator

Ford Maverick HEV



eCompressor, A/C Lines

Ford E-Transit



HVAC, Radiator, Condenser, Battery Chiller, A/C Lines

Ford Explorer HEV



Battery Chiller, A/C Lines

Ford Escape/Kuga HEV



A/C Lines, Battery Chiller

Mustang Mach-E



Battery Chiller, Radiator, 4-Way Valve

Lincoln Aviator Grand Touring HEV



Battery Chiller, A/C Lines, Console Blower

EV Models with Hanon Systems Products: Premium

Select Examples Only



BMW iX / iX3 / i4



MINI Cooper SE











eCompressor, Electronic Water Pump

eCompressor

Mercedes EQA

Mercedes EQS / EQE

Volvo XC40 Recharge







HVAC, A/C Lines A/C Lines HVAC, A/C Lines

EV Models with Hanon Systems Products: E-mphasize

Select Examples Only



NIO EC6/ES6/ES8/ET5/ET7











eCompressor

XPeng G3 / P5 / P7







Zoox



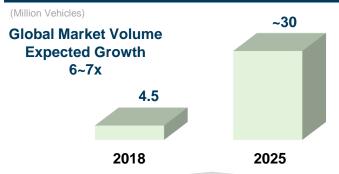
eCompressor

Heat Pump System

EV Thermal Market Growth Momentum Expands from eCompressor to Heat Pump System



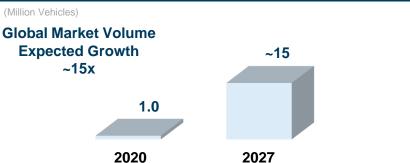






- Emergence of global xEV platforms requiring proven global eCompressor suppliers
- Suppliers with a variety of product offerings in size / voltage / refrigerant favored by OEMs

Growth of Heat Pump Solution

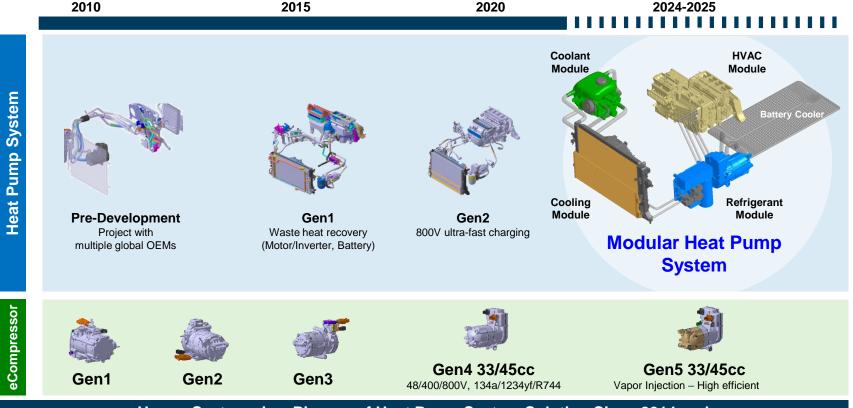


- Further electrification from hybrid vehicle to battery electric vehicle
- Driving range and energy efficiency matter most for EV popularization
- Serial adoptions of heat pump system by major EV
 platforms (e.g. HMG E-GMP, VW MEB, Mercedes-Benz VISION EQXX)

Hanon Systems is Leading Both Markets at a Faster Growth Pace with Innovative Thermal Solutions

Hanon Systems BEV Heat Pump System Roadmap



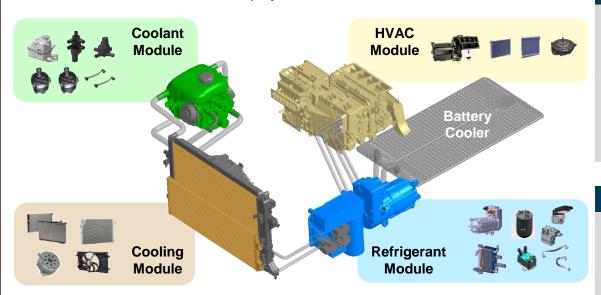


Hanon Systems is a Pioneer of Heat Pump System Solution Since 2014 and Has Been Market Leader Providing Various Applications for Multiple Customers

Modularization of BEV Heat Pump System



Architecture of BEV Modular Heat Pump System



Customer Benefits

- Offers modularized solutions that improves manufacturing cost by reducing assembly complexity
- Re-focuses engineering resources to vehicle-level engineering development (e.g. battery, autonomous driving)
- Enhances quality management through a reliable module/system partner

Strategic Advantages to Hanon Systems

- Decades of thermal system integration experience proven by its anchor customers
- In-house engineering and manufacturing capability of all critical components, which is critical to drive cost efficiency

Hanon Systems Uniquely Positioned to Offer System/Module-Based Heat Pump Solutions to Automakers



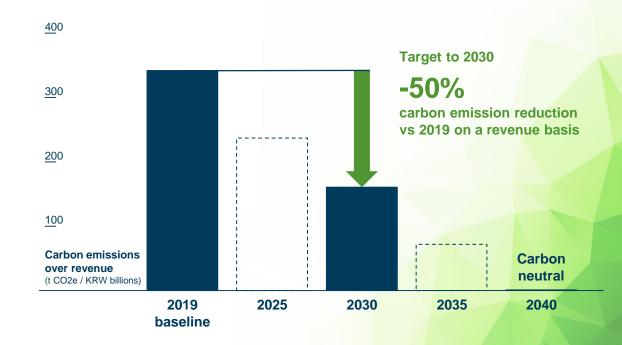
Min Sung

Chief Executive Officer and Representative Executive Officer

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Hanon Systems Commits to be Carbon Neutral by 2040 Significant Reduction by 2030

Target path: Carbon Neutral in 2040 and a significant reduction by 2030





Hanon Systems Has Specific Targets and a Roadmap 2030 Targets and Progress Examples by Emission Scope

-50%

Scope 1 direct emission reduction vs. 2019 baseline



Asan 👀

Deployed fully electric equipment for manufacturing

-80%

Scope 2 purchased energy emission reduction vs. 2019 baseline



Palmela <a><a><a>

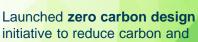
Installing solar panels to generate ~11% of demand ISO 50001 energy management system certified -45%

Scope 3 purchased goods emission reduction per unit vs. 2019 for each product



Global 🌎

improve costs



Assessing supplier carbon footprint; implementing carbon and cost improvements



Global Workforce is Engaged and Delivering

- Organization fully committed led by a newly established Carbon Neutral Office
- Each site developing its specific roadmap focused on increased efficiency and clean power
- Regional and global energy coordination to leverage power purchase agreements (PPAs)
- Supply base involvement to promote transparency and pursue low-carbon sourcing alternatives
- **Zero carbon design reviews** to identify carbon reduction opportunities in product design

350⁺ initiatives identified to date



Eco-Friendly Enterprise















Manufacturing



Design



Procurement



Logistics



Mindset

... moving toward a low carbon footprint

Embracing a low-carbon footprint benefits future generations and creates strategic advantages



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THANK YOU