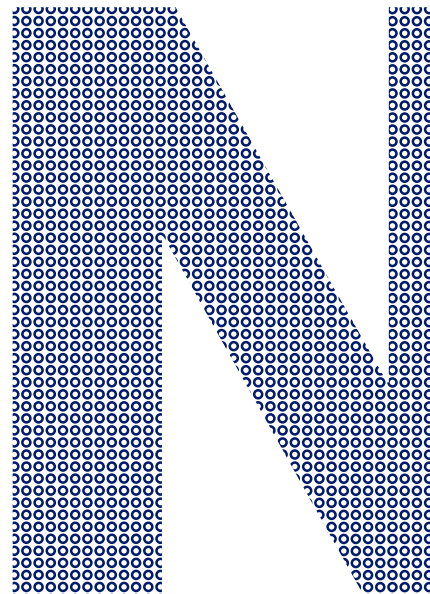
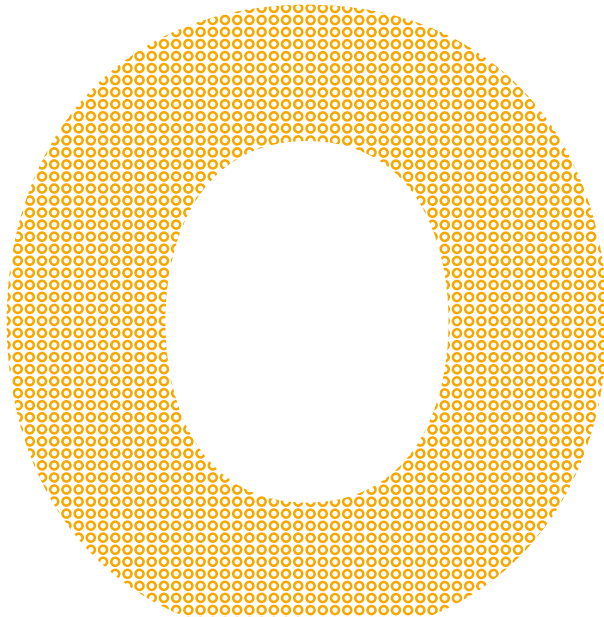




MOVING





KD Navien never stops innovating.  
Our ceaseless passion for technology  
will help us fulfill our dream of becoming  
the global leader in energy solutions.  
We continue to spread our reach to  
become the number one global brand  
in comfort living by developing  
innovative ideas that to create a  
healthier living environment for a better  
tomorrow.

## Contents

02 NAVIEN Story   08 CEO Message   10 Performance Highlights   12 Technology  
20 Global Market   32 Business Overview   46 Society   53 Affiliated Company   58 Global Network

## Moving forward with Global



# Korea's No.1 Boiler Company



Ever since its foundation, KD Navien has been fulfilling its corporate roles and responsibilities through its core philosophy of “social contribution through business” to help make our world a better place. Funded by the sale of eco-friendly, high efficiency condensing boilers, KD Navien has established a foundation for the research and development of energy efficient and environmentally friendly technologies. In addition, KD Navien has been a long time participant in Habitat for Humanity<sup>®</sup>, a campaign that provides free housing and products to promote the well-being of comfortable living environment for the people in need.

KD Navien leads the way in the development of **eco-friendly and high efficiency energy equipment**. Our innovative products enhance the wealth of our nation by reducing energy consumption so we can invest in other projects. KD Navien’s investments today are creating the brighter future for Korea and even beyond.

- 1978**

03 Founded Kyungdong Machinery Co., Ltd.
- 1979**

08 Completed the Pyeongtaek Factory and installed machinery facilities

10 Launched unity compact rectangular oil boilers, which became the first oil boiler for home use in Korea
- 1981**

08 Participated in an international fair of Energy Conservation Equipment

**1982**

10 Received KS mark approval for oil fired hot-water and central heating boilers from the Korean Standard Association
- 1986**

09 Developed fan assist gun-type diesel burners (received the first KS mark approval of its kind)

10 Launched a nationwide tour service for boilers
- 1987**

08 Completed expansion of Kyungdong Machinery's factories

10 Launched Korea's first Forced draft & balanced Flue (FF) oil boiler
- 1988**

02 Established a technical partner-ship with Dutch company Nefit for Condensing boilers

06 Started producing 'Turbo' Gas fired Condensing boilers, first time in Asia (8th in the world)
- 1989**

05 Launched Korea's first FF gas boilers

**1990**

04 Established factories for Everon Co. Ltd

12 Exported condensing heat exchangers to Nefit
- 1991**

03 Changed the company name to Kyungdong Boiler Co., Ltd.

05 Launched Korea's first stainless steel heat exchanger, wall hung gas boiler named Harmony (FF storage type)

08 Launched a wall hung, instantaneous gas boiler named Symphony
- 1992**

08 Launched a wall hung, instantaneous gas boiler named Symphony

11 Awarded 'Tower for Exporting a Million Dollars,' a first in the industry

12 Received Grand Prize from the 12th Korea Broadcasting Advertising Awards for its commercial 'Filial Piety II'
- 1993**

08 Launched an Initial Public Offering (IPO) and adopted the "Advance Service System"; a first in the industry.

09 Established Chinese corporation, Yanbian Kyungdong Boiler Co., Ltd

# Value Creation Through Condensing Technology



KD Navien is a growing company with a passion for developing highly efficient technology that helps decrease the emissions of Earth's greenhouse gases. Since its introduction of **Asia's first condensing technology** in 1988 and condensing gas boilers to Korea in 1998, KD Navien has been leading the industry with our exclusive condensing technology.

The condensing technology of KD Navien has introduced the new paradigm for boilers and water heaters. The high efficiency and eco-friendly technology, well recognized by developed countries, has reduced energy consumption by 20% and cut down the emissions of greenhouse gases. With the cornerstone of our philosophy of **implementing Eco-Friendly products** KD Navien is bringing a brighter future.

- 1994**
- 1995**
- 1996**
- 1998**
- 1999**
- 2000**
- 2002**
- 2003**
- 2004**
- 2005**

- 11 Donated boilers for the 1st Building House of Love Movement by Habitat for Humanity®
- 03 Established Chinese corporation, Beijing Kyungdong Boiler Co., Ltd
- 06 Completed the construction of Songtan Factory
- 08 Selected as one of the Top 100 Quality Management Companies (Industrial Advancement Administration)
- 11 Received the Tower for Exporting 10 million Dollars; a first in the industry
- 12 Acquired Russian quality mark GOST certification
- 02 Developed a Korean-style wall hung Condensing Gas boiler, KC
- 05 Acquired European quality certification CE for Conventional Oil Fired Hot Water and Central Heating Boilers
- 01 Acquired Turkish certification TSE
- 02 Participated in the European Air Conditioning & Heating System Exhibition ISH, a first in the industry
- 08 Selected as one of the 50 companies with excellent quality competitiveness
- 11 Received the Outstanding Energy Efficiency Product Award at the Productivity Innovation World Festival
- 01 Acquired the High-efficiency Appliance Certification No.1 to 9 for its gas boiler for residential use, a first in the industry
- 05 Acquired KS Certification for condensing gas boilers, a first in the industry
- 06 Completed the construction of the 3rd factory in the Songtan Industrial Complex
- 01 Exported condensing gas boilers to the USA, a first in the industry
- 06 Acquired ETL certification of the USA, a first in the industry
- 06 Launched Asia's first Oil fired condensing boiler
- 09 Opened a nationwide integrated call center
- 12 Acquired the new technology certification KT Mark for condensing oil boilers
- 07 Acquired European quality certification CE for Conventional Wall hung gas boilers
- 12 Ranked number one in the Korea Well-Being Consumer Index (KWCI) for its boilers
- 02 Acquired European quality certification CE Mark and the top grade 4Star in heat efficiency (GASTEC) for its gas boilers

# To Become a Leading Global Green Company



All our dreams make for a brighter tomorrow. Under the brand of KD Navien, anything can be made possible. KD Navien and its partner companies have strived with a **united passion** to achieve a common goal: to become No.1 in the industry and make the living of customers around the world more pleasant and comfortable.

KD Navien has taken its advanced technology overseas into the largest consumer markets in the world, including North America, China and Russia. KD Navien is working hard around the world to become **the global leader in energy solutions technology that can provide a cleaner and more comfortable living environment for all people.**

## 2006

- 03 Established American corporation Navien America, Inc.
- 09 Changed the company name to KD Navien Co., Ltd.
- 10 Launched the world's first Hot Water supply capacity oriented central heating boiler "Navien Condensing on 水"

## 2007

- 01 Established Chinese corporation Shanghai Navien International Trade Co., Ltd. in Shanghai, China
- 03 Acquired European quality certification CE Mark for condensing oil boilers
- 12 Ranked at the top in the list of companies Korean Net Promoter Score (KNPS) recommended by customers

## 2008

- 02 Exported Condensing Gas Water Heaters to the USA; a first in the industry

## 2009

- 04 Signed an exclusive contract with Russia's biggest air conditioning and heating system distribution company LH for exporting 300,000 products
- 04 Acquired the CO<sub>2</sub> labeling certification; a first in the industry
- 11 Received the "Export Tower Award" for achieving \$30 million of exports; a first in the industry

## 2010

- 01 Acquired the ASME (American Society of Mechanical Engineers) certification for condensing gas boiler and water heater; a first in the industry
  - 07 Received the "Export Tower Award" for achieving \$70 million of exports; a first in the industry
- ## 2011
- 07 Centered Management (CCM) certification for the first time in industry (Fair Trade Commission)
  - 12 Received the "Export Tower Award" for achieving \$100 million of exports; a first in the industry

## 2012

- 05 Selected as one of the World Class 300 companies by the Ministry of Knowledge Economy
- 12 Completed the construction of Kyungdong Human Resource Development Institute

## 2013

- 01 Won the 2013 AHR Expo Innovation Award for condensing water heaters
- 07 Received an excellent award in green technology sector of Seoul Environment Award for the first time in the industry
- 11 Received the Prime Minister's Award for condensing water heaters in the NPE 2013 Korea Technology Awards

## 2014

- 02 Established and registered Russian subsidiary, Navien Rus
- 06 Navien Condensing Smart TOK Boiler won the Korean Innovation Frontier Award for 2014
- 11 Established subsidiary in the UK, Navien UK Ltd.

## 2015

- 01 Won the AHR Expo Innovation Award for condensing gas water heaters
- 02 Selected as the "Best Company of the Year" in 2015 by Aqua Therm Moscow
- 06 Navien HybriGen SE won the Korean Innovation Frontier award for 2015

## 2016

- 02 Selected as the "Best Company of the Year" by Aqua Therm Moscow for 2 consecutive years
- 07 Received the Top Prize in hot water heating mattress category (sector) of "[Korean] Premium Brand Index" for the first time in the industry
- 12 Selected as one of the "Russian National Brands" for the first time in the industry



**KD Navien is a company that creates value for energy and living environment, and enriches the living of every household.**

### **Practices Social Contribution Through Businesses**

Since the beginning in 1978 we have continually strived to become a company that repays customers for their loyalty and contributes to society by concentrating all our efforts on developing eco-friendly and high-efficiency energy equipment based on condensing technology. As Korea is an energy deficit nation, and one of the top countries responsible for greenhouse gas emission, KD Navien has demonstrated a strong will to contribute to innovation in developing green energy technologies in order to create a healthier environment for future generations.

### **Lowers the Earth's Temperature Through Advancement in Technology**

The goal for KD Navien, the leader in the boiler industry, differs from that of others. We have endeavored to produce high efficiency, eco-friendly energy equipment that can reduce fossil fuel consumption in this resource deficit nation. Thanks to our efforts, KD Navien launched Asia's first condensing boiler in 1988. Since then we have led the market, launching condensing technologies with the worlds' highest efficiency. Our passion for technology drives us to pursue the development of eco-friendly products for future generations.

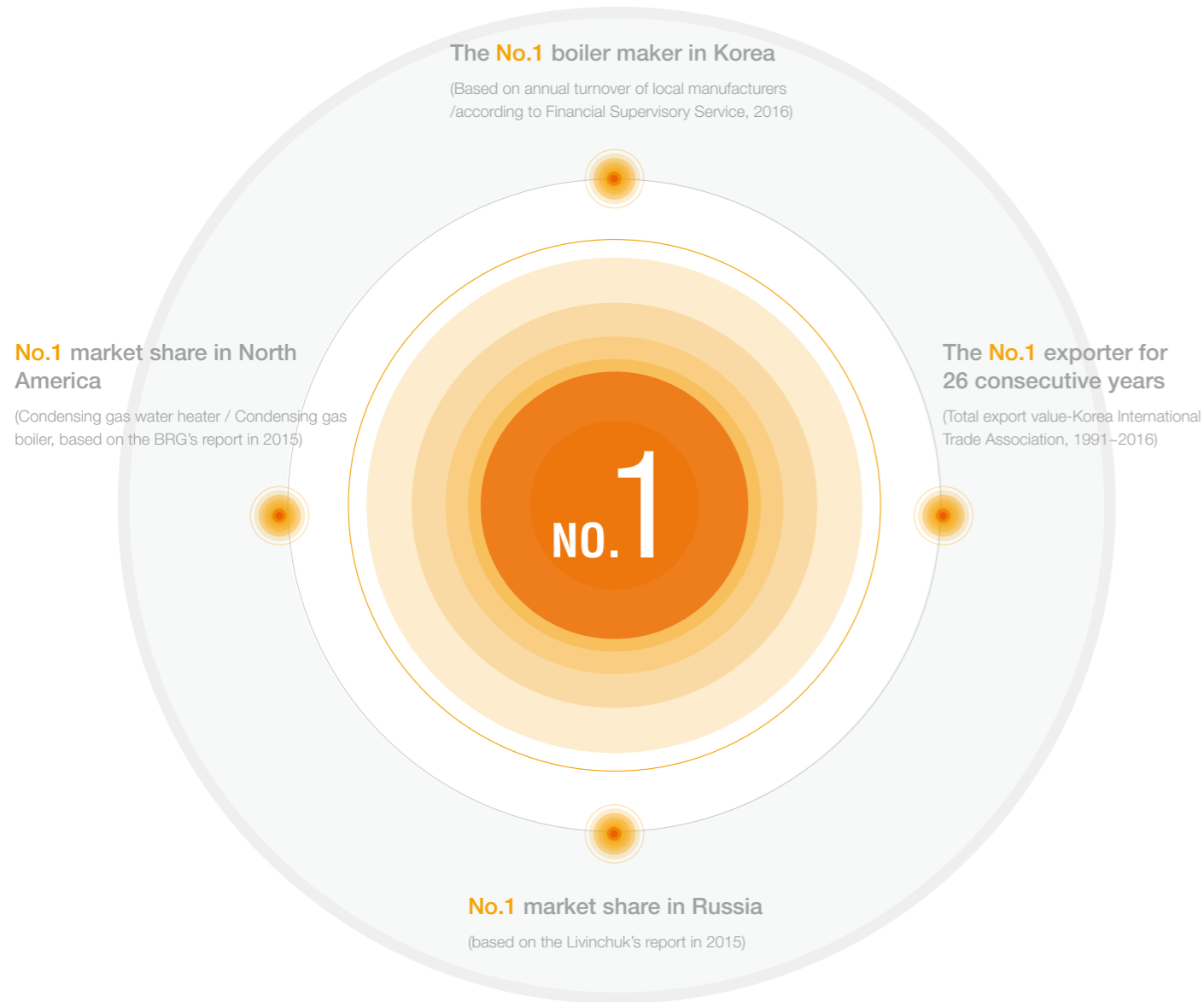
### **Creates a Pleasant Living Environment**

As a provider of better living environments, KD Navien's dream stands out from the rest. Breaking the conventional idea that boiler business is only for the domestic market, we ventured out into the world. As a result, we have led boiler exports in Korea for 26 years, becoming a brand that represents Korea and is valued by customers all around the world. By continuously making products that have the best thermal efficiency and quality in the world, and by making efforts to develop next generation green energy devices, KD Navien will continue its journey of becoming the global leader of energy solutions for better living environments.

KD Navien CEO

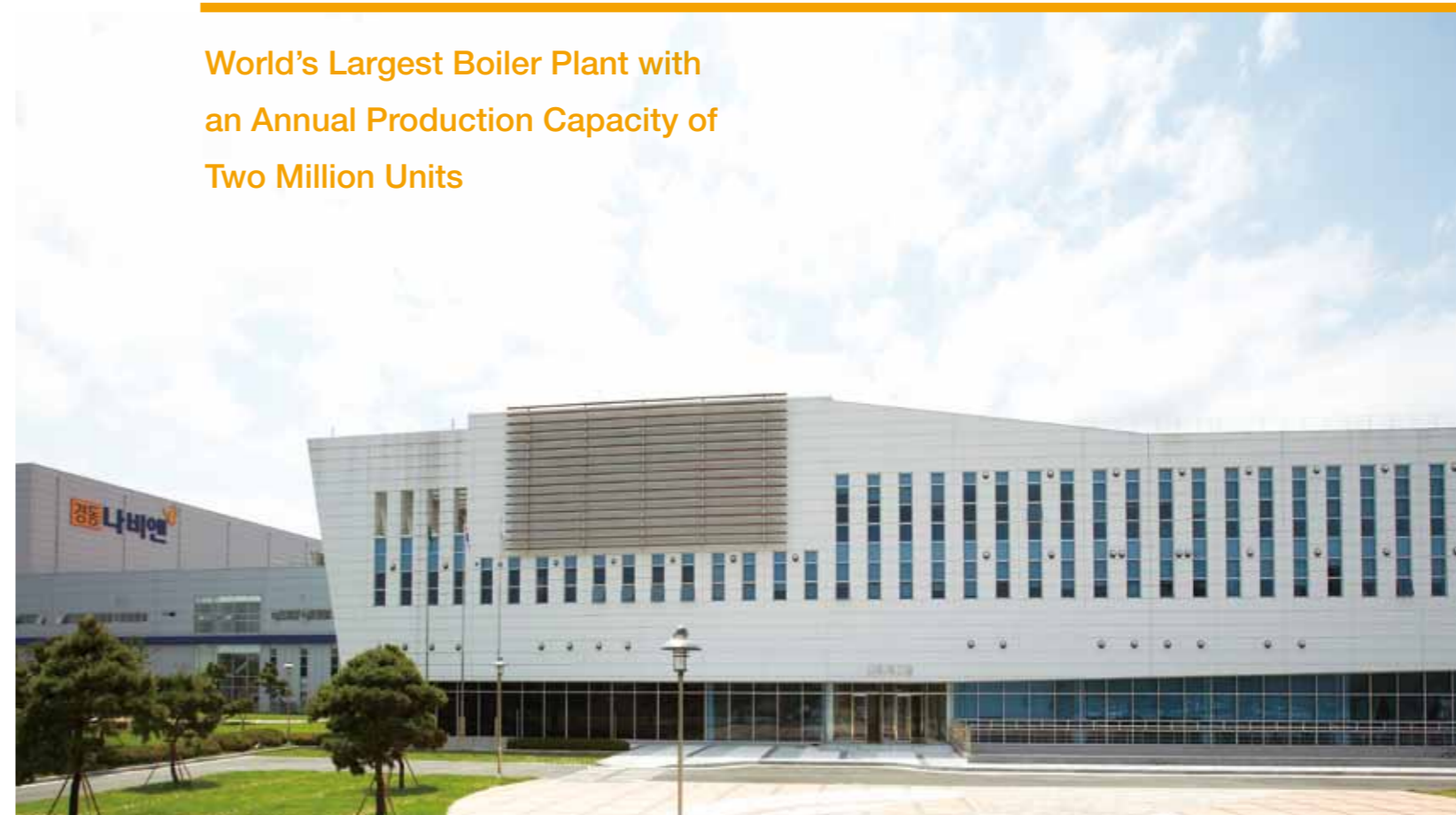
**Hong Joon Kee**

Being the market leader in domestic market & top boiler exporter, KD Navien won't rest until we add still another No.1 title to our name as **“Global No. 1 Company”**



Having claimed No.1 in domestic market share as well as No.1 in boiler exports, we won't rest until we add still another No.1 title to our name as **“Global No.1”**

**World's Largest Boiler Plant with an Annual Production Capacity of Two Million Units**





# MOVING ON INNOVATION

Developed the first condensing boiler in Asia

Patented and introduced the use of stainless steel heat exchangers for the first time in the world

Achieved the world's highest heat efficiency of 98.8% allowing KD Navien to be an industry leader who set the new benchmarks for boiler industry



# TECHNOLOGY INNOVATION

## Innovations through condensing technology

KD Navien's advanced technology is created to help preserve our natural environment. With Asia's first efficient and energy saving condensing technology, KD Navien has paved the way for environmentally friendly products in the home comfort sector.

### Creating Value Through Energy and Environment

We care about the future and our technologically advanced, eco-friendly systems aim to reduce energy consumption while creating a comfortable living environment.

### Asia's First Condensing Technology

Since the launch of Asia's first condensing technology in 1988, we have continually invested in the research and development of our products in order to innovate the most technologically advanced condensing appliance in the world.

### World renowned condensing technology

Through our passion in condensing technology, 1 in export of condensing boilers and water heaters for 26 consecutive years. We are expanding our territory to over 30 countries across the globe, including North America, Russia, and Europe.

### Making advances in green technology with our condensing technology

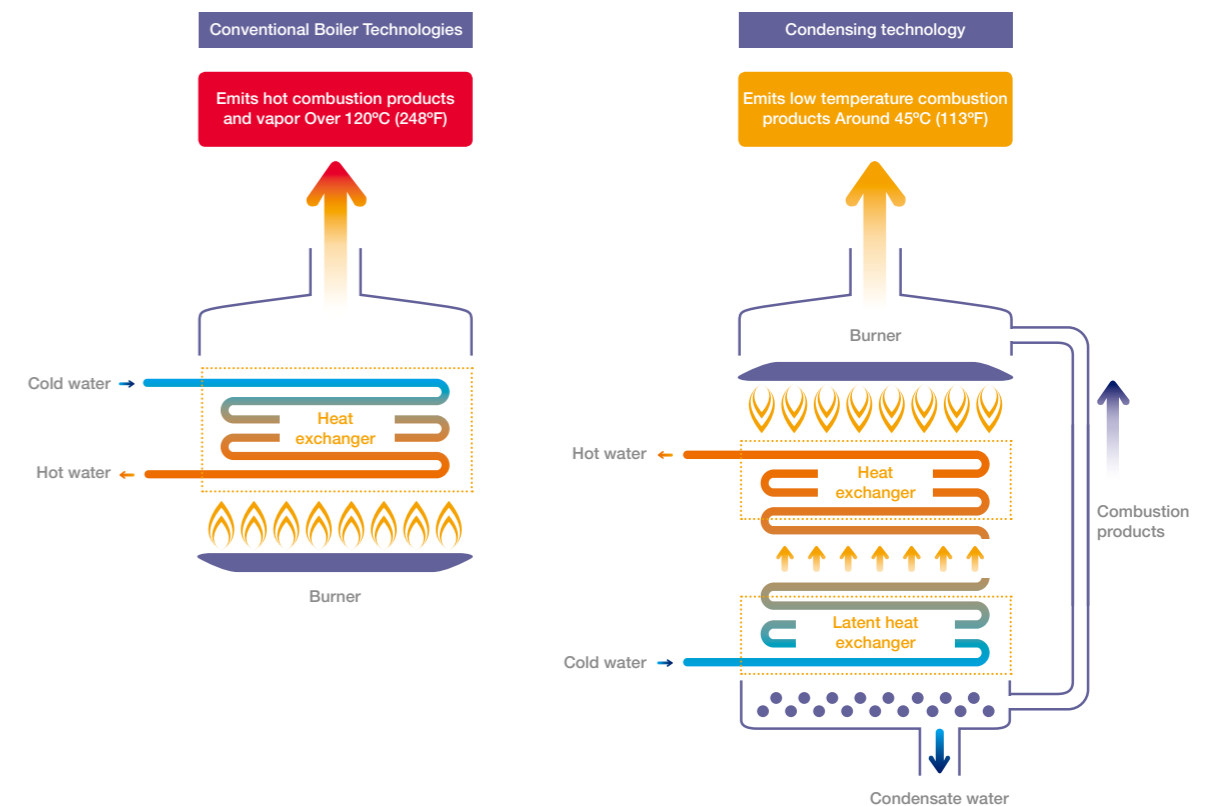
We are capitalizing on our 29 years of experience and know-how by making advances in eco-friendly energy technology. We are leading the pack in this arena by successfully combining the advantages of the Stirling engine and our condensing boiler into our own Stirling engine micro-CHP that provides heating, hot water, and even electricity for the home. Furthermore, we were selected as the main supervising company for the Korean government's fuel cell micro-CHP research project. Fuel cell micro-CHPs can also supply heating, hot water, and electricity for households.



## The Principle of Condensing Boilers

Condensing boilers maximize energy by using latent heat emitted from the flue gases. As a result, energy consumption and greenhouse gases are significantly reduced from this process.

### The Difference Between Conventional Technologies and Condensing Technologies



# Navien Technology

Navien's Comfort Technology for Everyday Living

KD Navien's cutting edge products have set the global standards for heating system. As a result, our condensing technologies provide a more comfortable living environment.


## The World's Most Efficient Heater

KD Navien proudly boasts advanced condensing technology that has been around for over 29 years. The technology features 98.8% thermal efficiency, the highest in the world.


## Economically and Environmentally Friendly Condensing Technology of Navien

Our advanced condensing technology enables a 20% reduction in energy consumption compared to energy boilers, reducing up to 576kg of CO<sub>2</sub> emissions per year.







**Metal Fiber Premix Burner**  
Designed to maximize the condensing effect, metal fiber premix burners are eco-friendly, low-NOx burners that automatically control the flame prior to combustion to increase energy efficiency and reduce noises.



**Air Pressure Sensor (APS)**  
The Air Pressure Sensor (APS) accurately measures the amount of air used and controls the ratio of air required for boilers to burn in any environment. Various factors such as the age of the product and headwinds are taken into account.



**SC Stainless Steel Heat Exchanger**  
The SC Stainless Steel Heat Exchanger was adopted into the third generation of Navien's condensing technology, making us a global leader in the Central Heating and Water Heater Industry. The technology uses heat generated from the burner to convert it into heating supply and hot water for daily use.



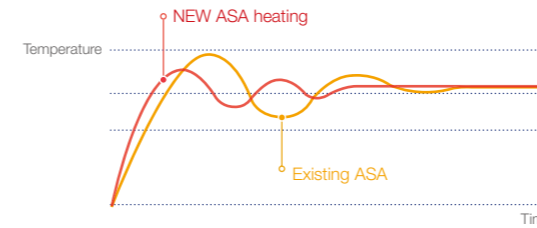
**Latent Heat Exchanger**  
Our Latent Heat Exchanger is the world's first stainless steel plate-type exchanger and is the core component of our condensing boilers and water heaters. It collects latent heat in the form of exhaust gases, resulting in 20% more heat efficiency than Conventional boilers and water heaters.

## Auto Sense & Adaptive Control (ASA Control)

It is Korea's only product that features the Auto Sense & Adaptive (ASA) Control technology. The NEW ASA Control senses indoor temperatures, temperatures of heating water supplied as well as return water and quickly and precisely controls factors in the heating system such as the flame size and heating capabilities to meet heat demand in temperature and the home environment.

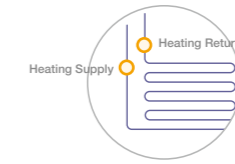
### Auto Sense & Adaptive Control (ASA Control)

The ASA Control measures the temperature of indoor air heating supply and return through multiple sensors.



### Navien Condensing Temperature Control for Supply Water and Return Water

The Navien Condensing Temperature Control for Heating Supply and Return continually monitors the temperature of water for the systems. The control cycles the water inside the heater to accurately acquire the desired heating temperature.



Adjustment of supply water and return water temperatures

## Stainless Steel Integrated Heat Exchanger

The Stainless Steel Heat Exchanger is the heart of the boiler. The heat exchangers have evolved from aluminum in the first generation, copper alloy in the second, to stainless steel in the third. The core components of the condensing boilers and heat exchangers are made out of stainless steel, resulting in excellent corrosion resistance. These heat exchangers also improve safety, durability, and energy efficiency.

Stainless steel integrated heat exchanger



## Stainless Steel Flat-Type Premix Burner

The Stainless Steel Flat-Type Premix Burner was developed in 2006 and was the world's first burner of its type. Its microscopic flame uses minimal quantities of gas and air and enables it to reduce gas bills and CO<sub>2</sub> and NOx emissions.



Conventional Atmospheric Bunsen burner

- Conventional flames

Lean-Rich Atmospheric Bunsen Burner

- Triangular flames
- 1/5 Turn down ratio

Eco Premix Type Burner

- Micro-mini eco-flames
- 1/10 Turn down ratio

Eco Premix Type Burner



## Digital Modulating Control of Ratio of Air and Gas (Korea's First APS & GPS Linked Control)

Korea's first APS & GPS linked control technology measures the exact amount of air to be used, and gas pressure to automatically supply a constant amount of air and gas. It enables a stable operation of boilers and water heaters, even in unstable environments, by precisely controlling the amount of gas and air. The Stainless Steel Flat-Type Premix Burner was developed in 2006 and was the world's first burner of its type. Its microscopic flame uses minimal quantities of gas and air and enables it to reduce gas bills, carbon dioxide, and nitrogen oxide emissions.

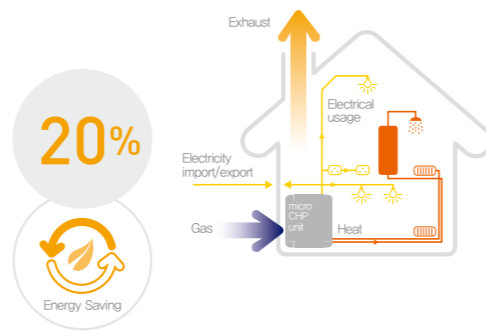
# Advanced Technology

## Technology for Future Generations

Green energy equipment has evolved over the years, efficiently utilizing energy and green technologies that reduce CO<sub>2</sub> emissions. KD Navien's innovative products create more pleasant living environments by using advanced technology, such as the Stirling Engine M-CHP and SOFC.

### Navien Hybrigen SE (Stirling Engine Combined Heat and Power systems for home use)

The M-CHP combines a Stirling engine, ultra-high efficiency condensing boiler, and a 1kW Stirling M-CHP to simultaneously supply electricity, heating and hot water. Its low carbon, high efficiency technology enables a reduction of 20% energy consumption annually.

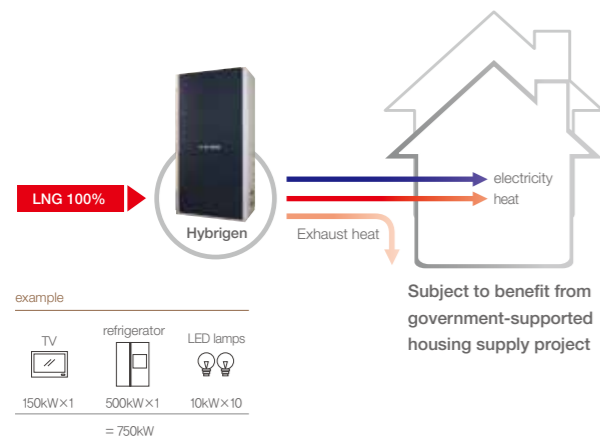


### Solid Oxide Fuel Cell (SOFC) for Home Use

The SOFC system for home use is developed with a goal to reach 41% generation efficiency and 82% total energy efficiency by combining an ultra-high efficiency condensing boiler and a SOFC to simultaneously supply electricity, hot water, and heating energy.

### Navien Hybrigen PF (micro-CHP using fuel cells)

Navien Hybrigen PF is a next-generation ultra-efficient energy equipment that makes electricity and heat for the home through the chemical reaction of hydrogen and oxygen. Hydrogen, commonly known as an eco-friendly fuel, is extracted from LNG or LPG that is generally used throughout.



Micro-mini 1kW Stirling Engine m-CHP for home use



# Quality Pride

## Quality Management

The quality goal for KD Navien is to produce energy efficient equipment with a zero defect rate. By following strict quality management procedures KD Navien improve product quality while providing technically advanced efficient products. We aim to provide the industry's best condensing products.

### Quality Centered Corporate Culture

KD Navien has instituted and optimized production management systems ensuring the highest degree of quality. KD Navien manufactures zero defect products by pinpointing and eliminating unreliable factors before they present a problem in any of our products. At KD Navien we ingrain the standards of developing high quality defect free products through our product development, engineering, production, sales and marketing teams at every step in a product's life cycle. It is our aim to remain a leader in the home comfort industry.

### Subject to benefit from government-supported housing supply project

We pride ourselves in the quality of our products. We are so committed to quality that we believe "there is no concession or compromise when it comes to quality." This commitment to quality has enabled us to gain love and recognitions from our customers. We have been placed No. 1 in Korea Well-Being Consumer Index (KS-WCI) for 13 years in a row, No. 1 in Korea Quality Excellence Index for 10 consecutive years, and became the first company in the industry to be ranked No. 1 in Korean Standard-Service Quality Index (KSQI).



#### Ranked 1st in the Korean Standard-Quality Excellence Index (KS-QEI)

The KS-QEI evaluates the level of quality of Korean industries yearly and announces their results to encourage companies to improve product quality



#### Korean Innovation Frontier Award

This award is given to enterprises which lead economic development through innovation in new technologies, products, service and management.



#### Ranked 1st in the Korean Standard Wellbeing Consumer Index (KS-WCI)

KS-WCI studies companies that have products designed to improve the quality of consumers lives. Every year, they select a product that has made the most positive impact to the lives of consumers.



#### Ranked 1st in the Korean Standard Premium Brand Index (KS-PBI by Korean Standards Association)

Recognizing the importance of brands in the business, KS-PBI evaluates brands to help companies to become more competitive by strategically managing premium brands.



#### Energy Winner Award (Korean Customers' Forum)

To promote the awareness of the sustainable energy and its production and consumption, the award is granted to companies that have developed energy efficient technologies, carry energy-saving products, or make efforts to conserve the energy.



#### Brand of the Year by the Korean Customers' Forum

The Korean Customers' Forum selects the best brand of the year from every industry that has satisfied customers.





# MOVING ON ACTION

No. 1 exporter for 26 consecutive years

No. 1 market share of  
condensing boilers in North America

With **our technological advantage**,  
we are realizing our goal of becoming  
**the global energy solutions company.**

## Global Market Vision

As we strive to become a truly global player among our industry, and as we prepare ourselves for the future, KD Navien has already become a household name in Korea. We have expanded our markets internationally to more than 30 countries and are strong competitors to other world-class companies in the industry. This is the future of KyungDong Navien as the global energy solutions company.

### North America

#### North America & South America

- USA
- Canada
- Mexico
- Brazil
- Chile
- Uruguay

### South America

### Europe

- UK
- The Netherlands
- Ireland
- Denmark
- Germany
- Spain
- Portugal
- France
- Italy
- Czech
- Poland
- Greece
- Turkey
- Latvia
- Cyprus

### Middle East Asia

#### Middle East

- Iran
- Lebanon
- Syria

### Europe

### Russia

#### Russia and the Commonwealth of Independent States

- Russia
- Ukraine
- Belarus
- Azerbaijan
- Georgia
- Kazakhstan
- Uzbekistan
- Kyrgyzstan
- Armenia

### Asia

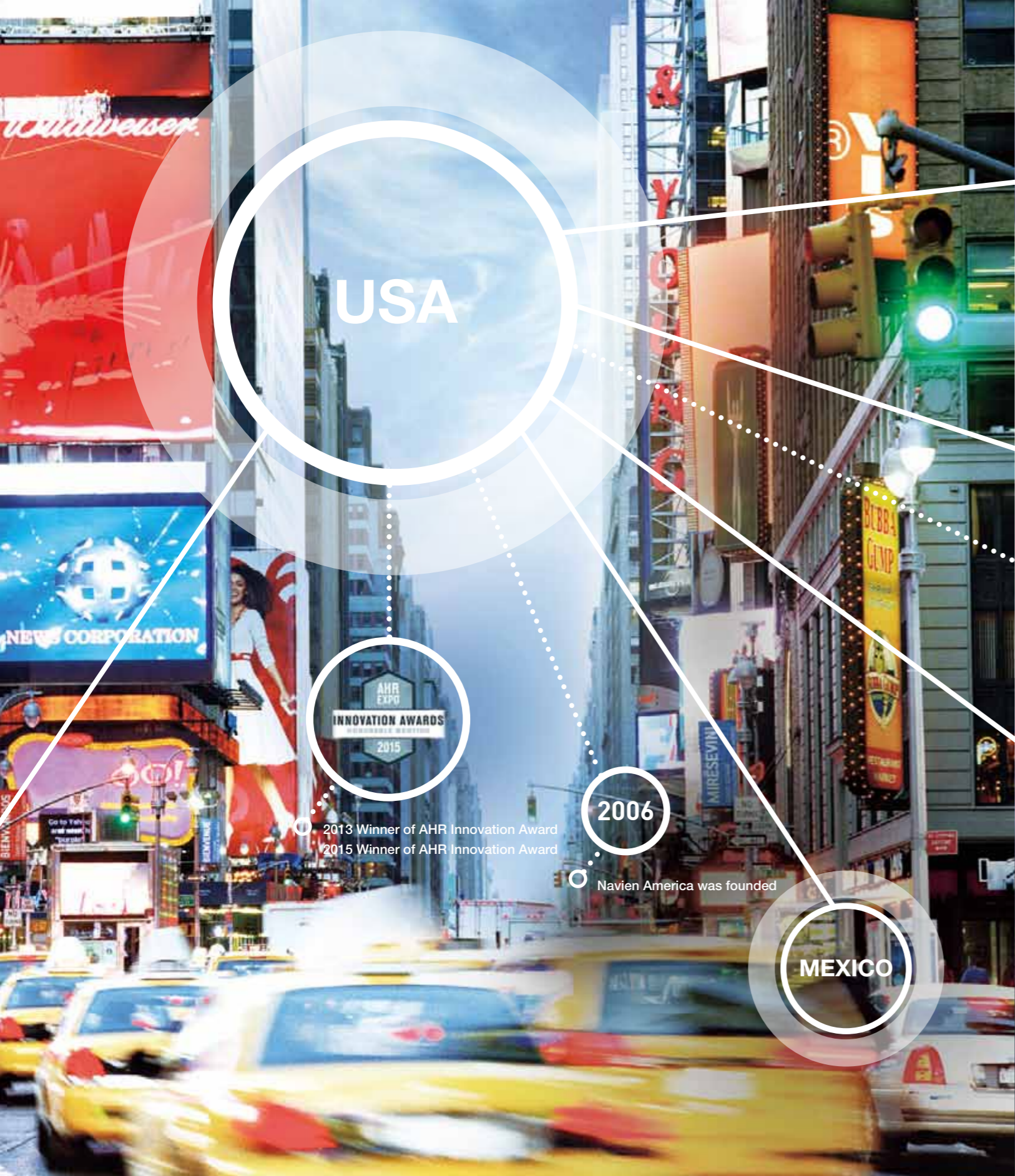
#### Asia & Oceania

- China
- Japan
- New Zealand
- Australia

### Oceania

In order to compete with the best boiler and water heater companies in the world, we adopted the EN standard to the production of all Navien appliances produced in Korea. With the implementation of the new standard, our products continue to be widely sold and accepted in the North American and Russian Markets.

With our advanced technology, we have created a whole new market within the North American gas condensing water heater market, taking the largest market share in that product category. We have the largest market share in the Russian wall-hung gas boiler market, as well. Including USA and Russia, we have expanded our market internationally to more than 30 countries, even to some European countries where the boiler products were originated at first.



USA

AHR EXPO  
INNOVATION AWARDS  
2015

2013 Winner of AHR Innovation Award  
2015 Winner of AHR Innovation Award

2006

Navien America was founded

MEXICO



URUGUAY

BRAZIL



Water heater for North American market 'NPE'

37%

No. 1 market share in condensing gas water heater market for 7 years in a row

CANADA

# NO NORTH & SOUTH AMERICA

## KD Navien's Condensing Technology Amazes the USA

KD Navien entered the American market in 2006. Although there was some resistance to introducing the product in the North American market, KD Navien had a vision and recognized their true market potential in the U.S. and Canada. In the last two years, we have grown to become one of the top three tankless water heaters in the industry and have captured the largest market share of condensing gas water heaters on the market.

**2006** Navien America was founded

**15 years** The longest warranty available for core components

**No.1** market share in North America for condensing boilers and gas water heaters in 2015 & 2016

Water heater for North American market 'NPE'  
Won the 2013 iF Design Award  
Won the 2013 AHR Expo Innovation Award  
Won the 2015 AHR Expo Innovation Award





**UKRAINE**



**KAZAKHSTAN**

**RUSSIA**  
Navien Russia was founded in 2013

NAVIEN Smart TOK



**2013**

Navien Russia was founded

**RUSSIA & CIS**

**KD Naviens' Heating Technologies Melt Frozen Ground**

The excellence of KD Navien products are engineered to withstand extreme temperatures and climates. Because of the excellent features of KD Navien boilers, the company has captured the largest market share of wall-hung gas boilers in Russia. Its advanced heating technology is powerful enough to melt the snow and ice in Russia.

**2013**

Navien Russia was founded

**No.1**

market share in Russia for wall-mounted gas boilers in 2015

Selected as a "National Brand of Russia" in 2016

Wi-Fi remote control gas boiler  
'Navien Smart TOK'



SPAIN

GREECE

UNITED KINGDOM

Exported oil boilers to Europe in 1993; a first in the industry

2014

2014 Established Navien UK in London

NAVIEN NCB CE



Navien Hybrigen SE (1kW stirling engine m-CHP) A next-generation green energy device that reduces energy costs by 20% a year



NETHERLANDS

EUROPE

**Korea's Representative Boiler Exported to the Boiler Country of Origin**

KD Navien is well recognized for its advanced products worldwide, and Europe is no exception. Even though we are still a very "fresh" contender within the already established European market, we are fighting hard to compete with the very best in this business, raising our market share along the way.

1993

Exported oil-fired boilers for the first time in the industry

2014

Established UK subsidiary

SEDBUK

A

Acquired the Sedbuk A band for all condensing gas boiler models.

Navien Hybrigen SE (1kW stirling engine)





VIETNAM

1996

First exporter of gas boilers to Vietnam in Korea.

BEIJING

KD Navien established a Chinese corporation, Beijing Kyungdong Boiler Co., Ltd. in 1993

Navien UniTec Plus gas boiler  
Exported to China for the first time in industry in 1992

1999

KD Navien Exported gas water heaters to the Philippines; a first in the industry

PHILIPPINES

SHANGHAI

KD Navien Established a Chinese corporation Shanghai Navien International Trade Co., Ltd. in 2007

CHINA

TAIWAN

2014 Exported the Condensing Premium gas water heater

ASIA

### KD Navien, Delivering Pleasant Heating Technology to China

Having founded the first Chinese corporation in 1993 and Shanghai corporation in 2007, KD Navien has spread advanced Korean heating technology to China with 1.3 billion population. Moreover, with strong foothold in Chinese market, we are expanding our markets to Tibet, Mongolia to the west, and Philippines, Vietnam to the south.

1993  
1996  
1999

KD Navien established a Chinese corporation, Beijing Kyungdong Boiler Co., Ltd. in 1993  
KD Navien exported gas boilers to Vietnam, a first in the industry  
KD Navien exported gas water heaters to the Philippines; a first in the industry

2007  
2014  
2016

Established Chinese subsidiary, Navien Shanghai  
Exported condensing gas water heater to Taiwan  
Built a new factory in Beijing

'Navien UniTec Plus' being produced and sold in China.





**MOVING ON**

**CREATION**

With its technologies for eco-friendly boilers and water heaters, KD Navien is setting a new standard for eco-friendly living trends by offering zone control systems and ventilation products for comfort living as well as premium bed warming mat for healthy sleep.

# NAVIEN PRODUCTS

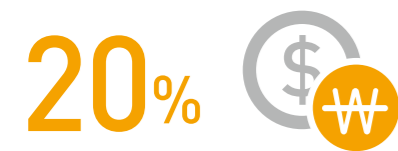
With its world-class state-of-the-art technologies for eco-friendly boilers and water heaters, KD Navien is setting a new standard for eco-friendly living trends by offering zone control systems and ventilation products for comfort living as well as premium hot water heating mattresses for healthy sleep.



## Gas Boiler

Navien Condensing NCB

Gas cost reduction

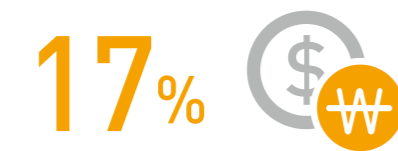


KD Navien has developed a new energy consumption culture with differentiated technologies. Navien Condensing is an economical boiler that reduces gas, water, and electricity consumption. Navien Condensing can provide hot water for multiple simultaneous water draws, without water temperature fluctuation. Its ASA control heating technology offers a pleasant heating environment with consistent temperatures.

## Oil Boiler

Navien Condensing

Oil cost reduction

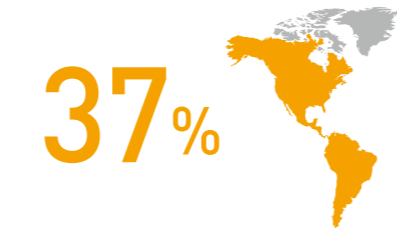


With differentiated technologies, KD Navien proposes energy solutions in an era of high oil prices. KD Navien, a pioneer of condensing technologies in Korea, has worked to reduce heating bills, with the first and only condensing oil boiler in Korea featuring a thermal efficiency of 104%. With the world's highest heat efficiency rate KD Navien is helping reduce heating bills up to \$500 on average a year.

## Gas Water Heater

NAVIEN Condensing NPE  
(Newly launched products)

Largest US market share



KD Navien is ushering in a new era in condensing gas water heaters. The Navien Condensing Gas Water Heater has been widely embraced by customers with its easy installation, low maintenance cost, and convenient operating system. In addition, large and medium sized boilers have been replaced by wall-hung boilers; occupying considerably less space.



## Zone Control System

Automatic Heat Control

Energy



The system zone control helps reduce gas bills, producing optimized heating by automatically providing each room in a given house with the optimal amount of heat. The system calculates changes in environmental factors, such as a home's insulation status, the number of floors and the location of a room, to provide the ideal amount of heat. It especially helps to solve problems with noise regulation and different optimal room temperatures, which are hard to control with a district or central heating system.

## Ventilation System

High efficiency system ventilation

Energy saving of



KD Navien's advanced high-efficiency energy technology makes it possible to switch efficiently between the heat recovery ventilation mode and the bypass ventilation mode depending on indoor and outdoor temperatures and provide pleasant environment for living indoors.

## Bed Warming Mat

Navien Mate

Comfortable Sleeping Environment



KD Navien has integrated its state-of-the-art boiler technology into hot water heating mattresses. With intelligent dual-zone heating and recovery water temperature control, Navien Mate regulates the temperature of the mattress precisely to allow the temperature difference by less than 1 C on each left and right side, which along with the safety-first design system, provides a comfortable sleeping environment.

# BOILER BUSINESS

KD Navien developed Asia's first condensing boiler that features the world's highest partial load heat efficiency of 98.8%. Leading the industry with its advanced condensing technology, KD Navien is realizing the vision of becoming the global energy solutions company.

## Gas Boiler

Condensing Gas Boiler | an environment-friendly boiler that reduces the cost of gas by up to 28.4% a year compared to conventional boilers. Our world-class heating control technology will allow you to heat up quickly and comfortably and use hot water to your satisfaction.

Gas Boiler | Korea's only digital gas & air proportion control system effectively controls the amount of gas and air allowing an error-free combustion system.

## Oil Boiler

Condensing Oil Boiler | Navien Condensing Oil Boilers have achieved the world's highest heat efficiency of 102% to 104% by using a compact heat exchanger. Navien Condensing Oil Boiler also has an embedded-type model, Korea's only type, enabling the reduction of piping materials.

Oil Boiler | Its compact size makes installation easy and features convenient functions such as a three stage hot water control.

## Commercial Boiler

KD Navien offers various convenient functions and cutting-edge safety technology. Users can choose either a cutting-edge stainless steel large and medium sized boiler or a steel framed large and medium sized boiler accordingly.

## Vacuum Hot Water Boiler

Available in a variety of capacities from 100,000 to 3,000,000 kcal, this product features a long lifecycle. It reduces fuel expenses and maintenance fees through an unmanned operation system.

## Off-peak electric water heater

Using off-peak electricity can save the operating cost compared to fossil fuel. It is a high efficiency product does not release pollutant by using eco-friendly refrigerant.

### Condensing Gas Boiler



### Condensing Oil Boiler



### Oil Boiler



### Electric Boiler



### Commercial Boiler



### Vacuum Hot Water Boiler



### Wood Boiler



# WATER HEATER BUSINESS

Cutting-edge technology, including the world's highest efficiency tankless water heater, and superfine customized water heating technologies, are applied to all KD Navien's product line-up. This technology allows KD Navien to be the leading company in the condensing gas water heater market in North America and KD Navien has been recognized internationally.

## Gas Water Heater

**Condensing Gas Water Heater** | KD Navien helps reduce gas consumption by 22% compared to standard tank water heaters. Navien released the world's most efficient condensing tankless water heater with a 0.98EF in 2013. KD Navien's multi-control system technology enables the controlling of the whole system with a temperature controller connected to multiple zones. The control system can be easily connected to water heaters according to the amount of hot water desired, it can be installed in various commercial buildings such as restaurants, saunas, and hotels.

**ComfortFlow® Technology** | KD Navien is the only tankless water heater manufacturer to use ComfortFlow™ Technology. ComfortFlow™ Technology incorporates a buffer tank and recirculation pump in every "A" model condensing tankless water heater. This revolutionary technology helps eliminate cold water sandwiches and allows the use of a recirculation return line without reducing product warranty while providing faster hot water delivery. All "A" model condensing tankless water heaters can be used in recirculation applications without the need to purchase external pumps since the recirculation pump is included in the unit.

## Electric Water Heater

**Storage Stainless Steel Electric Water Heater** | Stainless, corrosion-resistant steel has been applied to the water heater. It expands the product lifecycle, enhancing the water's purity and cleanliness. The upgraded interior designs including less welded parts and increased magnesium poles enable a longer period of use. The electric safety device embedded in the product prevents accidents, securing the best product safety.

**Storage Enameled Electric Water Heater** | Provides cutting-edge technology that uses an enamel coating technique which removes fine bubbles and always provides clean hot water. Its automatic temperature control system enables easy temperature control and the automatic sensing function cuts off the power supply when the water reaches the set temperature. Various models are available.

## Oil Water Heater

The oil water heater is made of stainless steel and is resistant to corrosion. It is constructed in our state-of-the-art manufacturing facilities with advanced stainless steel molding techniques and features an economical and safe heating solution with Micom control technology. The optimized capsule capacity and minute control function enable a quick supply of hot water.

## Off-Peak Electric Water Heater

Using OFF-Peak electricity reduces the economic impact of energy consumption. Unlike other products, which have adopted indirect heating methods, our water heater has implemented a direct heating method, offering abundant hot water. The hygienic hot water can be used anytime and is stored in a hot water cylinder.

Condensing Gas Water Heater



• A new condensing gas water heater NPE in North America

Acquired the CE Certification for the first time in the industry

Gas Water Heater



• Stainless Gas Water Heater NGW

Stainless Steel Electric Water Heater



• Navien Stainless Steel Electric Water Heater (15L, 30L, 50L, 140L, 240L, 340L, 440L)

Enameled Electric Water Heater



• Navien Enameled Electric Water Heater (15L, 30L, 50L, 80L, 100L)

Off-Peak Electric Water Heater



• Navien Stainless Steel Off-Peak Electric Water Heater

Oil Water Heater



• Navien Stainless Oil Water Heater

# SYSTEM BUSINESS

## CASCADE

Cascade System (Condensing multi-control system)

'Navien's Cascade System' is a state-of-art system that allows you to connect multiple units, allowing all the benefits of condensing technology: high energy efficiency, eco-friendly operation and multiple unit-controls.

### Economic and Smart System

Navien's Cascade System is an economical, smart system that allows users to remotely control multiple wall-hung condensing boilers and water heaters through the Internet. It allows an unlimited number of units to be connected and controlled.

### Gas and Maintenance Cost Saving

Navien's Cascade System with combined world-class eco-friendly condensing technology and proportional control function helps reduce gas fee by 30% compared to using large boilers. The Cascade system is smaller in size than a large boiler, helping to save installation space by up to 60%. The system can be maintained at a lower cost as it does not require professional technicians for maintenance.

### Taking Advantages of Boilers for Home Use

Navien's Cascade System is suited for schools, restaurants, hospitals, hotels, leisure, commercial facilities and apartment complexes. The system provides various benefits that include cost saving, excellent efficiency, stability in hot water supply and easy installation, which are all only available with Navien's Cascade system.



## ZONE CONTROL

KD Navien's zone control system with differentiated technology provides users with the option to have a different temperature set for each room according to their lifestyle, which helps saving heating costs.



### Navien Automatic Heat Capacity Control System

Navien's Automatic Heat Capacity Control System senses and analyzes various environmental factors such as the insulation status of a house, the number of floors, locations of rooms, and amount of sunlight to automatically distribute required heat for each room. This automatic control system is a new concept for heat distribution.

### Navien Wireless Zone Control System

The system can be installed in houses or remodeled apartment buildings without extra electric wiring. The system uses radio frequency(RF) technology to communicate with the different zones.

### Navien Commercial Purposed Zone Control System

Using a central computer, the system controls the heating of each room, or grouped into multiple rooms like hotels and dormitories. The system is capable of remotely controlling indoor temperatures up to a maximum of 120 rooms in 8 groups through the central computer.

### Navien Wired Zone Control System

Under one roof, the system sustains a different temperature for each room. Users can also link the Navien Wired Zone Control System with Navien boilers to control not only heating, but also varying temperatures of hot water.

## VENTILATION

KD Navien has been recognized for its advanced technical skills in the ventilation field with the products that are designed to take account of installation environments such as homes or commercial facilities and the acquisition of the high efficiency certification for all the models.

### High Efficiency Ventilation System

The energy saving system creates comfortable indoor air quality with our energy saving technology. It collects wasted energy from a heat exchange of indoor and outdoor air and reuses the energy through the high efficiency heat recovery method to maintain proper indoor temperatures by a high efficiency fan and BLDC motor. As a result, it reduces power consumption and enhances its energy coefficient and operational stability.

### Compact Ventilation System

This compact product is suitable for home use and enables installation in small spaces. The entire bottom part of the ventilation system installed in the ceiling works as an access shaft; it does not require extra space and allows convenient maintenance for the entire access hole. The product can be operated by its automatic operation mode, which has a sensor to detect indoor air quality. The sensors remove dust and help maintain good indoor air quality.

### Simple Exhaust Ventilation System

Maintaining its ventilation function, it has lowered duct construction and maintenance expenses satisfying health concerns and economic feasibility. The system has two models, including a basic and side suction style which allows installation in small spaces. A damper has been installed to prevent dust and hot or cold wind from blowing into houses; all the while producing fresh indoor air.



# BED WARMING MAT BUSINESS

KD Navien, the top global boiler maker dedicated to bring comfort living, introduces a new type of boiler, Navien Premium bed warming mat. With our 40 years of technical experience and our principle for better and safer products, we now have created a new standard for hot water heating mattresses to provide a pleasant warm feeling and an healthy sleeping environment.

## No. 1 Boiler Temperature Control Technology

NTC(Navien Temperature Control), Only KD Navien's exclusive temperature control technology, which maintains the temperature optimized for the greatest comfort, has been applied. The intelligent dual-zone heating feature maintains the temperature difference as precisely as 1°C on each left and right side for the users to experience a quality sleep, and the recovery water temperature control is equipped as well to match the operating temperature to the target temperature and regulate the temperature more precisely and more uniformly throughout the mattress.

## Safety First Design System

Multiple safety design system, which includes the high temperature notification function to prevent low temperature burns, sterilizing mode where the water inside the mattress is boiled at a high temperature, the child-lock mode for the safety of children allows anyone in the family to use the mattress without safety concerns.

## Total Solution

Navien's hot water heating mattresses are more reliable as they are made by KD Navien, the first company that has obtained a CCM(Consumer-Centered Management) certificate and has been holding it for almost 6 years and produces the best products under the corporate culture focusing on the consumer satisfaction and the quality-first spirit. We also offer 24-7 call center and 2-year limited warranty for the users to feel confident to use our products.



### Digital meets analog Navien Mate Modern Line

- Dual analog dials
- Ergonomically designed display
- Application of 2nd generation easy connector
- Self draining system
- Remote controlled and Bluetooth Application
- Sleep mode / programmable timer / voice guidance



### Simple and minimalistic beauty Navien Mate Simple Line

- Comfortable and smooth profile of the body
- Dual touch button
- Ice blue display
- Application of 2nd generation easy connector
- Turn-off timer



### Prelude of stylish design Navien Mate Original Line

- Smooth profile of the body
- Silver dial
- Touch responsive control
- Application of 1st generation easy connector
- Remote controlled and Bluetooth Application
- Sleep mode / programmable timer / voice guidance



### Ultra-slim mattress with the heat spread out to every corner

- Less than 5mm thick but feeling soft and cozy(fluffy) like a regular mattress
- Feeling warmer with high density fluid channel design
- Simple pad type that is easy to move and store



### Cushion mattress feeling comfy and cozy(fluffy)

- Comfortable without bumps with naturally found silicon hose
- Elegant diamond quilting pattern
- Soothing grey color and Navien logo



### Navien Mate cover design that fits everywhere

- Feeling comfortable and cozy with 100% cotton
- Eco-friendly silicon dots to prevent slipping on the floor
- Easy to attach and detach with zippers on top and bottom

# NETWORK BUSINESS

As an industry leader in the smart home market, Navien Home IoT integrates cutting-edge technology for internet of things and offers energy solutions optimized to life styles of the customers. With eco-friendly technologies, KD Navien keeps its efforts to make contributions to the energy conservation and the comfort living.



## Home network and Home IoT business

Provides various control solutions and services by employing wired and/or wireless home network technologies to residential as well as public spaces.

- Home network
- Home IoT
- Video phones



## Individual room control business

Provides high-end products and services that integrate boilers with communication technologies.

- Wireless
- Wired
- Local area heating
- Single-room
- Automatic calorie control
- Commercial



## Boiler control business

Provides high-efficiency products and services with various heating control technologies.

- Controllers (boilers, water heaters)
- APS/GPS
- Circulation pumps
- Air blowers



## User-friendly home network products implemented with IoT technologies

- Home network control with smart pads
- User-friendly products that are easy to carry or move without a space limit
- Visitor monitoring system for individual or shared entrances with a capability of conversation and door release as well as inter-unit conversations
- Home appliance control (lightings, gas, heating)
- Life pattern modes (away, home security, wake-up)
- Home security (intercom to security booths, security with video conferencing, emergency alarm)
- Convenient features (notification services, monitoring energy consumption, delivery notifications, etc)



## Home IoT to turn on and off with a smart phone and even allow video conferencing

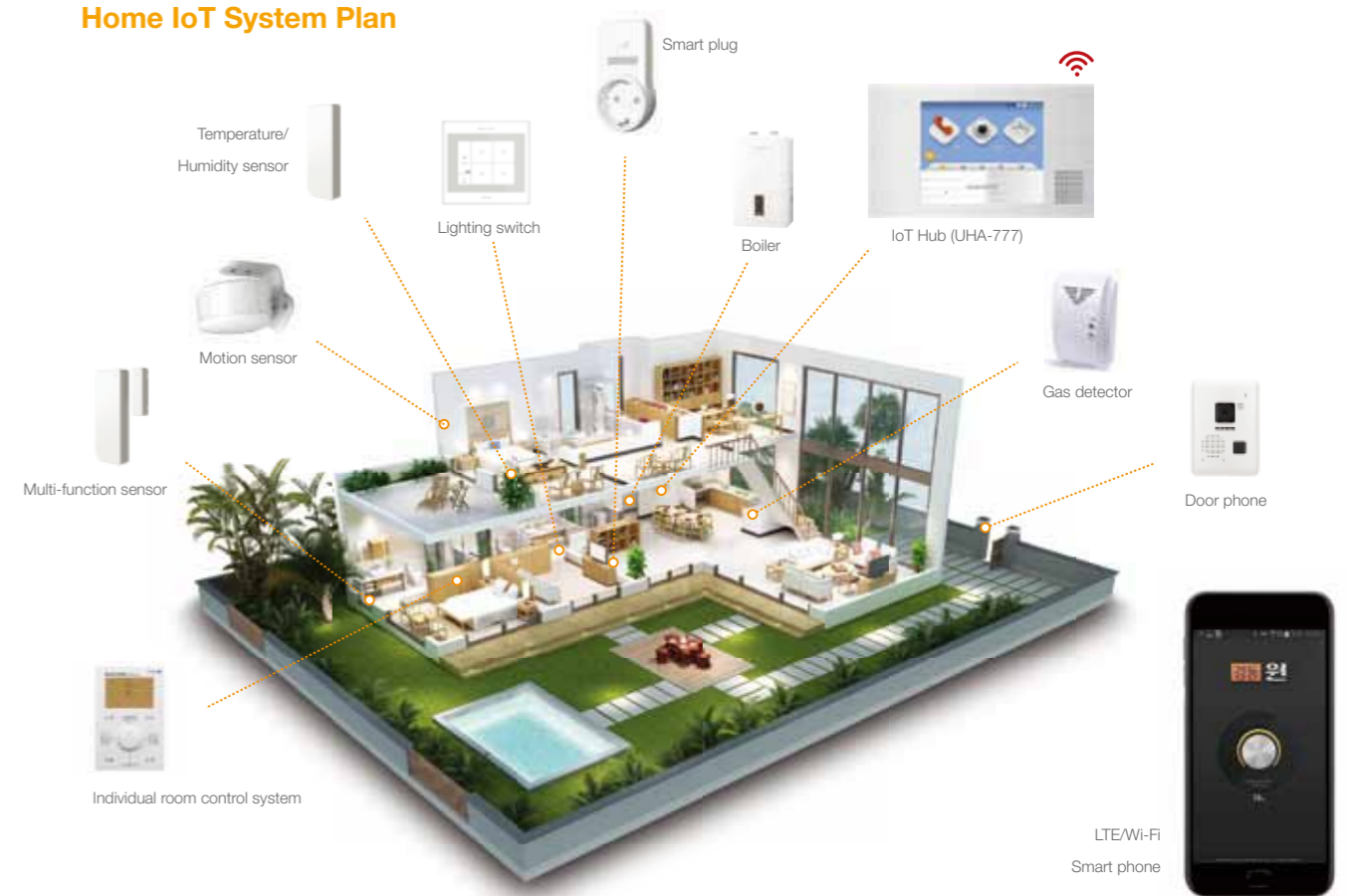
- Remote control with smart phone apps
- Video calls with visitors as well as home view
- Emergency notifications to smart phones and home security video monitoring
- Home device control / Security / Intuitive GUI / Away mode
- Password control for shared entrances



## IoT Video Phone system that enhances the quality of living

- Equipped with IoT Hub
- Compliant with Zigbee IoT products (up to 22 items)
- Emergency notifications to smart phones and home security video monitoring
- Visitor monitoring system for individual or shared entrances with a capability of video conversation
- Security features (home security / emergency notifications / video recording of visitors while away from home)
- Home control while away from home (Remote control with smart phone apps)

## Home IoT System Plan







# MOVING ON INTERACTION

KD Navien has set out to become  
a company that contributes to society  
and repays customers loyalty with  
its business philosophy;  
'social contribution through business.'

# CUSTOMER SATISFACTION

KD Navien innovations are recognized by its customers. KD Navien provides outstanding customer satisfaction by giving customers the best quality products and developing advanced technology for a better standard of living.

## Awarded the Consumer Centered Management (CCM), a First in the Industry

CCM is an enterprise system that increases customer trust by quickly and spontaneously solving consumer problems, analyzing their comments, and preventing reoccurrence of the same issue to improve long term, corporate value. KD Navien was awarded the CCM certification on August 12, 2011, a first in the industry and has passed all the evaluations for renewing the certification that are required every two years to obtain the CCM certification for 3 times in a row.

## Became the first in the industry to be named the 'Korea Service Quality Index (KSQI) Excellent Call Center' for 7 consecutive years

KD Navien's state of the art call center has been recognized five years in a row by the Korean Service Quality Index. KD Navien provides on going customer service through our 'Happy Living Temperature Program', along with hoist of other innovative programs.

## Ranked 1st for 'Korean Customer Satisfaction Index (KCSI)' for 3 consecutive years

Our efforts to provide the best quality and service for customers cannot stop. We believe that providing the best-quality products to consumers is one of the most valuable things that we as an enterprise can do for our customers and society. We worked hard to provide quality and service recognized in the global market as well as in Korea. As a result, we had been ranked in the 1st place for 3 consecutive years for 'Korean Customer Satisfaction Index (KCSI)', which surveys customers' satisfaction on the products and services as well as their brand loyalty. This award is given on the basis of customers' evaluation of quality, satisfaction with service, repurchase intention and intention to make recommendations to others.



# CUSTOMER SERVICE

KD Navien delivers a happy living environment anywhere in the world 365 days a year. Our constant communication with customers and non-stop services will deliver the best quality to customers.

## The Best Service Communicating with Customers

KD Navien runs 350 service centers nationwide and its call center 'Happiness Sharing Center' 24 hours a day, 365 days a year. With personalized customer care programs, we receive customer requests quickly and accurately. In addition, we have provided customers with the best service by improving job performances of service engineers and counselors, who communicate with customers closely, by training them with professional engineering programs and customized education programs.

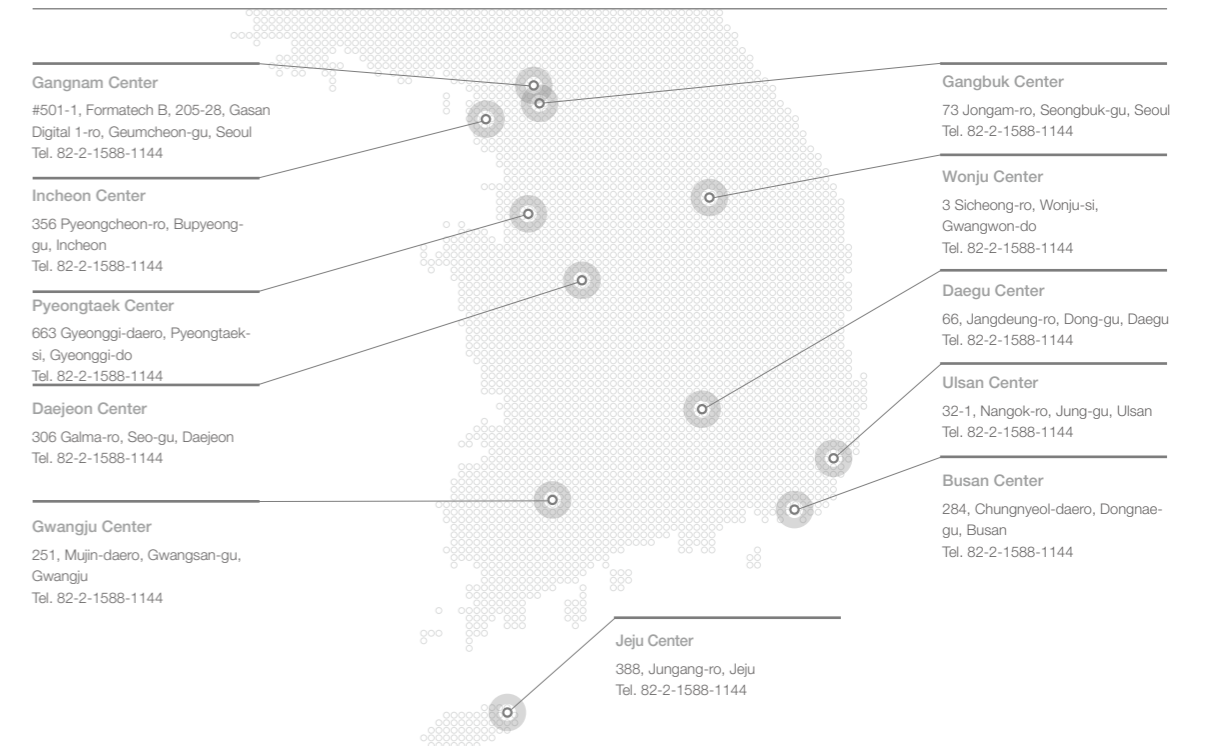
## Strict Service Quality Management

KD Navien closely monitors and reviews each process of its customer service. It conducts a 3-step evaluation using a call center specialized agency and an external organization to discover and apply improvements to the offered service.

## Customer-Centered Content Provision

In order to provide customers with easily disseminated services, KD Navien has launched a mobile website and applications. We want to be able to communicate with clients anywhere at all times. Therefore, We also continue our efforts to provide our customers with the best customer services by offering 'Navien video assistance', a video-assisted 2-way communication customer service using smart phones for the 1st time in the industry.

## Customer Centers in Korea



# ENVIRONMENT MANAGEMENT

KD Navien produces eco-friendly energy equipment through continuous development of technology and creative thinking, We strive to ensure our customers to enjoy rich and pleasant living environment.

## Eco-Friendly Green Technology Development

KD Navien has developed and supplied condensing technology, allowing CO<sub>2</sub> emission reduction by great range. KD Navien keeps on developing Green Energy technologies including the Sterling Engine CHP, Fuel Cells for housing, and solar thermal systems for future generations.

## Supporter of researches and activities for energy saving and environmental preservation

KyungDong Navien uses part of the proceeds of the sales of condensing boilers and water heaters to sponsor the hosting of the 'National Exhibition of Korean Landscape Architecture' through Evergreen Foundation, and supports the 'Korean Resource Economics Association,' the 'International Society of Ondol' and the 'Society of Air-Conditioning and Refrigerating Engineers of Korea' in an effort to save energy and preserve the environment.

### National Exhibition of Korean Landscape Architecture

Evergreen Foundation established the Evergreen Energy Engineering Awards in 2003. Since 2009, it has also regularly sponsored the Korean Resource Economics Association. By regularly supporting the Evergreen Energy Engineering Awards and the association, it has promoted the energy industry in research and development as well as related academic activities.



### Supports Evergreen Energy Engineering Awards and the Korean Resource Economic Association

Evergreen Foundation has been granting the Evergreen Energy Engineering Awards since the awards were established in 2003. The foundation has also sponsored the Korean Resource Economics Association. With the sponsorship, the foundation has promoted the research and development in the energy industry and related academic activities as well.



### Supporter of the Society of Air-Conditioning and Refrigerating Engineers of Korea(SAREK)

KyungDong Navien has been sponsoring the Society of Air-Conditioning and Refrigerating Engineers of Korea since 2014 through Evergreen Foundation with the aim of saving energy, preserving the environment and leading innovation of the energy and environmental technology.



# SOCIAL RESPONSIBILITY

'Social contribution through business' has been the philosophy and practical value of KD Navien from the start. KD Navien is a globally responsible company contributing to the society.

## Social Contribution through Business

The true success of a company is completed when the company manages its responsibility and obligation as a member of the society. KD Navien has played its role as a corporate citizen in society since its foundation, practicing its business philosophy 'social contribution through business.'

## Sharing with society as a corporate citizen

Starting with Dongam Scholarship Foundation, KyungDong Navien established Evergreen Foundation, sponsored Habitat for Humanity, supported welfare facilities and sponsored various cultural projects. Our social contribution activities have evolved in various ways in keeping with changes in society. KyungDong Navien will do our best to make a healthy society to realize our vision of 'Global Energy Solutions Company' creating more comfortable living environments for customers.

### The Oldest Sponsor of Habitat Korea

KD Navien has continually participated in the Habitat campaigns offering free housing to the needy. KD Navien donated boilers to the first House of Love built by Habitat Korea in Uijeongbu in 1994, which was the very first participation of KD Navien in the campaign. Since then, KD Navien has donated boilers to all houses built by Habitat Korea and directly participated in house-building events maintaining a strong relationship with HABITAT KOREA.



### Participating in the initiative to propagate environment-friendly condensing boilers

KyungDong Navien entered into an agreement with the Metropolitan Government of Seoul for 'participation in the free supply of environment-friendly condensing boilers to welfare facilities in Seoul.' We are installing boilers in social welfare facilities and to families of the low income bracket on a pilot basis.



# Ethical Management

KD Navien has continually developed based on a rational and transparent management attitude with moral recognition of individuals in the company maintaining trust with customers. KD Navien improves ethical values of business through its responsible management.

## A Company that Practices Ethical Values

In 2004, KD Navien introduced a business Code of Ethics. Our code ensures KD Navien's companies, managers and employees constantly work to maintain the highest standards when dealing with customers and vendors.

## A Company that Enhances its Corporate Value with Right-Path Management

Thanks to its continual endeavors to become a clean company trusted by customers through fair and transparent business activities, KD Navien has received the 'Economic Justice Corporate Prize' three times from the Citizens' Coalition for Economic Justice. It has been recognized as an exemplary company that practices right-path management.

## Announcement of Ethics Code

KD Navien has consolidated a code of business ethics of affiliated companies and announced the new code on June 1, 2004. Through its new code of business ethics, it has suggested values and a code of conduct to follow as Kyung Dong associates for its customers, society, affiliated companies, KD Navien and colleagues.



## Winner of the Economic Justice Corporate Prize 3 Times

KD Navien was awarded with the 'Economic Justice Corporate Prize' in 2000, 2002, and 2009 from the Citizens' Coalition for Economic Justice for its transparency and sound management. KD Navien has received the best reviews in various fields such as social responsibilities including social outreach work, customer protection, environmental management and economic development contribution as well as its soundness and fairness of management.



# AFFILIATED COMPANY

Four companies (Kyung Dong One, KD Navien, Kyung Dong Everon, and Kyung Dong TS), consolidated into one under the name of Kyung Dong, sharing the ambition of becoming a 'Global Leader in Energy Solutions Bringing Comfortable Living Environment'.



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## Kyung Dong

[www.kyungdong.co.kr](http://www.kyungdong.co.kr)

**Founded in** 1974 | **Business areas:** coal production, overseas resources development, and construction.  
**HQ** 4, Sunae-ro 46 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do | **Tel** 82-31-738-1300 **Fax** 82-31-738-1313



Since the 1970s, Kyung Dong has led the Korean energy industry by developing Korea's only energy resource; coal. It has continually produced one million tons of coal every year through Korea's primary private coal mine, and developed resources such as bituminous coal in China and Australia.

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## Kyung Dong Construction

[www.kdconst.co.kr](http://www.kdconst.co.kr)

**Founded in** 2002 | **Business areas:** Civil engineering and construction, industrial environment, earthwork, ferroconcrete, overseas earthwork, real-estate development, construction equipment rental  
**HQ** 217 Jungan-ro, Samcheok-si, Gangwon-do (Namyang-dong) | **SEOUL** 4, Sunae-ro 46 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do  
**Tel** 82-31-738-1333 **Fax** 82-31-738-1398-9



Kyung Dong Construction has worked in various fields from national industrial facilities to civil convenient facilities including road, rail and tunnel construction, as well as land development and water and sewage construction, with its accumulated construction experience and technical skills. It has been a driving force for the future by moving business diversification forward to revitalize the general construction sector and increase contracts for Korean and overseas construction projects.

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## Kyung Dong City Gas

[www.kdgas.co.kr](http://www.kdgas.co.kr)

**Founded in** 1977 | **Business areas:** LNG supply and pipe materials sales, piping and heating construction.  
**HQ** 260-10 Yeompo-ro, Buk-gu, Ulsan | **Tel** 82-52-219-5300 **Fax** 82-52-287-4189



Founded in 1977 as a briquette manufacturer, Kyung Dong City Gas switched its main business to city gas supply in 1984. Kyung Dong City Gas has built a supply network of natural gas, using a scientific piping design system. It has also expanded its business areas to such fields as gas air conditioning and heating equipment using natural gas, mini-sized cogeneration generators, and hydrogen energy research.

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## Kyung Dong ENS

[www.kdgas.co.kr](http://www.kdgas.co.kr)

**Founded in** 1984 | **Business areas:** City gas piping business and plant construction, import/export logistics management  
**HQ** 304, Jangsaengpo-ro, Nam-gu, Ulsan-si | **Tel** 82-52-270-8330



KD ENS is a company specializing in construction. For the past 30 years, it has strived to build infrastructure for piping facilities to expand city gas supply in Ulsan and Yangju since 1984. KD ENS established a new business for logistics in 2003 to offer expertise in building logistics systems and efficient logistics management for import and export companies.



www.kdone.co.kr

### ● Network Business

**Yeouido Office** 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul | **Tel** 82-2-559-8365 **Fax** 82-2-559-2295

**Seotan Factory** 95 Suworam-gil, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do)



Kyung Dong Network is a company specializing in home network systems to create a safer more convenient living environments in a rapidly changing digital era. Kyung Dong Network features various outstanding technologies ranging from heating control to wired and wireless communication.

### ● Ceratech Business

**Yeouido Office** 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul | **Tel** 82-2-559-8181 **Fax** 82-2-552-6224

**Asan Factory** 331 Asanho-ro, Yeongin-myeon, Asan-si, Chunchongnam-do | **Kyeongju Factory** 1095 Cheongang-ro, Gangdong-myeon, Gyeongju-si, Gyeongsangbuk-do

#### Overseas Offices

**Tianjin Office** Sinryeongjachon, Gunryangseongjin, Dongli District, Tianjin City, China | **Kunshan Factory** 8181 Harbin-ru, Yukgahin, Kunshan City, Jiangsu Province, China



Kyung Dong Ceratech has pioneered and led the Perlite industry in Korea with the world's best Perlite related technologies by establishing its own technical research center and continually investing in R&D. With the aforementioned system using chemical-free artificial soil, it has strived to prevent global warming and restore urban environments. It also has contributed to energy use reduction, safety of housing environment and national industrial developments through cold and hot reserving technologies for LNG vessels and plants.



**HQ** 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul | **Tel** Seoul Office 82-2-3489-2200 **Fax** 82-2-3489-2222

**Chungju Factory** 1334 Gagok-ro, Yangseong-myeon, Chungju-si, Chungcheongbuk-do | **Tel** 82-43-850-3000 **Fax** 82-43-855-3511

Kyung Dong Everon produces core components for energy equipment such as heat exchangers and burners. It has upgraded the core component technology of boilers in Korea by studying, developing, manufacturing, selling high efficiency eco-friendly condensing heat exchange and free-mix burners. Kyung Dong Everon holds great reputation in the field of the core component for living environment and energy equipment with its aggressive investments in R&D and stainless brazing technology recognized globally.



**HQ** 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul (New Wing, KOAMI Building in Yeouido-dong)

**Tel** 82-2-3489-2200 **Fax** 82-2-3489-2222

**Gyeongdong Human Resource Center** 110 Chudam-ro, Pyeongtaek-si, Gyeonggi-do | **Tel** 82-31-646-9700 **Fax** 82-31-646-9701

Kyung Dong TS stands for Kyung Dong Total Solution & Service. TS is specialized in services for boilers, water heaters, ventilation systems, and home network systems. It has served customers and taken the lead in consumer right protection; it has fostered engineers for excellent services through education programs at training centers. It truly is becoming a global company specialized in services under the banner of customer satisfaction management.



## Global Network

### HQ

KD Navien | 3-6F, 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul (New Wing, KOAMI Building in Yeouido-dong)  
| **Business Areas:** Boiler, water heater, air conditioning, ventilation system, home network  
TEL 82-2-3489-2200 | FAX 82-2-3489-2222 | www.kdnavien.co.kr

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### Nationwide Offices

Seoul Office | 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul | TEL 82-2-3489-2400  
Gyeongin Office | 22, Gukhoe-daero 76-gil, Yeongdeungpo-gu, Seoul | TEL 82-2-3489-2400  
Daejeon Office | 306 Galma-ro, Seo-gu, Daejeon | TEL 82-42-521-1144  
Gangwon Office | 3F, Royal Tower, 172-5, Musil-dong, Wonju-si, Gangwon-do | TEL 82-33-745-1144  
Gwangju Office | 251 Mujin-daero, Gwangsan-gu, Gwangju | TEL 82-62-373-1144  
Daegu Office | 66, Jangdeung-ro, Dong-gu, Daegu | TEL 82-53-627-1144  
Busan Office | 284, Chungnyeol-daero, Dongnae-gu, Busan | TEL 82-51-747-1144

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### Manufacturing Facilities

Seotan Factory | 95 Suworam-gil, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do  
| **Manufacturing products:** Gas boilers for home use, gas water heaters for home and commercial use  
Pyeongtaek Factory | 663 Gyeonggi-daero, Pyeongtaek-si, Gyeonggi-do (Segyo-dong)  
| **Manufacturing products:** Oil boilers for home use, commercial gas and oil boilers, system ventilation  
Songtan Factory | 438-2, Mogok-dong, Pyeongtaek, Gyeonggi-do\_57, 121-gil, Sandan-ro, Pyeongtaek, Gyeonggi-do (Mogok-dong)  
| **Products:** midnight electric boilers, vacuum water heaters, etc.

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### Research Center

Energy Technology Research Center | 205-38, Gasan digital 1-ro, Geumcheon-gu, Seoul (Gasan-dong)  
| **Main works:** Research planning, research development, and project management

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### Human Resource Development Center

Gyeongdong Human Resource Center | 110 Chudam-ro, Pyeongtaek-si, Gyeonggi-do | TEL 82-31-646-9700  
| **HYPERLINK** www.kdacademy.co.kr

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### Overseas Offices

Navien America HQ & California Training Center | Navien, Inc (U.S.A. Office) | 20 Goodyear, Irvine, CA 92618  
TEL 1-949-420-0420 | FAX 1-949-420-0430 | www.navienAmerica.com

New Jersey Training Center, the USA | U.S.A Training Center | 325 Route 70 East, Cherry Hill, NJ 08034  
TEL 1-949-420-0420 | FAX 1-856-354-5099 | www.navienAmerica.com

Canada Office | 7-346 Milway Ave, Vaughan, ON L4K 3W1  
TEL 1-949-420-0420 | FAX 1-905-532-9976 | www.navien.ca

Navien Beijing | Beijing KyungDong Navien | Heat Energy Equipment Co., Ltd.(Beijing Office) | Mapo Juyuan Industry Area, | Shunyi Country, Beijing  
TEL 86-10-6940-0723~4 | FAX 86-10-6940-8246 | www.kdnavien.com.cn

Navien Shanghai | Navien Shanghai Co., Ltd.(Shanghai Office) | 1804 Eton Place, No. 69, East Road, Pu Dong Area, Shanghai  
TEL 86-21-6888-1761 | FAX 86-21-6888-1760 | www.kdnavien.com.cn

Navien Russia | Navien Rus LLC | PROFSOUZNAJA STR., 65k1, 10 floor, R. 1, 117342, MOSCOW, RUSSIA  
TEL 8-495-258-6055 | FAX 8-495-280-0199 | www.navien.ru

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TEL 44-20-3598-2020 | www.navien.co.uk

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