

www.enerpia.com

ENERPIA

DIY HEATING MAT CABLE

SMART HEATING SYSTEM

*Smart heating
specialist*



ENERPIA strives to create
a warm and safe world.



ENERPIA
Smart heating specialist

It's not conventional heating
where only the upper air is warm
while the lower air is cold.

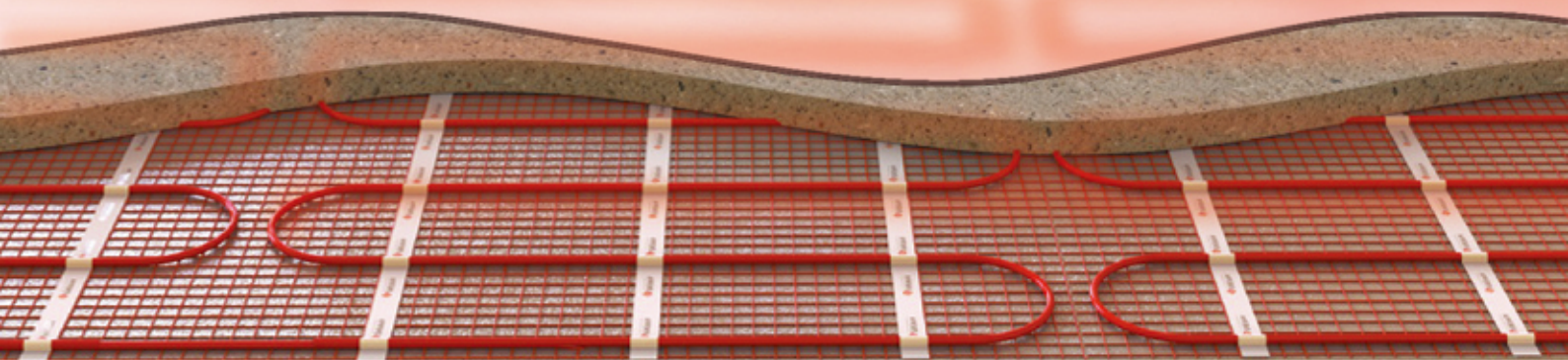


Экологичная ENERPIA другого измерения
Согреет все ваши жилые помещения

*Smart heating
specialist*

ENERPIA
HEATING
SYSTEM

Тепло от пола наполняет теплотой
ваше сердце Используйте наш продукт,
не беспокоясь о холодах даже в суровые зимние дни!



Increase the value of **energy** and the **environment!** High-efficiency, eco-friendly advanced heating system

Non-electromagnetic field heating line **Enerpia Mat Cable**
No need to worry about electromagnetic waves

70% More than of heating costs can be reduced, compared to oil heating.

The product is made in consideration of the environment and health.

Enerpia DIY Mat Cable, which always puts customers and the environment first, is a DIY kit specialized to make it easier and more convenient for self-installation in humid places, tile finishing materials, and verandas.

Economical heating

Comfortable heating

ENERPIA
Smart heating specialist

DIY UNDERFLOOR MATCABLE HEATER

For your well-being life & Energy cost saving system!

The primary purpose of this product is to provide a safe and healthy environment for consumers to directly install it with safety.

Why?

Why Enerpia Mat cable?



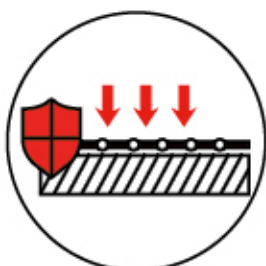
A product that implements **ondol-style heating** through an **electric floor heating system**.



All electrical energy is **converted into heat** for **100% use in actual heating**.



Heat accumulation effect guarantees **long heating with less energy usage**.



Due to the mortar construction method **it is safe against loads even when applied to a large space**



A heating system that does **not produce freeze, smoke, or gas**.



No noise and excellent space management as there is no boiler room.



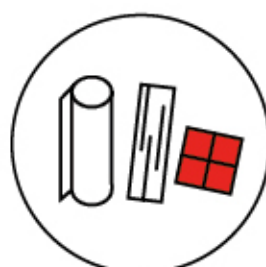
Blocking electromagnetic waves within heating cables
Healthy and comfortable heating



Safe usage **without additional maintenance**.



DIY KIT product that anyone can easily install **without facility piping**



Any floor finishing materials can be used.



Reduces unnecessary heating costs by using partial heating.

Enerpia mat cable DIY kit for floor heating

Provides the **best quality** at **minimum cost**.
Specialized mat cable that anyone can install easily.

Specialized product that allows consumers to purchase
DIY mat cables and install by themselves easily and conveniently.


A simple guide is enclosed with the product so that you can easily
view and follow it.



Specifications of Mat cable

Product name	Power Consumption	Length	Application area (W×L)
Standard (150W/M2)	150Wh	10m	2×1m
	225Wh	15m	2×1.5m
	300Wh	20m	2×2m
	375Wh	25m	2×2.5m
	450Wh	30m	2×3m
	525Wh	35m	2×3.5m
	600Wh	40m	2×4m
	675Wh	45m	2×4.5m
	750Wh	50m	2×5m
	900Wh	60m	2×6m
	1,050Wh	70m	2×7m
	1,200Wh	80m	2×8m
	1,350Wh	90m	2×9m
	1,500Wh	100m	2×10m
	1,650Wh	110m	2×11m
	1,800Wh	120m	2×12m
	2,250Wh	150m	2×20m

※ Depending on the application, the product structure can be customized. ※ Temperature controller sold separately.

※  This is the color of the corresponding product cable.

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Specifications of Mat cable

Product name	Power Consumption	Length	Application area (W×L)
Proheat (170W/M2)	170Wh	10m	2×1m
	255Wh	15m	2×1.5m
	340Wh	20m	2×2m
	425Wh	25m	2×2.5m
	510Wh	30m	2×3m
	680Wh	40m	2×4m
	850Wh	50m	2×5m
	1,020Wh	60m	2×6m
	1,190Wh	70m	2×7m
	1,360Wh	80m	2×8m
	1,530Wh	90m	2×9m
	1,700Wh	100m	2×10m
	2,040Wh	120m	2×12m
	2,380Wh	140m	2×14m
	2,720Wh	160m	2×16m

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Specifications of Mat cable

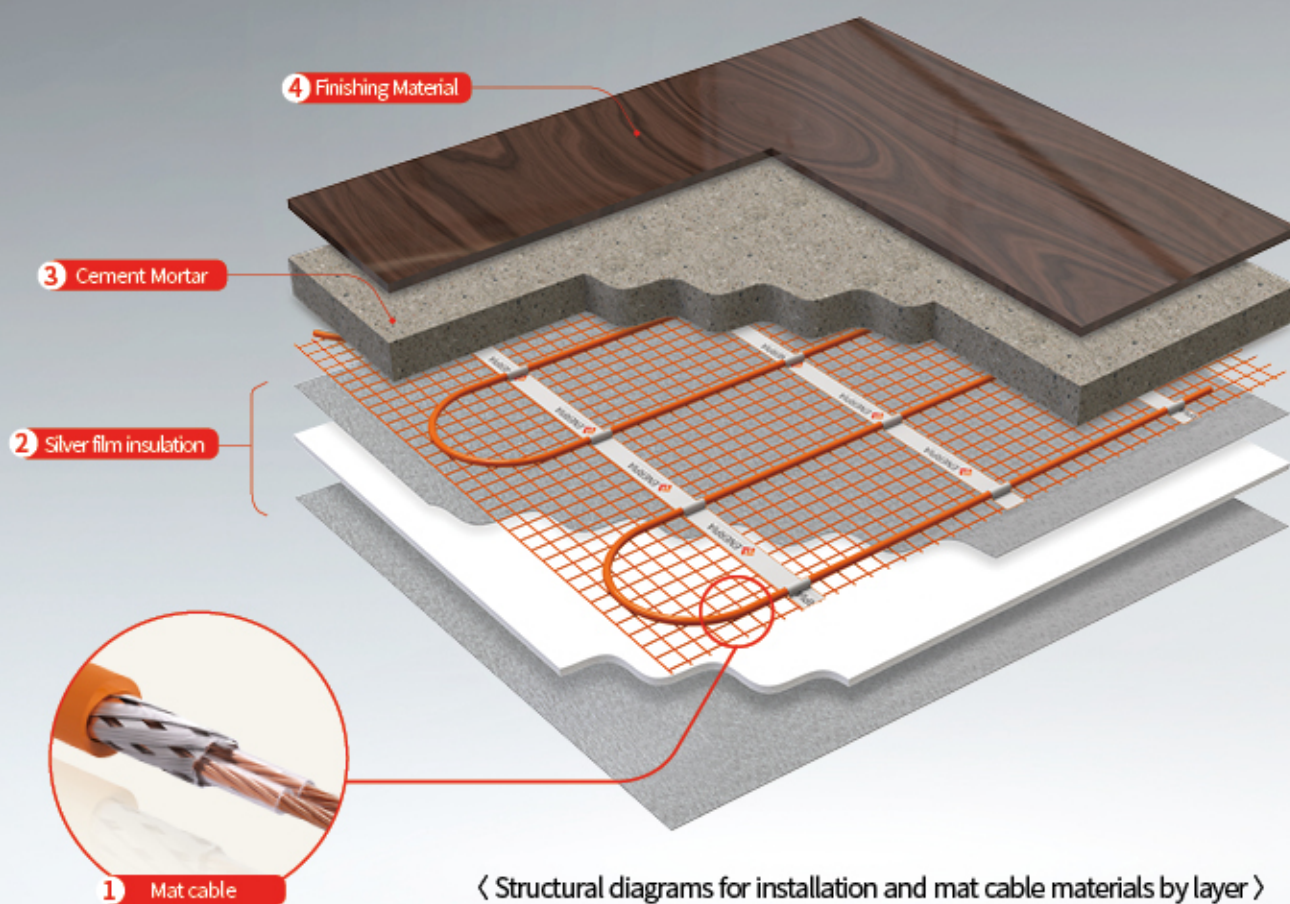
Product name	Power Consumption	Length	Application area (W×L)
Super heat (200W/M2)	200Wh	10m	2×1m
	300Wh	15m	2×1.5m
	400Wh	20m	2×2m
	500Wh	25m	2×2.5m
	600Wh	30m	2×3m
	700Wh	35m	2×3.5m
	800Wh	40m	2×4m
	900Wh	45m	2×4.5m
	1,000Wh	50m	2×5m
	1,200Wh	60m	2×6m
	1,400Wh	70m	2×7m
	1,600Wh	80m	2×8m
	1,800Wh	90m	2×9m
	2,000Wh	100m	2×10m
	2,400Wh	120m	2×12m
	2,800Wh	140m	2×14m

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※  This is the color of the corresponding product cable.

No problem in any environment!

Easy and simple to install anywhere you want



1

Heating cable

The cable is buried under the covering surface and is able to sense the temperature and humidity automatically during installation. This allows the cable to be used for various purposes in a variety of spaces such as floor heating in winter, snow melting equipment, freeze protection, and moisture prevention of electronic products.

2

Silver film insulation

It ensures a high level of heat quantity and keeps the temperature warm and long.

3

Cement mortar

The thickness of the mortar layer may vary depending on the finishing material.

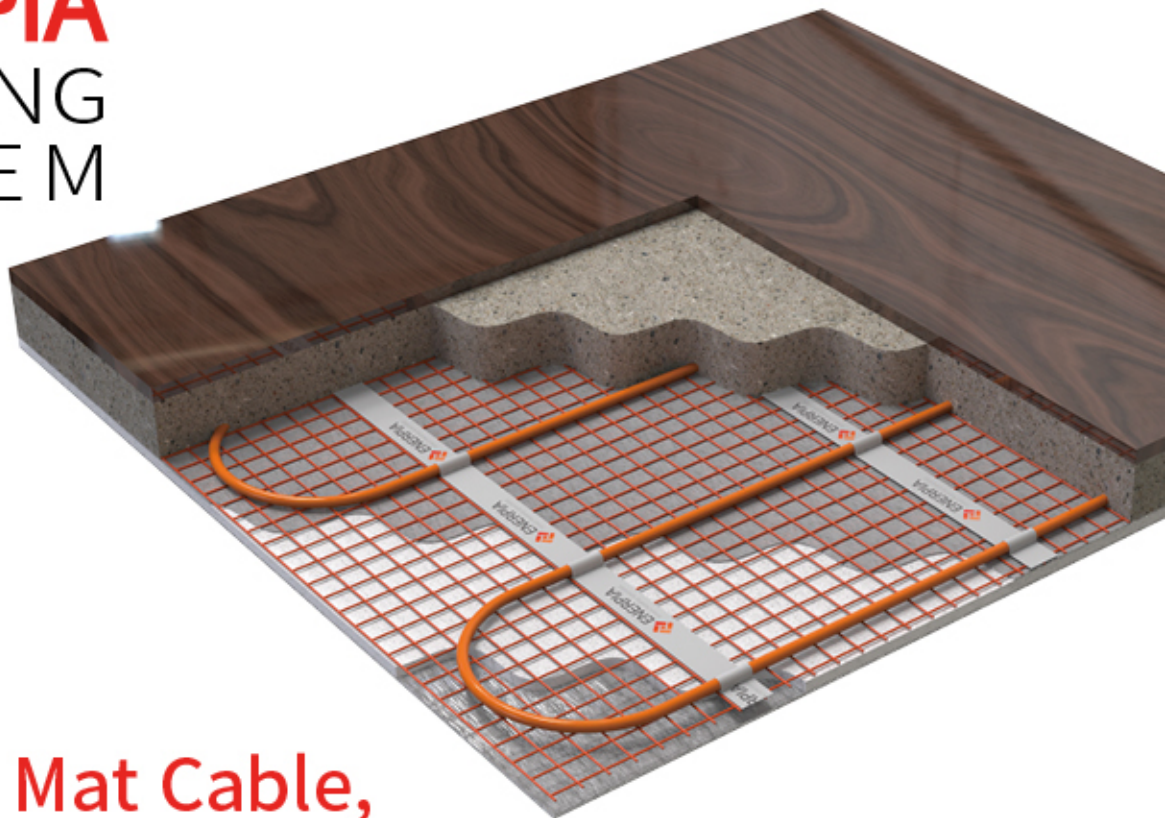
4

Finishing material

Finishing and decorative material on the external surface.

Smart heating
specialist

ENERPIA HEATING SYSTEM



Enerpia Mat Cable, A Patented Technology

Patents And Utility Models of
Enerpia Mat cable

Certificates of
Enerpia Mat cable



Certificate Of Patent
(No. 10-1292327)



Utility Model
(No. 20-0412561)



Russia GOST Standard



CE

A company you can trust! Enerpia

Certificates of Enerpia



Certificate Of Patent
(No. 10-1746775)



Letter of Q-Mark
designation



Russia GOST Standard



CU (Russia compulsory
certification)



CE



G-PASS certificate



Quality management
system certificate



Environmental management
system certificate



Certificate of the
company-affiliated
research institute



Letter of designating as
a promising export SME



Letter of pre-star
company designation



Membership card of
the Korea International
Trade Association



Design registration
certificate



Design Registration/
Inno-Biz



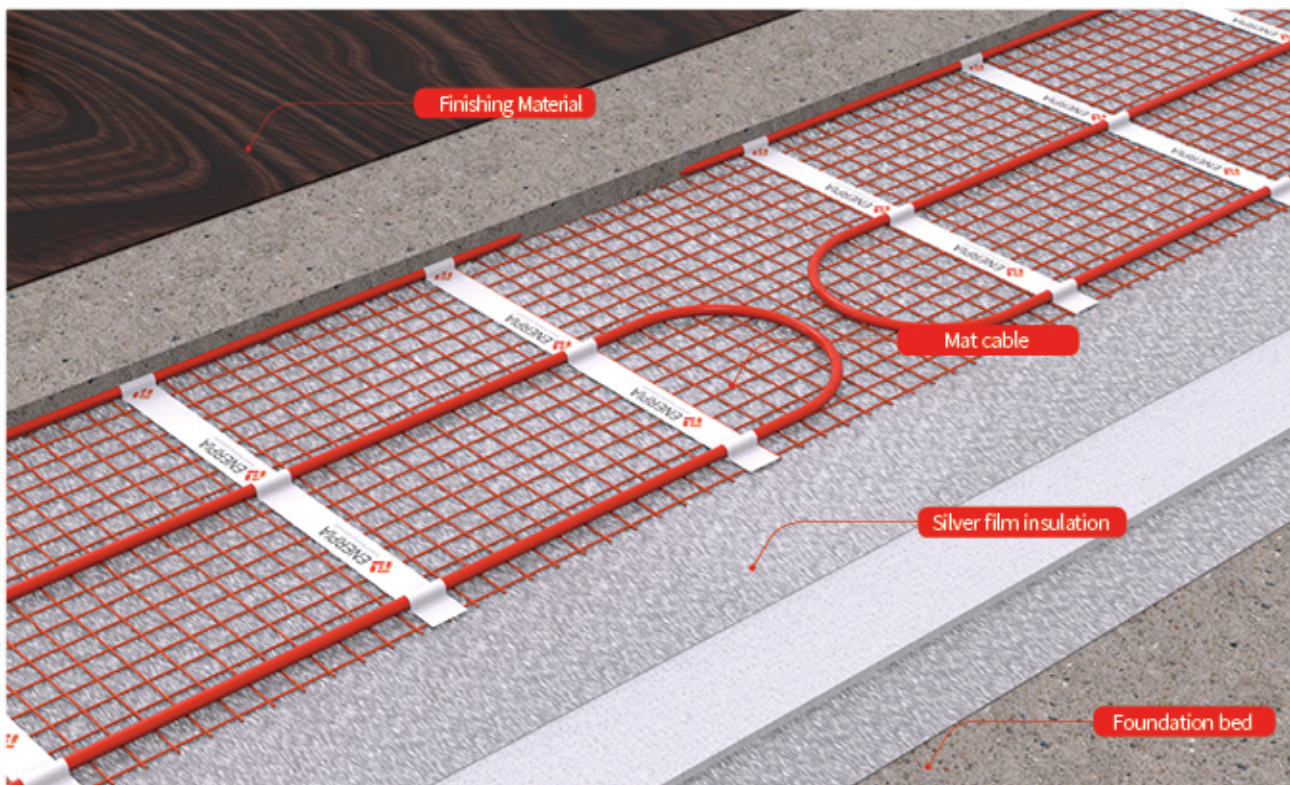
Certificate of the
company specialized in
material parts



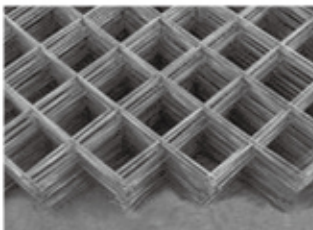
Venture company
certificate

Structural diagram for installation of Enerpia non-electromagnetic mat cable

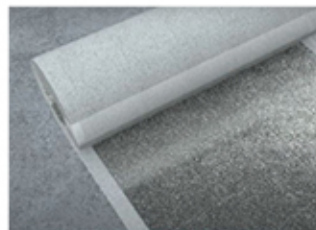
| Structural diagram for mat cable installation



| Main installation parts for mat cable



Wire mesh



Silver film insulation



temperature sensor



Climate controller

The only Company in the Field That carries out the whole process of Manufacturing to Construction

*Any Floor
Covering Materials*

Accurate and thorough
inspection and testing
Quality and safety come first!

Construction method

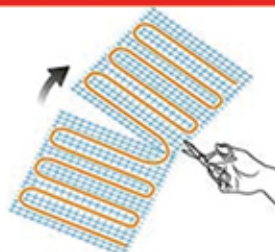
Enerpia provides convenience to our customers with our total solution - from design to repairs after construction completion.

1 Install mat cable.



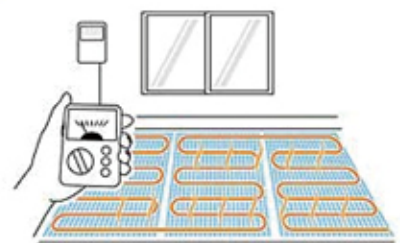
Make sure the cable lines face up

2 Cut and reorient the mat.



Do not cut the heating wire
when cutting the mat

3 Performance test



4 Spread cement mortar



Simple operation, but many functions Enerpia thermostat

It is a controller that can adjust temperature and time for the electric floor heating, and can also be changed into an individual type or communication type according to the capacity, facility, and site.

Recommended thermostat

UTH-170



UTH-200



UTH-300



TYPE	Digital Type		
Temperature range	-20°C ~80°C (Temperature range can be changed.)	0 °C ~ 80 °C (Temperature range can be changed.)	-20°C ~80°C (Temperature range can be changed.)
Number of circuits	Individual 1 circuit	Individual 1 circuit	Individual 2 circuit
Size	70(W) X 120(H) X 27(D)	70(W) X 120(H) X 27(D)	120(W) X 120(H) X 34(D)
Input power	AC 85V ~ AC 265V (SMPS method)		
Allowable current	1 heating * 18A	1heating * 18A	2heating * 16A(total 32A)
Load capacity	4KW	4KW	6KW
Construction type	Exposed type		
Display Type	High luminance yellow FND (present temperature, set temperature display), LED (status display)		
Processor Type	Sensor type (NTC 5K Ω) /Timer setting available/ Intensity type setting available/Control using a wireless remote control	Sensor type (NTC 5K Ω) /Timer setting available/ Intensity type setting available/Control using a wireless remote control	Sensor type (NTC 5K Ω) / Timer setting available
Option	#1: Excess sensor (optional) #2: Error message alert function (Temperature range settings can be changed.), Output blocking #3: Excess sensor (An output blocking error message is displayed if excess occurs.)	#1: Excess sensor (optional) #2: Error message alert function (Temperature range settings can be changed.), Output blocking #3: Excess sensor (An output blocking error message is displayed if excess occurs.)	#1: When an error occurs A warning buzzer sound is generated. #2: Excess sensor (optional) #3: Error message generation function (Temperature range setting can be changed.), output blocking #4: Excess prevention sensor is attached inside the regulator (overheating prevention)



Enerpia continues to
make warm spaces.

*Smart heating
specialist*

Keep your floor and space warm while reducing costs with Enerpia electric floor heating. The mat cable has a heat storage effect, and the longer it is used, the more economical it becomes.

| Installation recommended in various places.

A suitable place to install the DIY mat cable is in **humid places, tile finishing materials, and verandas.**



Lecture rooms



Apartments/houses



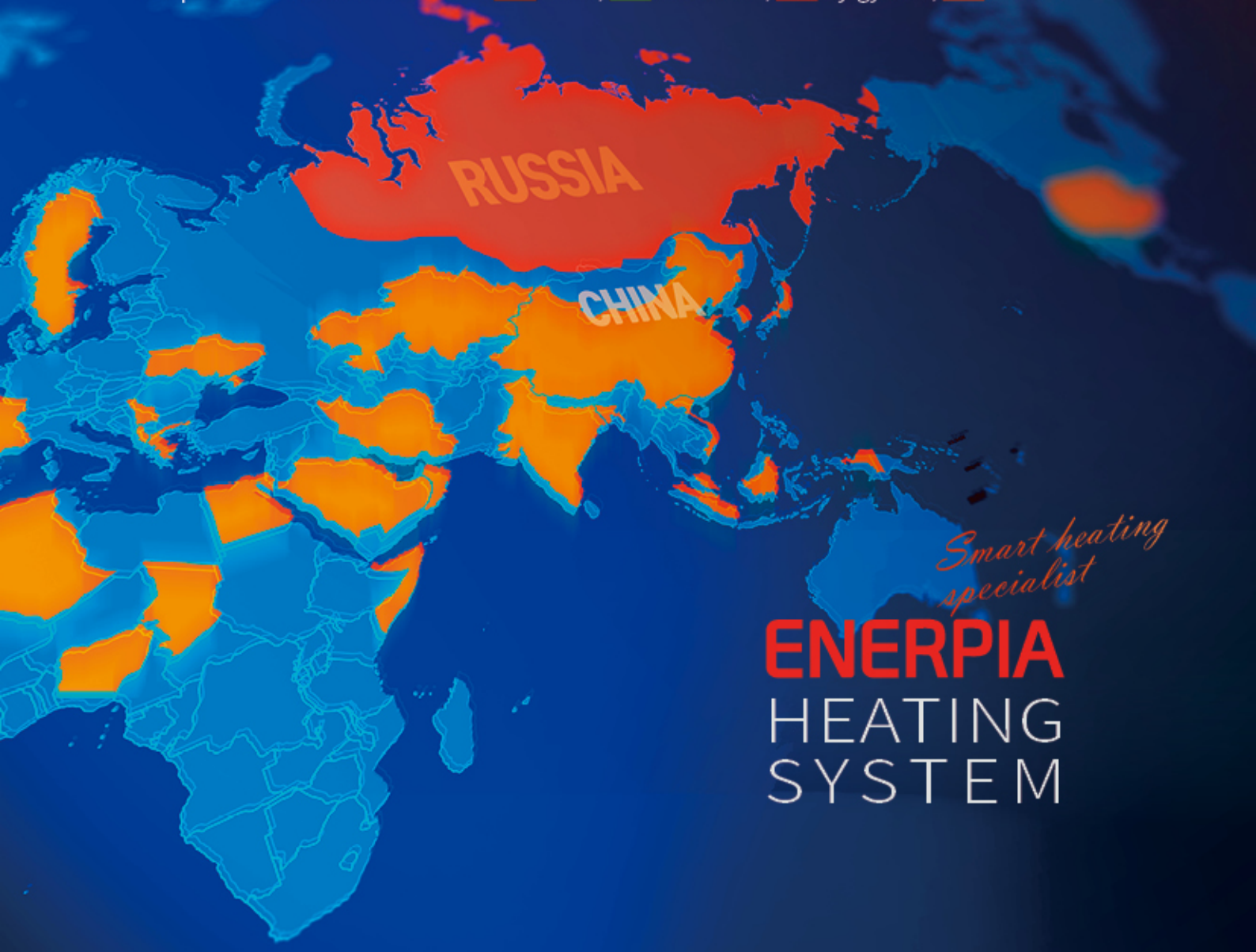
Bathroom

The center of global connection!
It all starts here, in **Korea**.

Enerpia is a global company
that has **successfully entered
markets in 28 countries.**

Enerpia is a **global company** that has successfully entered markets in
28 countries including Russia and Europe.

Enerpia established local factories in  China,  Uzbekistan,  Kyrgyzstan,  Russia.



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The only company in the industry that both
manufactures and constructs the product

Enerpia provides convenience to our
customers with our total solution - from design
to repairs after construction completion.



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