

NEW

AI THERMOSTAT • SPIRIT

Global Release

Xiamen Beca Energysaving Technology Co.,Ltd

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➤ Why should we save electricity?



Save Energy



Reduce Pollution



Lower Cost



**Sustainable
Development**

What can we do if saving 1 kWh of electricity?

Support a 20 watt LED light to be continuously lit for 50 hours;
Support a 100 watt electric fan to run continuously for 10 hours;
Support watching a 200 watt TV for 5 hours;
Support one microwave oven with a power of 1000 watts to operate for 1 hour;
Support a typical electric bicycle to travel for 4 hours;
Support a laptop with a power of 50 watts to run for 20 hours.



No matter individual or a company, we are responsible. So what can we do for the sustainable development of world ?

Then we developed the
world's first AI-integrated
smart thermostat SPIRIT
together with high
technology company.

SPIRIT Series

What can BECA do?

BECA is exploring how to align our company name and mission of creating enduring value products with global sustainability.





**World's first
Smart thermostat
integrated with AI**

BECA Smart Controller SPIRIT



At present, BECA AI thermostat is used to control the temperature of heating film, heating cable and carbon crystal heating panel.

Heating film

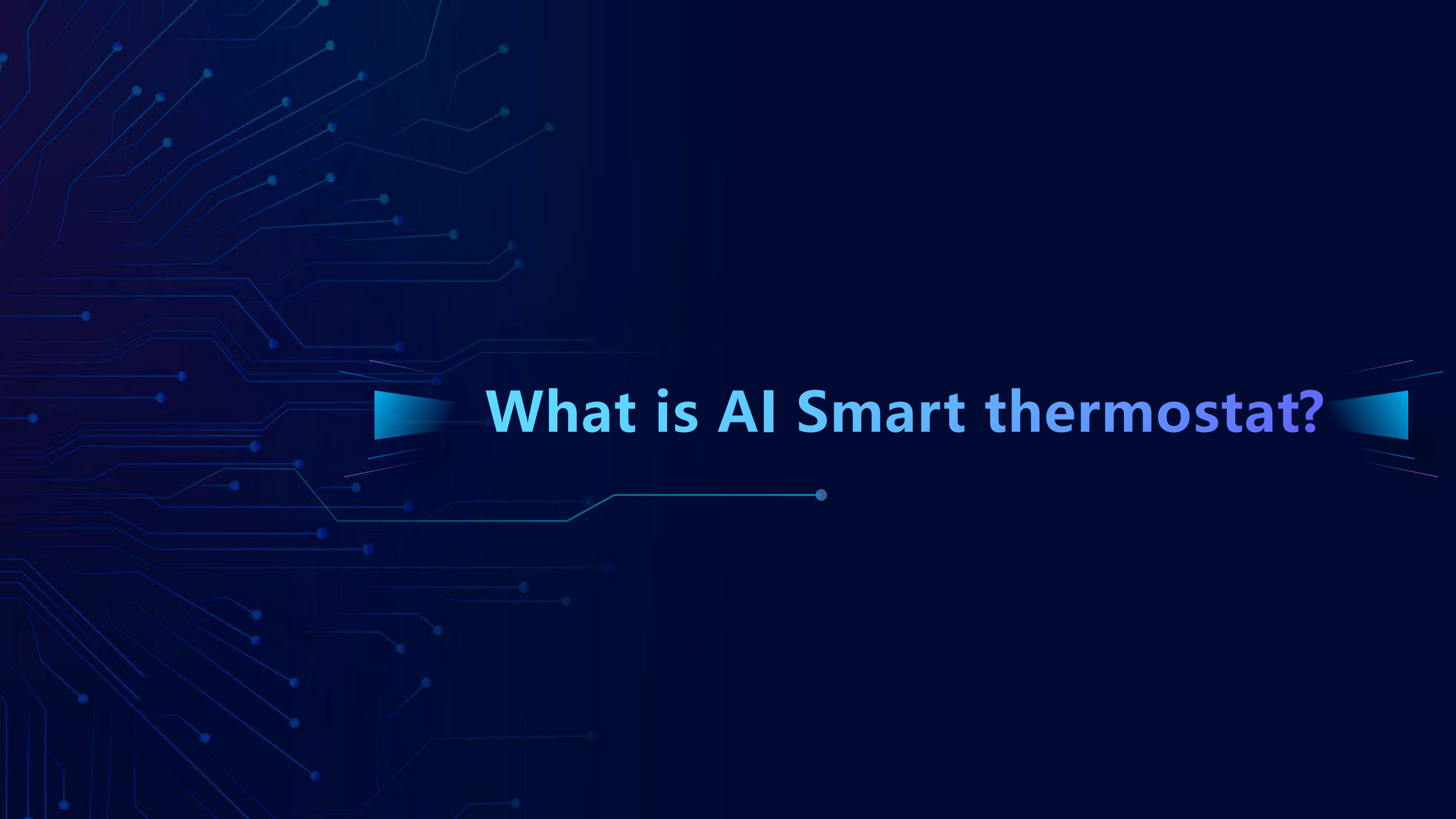


Heating cable



Carbon crystal heating panel





What is AI Smart thermostat?

AI Smart Thermostat is a control solution which integrated temperature and advanced AI technology.

By learning human's neural network deeply and using the thermal inertia effectively, it could achieve the best balance of intelligence control and energysaving.



Take an example: If there is 1 thermostat in a room, 2 kWh will be saved per day;
If there are three thermostats, 1080 kWh will be saved in 6 months.



20 kwh/day
Heating electricity



AI Thermostat



Power
saving

2kwh/day



Power
saving

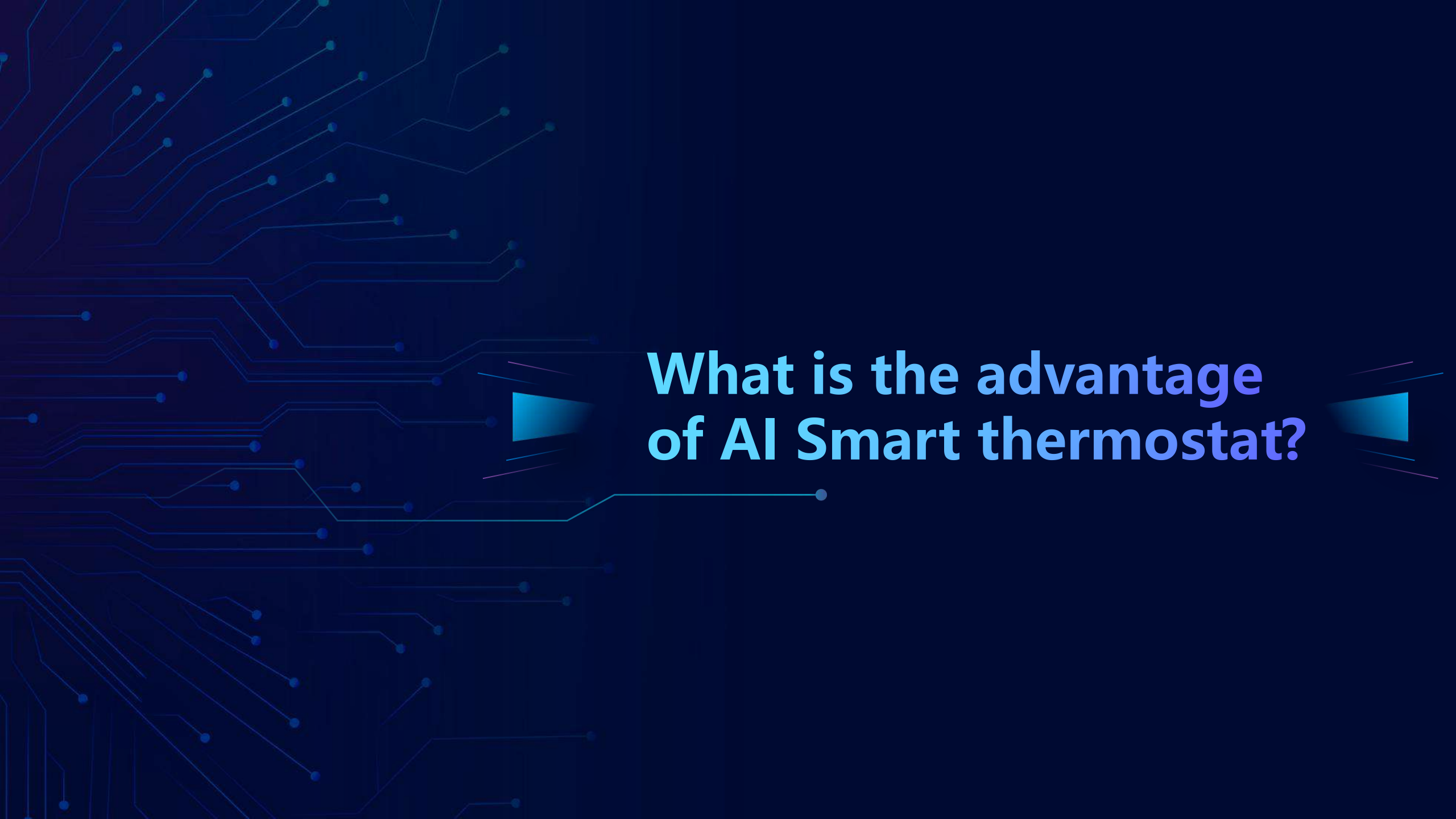
360 kwh / 180 day



6kwh/day



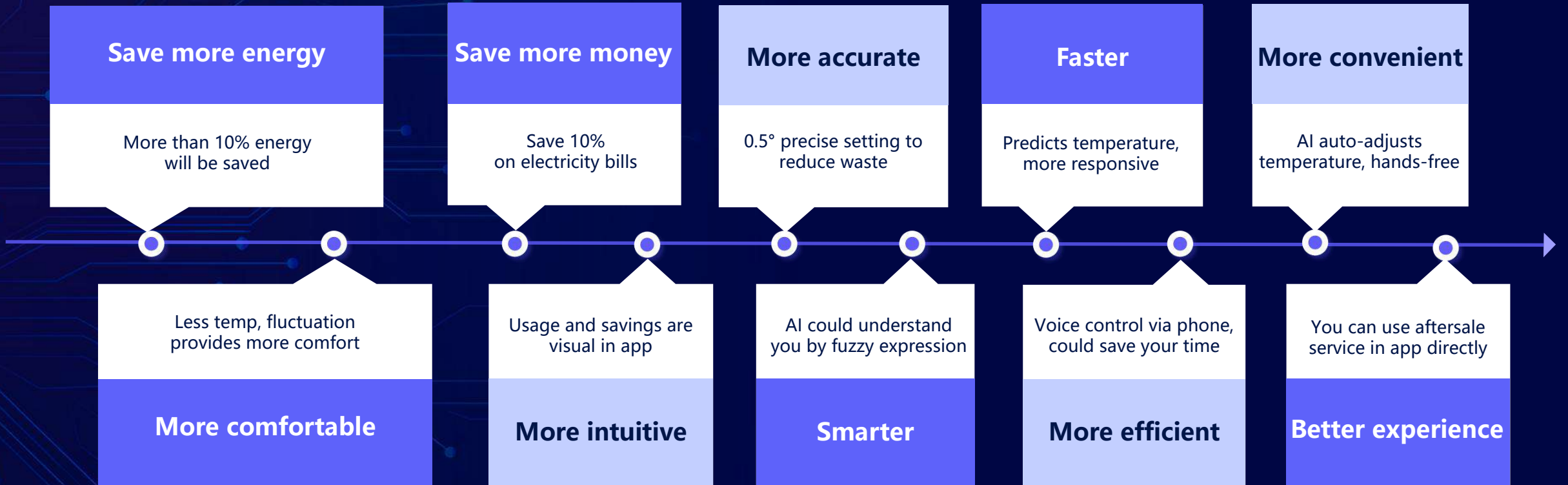
1080kwh / 180 day



**What is the advantage
of AI Smart thermostat?**

For end users

Ten advantages for end user



For distributors

Worry-free after-sales

Profit controllable

Exclusive agency

**Continuous
profitability**



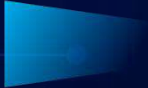
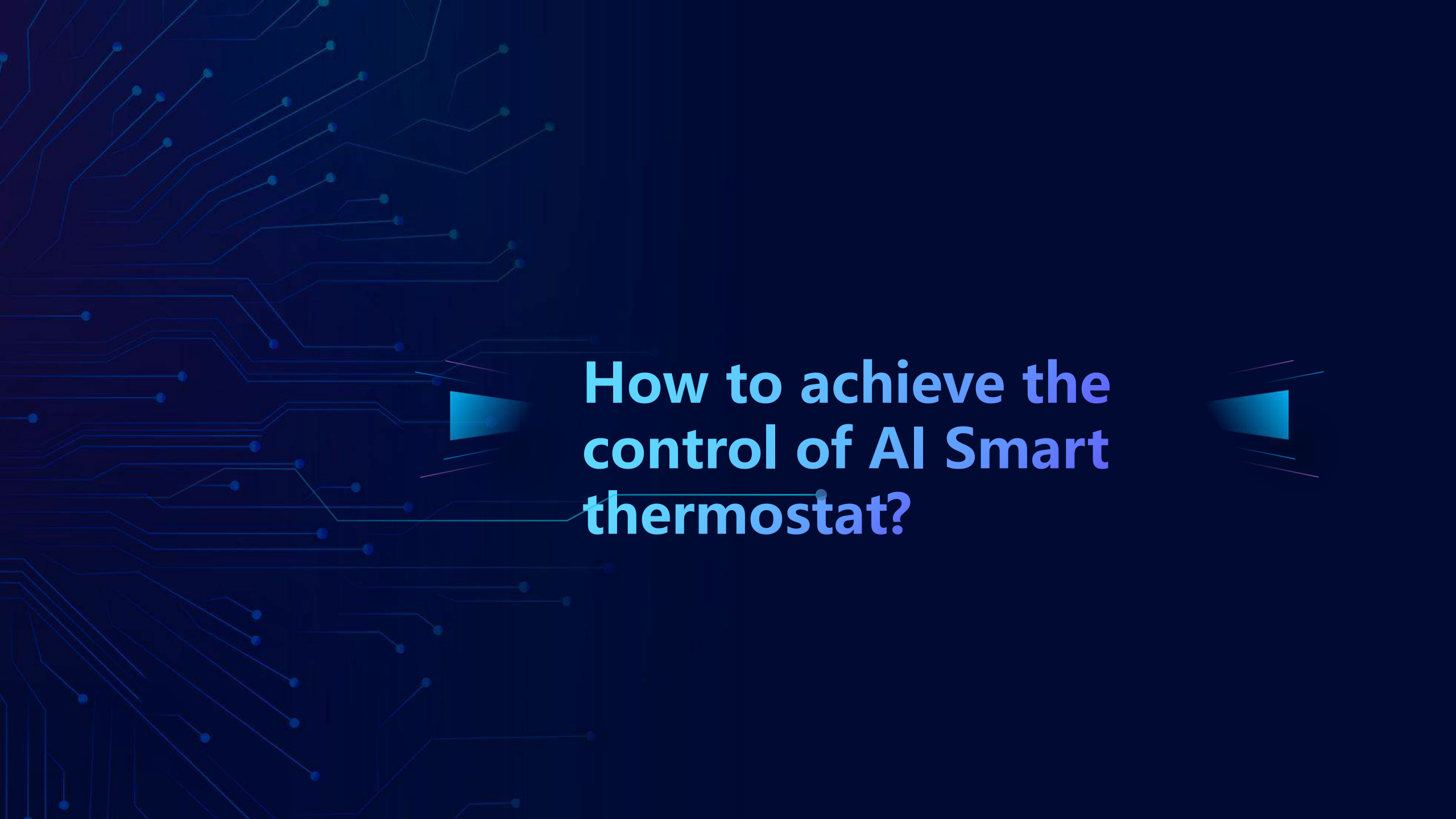
Customer recommendation

Good for end users

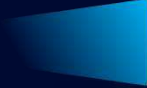
Innovative product

Market blank

Eight major advantages



How to achieve the control of AI Smart thermostat?



➤ What is thermal inertia?



Thermal inertia phenomenon

When a heating device or air conditioner starts or stops, the room temperature doesn't change immediately .

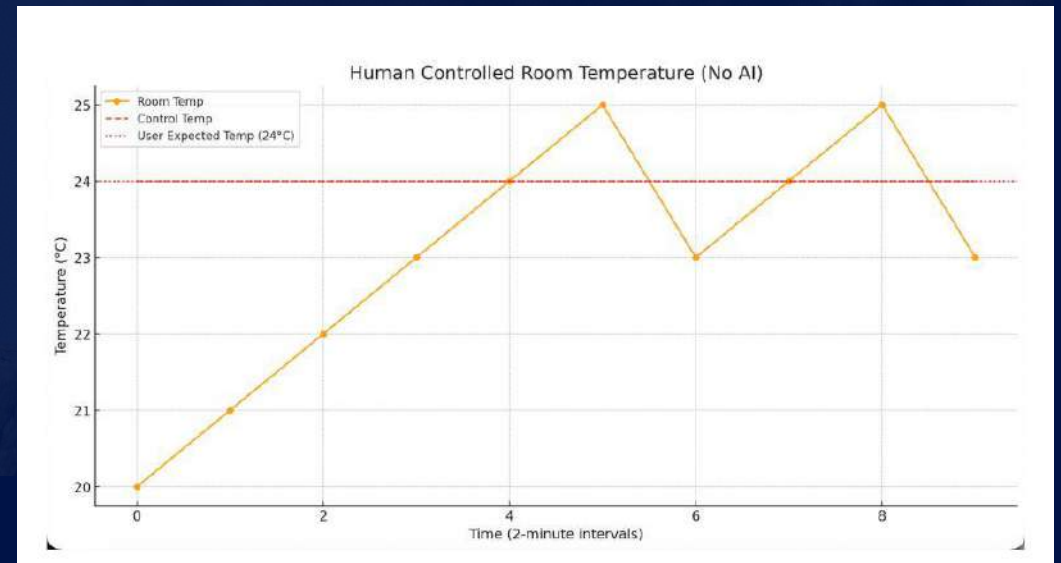
Effects of thermal inertia

Inaccurate temperature adjustment increases energy consumption and decreases user comfort. .



The problem of traditional thermostats

It could not adjust the temperature to the comfortable point in time so it will waste more energy and the user will be not comfortable enough.



➤ Factors influencing thermal inertia



- **Room insulation and thermal properties**
Room size and insulation affect thermal inertia.
- **Equipment power**
Equipment power impacts temperature change speed.
- **Air flow**
Good airflow promotes rapid, even heat distribution.
- **Thermal capacity of objects**
Room objects' material and quantity affect temperature change speed.

➤ Problems



The power of equipment is different



Different home environment



Temperature is different in different area



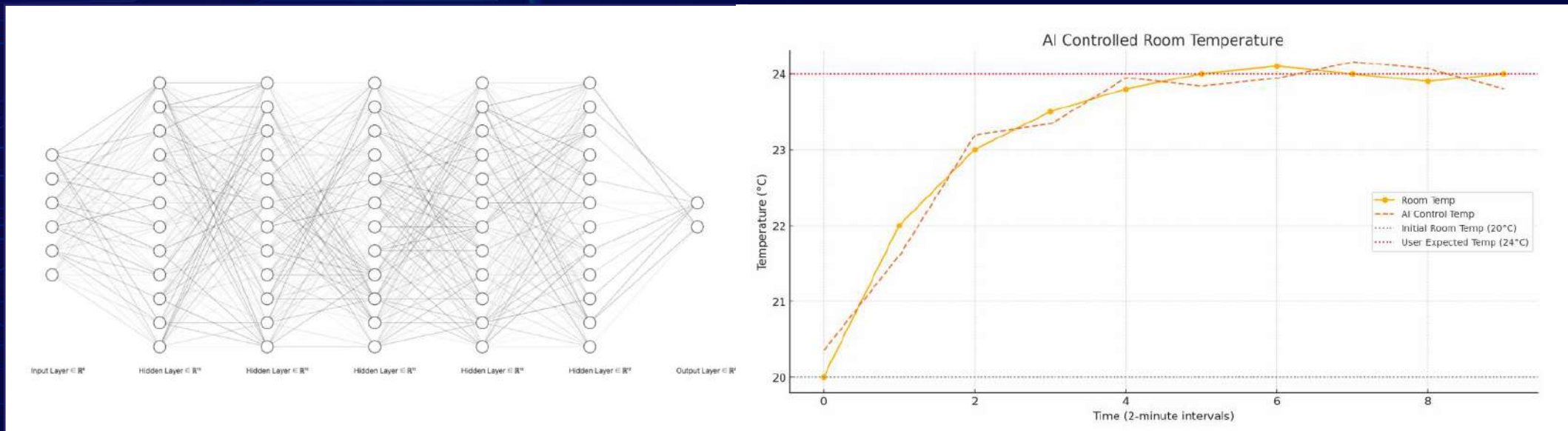
Different time has different temp



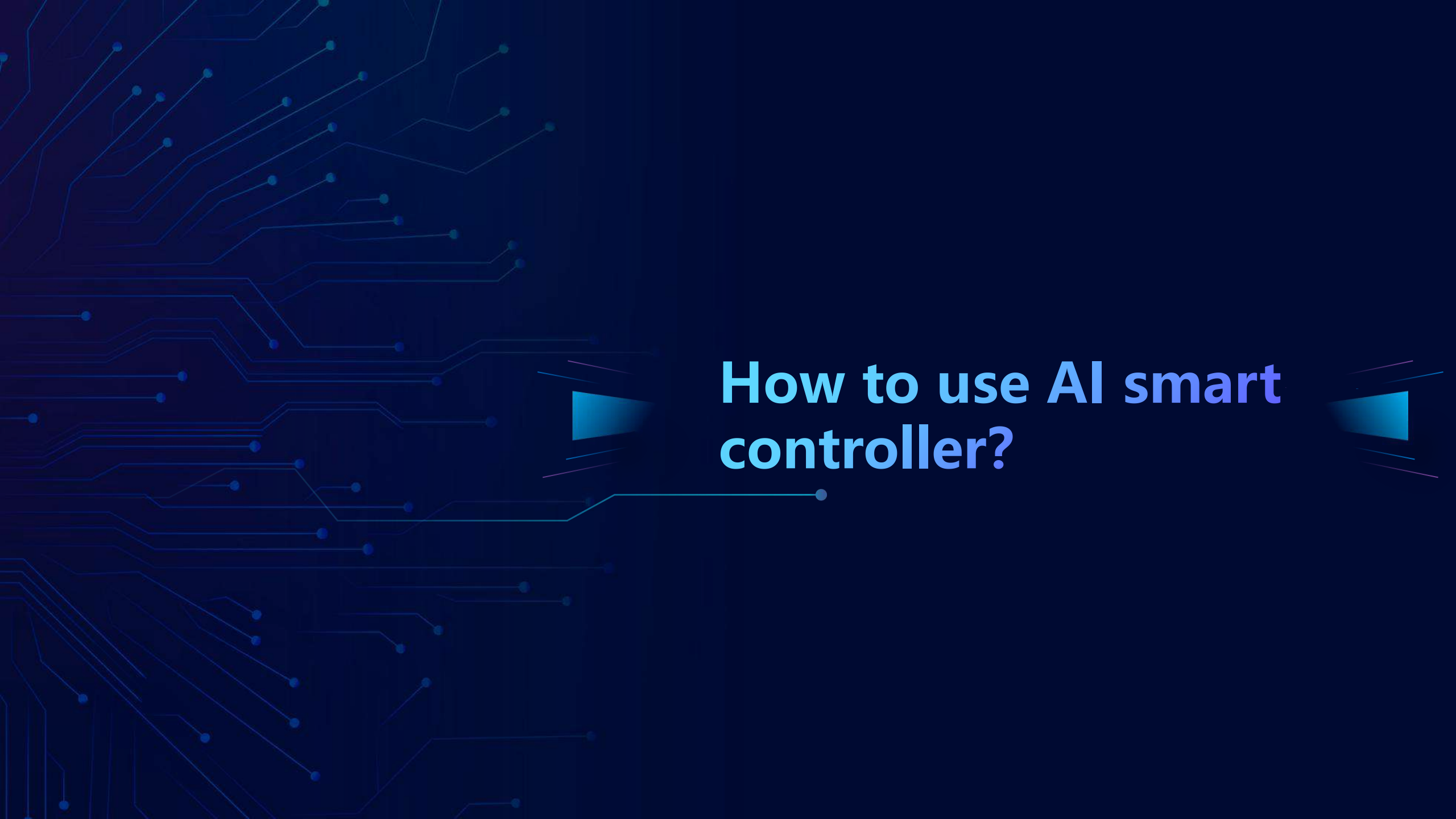
Different people have different feel on temperature

➤ How to solve the problems?

Enhancing the deep learning neural networks in AI smart thermostats and optimizing their strategies can effectively utilize thermal inertia, achieving more precise temperature control.



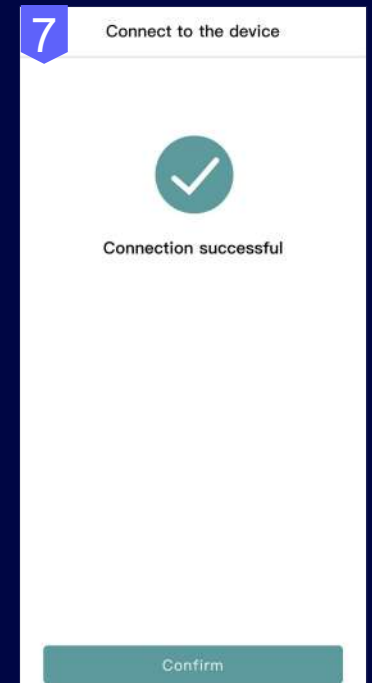
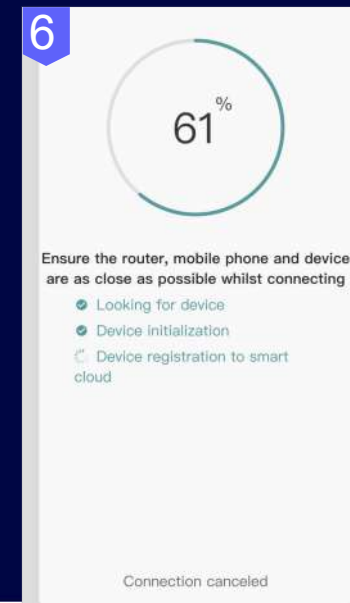
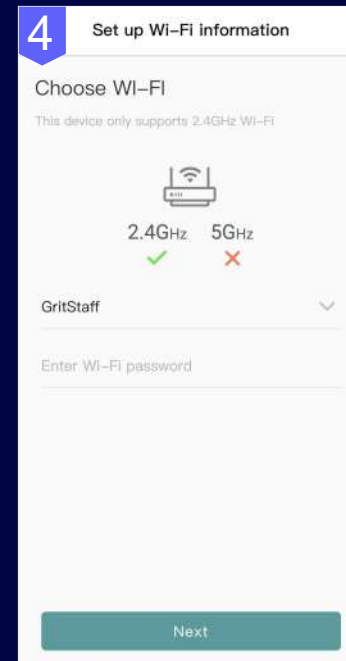
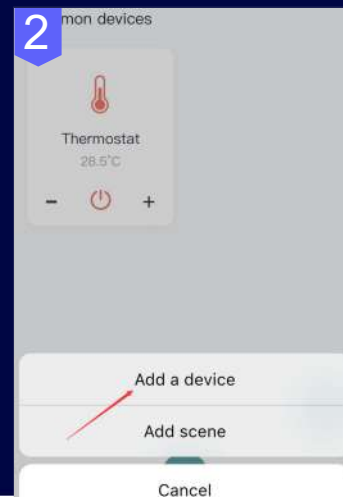
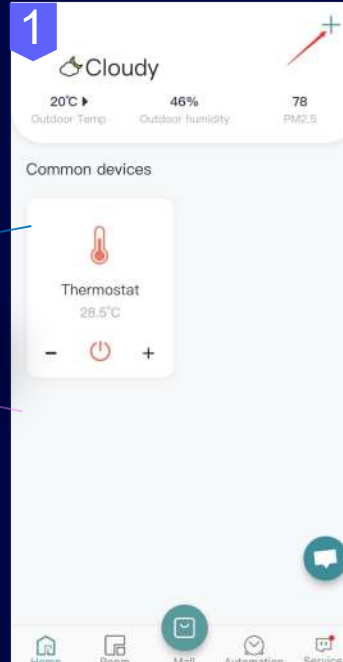
By leveraging the study of thermal inertia, energy consumption can be reduced by at least 10% per month.



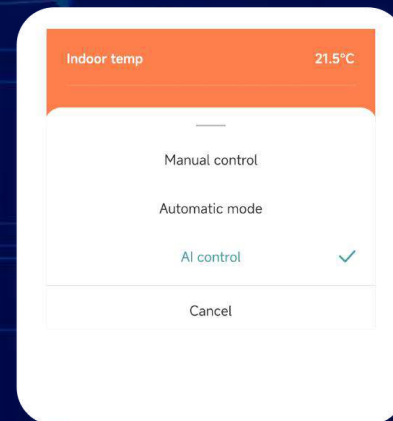
How to use AI smart controller?

Download and connect the app

Users can download the app Zigma from Google Play or App Store. Follow the introduction on the right to connect to the AI thermostat.



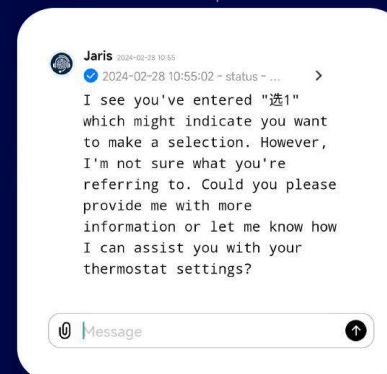
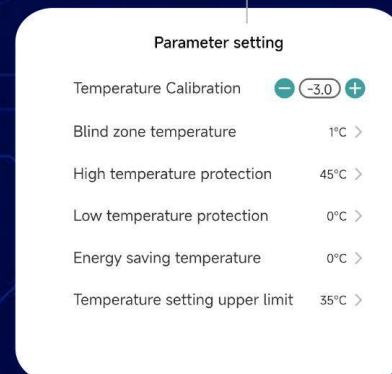
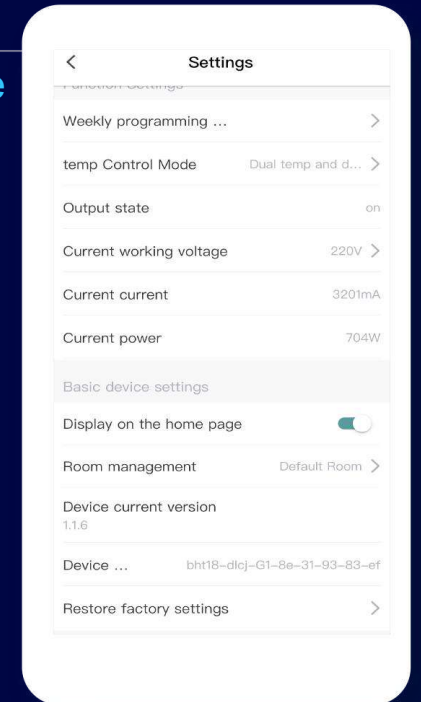
Set parameters and begin learning

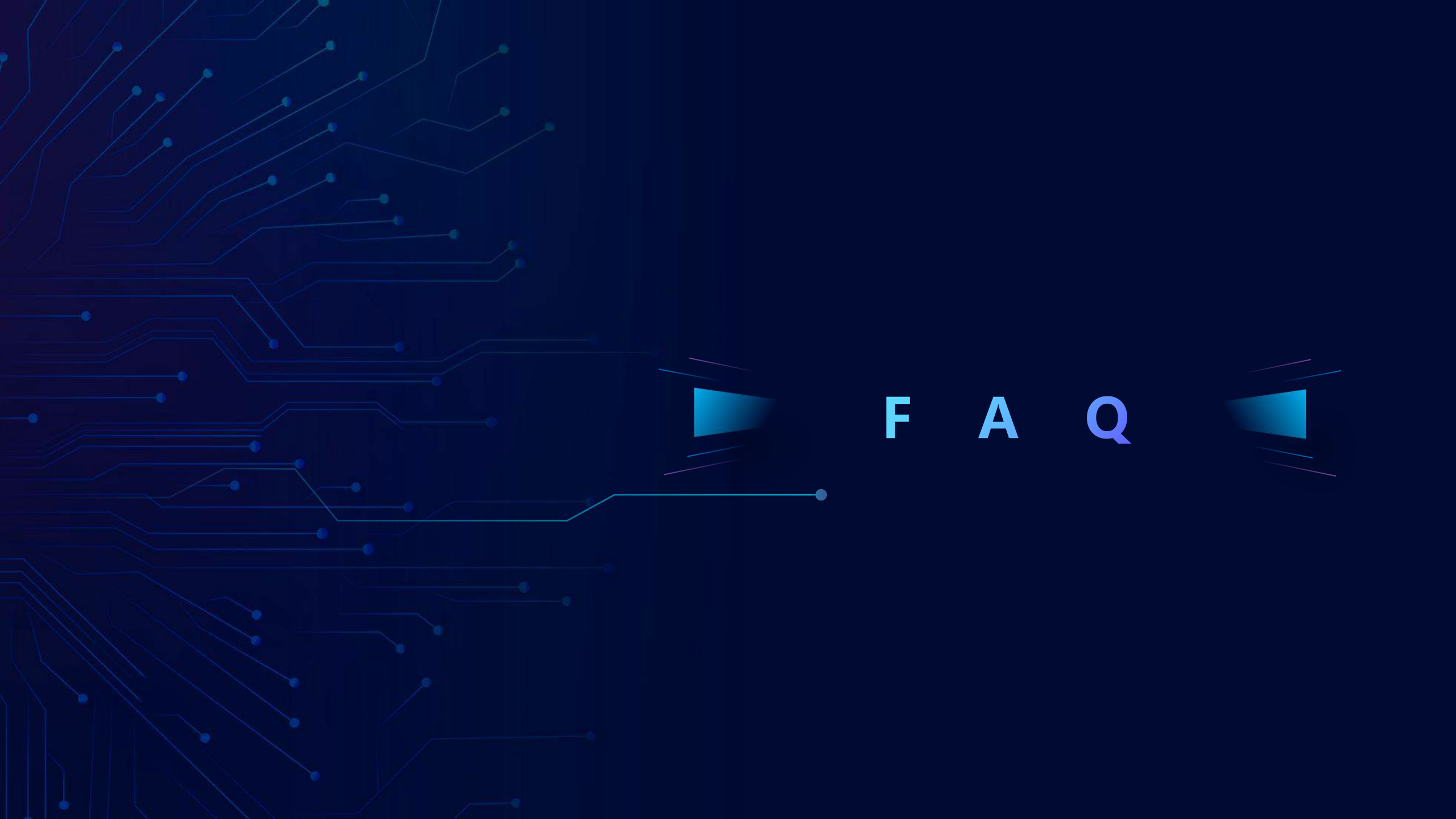


Room temperature

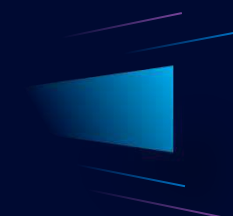


AI temperature
Set temperature





F A Q





AI thermostat vs. conventional thermostat?

AI smart thermostats utilize deep learning neural networks and optimization strategies to effectively manage thermal inertia. Traditional thermostats have large temperature fluctuations, leading to significant energy waste.



AI vs. NEST thermostat?

NEST thermostat learns user habits but delays immediate adjustments, causing inconvenience.



How to download the app?

Search for Zigma on Apple Store or Google Play then install it.



Need ChatGPT or other tools?

No need. Just register your app account.



How long can it work well?

Normally it could finish learning in 2 hours then begins working well.

➤ How to subscribe?

First 3
months

Free

After 3
months

**\$3
/mon**

Subscribe the AI service in the app: \$3/month (\$3/month, \$8/quarter, \$15/half-year, \$30/year). It includes a three-month free trial upon activation. After that time, you should charge.



➤ What is the profit of distributors?

Profit sharing ratio

20% profit of subscription fees could be shared to distributors.

Private domain management

The distributors could check how many AI thermostats they have sold and how many clients have subscribed the AI service.

➤ How many languages can it support?

The APP of AI smart thermostat supports

Chinese/German/English/Danish/
Spanish/French/Greek/
Italian/Japanese/Polish/
Russian/Swedish/Vietnamese

Totally 11 languages.



➤ What is the function of after-sales in app?

The APP comes with an after-sales platform reply.

Through the combination of common after-sales problems mastered by AI robots and human after-sales, after-sales service for users is easier.



AI Robot After-Sales

AI robots can handle the issues of common post-sale quickly. It could also learn from feedback continuously and give solutions better and better.



Human after-sales

If the AI robot could not solve the problems, it will transfer to the channel of human reply.

➤ How to achieve 10% energy saving?



AI Thermostat

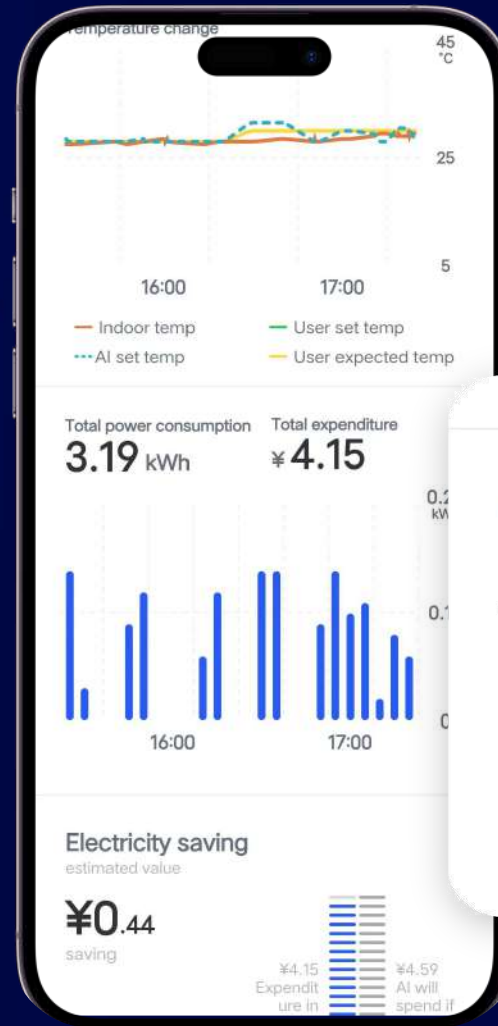


Old thermostat

Two devices were put together and tested for six months in the same environment. The result showed that AI thermostats save at least 10% more energy compared to non-AI models. The most is up to 30%.

➤ What is Money Saving Visualization?

The AI thermostat's app offers clear energy-saving reports which shows savings in both energy and money. The users could see the economic benefits of technology directly.



Electricity saving

estimated value

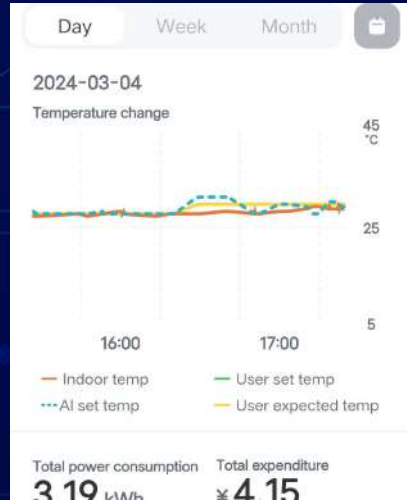
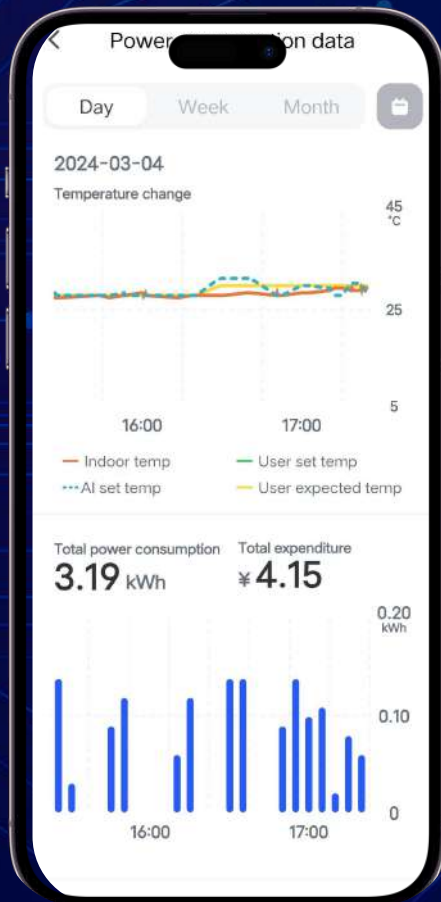
¥0.44

saving

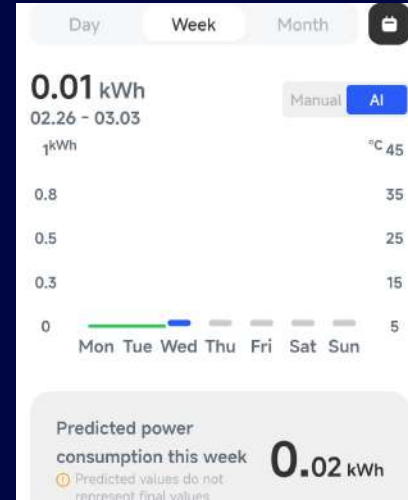
¥4.15 Expenditure in the past day

¥4.59 AI will spend if not enabled

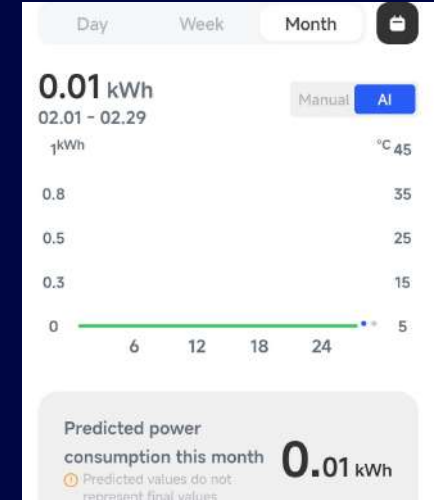
➤ What is the power statistics?



day



Week

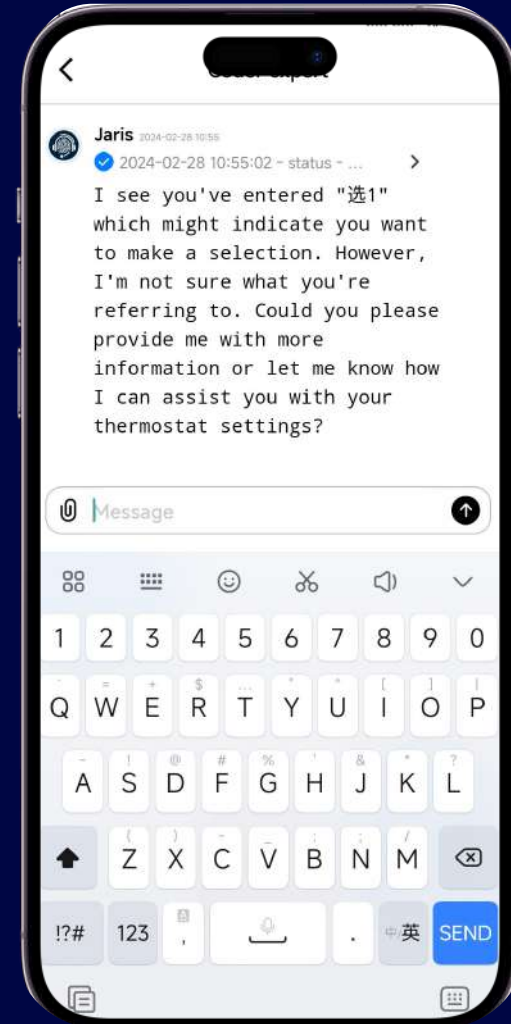


Month

It includes a built-in energy metering chip so it can track electricity consumption daily, weekly, and monthly via the app.

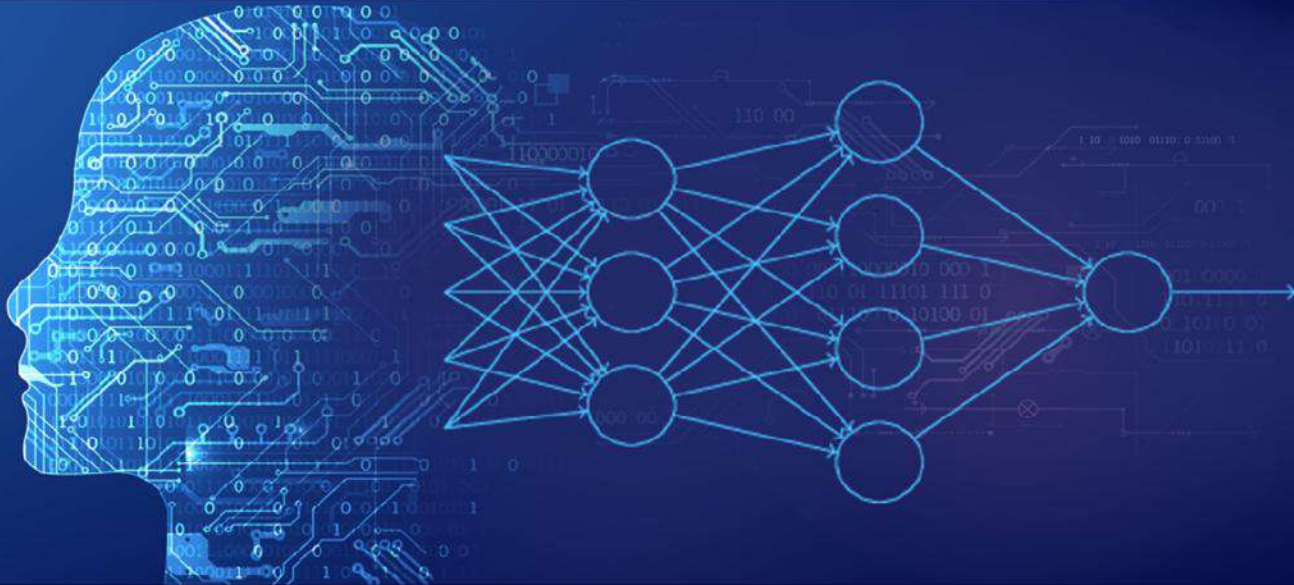
➤ What is Natural Language Programming?

The thermostat integrated with chatgpt supports natural language programming in dozens of languages. It enhances user experience with intuitive temperature control and energy efficiency reports.



➤ What is AI self-learning function?

The smart AI thermostat is more precise than traditional thermostats. It learns and records user preferences to apply AI control automatically based on time and temperature settings.



➤ **Agency recruitment**

Agent Recruitment

Only one agent in every country!

For more details, please contact with our sales specialist.



Building 2-1, Xiamen International Innovation Center, Electronic City, Jimei District, Xiamen City

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THANKS!

Xiamen Beca Energysaving Technology Co.,Ltd