

Survey on “Carbon Neutrality”

Exploring the Path for Chinese Enterprises to

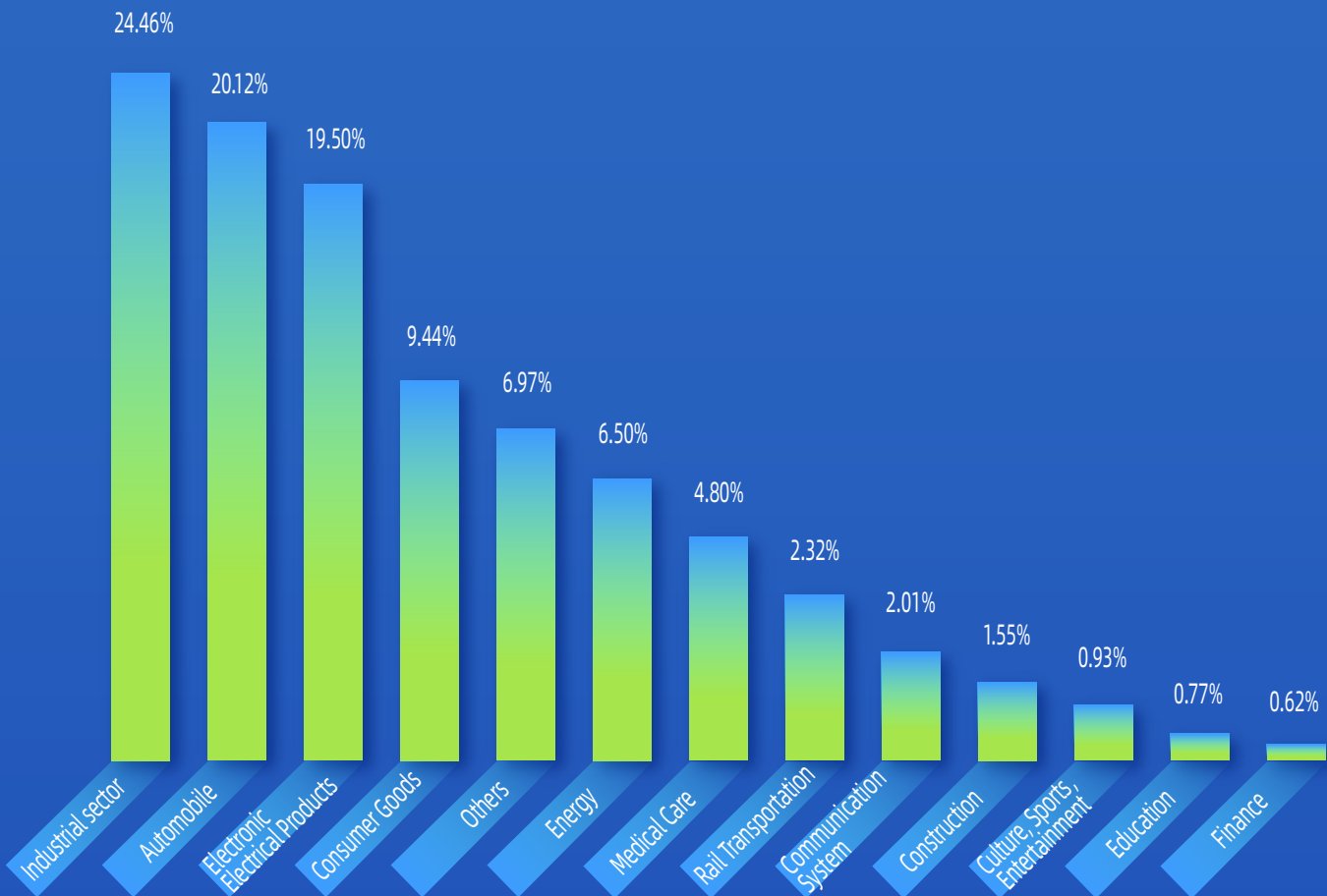
# ACHIEVE CARBON NEUTRALITY

Currently, many countries and enterprises across the world are implementing energy conservation, emission reduction, and low-carbon development, which present both opportunities and challenges. In order to identify the problems and demands faced by enterprises in the process of green and low-carbon transformation and promote the realization of the goals of “carbon peaking and carbon neutrality”, TÜV Rheinland has recently made a survey on the theme of “carbon neutrality”.

# Over 70% of respondents know about corporate greenhouse gas emissions.

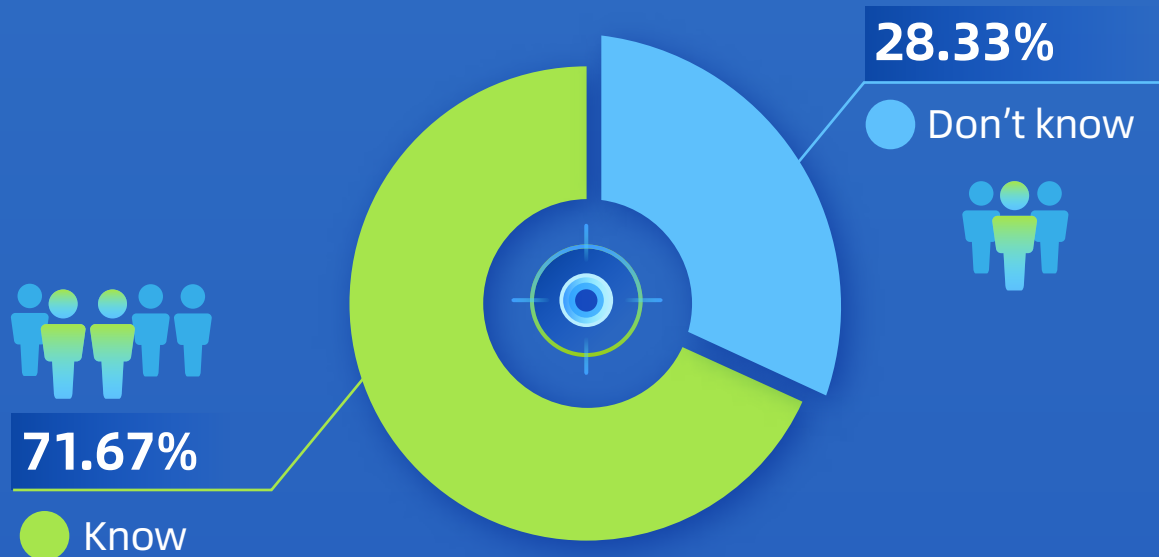
In the survey, the numbers of respondents from various industries are arranged in the following descending order: industrial sector, automobile, electronic and electrical products, as well as consumer goods, energy, medical care, rail transportation, etc.

## Industry Distribution

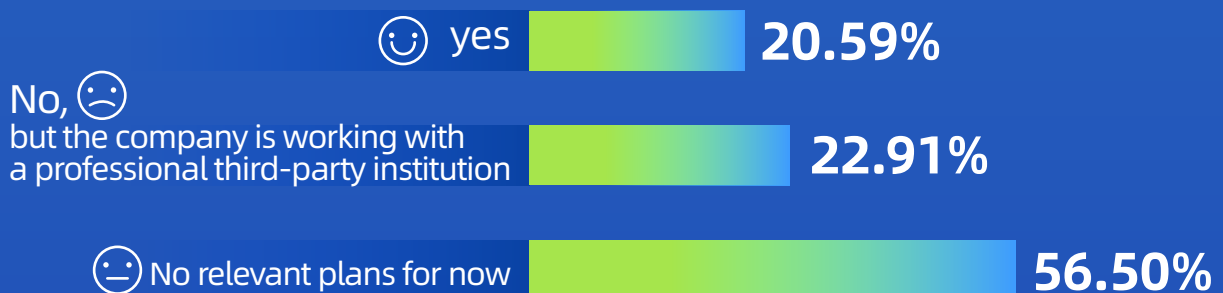


Among them, **72%** of respondents say that they know the sources, scale and nature of corporate greenhouse gas emissions. Meanwhile, nearly **50%** of enterprises have either specially set up a carbon asset management department, or cooperated with professional third-party institutions.

## Do you know the sources, scale and nature of corporate greenhouse gas emissions?



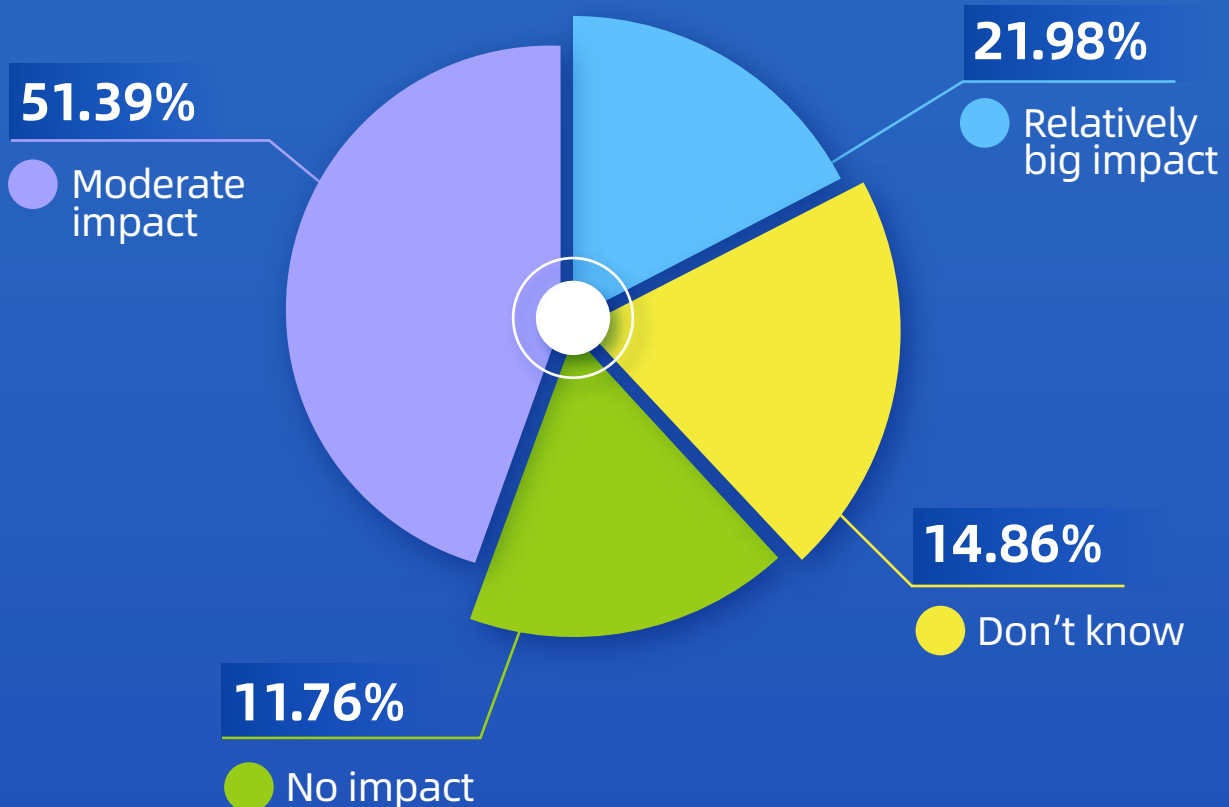
## Has your company specially set up a carbon asset management department?



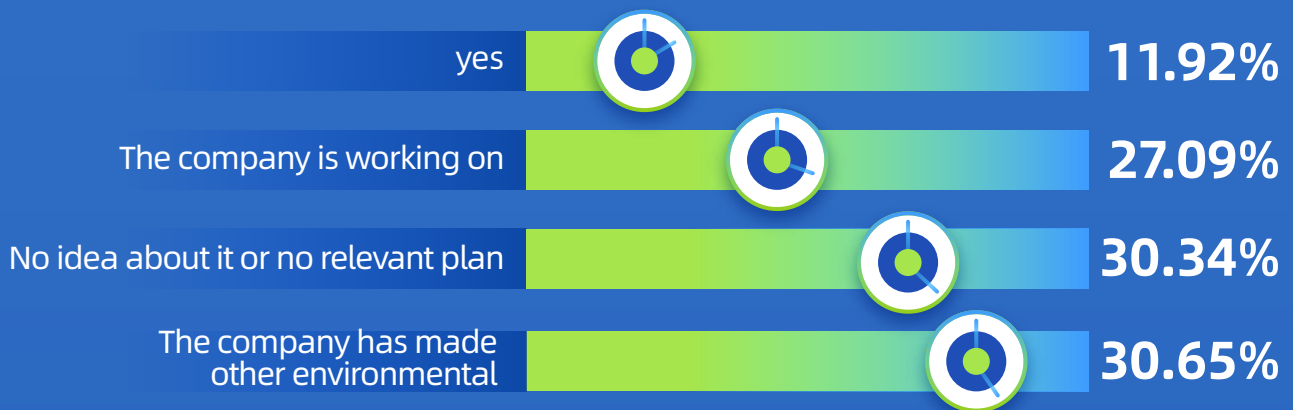
# The road to carbon neutrality is full of challenges and there is a long way to go.

Although **73%** of respondents say that the 2060 carbon neutrality goal has an impact on their business, only **12%** of the surveyed enterprises have made specific decarbonisation/net-zero emission targets and timetables, and **30%** of them know nothing about carbon neutrality or haven't made any relevant plans.

Does the 2060 carbon neutrality goal have an impact on corporate business?

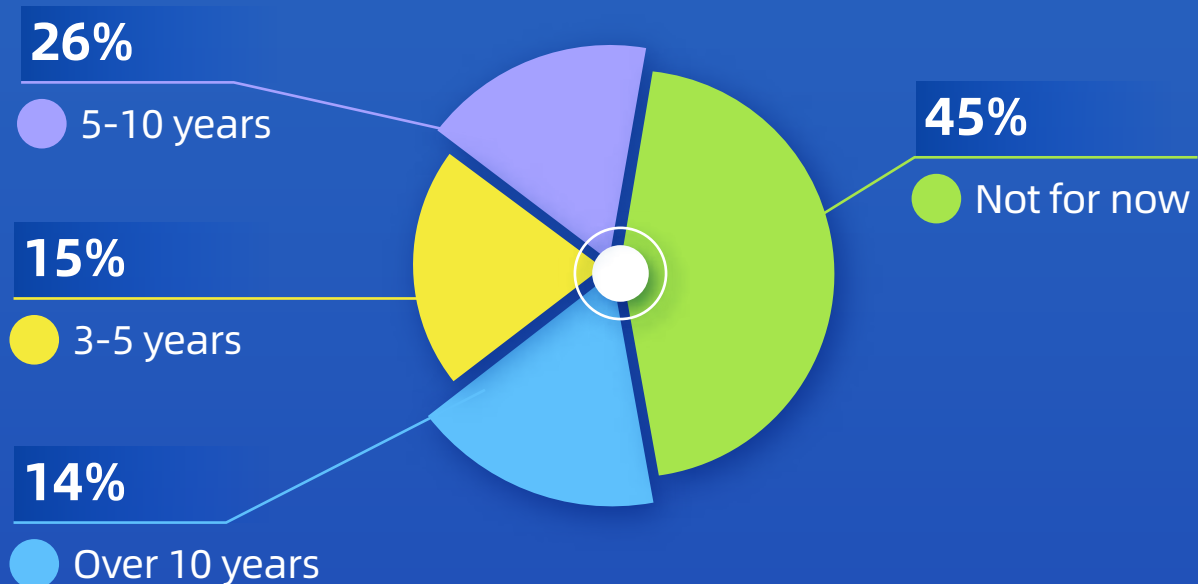


## Has your company made specific decarbonisation/net-zero emission targets and timetables?



At the same time, nearly half of the enterprises haven't determined the time limit for achieving "carbon neutrality", and the proportions of respondents with a time limit of 3-5 years, 5-10 years, and over 10 years are **15%**, **26%** and **14%**, respectively.

## Has your company determined the time limit for achieving "carbon neutrality" ?

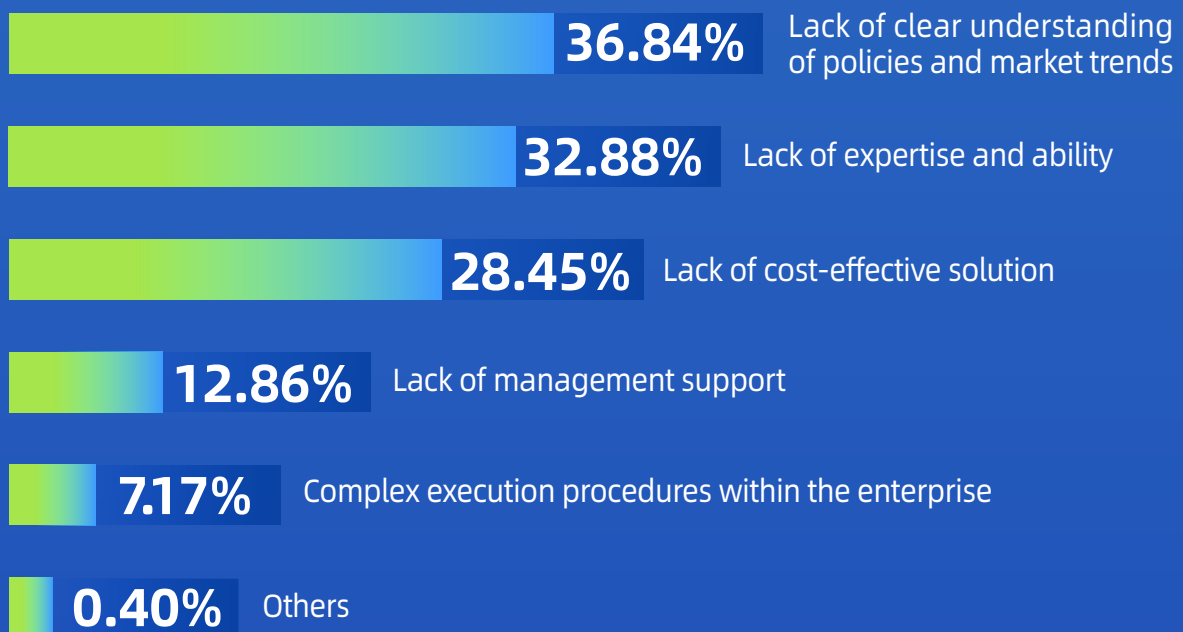




**The reason** behind this may be that enterprises encounter challenges that they find difficult to handle when taking specific measures. The most challenging obstacles include lack of clear understanding of policies and market trends, lack of expertise and ability, and lack of cost-effective solutions. In addition, lack of management support and complex execution procedures within enterprises are also difficulties mentioned by respondents.



## What are the major challenges and demands faces by your company when taking specific measures?



# Seize the opportunity to rise up to challenges, and there is no time to lose for low-carbon measures.

Despite the many challenges in achieving carbon neutrality, enterprises are full of confidence. After the dual-carbons goal have been proposed, **17%** of surveyed enterprises indicate that they aim to become a “pioneer on carbon reduction”, and another **42%** and **32%** say that they will strive to reach the above-average level and average level of the industry.

Which level does your company strive to reach in the industry after the dual-carbons goal have been proposed?



**41.8%**  
Above-average level



**32.35%**  
Average level



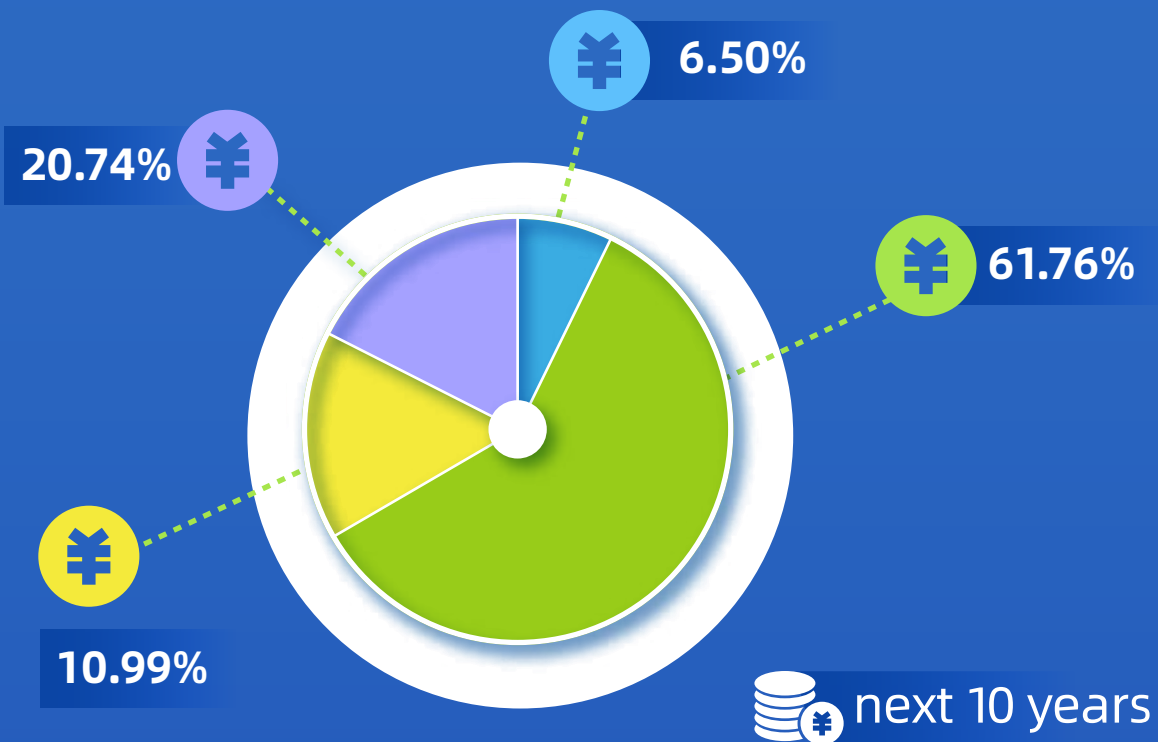
**16.56%**  
Carbon reduction  
pioneer



**9.29%**  
Not participating

At the same time, over 60% of surveyed enterprises say that they are willing to invest **1%-5%** of net profits in the next 10 years to achieve carbon neutrality, 20% say that they are willing to invest **6%-10%** of net profits, and 10% say that they are willing to invest more than **10%** of net profits.

**How much investment is your company willing to make to reach the carbon neutrality goal in the next 10 years?**



- 1%-5% of net profits
- 6%-10% of net profits
- Over 10% of net profits
- others

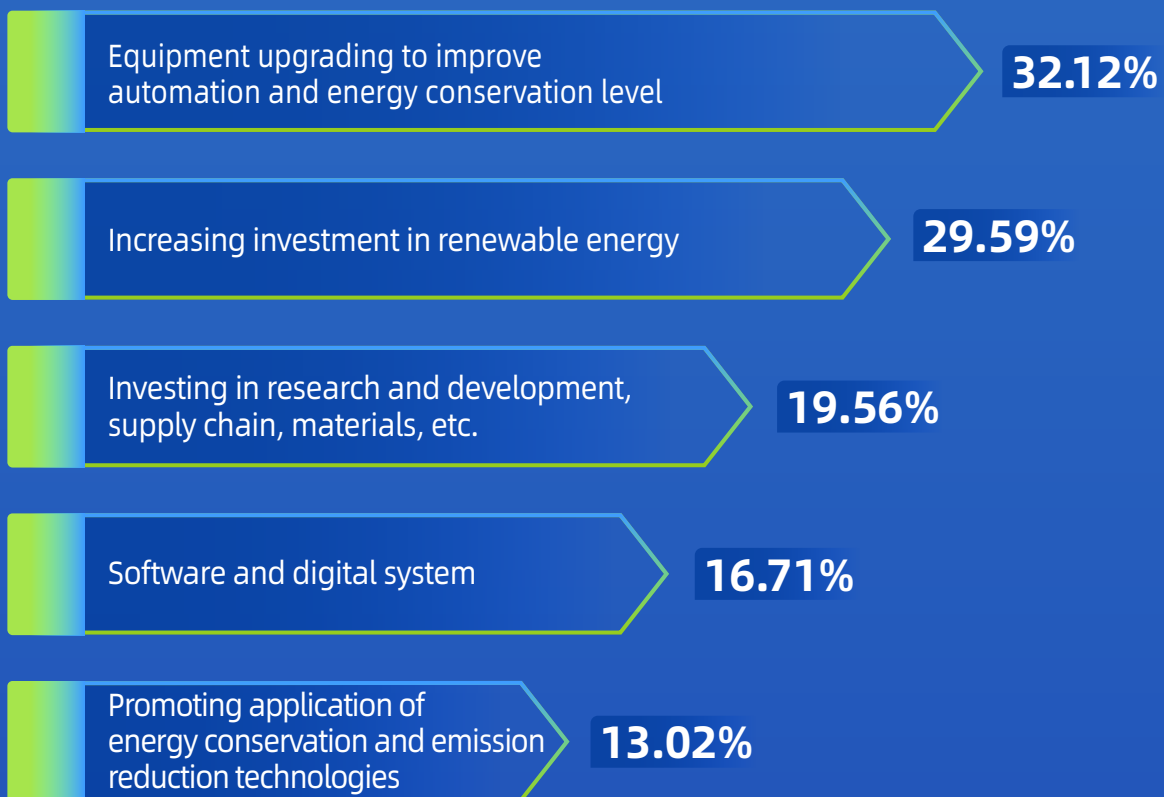




In terms of investment in carbon reduction, the aspects that respondents attach the greatest importance include: equipment upgrading; investment in renewable energy; and investment in research and development, supply chain, materials, etc.



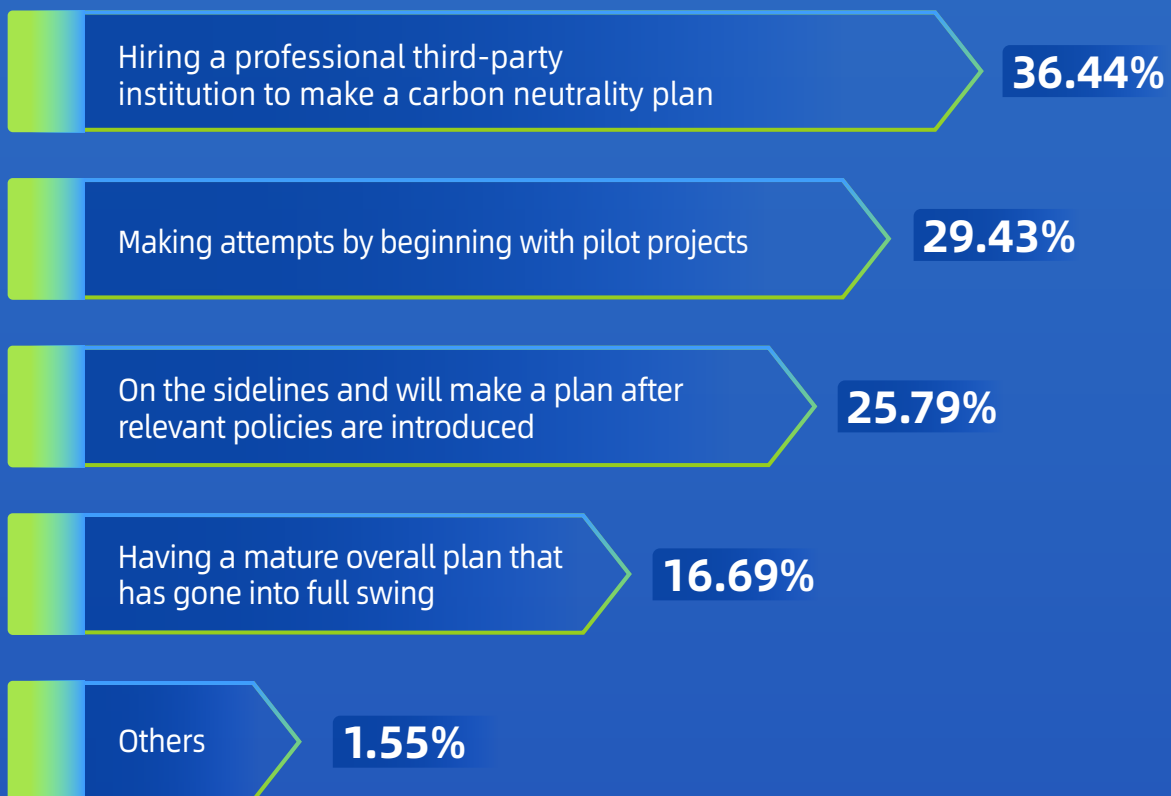
## Which aspects will your company need to invest in to achieve carbon reduction?





As for the low-carbon action plan for energy conservation and emission reduction, **17%** of surveyed enterprises have mature plans that have gone into full swing, **36%** choose to hire a professional third-party organization, and **30%** are gradually trying relevant measures.

## Which methods does your company choose to make a low-carbon action plan?





In terms of methods for carbon reduction, energy conservation, consumption reduction and efficiency improvement are preferred by surveyed enterprises. In addition, energy substitution, saving or replacing raw materials, and making a long-term plan for a sustainable energy management system are also favored methods to reduce carbon emissions.



energy conservation



sustainable



efficiency improvement



Saving or replacing raw materi

## Which method will your company take to achieve carbon reduction?



Energy conservation, consumption reduction and efficiency improvement

**31.75%**



Energy substitution (replacement of coal with natural gas...)

**26.84%**



Saving or replacing raw materials

**25.42%**



Establishing a sustainable energy management system

**17.72%**



Buying carbon offsets (carbon credits)

**10.75%**



Carbon capture, sequestration or utilization

**3.35%**

# TÜV Rheinland listens to voices on the market and provides full support to meet market needs.



Through the survey, **TÜV Rheinland** has learned about enterprises' needs for carbon neutrality in a timely manner, and will actively take constructive measures, including improving carbon neutrality related certification services, and providing more practical technical solutions for enterprises; organizing themed training on carbon neutrality, interpreting carbon reduction goals of various countries, and sharing carbon neutrality cases; providing the latest policy information and solutions according to the characteristics of different industries such as automobiles and medical devices., etc., to better help enterprises implement energy conservation and emission reduction, and achieve the dual-carbon goals smoothly.