6 | DISCOVER SHANXI Friday, September 27, 2024 CHINA DAILY P A 4 17



Information panels of Shanxi's energy industry transformation on display during the Taiyuan forum. PROVIDED TO CHINA DAILY

By YUAN SHENGGAO

hanxi's transformation in the energy industry is conducive to fostering new quality productive forces, agreed delegates attending a highprofile international energy forum earlier this month.

The 2024 China (Taiyuan) Energy Low Carbon Development Forum was held on Sept 10-11 in Taiyuan, the capital city of the North China province of Shanxi.

Delegates from 30 countries and regions, as well as international organizations, attended the two-day event, sharing insights into new strategies and paths for energy industry transformation, and discussing cooperative opportunities.

Participants also offered innovative ideas and solutions for global green and low-carbon energy development, and witnessed the fruitful results of Shanxi energy industrial transformation.

The opening ceremony was held at Taiyuan's Xiaohe International Convention and Exhibition Center on Sept 10. It was attended by diplomats stationed in China, government officials and representatives from Shanxi's sister provinces and states. Also in attendance were international organization delegates, national and regional government representatives, provincial leaders, academicians, and experts and leaders from key energy enterprises and trade associations.

Liu Zhenmin, China's special envoy for climate change, delivered a keynote speech at the opening ceremony. Liu said, as a Shanxi native, he is emotionally attached to the province and is keeping a close eye on its development.

He said he is glad to see that Shanxi has made positive progress in its comprehensive reform of the energy industry. "Shanxi is piloting in developing a new type of energy industry, contributing to China's dual-carbon goals, while ensuring energy supply to the nation."

China has proposed to reach peak carbon emissions before 2030 and carbon neutrality before 2060. This ambition is widely known as the dual-carbon goals

Liu added that Shanxi, a traditional coal-mining province, should use its energy industry transformation to cultivate new quality produc-"The province should use this

transformation to create new industries and seek new development opportunities, contributing to China's modernization," Liu said. The International Renewable Energy Agency, an intergovernmen-

tal organization supporting countries in their transition to a sustainable energy future, has attended sessions of the Taiyuan Energy Low Carbon Development Francesco La Camera director-

general of IRENA, delivered a emony. He highlighted the imporan energy industry transformation oping a new source of energy. toward the directions of greener

broadening, supporting an energy industry transformation

Ouyang Minggao, academician at the Chinese Academy of Sciences, is a reputed expert in China's new energy vehicle power system research. At the Taiyuan forum, he praised Shanxi's practice in energy industry transformation and expressed his willingness to cooperate with local scientists and entrepreneurs to take part in Shanxi's energy revolution campaign.

Mexico is the guest country of honor at this year's forum. Jesus Seade, Mexican ambassador to China, delivered a keynote speech, providing insights into energy-related issues between Mexico and China, as well as the international arena.

This year's forum featured three major international conferences: the Mexico Honored Guest Country Forum, the Europe-China Workshop on Clean Energy Transition and the 14th Global Top 500 New Energy Enterprises Forum.

During the Mexico Honored

Guest Country Forum, national representatives discussed topics on accelerating cooperation in energy transformation with Shanxi's repre-

The 2024 China (Taiyuan) International Energy Industry Expo opened on Sept 10 alongside the forum. Over the course of three days, more than 300 leading energy companies from around the world showcased their latest products, technologies, achievements and applications

A noteworthy exhibition was held by Shanxi's energy industrial giant Jinneng Holding Group. Its exhibits covered such areas as smart mines green mining operations and industrial diversification, the simultane ous extraction of coal and coal-bed methane, as well as its latest achieve ments in the fields of photovoltaics and intelligent energy storage.

Jinneng Holding, based in Jinzhong, is one of the pioneers in Shanxi's energy industry transformation, which features upgrading of the traditional coal-mining indus $try\ and\ fostering\ emerging\ sectors.$ Leveraging the National Laborato

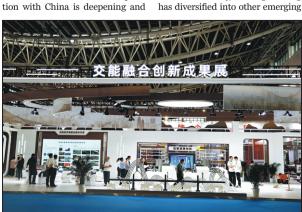
ry on Coal and Coal-Bed Methane Simultaneous Extraction, which is a research institute jointly founded by Jinneng Holding Group, China University of Mining and Technology and other research institutions, Jinneng has become one of the country's pioneers in the simultaneous extracion of coal and coal-bed methane

Coal-bed methane used to be the No 1 threat to coal mine safety, but it's now turned into a safe source of energy in large volume thanks to new technological achievements made by Jinneng and the lab.

Jinneng began to make major breakthroughs in its demonstration in Qinshui county in early 2021.

Jinneng's executives said that gas can effectively solve the problen tance of cross-disciplinary and of profuse coal-bed methane in cross-industry cooperation to push mines, increasing safety and devel-In addition to upgrading coal

mines and developing the coal-bed He stressed that IRENA's cooperamethane industry, Jinneng Holding





Power industry titans discuss future strategies



X/AXX AVA TINOXIX AV

Taiyuan Energy Low Carbon Development Forum attracts delegates worldwide

Shanxi is piloting in developing a new type of energy industry, contributing to China's dual-carbon goals, while ensuring energy supply to the nation. The province should use this transformation to create new industries and seek new development opportunities, contributing to China's modernization." Liu Zhenmin, China's special envoy for climate change

Electric cars produced by Tesla (left) and a hydrogen-fueled truck made by Shanxibased Meijin (right) are exhibited during the energy industry expo.

PHOTOS PROVIDED TO CHINA DAILY







between Shanxi's enterprises, insti

and across the world.

green agriculture.

tutions and their partners in China

As a special event of the 2024 Tai-

yuan forum, the China (Shanxi)

Green Industry Investment and

Exchange Conference saw the partic-

During the event, agreements on

ipation of more than 300 attendees

23 key cooperation projects were

signed on-site, with a total invest-

ment of 19.47 billion yuan (\$2.76 bil-

lion). These projects cover various

green and low-carbon industries

including new energy, high-end

equipment manufacturing, interna-

tional logistics, coal chemistry and

On Sept 11, the Shanxi Provincial

Geological Prospecting Bureau

signed an agreement for strategic

cooperation with the geological

prospecting administrations of Bra-

zil and Cuba, as well as the China University of Geosciences Wuhan.

The agreement aims to forge a

partnership for domestic and inter-

national geoscience research, min-

eral resources prospecting and low-

carbon energy development, as well

University of Geosciences Beijing

said his school is willing to cooper-

ate with enterprises and institutions

in Shanxi in the development of geo-

Sun said geothermal energy is a

kind of renewable resource, featur-

China University of Geosciences Bei-

jing hopes to collaborate with

Shanxi's partners in research, profes-

The Taiyuan forum has created

various platforms for international and domestic collaborations, like

promotional events for countries

promotions for industries, invest-

ment conferences and on-site con-

China National Coal Group is one

of the nation's leading coal-mining

companies under the supervision of

Wang Shudong, the company's

the State-owned Assets Supervision

board chairman, attended the Tai-

yuan forum. He said his company will continue to enhance its pres-

ence in Shanxi's green coal mining.

natural gas, power transmission

coal-based chemicals and coal-relat-

China National Coal Group is

operating a modern coal-based

chemicals demonstration base in the Shanxi city of Shuozhou, and will

expand its presence in other sectors

Yu Feng, president of Honeywell

China, said his company hopes to

collaborate with Shanxi, assisting its

According to Yu, Honeywell has

been growing with China for many

years and has a strong presence in

the country's green energy industry.

Yu said Honeywell believes energy

"We are expecting more coopera-

industry transformation is one of key paths for global sustainable growth,

energy industrial transformation.

in the future, according to Wang.

ed technological innovation.

and Administration Commission.

sultations offered by experts.

sional training and public services.

ing large reserves, high utilization efficiency and low emissions. He said

thermal energy.

Sun Youhong, president of China

as the training of professionals.

sectors, with its latest development One exhibit of the company that

garnered great attention from industry insiders was the TOPCon high-efficiency heterojunction solar cells developed by its subsidiary Jinneng ${\it Clean Energy Technology}, or {\it Jinergy}.$ According to company executives, the high-tech solar cell has a photoelectric conversion efficiency of more

than 25.5 percent, one of the highest rates in the industry worldwide. As the first domestic mass produc tion facility of heterojunction cells.

Jinergy has sold products to more than 50 countries and regions. Another heavyweight local ener-

gy company that showcased its results in industrial diversification was Changzhi-based Lu'an Chemical Group. On display were its comfrom high-end chemical equipment manufacturing, coal liquefaction and smart coal mining to new chemicals like carbon-based materials, chemicals and lubricants.

Huayang Group, another coalmining giant based in Yangquan, is a successful player in the province's energy industry transformation. Its exhibits at the expo included an array of products such as a sodiumion battery, polycrystalline diamond film, degradable plastic bags, nanometer fiber filtering sheets and aerogel insulation materials.

The company's sodium-ion battery was a star exhibit at the expo because of its strong performance in

The batteries are developed by Huayang's branch company Huana Kinneng. The products are regarded as a substitute of lithium-ion batteries which overcome their limits in large-scale energy storage.

Compared with lithium-ion batteries, sodium-ion batteries feature petter safety performance, better adapt to temperature changes and have a longer life cycle, according to ompany executives.

Huana Xinneng began to develop sodium-ion batteries in 2021. It realized volume production of cylindrical cells and battery packs in 2023 and began mass production of square cells in April this year. Square cells are the upgraded version from cylindrical cells, featuring a larger capacity in energy storage.

At the expo, Shanxi Coking Coal Group, another heavyweight player n Shanxi's energy industry, displayed its achievements in industrial transformation through exhibits. videos, photos and multimedia.

While showing its solutions related to coal mining, like smart coalcutting systems, equipment for clean coking and other mining machines, the company exhibited a wide range of products of its emergng sectors, like wind power tur bines made from carbon-fiber composite materials and concretespraying machines

At the expo, there was a special zone dedicated to new launches. Ten of the country debuted their prod- and this is the conser ucts, solutions, technologies and company shares with Shanxi.

Fruitful cooperation

The Taiyuan Energy Low Carbon Development Forum has served as a platform to enhance cooperation

tion moves, contributing to Shanxi's energy industry transformation," Yu

Zhang Yi contributed to this story



From left: Shanxi's transport sector, which features the wide use of new energy resources, is on display. The Shanxi exhibit their products and services at the expo. Coal-mining machines — both real and scale models — are on display. Taiyuan showca: PHOTOS PROVIDED TO CHINA DAILY