# National Agenda with Climate and Environmental Policy Direction for Sustainable Future

Mehr Wert. Mehr Vertrauen. Add value.

**Inspire trust.** 

Perspective of German companies on the energy policy of the new Korean Government

September 20<sup>th</sup>, 2022 **TÜV SÜD Korea Ltd.** Dr. Helge Knobbe

Organized by:









# TÜV SÜD at a glance

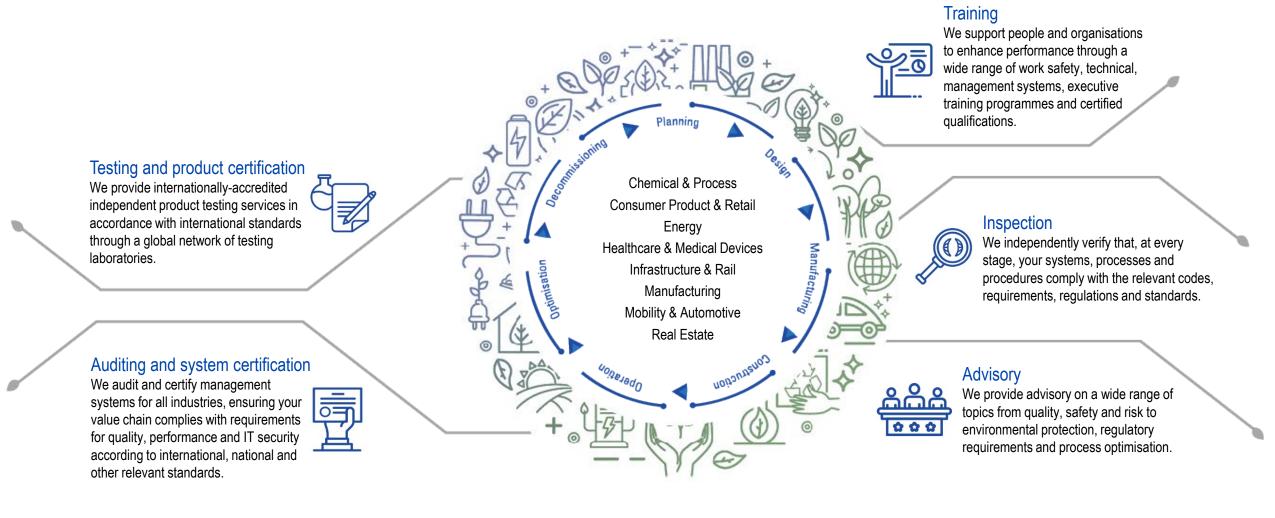
By choosing TÜV SÜD, a dedicated team of global experts is committed to help you manage risks and access global markets through a comprehensive portfolio of technical solutions.

- Our logo is universally respected as an independent and impartial symbol of safety, security and sustainability.
- TÜV SÜD certification marks and certificates represent third-party endorsement by a globally renowned organisation, while our personnel certificates provide our customers with greater market opportunities.





## Adding value across the business lifecycle





## Our legacy: 150+ years of business success

1938

1951

1989

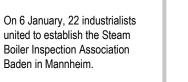
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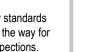
The first boiler safety standards 1881 were agreed, paving the way for uniform technical inspections.



Our first vehicle periodic technical

1921

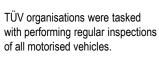




inspection was conducted.

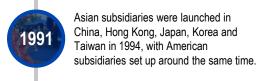
Environmental advocacy began with our publication of a report addressing dust pollution.

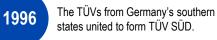
The launch of a standardised nationwide system created 14 regional inspection associations named TÜV. There were 17 TÜVs by 1941.



Expansion beyond Europe began with a cable car accident investigation in Cape Town, South Africa.

TÜV Product Service GmbH was launched, pioneering the concept of worldwide approvals.



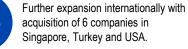


Acquisition of Singapore's PSB Group

as a regional hub in the ASEAN region. Launch of TÜVTÜRK in the following vear.

2014

2006



Celebration of 150th anniversary along with the acquisition of ATISAE in Spain 2016 and launch of two Digital Service Centres of Excellence in Germany and Singapore.



Launch of digital academy in India and Singapore and new labs in Canada, USA, India and Vietnam. In the same year, the corporate claim was changed to "Add value. Inspire trust."



2020

2022

Inauguration of a testing lab for electric vehicle batteries in China, and a new centre of excellence for subsea pipelines in Scotland.

Inauguration of a new battery testing lab in China and a new testing facility for product, material and component testing in Italy.

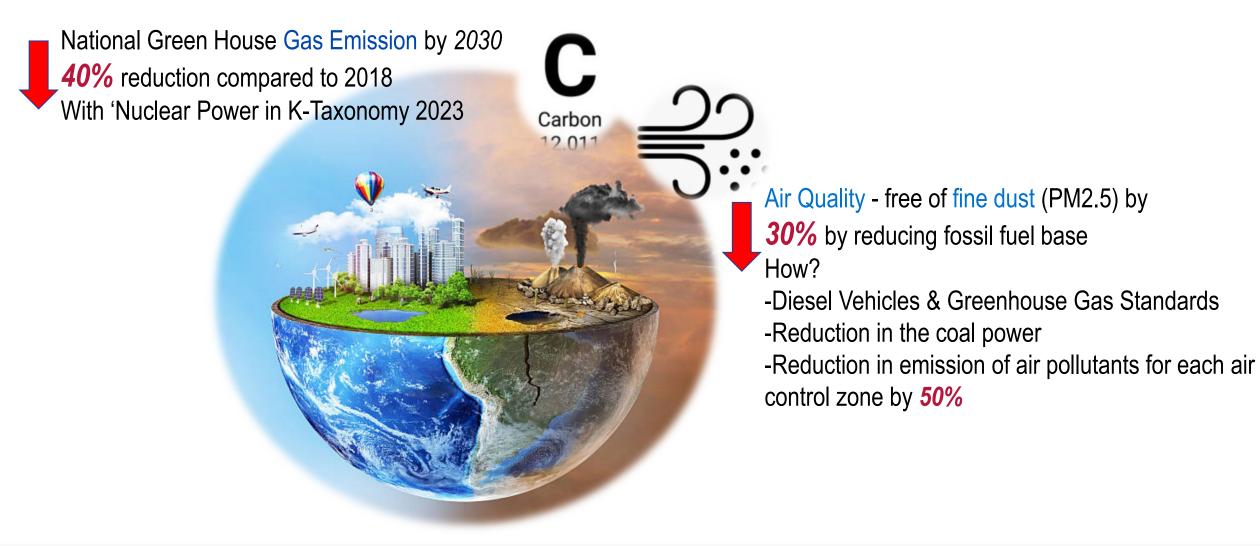
Investment in a new electric vehicle battery lab in China and a hydrogen lab in Germany. Launch of a S\$100 2021 million regional hub in Singapore, the first significant real

estate investment outside Germany. TÜV SÜD actively pursues a strategy of digitalisation and sustainability. The Group is committed to driving

sustainability with innovations.

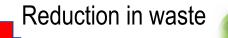


## Green Economy Policy – Carbon Neutrality & Air Quality



# Circular Economy & New 5 Green Industries

New Green Industry: Circular Economy System with 'Act on Promoting Circular Economic Society'



### **Implementation Plan**

- (i) Mandatory use of high-quality **renewable** plastic materials
- (ii) Recycling of waste plastics, which are difficult to be recycled, as petroleum/chemical raw materials or hydrogen fuels via thermal decomposition

### **New Five Major Green Industries**

e.g., Climate tech

**Environment IoT** 

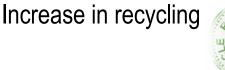
Biogas

### **Chemical Substance Management System**

- (i) Enhance the public safety
- (ii) Reduce corporate burdens 🖊
- (iii) Control on hazardous substances in characteristics and volume Public Health
- (iv) Expansion of the environmental health services for the public

### Leading to Regulatory Changes in ESG







## **Press: Mayor Energy-related topics**

Korea Joong Ang Daily August 30, 2022

Korea's Yoon backtracks on renewables and ups nuclear in energy mix



Power supply monitoring room at Kepco's office in Secul in August. [PONHAF]

Renewable energy in Korea's energy mix will be reduced while nuclear will be increased under the first energy plan of the Yoon Suk-yeol administration. This is a reversal from the policy of the Moon Jae-in government.

Yoon's renewable goal will be 21.5 percent of the total, down from Moon's 30-percent target. The president will take nuclear to 32.8 percent from the previous government target of 23.9 percent.

#### Yonhap News February 21, 2022 All News 108:00 September 09, 2022

Yoon vows to scrap nuclear phase-out policy



Yonhap News September 09, 2022

KEPCO units plan to slash investment in renewable energy

p) — Six artiliates of the state-run Korea Electric Power Corp. (KEPCO) plan n in renewable energy over the next five years as they are under pressure to ng financial health, according to a report on Friday-

uding Korea Energy and Korea East-West Power, will slash their investment wby a combined 2.1 trillion won (US\$1.5 billion) until 2026, the report showed. compiled by the office of Rep. Kim Yong-min of the main opposition Democratic

m. Kim criticized the KEPCO arriliates for running counter to the global trend of investment in renewable energy-

og renewable energy is essential for our companies' national competitiveness and Kim said, calling for the KEPCO units to expand their investment in renewable energ ) and its attiliates chalked up widening losses due to soaring energy costs.

m Korea plans to expand its generation of nuclear power to nearly 33 percent of its f mergy creation by 2030 in a move to boost energy security and to better meet net-zerr atticials said

Under the plan, renewable energy will take up 21.5 percent of the country's total ele generation by 2030, with the figure for coal standing at 21.2 percent and liquefied 20.9 percent.



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#### The Korea Times May 10, 2022

Korea to accelerate transition to hydrogen economy under Yoon  $\Lambda^{*}$ By Park Jae-hyuk The newly launched Yoon Suk-yeol administration is expected to speed up its efforts for Korea's remaining to a hurdonean another. Hanafiting relations communics such as Donate Donate Donate and and and and the The newly launched Yoon Suk-yeol administration is expected to speed up its efforts for Koraa's transition to a hydrogen economy, benefiting relevant companies such as Doosan Fuel Cell and Hyosune Advanced Asterials, according to markee analysis meador. The hydrogen economy - which, if based on green hydrogen, is regarded as a path to achieving eachern neutralise - refere to an economic star relies on hydrogen as a commensation feel The syntrogen economy — wanch, it based on green syntrogen, is referred as a part to acc as bon neutrality — refers to an economy that relies on hydrogen as a commercial fuel. When the presidential transition committee announced 110 national tasks last Tuesday, if toward to stabilize the production and supply of "ersen" and "Table" hydrneen — which refer to hydrosen When the presidential transition committee announced 110 national taxis last Theoday, if toward to stabilize the production and supply of "green" and "bile" hydrogen -- which refer to hydrogen senerated by researching energy and hydrogen national gree researching - for theorem. to stabilize the production and supply of "green" and "blue" hydrogen – which reser to hydrogen generated by renewable energy and hydrogen produced from natural gas, respectively – for korea to havone a schaol lassfer in the hydrogen industry. "With the expanded use of various energy sources, such as renewable energies and hydrogen, we will anhance the call methiciance of anarow and reasts more inter "the transition team cald With the expanded use or various energy sources, such as renewable energies and hydrogen will enhance the self-sufficiency of energy and create more jobs," the transition team said. Eugene Investment & Securities analyst Han Byung-hwa expected the nation's overall hydrogen industry to avalerate its growth, considering that the new Cabinet members have a solid Eugene Interstment & Gecurities analyst Han Byung-hwa expected the nation's overall hydro industry to accelerate its growth, considering that the new Cabinet members have a solid understanding of the relevant hydronexes "The transition team also announced its plan to support hydrogen vehicles, " the analyst said. After a revision to the Hydrogen Economy Promotion and Hydrogen Safety Management Act Nat naread hereba Marines Lessonshive Trada Industry: Franze, CARE and Continue Committee on After a revision to the Hydrogen Economy Promotion and Hydrogen Satety Management Act was passed by the National Astembly's Trade, Industry, Energy, SMES, and Startups Committee on New a measurintic about the nation's budrows industry base been reduced further. passee by the avalance sevences a status of status status of status and a status of the status of th The revised bill is intended to offer financial support to the hydrogen industry and to obligate eleveric active communies to use grasm and hime burdengen. Domestic companies have been urging lawmakers to pass the revised bill, so that they can make investments moder spacific emidations

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