



SECRETARIAT OF THE CONFERENCE ON INTERACTION
AND CONFIDENCE BUILDING MEASURES IN ASIA

СЕКРЕТАРИАТ СОВЕЩАНИЯ ПО ВЗАИМОДЕЙСТВИЮ
И МЕРАМ ДОВЕРИЯ В АЗИИ

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Секретариат Совещания по взаимодействию и мерам доверия в Азии (СВМДА) свидетельствует свое уважение государствам-членам СВМДА и имеет честь препроводить прилагаемую концепцию и информацию о Встрече экспертов на тему **«Сотрудничество в области водородной энергетики»**, которая будет проводиться Республикой Корея в качестве координатора мер доверия в области энергетической безопасности.

*Приложение:
упомянутое,
на 4 л.*

Секретариат пользуется случаем, чтобы возобновить государствам-членам СВМДА уверения в своем весьма высоком уважении.

город Нур-Султан, 14 мая 2021 г.



**ГОСУДАРСТВА-ЧЛЕНЫ
СОВЕЩАНИЯ ПО ВЗАИМОДЕЙСТВИЮ И
МЕРАМ ДОВЕРИЯ В АЗИИ**

Қосымша:
аталған 4 п.

Азиядағы өзара іс-қимыл және сенім шаралары кеңесінің (АӨСШК) Хатшылығы АӨСШК мүше мемлекеттеріне өзінің зор ілтипатын білдіре отырып, Корея Республикасы энергетикалық қауіпсіздік саласындағы сенім шараларының үйлестірушісі ретінде өткізетін **«Сутекті энергетикасы саласындағы ынтымақтастық»** жөніндегі Сарапшылар отырысы туралы қоса берілген тұжырымдаманы және ақпаратты жіберуді өзіне мәртебе санайды.

Хатшылық осы мүмкіндікті пайдалана отырып, АӨСШК мүше мемлекеттеріне өзінің зор ілтипатын тағы да растайды.

Нұр-Сұлтан қаласы, 2021 жылғы 14 мамыр

**АЗИЯДАҒЫ ӨЗАРА ІС-ҚИМЫЛ ЖӘНЕ
СЕНІМ ШАРАЛАРЫ КЕҢЕСІНІҢ МҮШЕ
МЕМЛЕКЕТТЕРІ**

**Concept Paper on the implementation of the CICA Confidence
Building Measures in the area of Energy Security**

**- Expert Meeting on Cooperation
in the area of Hydrogen Energy -**

I. Background

The aim of this Concept Paper is to facilitate confidence building among CICA member states through cooperation and interaction within the Energy Security sector in accordance with the Catalogue of the CICA CBMs adopted in October 2004 and the Cooperative Approach for Implementation of the CICA CBMs adopted in March 2007.

COVID-19 has been playing a game-changing role in increasing the demand for clean energy and accelerating the global transition to it. The new era of renewable energy, in particular solar and wind, has the potential to relieve the lingering concerns of Asian economies over the security of energy supply, especially regarding their reliance on oil and natural gas imports.

However, the intermittency of such renewable sources poses substantial challenges to the existing energy infrastructure, especially the power grid. As an alternative, hydrogen is gaining attention as it not only has unlimited storage potential but is regarded as a zero-emissions energy source.

Time is ripe for CICA member states to start giving more attention to hydrogen. We can conduct comprehensive analyses of the hydrogen supply chain in the context of the Asian market with a specific focus on the potential of hydrogen, by examining each country's energy mix, forecasted hydrogen demand and scale of production, and trading of hydrogen for energy use. As the coordinating country of the CBMs in the Energy Security sector, the Republic of Korea would like to seek cooperation among CICA member states in the areas of (a) hydrogen policy and regulations, (b) technology related to hydrogen, and (c) supply chains for hydrogen production and consumption within CICA countries.

II. Objectives

Developments in the hydrogen energy sector are calling for new forms of policy designs and regulatory systems. To understand and benchmark how other countries generate and utilize hydrogen, cooperation among CICA member states has become necessary.

At the same time, it is important to seek ways to accelerate the speed at which hydrogen gains cost competitiveness over conventional energy sources. Some estimates that we will see such a huge costs reduction by 2040 across the hydrogen supply chain. Indeed, related technologies are being developed and we are witnessing a substantial decrease in hydrogen costs.

It is thus hoped that CICA member states will join the global efforts to develop supply chains for hydrogen production and consumption.

With these objectives in mind, the Republic of Korea proposes the following areas of cooperation as the agenda of the expert meeting and provides brief information about the meeting.

III. Areas of Cooperation

1. Hydrogen policy and regulations

CICA member states will aim to:

- share experiences in introducing policies or regulations for the transition into the hydrogen economy;
- cooperate in providing information on their best practices and relevant assistance to foster the hydrogen economy; and
- facilitate exchange of information on respective regulatory policies regarding newly introduced services in the hydrogen sector.

2. Technology related to hydrogen

CICA member states will aim to:

- establish and develop frameworks for the improvement of hydrogen energy efficiency;
- jointly develop technologies to improve production, storage, and delivery of hydrogen; and
- disseminate information on the best technology standard and available practices in:
 - i. creating a hydrogen technology database; and
 - ii. organizing regular meetings and seminars for information exchange.

3. Supply chains for hydrogen

CICA member states will aim to:

- establish a consultative mechanism with participation of producers and consumers of hydrogen energy, with a view to ensuring stability in the energy market; and
- take joint measures to increase the flow of hydrogen energy among member states by:
 - i. encouraging utilization of hydrogen energy;
 - ii. making joint efforts to create new projects for building hydrogen energy infrastructure (e.g. a liquefied hydrogen terminal);
 - iii. facilitating investment in hydrogen energy infrastructure within the industry among member states;
 - iv. developing and expanding hydrogen energy infrastructure through joint investments;
 - v. collaborating to ensure the security in the hydrogen energy supply chain (e.g. pipelines, liquefied hydrogen); and
 - vi. undertaking joint research in the area of hydrogen technologies.

IV. Brief Information about the Expert Meeting on Cooperation in the Area of Hydrogen Energy

As the coordinating country for the CBMs in the Energy Security sector, the Republic of Korea would like to propose an expert meeting on cooperation in the area of hydrogen energy:

- 1. Date:** Half-day in the second-half of 2021 / *exact date to be confirmed*
(subject to change according to the number of speakers)
- 2. Venue:** Seoul, Korea / *exact venue to be confirmed*
(a small meeting hall in capacity of 50 people, considering the COVID-19 situation)
- 3. Theme:** Reinforcement of regional energy security through cooperation on hydrogen energy
- 4. Format:** Hybrid of face-to-face meeting and video-conferencing
- 5. Participants:** *To be confirmed*
 - Representative of the Ministry of Foreign Affairs of the Republic of Korea
 - Representatives from government/non-government organizations of CICA member states