



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

**СЕКРЕТАРИАТ СОВЕЩАНИЯ ПО ВЗАИМОДЕЙСТВИЮ
И МЕРАМ ДОВЕРИЯ В АЗИИ**

№ 14-6/618

The Secretariat of the Conference on Interaction and Confidence Building Measures in Asia (CICA) presents its compliments to the CICA Member States and, with reference to the Secretariat's Note No. 14-6/268emb dated 14 May 2021 and at the request of the Republic of Korea, has the honour to forward herewith the registration form, technical guideline, program and concept paper of the Seminar on Cooperation in the Area of Hydrogen Energy to be hosted by the Republic of Korea on 30 September 2021.

*Enclosure:
as stated,
on 9 p.*

The Secretariat avails itself of this opportunity to renew to the CICA Member States the assurances of its highest consideration.

Nur-Sultan, 21 September 2021



**MEMBER STATES
OF THE CONFERENCE ON INTERACTION
AND CONFIDENCE BUILDING MEASURES
IN ASIA**



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AND CONFIDENCE BUILDING MEASURES IN ASIA**

**СЕКРЕТАРИАТ СОВЕЩАНИЯ ПО ВЗАИМОДЕЙСТВИЮ
И МЕРАМ ДОВЕРИЯ В АЗИИ**

№14-6/618

Секретариат Совещания по взаимодействию и мерам доверия в Азии (СВМДА) свидетельствует свое уважение государствам-членам СВМДА и, со ссылкой на ноту Секретариата №14-6/268emb от 14 мая 2021 года и по просьбе Республики Корея имеет честь препроводить регистрационную форму, техническое руководство, программу и концепцию семинара на тему «Сотрудничество в области водородной энергетики», которая будет проводиться Республикой Корея 30 сентября 2021 года.

*Приложение:
упомянутое,
на 9 л.*

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

город Нур-Султан, 21 сентября 2021 года



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

Қосымша:
аталған 9 п.

Азиядағы өзара іс-қимыл және сенім шаралары кеңесінің (АӨСШК) Хатшылығы АӨСШК мүше мемлекеттеріне өзінің зор ілтипатын білдіре отырып, Хатшылықтың 2021 жылғы 14 мамырдағы №14-6/268emb нотаға қосымша ретінде және Корея Республикасының өтініші бойынша, 2021 жылғы 30 қыркүйекте Корея Республикасы өткізетін «Сутекті энергетикасы саласындағы ынтымақтастық» семинарына қатысты тіркеу форманы, техникалық ақпаратты, бағдарлама мен тұжырымдаманы жіберуді өзіне мәртебе санайды.

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

Нұр-Сұлтан қаласы, 2021 жылғы 21 қыркүйек

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

ПТ 17.09.2021 16:48

"주카자흐스탄(대)_현지행정직원" <embassy_astana@mofa.or.kr>

The Embassy of the Republic of Korea in the Republic of Kazakhstan - Seminar on Cooperation in the Area of Hydrogen Energy

The Embassy of the Republic of Korea in the Republic of Kazakhstan presents its compliments to the Secretariat of the Conference on Interaction & Confidence Building Measures in Asia (CICA) and has the honor to inform that previously announced Expert meeting on cooperation in the area of Hydrogen Energy (Embassy note KKZ-137/21-A dated May 11, 2021) has been reformatted into Seminar on Cooperation in the Area of Hydrogen Energy.

The Embassy of the Republic of Korea invites the Member state to take part in above mentioned Seminar which will be conducted in September 30, 2021 at 16:30-18:00 KST (UTC +9)

In this regards, the Embassy kindly request the Secretariat to circulate the attached documents on Seminar on Cooperation in the Area of Hydrogen Energy among the Member states.

The Embassy of the Republic of Korea in the Republic of Kazakhstan avails itself of this opportunity to renew to the Secretariat of the Conference on Interaction & Confidence Building Measures in Asia (CICA) the assurances of its highest consideration.

Seminar on Hydrogen Energy

(September 30, 2021, Seoul)

The government of the Republic of Korea is exerting efforts to achieve both post COVID-19 economic recovery and energy transition through the Green New Deal, which includes measures to foster the hydrogen industry.

Noting the important role of hydrogen energy in the economy and for the environment, the Republic of Korea, as the CICA coordinating country of the CBMs in the Energy Security sector, would like to arrange a Virtual Seminar among CICA Members on Hydrogen Energy at 16:30-18:00 KST (UTC +9) on September 30 2021 on the occasion of the “International conference on hydrogen. For your reference, the attached program of both the Hydrogen seminar and the International conference are attached hereby.

In this regards, we would like to invite experts from CICA member states to participate in the Hydrogen seminar and if possible, to make a presentation on your country’s policy and regulations on hydrogen. We kindly request you to fill out the attached form and send it back to ijkim21@mofa.go.kr **no later than September 27** to confirm your presence at the seminar.

Registration Form

(September 30, 2021, Seoul)

	Hydrogen Seminar
Participants	(O/X)
- Name :	
- Organization :	
- Contact Point :	
Presentation	(O/X) <i>(if you wish to make a presentation on hydrogen policy, please give us the intention considering the restricted number of speakers)</i>
Questionnaire	(O/X) <i>(if you have queries on hydrogen policy, please share it in advance)</i>

Technical Guideline

(Organizational conditions)

1. The seminar will be held on September 30, 2021 on the ZOOM platform from 16:30 to 18:00 KST (UTC +9).
(URL will be informed in the due course.)
2. The working languages of the seminar will be English.
3. Participants need to log into the ZOOM platform via the directed link at least 30 minutes before the seminar.
4. When joining the seminar, all participants need to provide the name of their country (e.g., Republic of Korea).
5. All participants are kindly requested to turn off the microphone during the seminar unless the floor is given to the participants. If you wish to speak, you can indicate such intention by clicking the “Raise Hand” button.
6. Contact person
 - Eurasian Division II of the Ministry of Foreign Affairs of the Republic of Korea
 - Tel: +82 2 2100 7468
 - E-mail: ijkim21@mofa.go.kr

Program of Seminar on hydrogen

- **Seminar subject:** Hydrogen policy and regulations in CICA member states
- **Seminar purpose:** 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.
- **Date and time:** Sept. 30, 2021, 16:30-18:00 KST (UTC +9)
- **Format of the event:** online
- **Participants:** one representative of respective CICA member states
- **Event language:** English Only
- **Tentative Program (TBC):**

CICA Seminar	
16:30 - 16:40	Hydrogen policy and regulation in Korea ▸ Korea Energy Economics Institute (TBC)
16:40 - 16:50	Hydrogen policy and regulation in CICA Member State (2) ▸ (TBC)
16:50 - 17:00	Hydrogen policy and regulation in CICA Member State (3) ▸ (TBC)
17:00 - 17:10	Hydrogen policy and regulation in CICA Member State (4) ▸ (TBC)
17:10 - 17:40	Discussion on Cooperation in the area of Hydrogen Energy among CICA members
17:40 - 18:00	Q & A Session

Program of International Conference on Hydrogen

08:30 ~ 09:00	Registration		
Opening Session			
09:00 - 09:20	Opening Remarks • Ministry of Foreign Affairs Congratulatory Remarks • National Assembly of the Republic of Korea		
09:20 - 09:50	Keynote Presentation The role and competitiveness of green hydrogen • Francesco La Camera, Director-General, International Renewable Energy Agency		
Session 1 : Global trends and policies for green hydrogen production			
09:50 - 11:30	Policy and pilot projects on green hydrogen production in Korea • Korean government Portugal National Hydrogan Policy : Current Status and Outlook • Joao Galamba, Deputy Minister and Secretary of State for Energy, Ministry of Environment and Energy Transition		
	Renewable Hydrogen : A Key Enabler for the Energy Transformation • William Tumas, Associate Laboratory Director, National Renewable Energy Laboratory Green hydrogen strategy in Chile • Max Correa Achurra, Director of Fuels and New Energy, Ministry of Energy of the Republic of Chile Q & A		
11:30 - 13:10	Policies and outlooks for investment in hydrogen and low carbon technology in Australia • Paul Murphy, General Manager, Clean Technology Branch of International Climate and Technology Division, Department of Industry, Science, Energy and Resources Green hydrogen policy and carbon capture utilization storage (CCUS)-related prospects in China • Chinese government Policy and outlooks for green hydrogen production in Japan • Eiji Ohira, Director General, New Energy and Industry Technology Development Organization Trends in green and blue hydrogen production in Russia • Russian government Q & A		
Session 2 : Global trends and outlook for green hydrogen production technology			
14:10 - 14:40	[Keynote Presentation] The core of global net zero and the role of clean energy technology • Tae-Yoon Kim, Senior Energy Analyst of Energy Supply and Investment Division, International Energy Agency(IEA)		
14:40 - 16:20	Accelerate large scale green steel production through hydrogen with start 2024 • Maria Persson Gulda, Chief Technology Officer, H2 Green Steel Development of P2G System Technology in Yamanashi Prefecture • Daisuke Izuhara, Deputy General Manager, TORAY Industries, Inc. Industrial scale green hydrogen from the North German wind energy region Heide • Dirk Burmeister, President, Entwicklungsagentur Region Heide The role of ammonia in clean energy transition in Australia • Patrick G. Hertley, Leader of Hydrogen Industry Mission, CSIRO Q & A		
Session 3		CICA Seminar	
16:30-18:00	Status and outlooks for water electrolysis technology in Denmark • Peter Vesborg, Professor, Technical University of Denmark(TBC) Status and outlooks for large-scale PEM electrolysis in the UK • ITM Power Pilot projects on green hydrogen production using offshore wind power in the Netherlands • Rene Peters, Business Director Gas Technology, Netherlands Organisation for Applied Scientific Research Green hydrogen and low carbon policy including carbon capture storage (CCS) in Norway • Yara International(TBC)	16:30 - 16:40	Hydrogen policy and regulation in Korea • Korea Energy Economics Institute (TBC)
		16:40 - 16:50	Hydrogen policy and regulation in CICA Member State (2) • (TBC)
		16:50 - 17:00	Hydrogen policy and regulation in CICA Member State (3) • (TBC)
		17:00 - 17:10	Hydrogen policy and regulation in CICA Member State (4) • (TBC)
		17:10 - 17:40	Discussion on Cooperation in the area of Hydrogen Energy among CICA members
		17:40 - 18:00	Q & A Session
		18:00	Closing

Concept Paper on Seminar on Cooperation in the area of Hydrogen Energy -

I. Background

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 Seminar and provides brief information about the meeting.

III. Areas of Cooperation

1. Hydrogen policy and regulations

We 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

We 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

We 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.