**日中韓のカーボンニュートラルに向けた鉄鋼産業の脱炭素技術革新と政策設計に関する国際セミナー開催**

**Seminar on `decarbonization policies and technological innovation for decarbonization of iron and steel industry toward carbon neutrality in China, Japan and Korea`**

**<**These seminars are supported by the Asia Research Project of Meijo University.**>**

1. **Dates**

**February 28~March 2, 2023**

1. **Venue**

**Meijo University, Kyoto University**

1. **Outline of the seminar**

China, Japan and Korea declared in 2020 October that they will achieve net-zero carbon dioxide emissions, in other words, carbon neutrality in the mid-2000s. Carbon neutrality means changing from a situation where fossil energy is dependent to the situation where renewable energy being the main energy for the society.

Therefore, it is necessary to break away from fossil energy dependence not only at power sector but also at all sectors such as industry, transport, commerce and consumer use. Iron and Steel sector, which has the largest ratio of CO2 emission (Japan 14%, China 15% and Korea 7%) in whole economy and provides the main materials for other sectors, becomes the inevitable subject of carbon neutral.

For the realization of zero-carbon steel in China, Japan and Korea, this study will design a policy set about carbon pricing, subsidies and mandates. In order to implement the policy set in reality, E3ME-FTT:Steel is used to simulate the decarbonization technological innovation process which take hydrogen reduction ironmaking as the focus point until the year of 2050. The impact on overall economics is also estimated in this study.

1. **Schedule of the seminar**

**1.February 28: Meijo University(T905)**

〇16:00~18:30

<Presentation>

\*Yongsung CHO(Professor, Korea University)：presentation in person

  →「Decarbonization technological innovation of steel industry in Korea」

\*Pim Vercoulen(Senior Researcher, Cambridge Econometrics) ：presentation in person

 →「Policy design for decarbonization of steel industry in Japan, China and Korea using FTT:Steel model」

<discussion>

\*Soocheol Lee(Professor, Meijo University)

**2.March 1: Meijo University(T905)**

〇10:30～12:00

<Presentation>

\*Jun Pang(Professor, Renmin University of China): presentation by online

   →「Decarbonization technological innovation of steel industry in China」

\*Yongsung CHO(Professor, Korea University) :presentation in person

   →「Features and challenges of decarbonization policies of Korea toward carbon neutrality」

<Discussion>

\*Soocheol Lee(Professor, Meijo University)

〇12:00～14:00：  including lunch box time

<Presentation>

\* Xu Han(Graduate student, Kyoto University) ：presentation in person

   →「Decarbonization technological innovation of steel industry in Japan」

\*Pim Vercoulen(Senior Researcher, Cambridge Econometrics) :presentation in person

 →「Economic impact of decarbonization of steel industry by 2050 in Japan, China and Korea using E3ME-FTT:STEEL simulation model」

<Discussion>

\*Soocheol Lee(Professor, Meijo University)

**3.March 2: Kyoto University(京都大学法経東館三菱住友銀行ホール)**

〇15:00~16:30

<Presentation>

\*Pim Vercoulen(Senior Researcher, Cambridge Econometrics) :presentation in person

 →「Economic impact of hydrogen economy toward carbon neutrality by 2050 in Japan E3ME-FTT:Hydrogen simulation model」

<discussion>

Morotomi Toru(Professor, Kyoto University) ,Soocheol Lee(Professor, Meijo University)