

Session Title: Hydrogen Production Technologies and Urban Utilization

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Abstract title: Research and Development of Hydrogen Technology

The outline of recent research and development of hydrogen technology has been described for the hydrogen production without CO₂ emission, the transport and storage of hydrogen and the utilization technology of hydrogen including stationary fuel cell for the buildings and industry. Especially, the transport should be researched for the minimum cost. Furthermore, for realizing the sustainable society, the “Comprehensive principles for a sustainable society” has been proposed through the usage of hydrogen by utilizing “Circular economy”, “Bio-economy” and “Sustainable energy”. The innovation by use of hydrogen would be essential for the realization of Paris agreements by 2050.