

**Session Title:**

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**Position:**

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**Abstract title:**

Systematic Classification of Heat Demand for Industrial Processes and Systematic Overview of Mobility and their Future Decarbonization

**Abstract text:**

To reduce the large amount of CO<sub>2</sub> emission from industries, the heat demand for industrial processes has been systematically classified to show 3/4 of the total heat demand is due to “Industrial Furnaces”. As for the industrial furnaces, combustion furnaces utilizing fossil methane should be replaced by the combustion furnace utilizing hydrogen, ammonia or bio fuel and alternatively by electric heating. As for the mobility, the overview of application fields of various kinds of mobility has been conducted to show the future right application field in the right place for EV, Fuel Cell Vehicles and Bio fuels.