



Vabilo na Preglov kolokvij / Invitation to the Pregl colloquium

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Velika predavalnica Kemijskega inštituta /

Great Lecture Hall

National Institute of Chemistry

Hajdrihova 19, Ljubljana, Slovenia

Net-Zero Dreaming: Fossil fuels or darkness and hunger

At the 21st Conference of the Parties (COP21, 2015), 194 countries signed the Paris agreement that requires increasingly ambitious actions to reduce greenhouse gas emissions. Net Zero CO₂ emissions by 2050 is the target to maintain global temperature below 2 °C that of the pre-industrial era. The Net Zero Roadmap includes 400 milestones that requires transitioning from oil, natural gas, and coal to renewables and nuclear. However, biomass, nuclear, and hydro energy have stagnated and to replace petroleum requires 100s of trillions of dollars in capital investment. The oil industry projects investing 600 billion \$/y to meet demand, which now exceeds 100 million barrels per day (2 L per capita) and China quadrupled coal mining to 4.5 billion t/y since 2000. Not all is dire as forests and croplands have each regained 1.7 million km² of land and another 1 million km² of grasslands and other woody vegetation.

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Vljudno vabljeni / Kindly invited