SOCIAL LIFE CYCLE ASSESSMENT OF CO₂ VALORISATION SCENARIOS: CASE STUDY OF LATVIA

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Abstract – As technologies develop, the question of their influence and effect on the environment and society becomes even more relevant. This is especially true for relatively young technologies that utilise or capture carbon dioxide. The Social Life Cycle Analysis is an indispensable tool to understand the impact of number of factors on the society and sociological factors due to various CO₂ valorisation scenarios in the mid-term to long term. The impact of scenarios on the public are identified based on a multi-regional input/output method of qualitative and quantitative generic data. This work takes into account aspects of health and safety, cultural heritage, the impact of various state structures on the interests of social groups – workers, local communities, society and consumers. The paper considers the factors of CO₂ valorization technologies that affect society both positively and negatively.

Keywords – Social LCA; CO₂; CCS; CCU; Latvia

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