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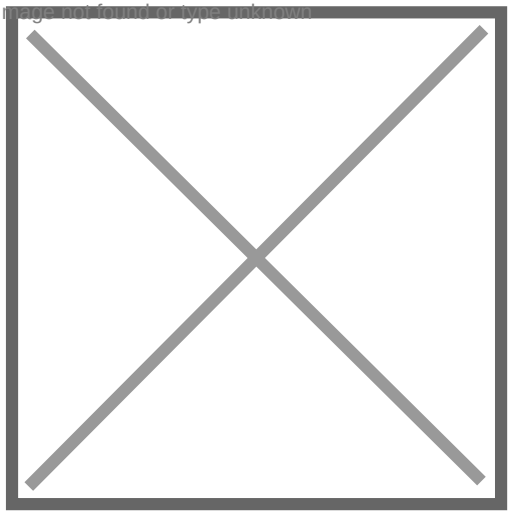

HORIZON-CL4-2023-TWIN-TRANSITION-01-33

**CITADEL**

Full Title:  slashing CO2 and boosting efficiency with innovative electrical technologies

Aim:

Effectively combating global warming requires a significant reduction in CO2 emissions. This poses enormous challenges, especially for the energy-intensive process and production industry, as this industry accounts for one third of total energy consumption. What is needed is intelligent electrification across all operational processes. Electrification has such a large potential impact on decarbonisation because it allows clean, renewable electricity to power processes that previously used emissions-intensive technologies (such as gas burners). This means that a process that previously produced high emissions can become absolutely emission-free when powered by renewable energy.

Start date:
01/01/2024

End date: