

Why Renewable Power Alone Is Not Decarbonisation

— and How Carbon Recycling Technology (CRT) Completes the System

Clean Energy and Water Technologies Pty Ltd (CEWT) ABN 61 691 320 028 | ACN 691 320 028

Purpose of this note This document clarifies a common misconception in energy-transition discussions — that renewable electricity alone constitutes full decarbonisation — and explains how Carbon Recycling Technology (CRT) complements renewable power by addressing carbon already embedded in the economy.

This is a conceptual explainer intended for policymakers, financiers, and stakeholders. It is non-technical, non-bankable, and contains no proprietary process detail.

Renewable power reduces future operational emissions, but it does not remove carbon already embedded in the economy.

Renewable electricity manages electrons, not carbon. Solar panels, wind turbines, and batteries all carry embedded CO₂ emissions from materials, manufacturing, transport, and construction.

Most global emissions arise from fuels, steel, cement, chemicals, and high-temperature industrial processes. These systems already contain carbon and require direct carbon management.

CRT treats CO₂ as an internal process intermediate, recycling carbon into Renewable Synthetic Methane Gas (RSMG) in a closed loop, achieving net-zero emissions without permanent storage.

Renewable electricity reduces future emissions; CRT manages carbon already embedded in the system.

Decarbonisation is not just about producing clean electricity. It is about managing carbon already embedded in the economy.