

Voluntary Carbon Offset 101



Sam Telleen

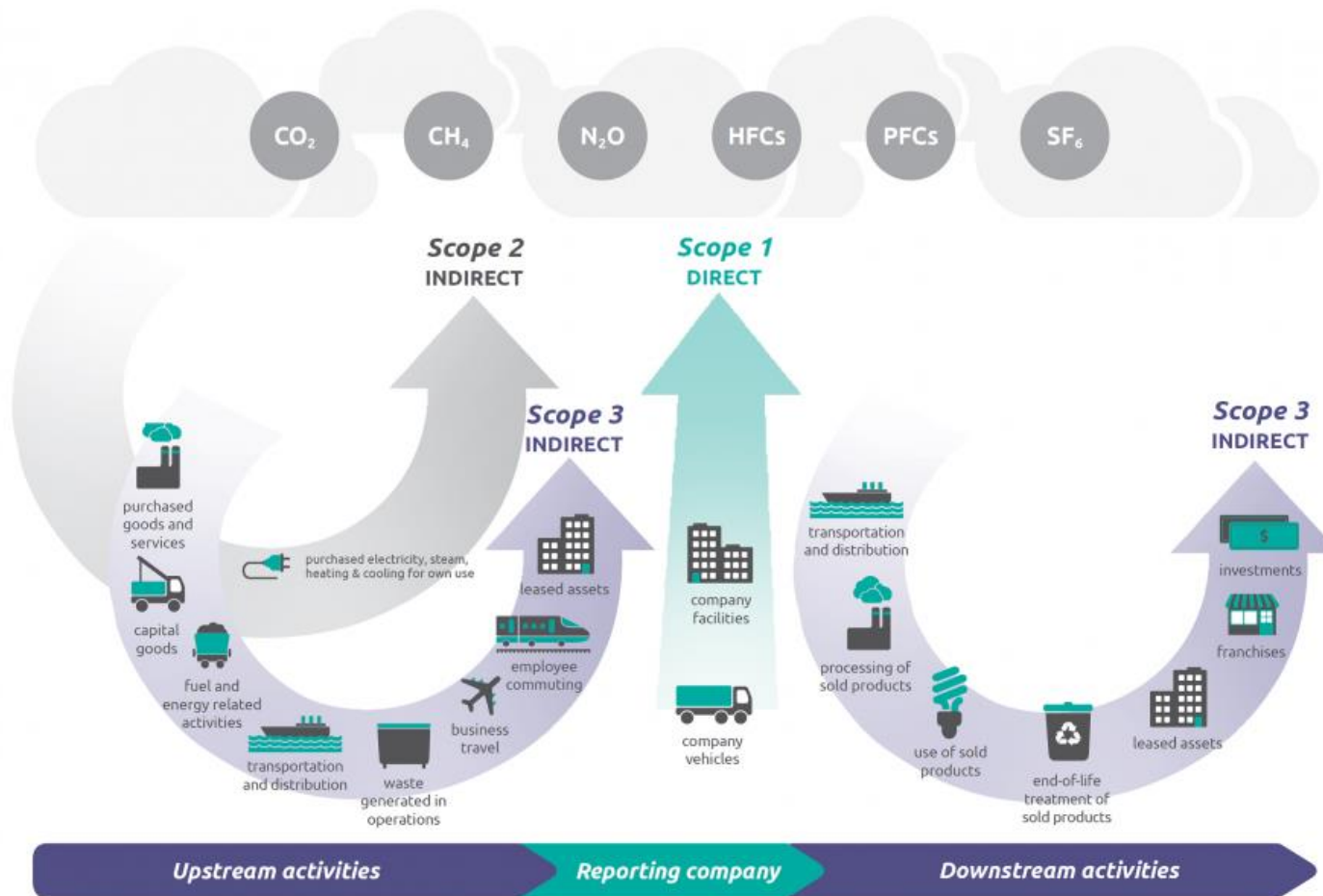
President & COO
Terrapass



Pat Brewer

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CENTER FOR RESOURCE SOLUTIONS

Carbon Offsets Reduce Scopes 1 & 3



Green-e

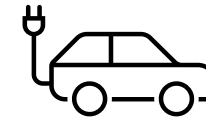
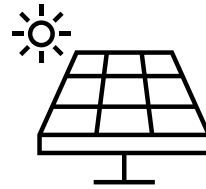
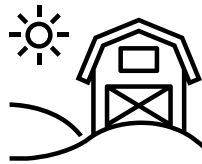
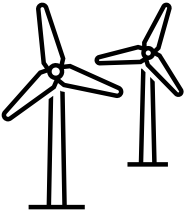
Carbon offsets and Renewable Fuels products/services

- [Scope 1] After conservation and efficiency efforts, use Carbon Offset or Renewable Fuels products for remaining footprint
- [Scope 2] Offsets can be used for Scope 2, but not recommended when renewable electricity is available
- [Scope 3] Carbon offsets or Renewable Fuels products, coupled with supply chain guidance measures

Source: [WRI/WBCSD Corporate Value Chain \(Scope 3\) Accounting and Reporting Standard \(PDF\)](#)

What is a carbon offset?

A certificate representing the removal or reduction of one metric ton (2,205 lbs) of carbon dioxide (or equivalent) emissions (mtCO₂e)



- **P**ermanence
- **A**dditionality
- **V**erified
- **E**nforceable
- **R**real

Renewable Energy

Energy Efficiency

Fuel Switching

Landfill Methane Capture

Livestock Methane Capture

Industrial Gas Destruction

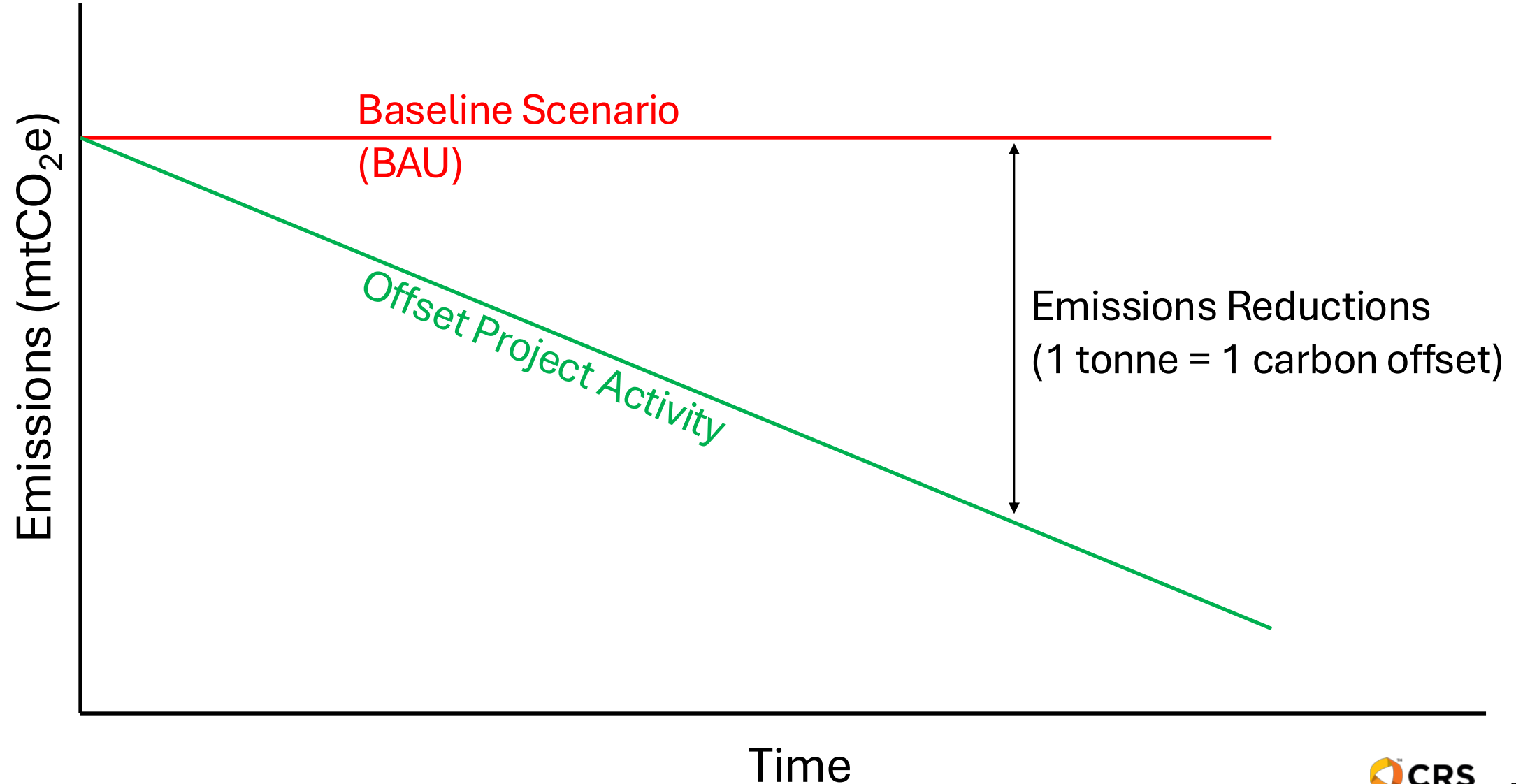
Coal Mine Methane
Capture

Agriculture, Forestry and
Other Land Use (AFOLU)

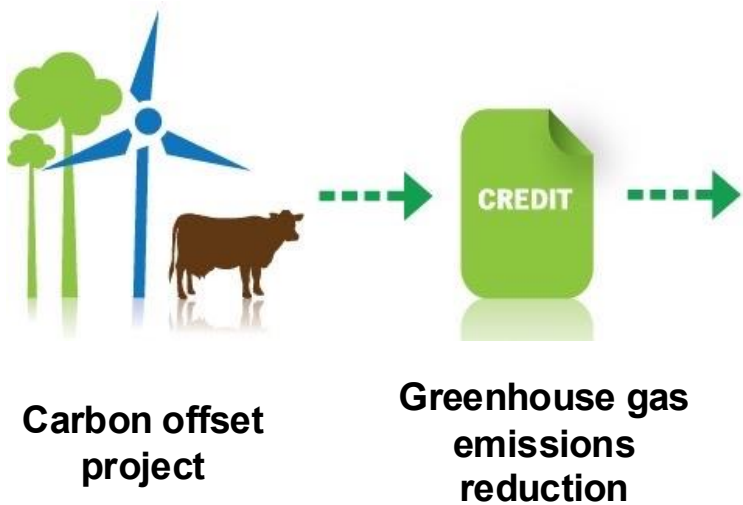
Industrial Process
Emissions

Transportation

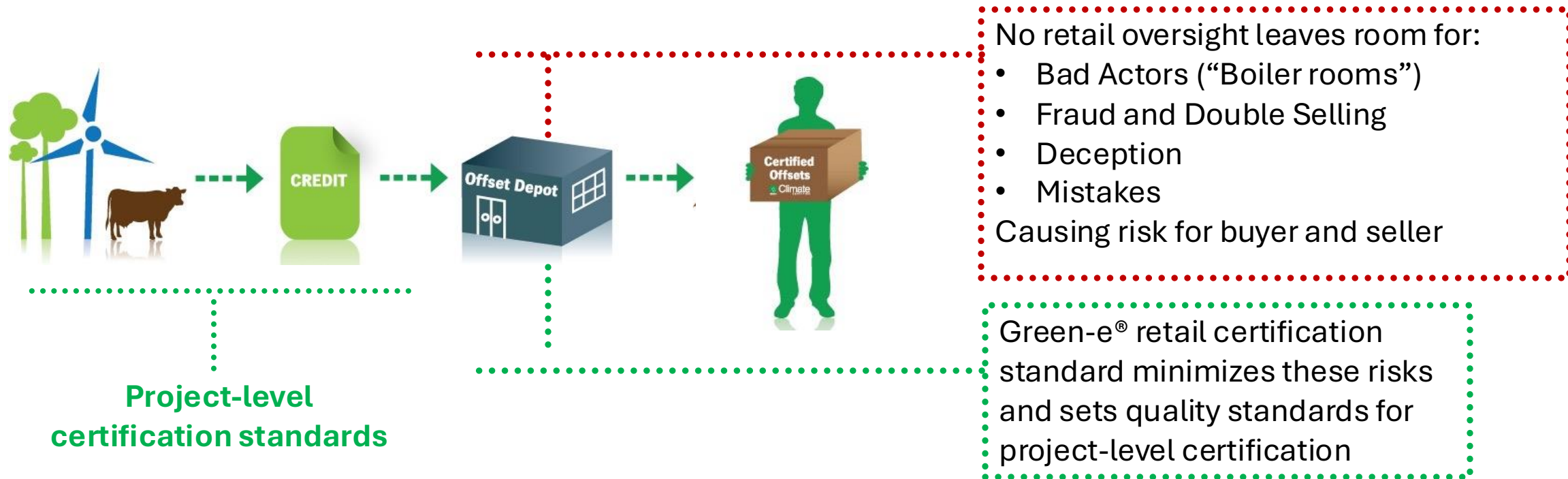
Carbon offsets must cause additional emission reductions



Credit Lifecycle



Green-e® Climate Certification of Carbon Offsets



SO MUCH to do – Where do we begin?



Source: Ecosystem Marketplace, 2021 – “What’s in a Category? Carbon Offset Project Typology”, <https://www.ecosystemmarketplace.com/publications/state-of-the-voluntary-carbon-markets-2021/>

Q&A