Biomass In the Wheelhouse of the Circular Economy PROCESSING LCFS/RFS Net-Zero GHG Renewable Portfolio Standard SB 1383 IRA -**COMPOST** Act HEALTHY SOILS Cap-and-Trade Climate Action Reserve

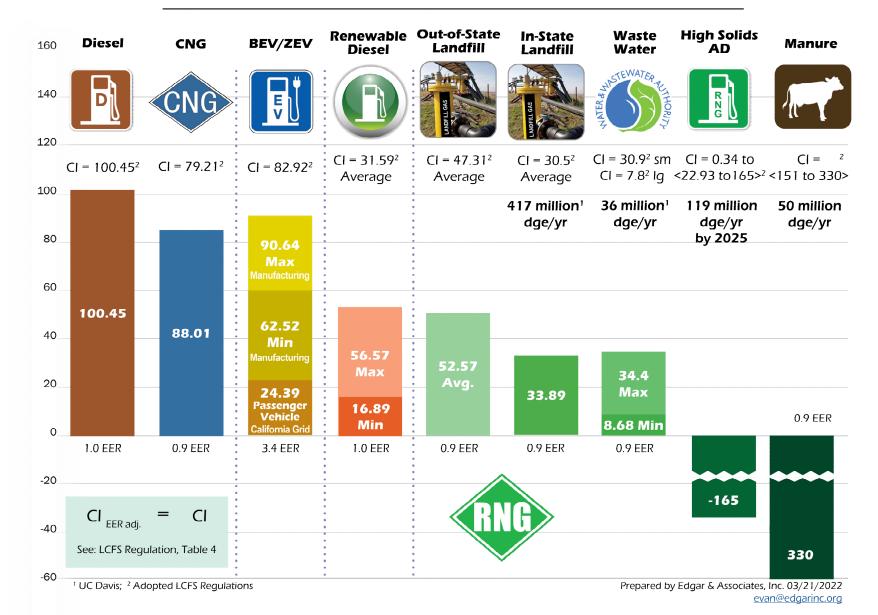


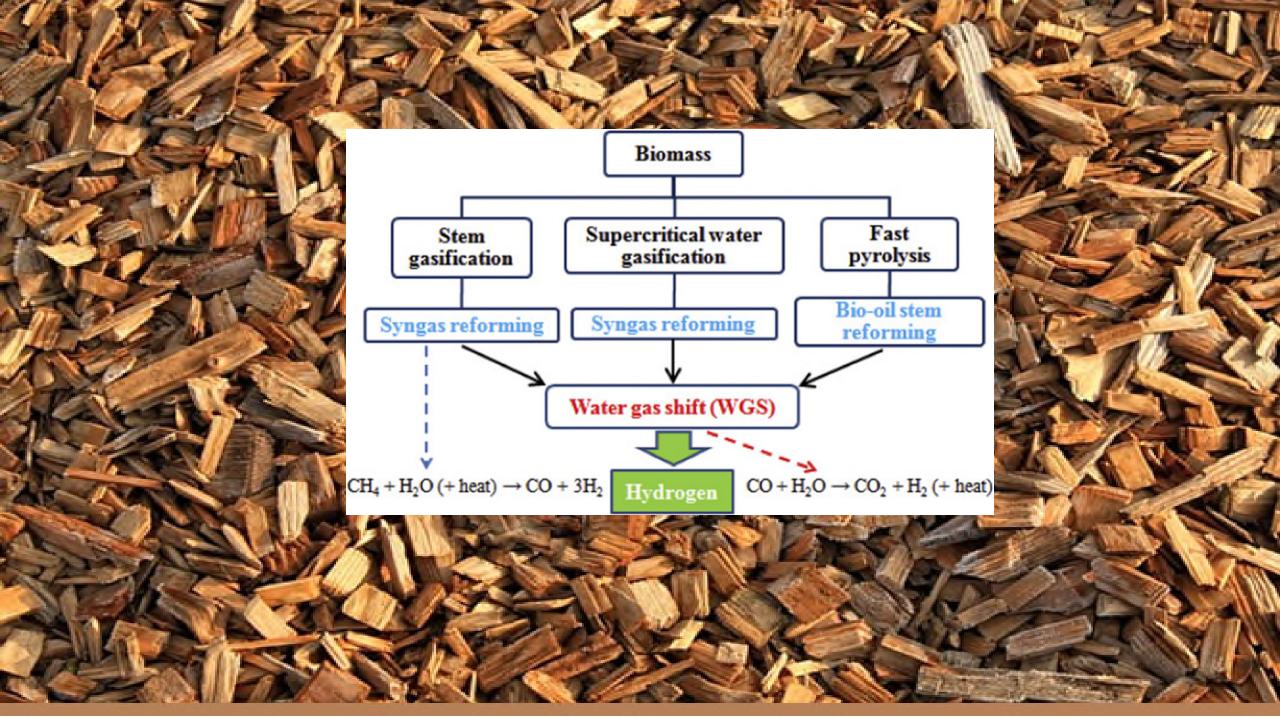




Carbon Intensity for Diesel & Substitutes

grams C0² emitted per unit of energy adjusted for energy economy ratio [EER] (g C0² e/MJ)







ANAEROBIC DIGESTION FACILITY



FARM



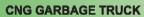


FOOD WASTE/ GREEN WASTE



COMMUNITY SCALE
CARBON NEGATIVE
FLEET

BIOGAS CONDITIONING AND COMPRESSION





FRANCHISE





RESTAURANT

Agricultural Composting – under 12,500 CYD CalRecycle

- under 25,000 CYD Water Board
- Agricultural Exemption Land Use/Climate Action Plans
- Windrows or BACT APCDs/AQMDs ???



Carbon Farming One Ton of Compost sequesters 0.54 Tons of Carbon



COMET-Farm & COMET-Planner

Tools for Conservation Planning and Greenhouse Gas Mitigation in Agriculture and Forestry

COMET-Farm and COMET-Planner

COMET Team

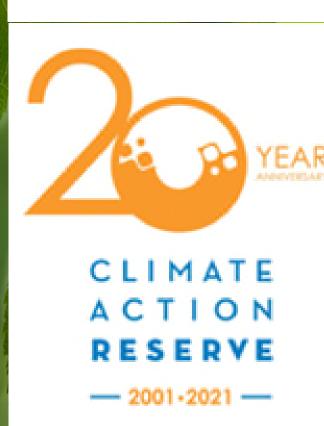
Paustian Research Group Natural Resource Ecology Laboratory Colorado State University Fort Collins, CO







Voluntary Carbon Off-sets



- Corporate Sustainability Programs
- CARB may eventually adopt as regulatory off-set
- Protocols
 - Organic Waste Composting Facilities
 - Organic Waste Digestion Facilities
 - Soil Enrichment 1.0/2.0
 - Biochar

