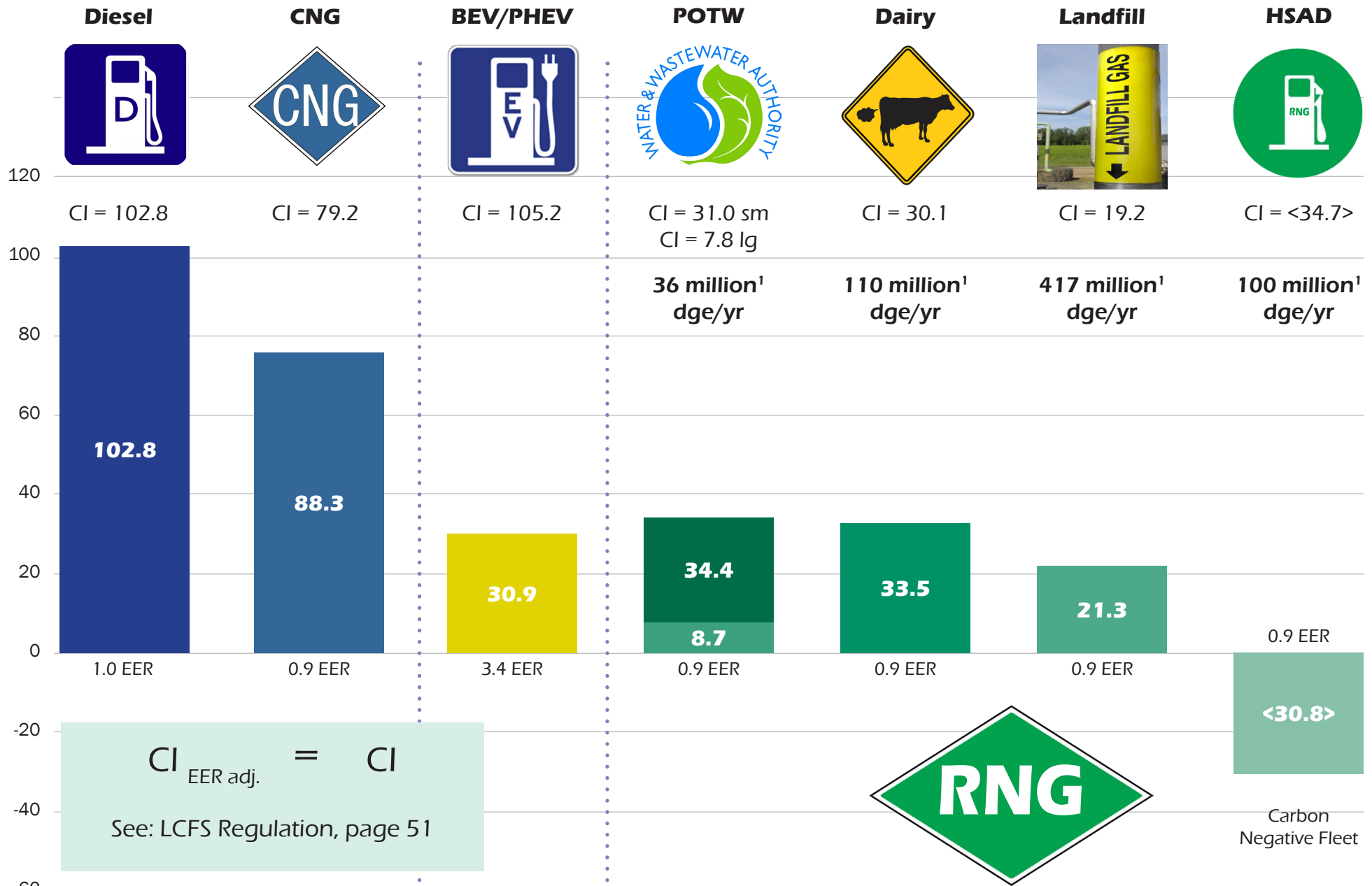


# Carbon Intensity for Diesel & Substitues, grams CO2 emitted per unit of energy adjusted for energy (g CO2 e/MJ)

(June 25, 2015,  
California Air Resources Board Staff Report)



<sup>1</sup> UC Davis

## Waste Sector (Organics, Recycling, MSW)



Class 7 - 12,000 in CA still on diesel



Class 8 - 3,000 in CA - all on diesel

## Incremental CNG truck cost compared to Diesel truck



\$40,000 per truck average - 15,000 Class 7 and 8 trucks from Diesel to CNG



\$600 million for 15,000 trucks (2015/16-2020/21) - \$100 million year

## CNG Fleet with RNG Off-Take Agreement



Demand 15,000 trucks - 50 dge/day/truck - 200 million dge per year



- RNG Supply - 100 million dge from Organics/HSAD (minus 21 carbon intensity)



- RNG Supply - 417 million dge from Landfills (13 carbon intensity)



- RNG Supply - 36 million dge from Wastewater Plants (9 to 34 carbon intensity)