

SOLECTRAC



CLIMATE-SMART TRACTORS



eUtility 2 40-HP equivalent

- Does not need to idle during picking.
- Only uses energy while moving.
- 2000 times quieter than diesel.
- No toxic exhaust or fluids.

A PERFECT MATCH FOR GRAPE HARVESTING



Certified



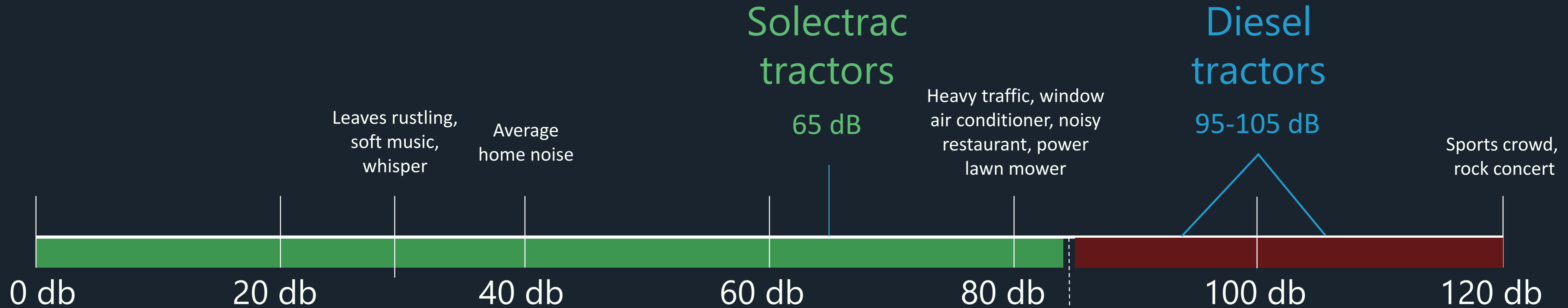
Corporation

SOLECTRAC

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QUIET OPERATION

Prevent hearing loss and improve safety



Sound levels under 85 dBA are generally thought of as "safe," although there is some risk of hearing loss for prolonged exposures to 80 dBA. - National Ag safety database

Safe exposure to 105 dB is 4 minutes. - National Ag safety database

REDUCED MAINTENANCE COSTS & DOWNTIME

DIESEL TRACTOR

Maintenance cost is 25% of purchase price



ELECTRIC TRACTOR

- No oil
- No oil filter or injector changes
- No hydraulic fluids or hoses
- No lubrication of engine



LESS FUEL COST

DIESEL TRACTOR

\$7.04/hour



Fuel cost = .044 x 40 HP = 1.76 gal/hr at \$4/gal = \$7.04

Does not include lubrication cost = 15% of fuel cost

- Iowa State University

ELECTRIC TRACTOR

\$0.86/hour



Fuel cost: 20 cents/kWh

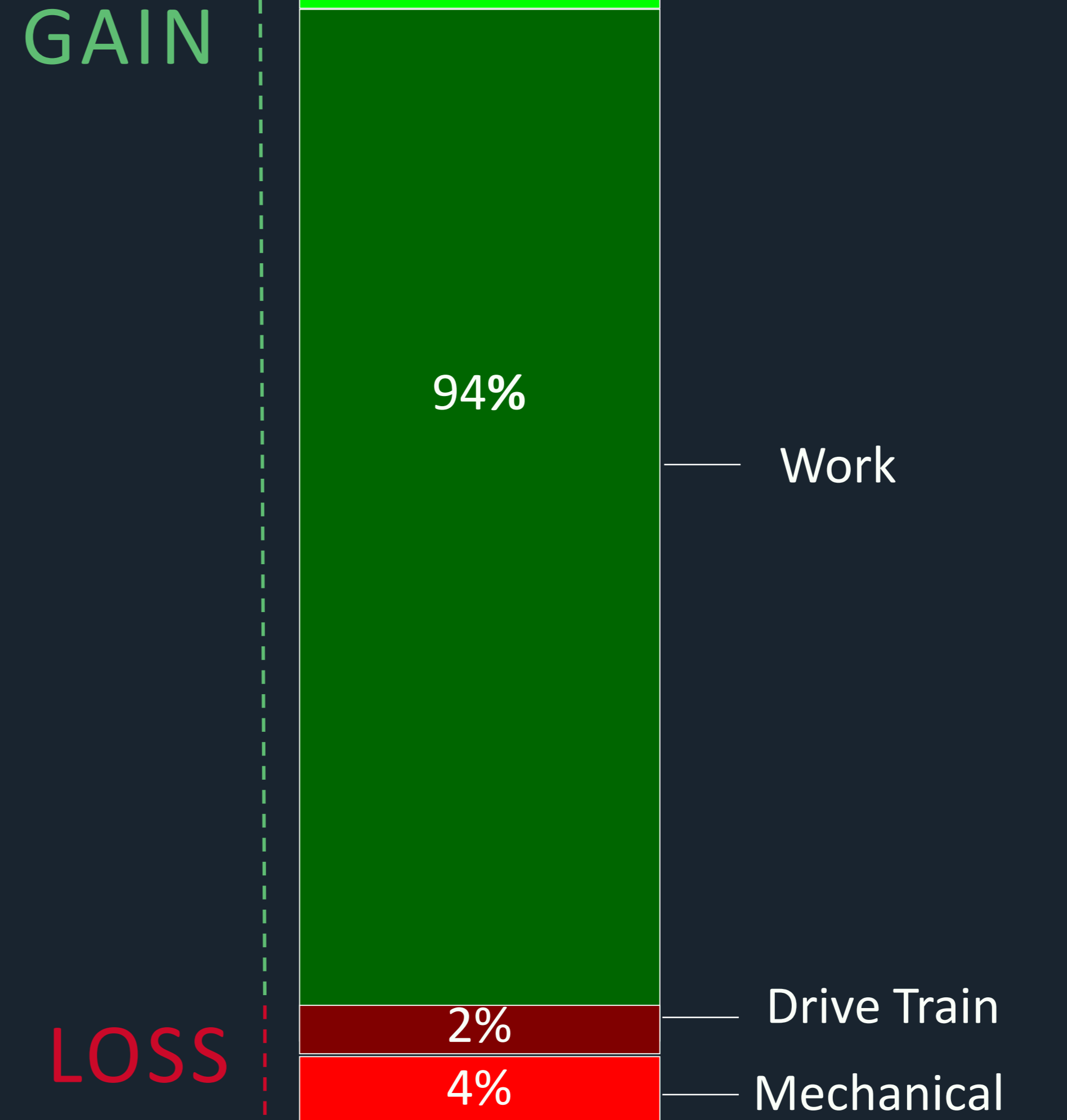
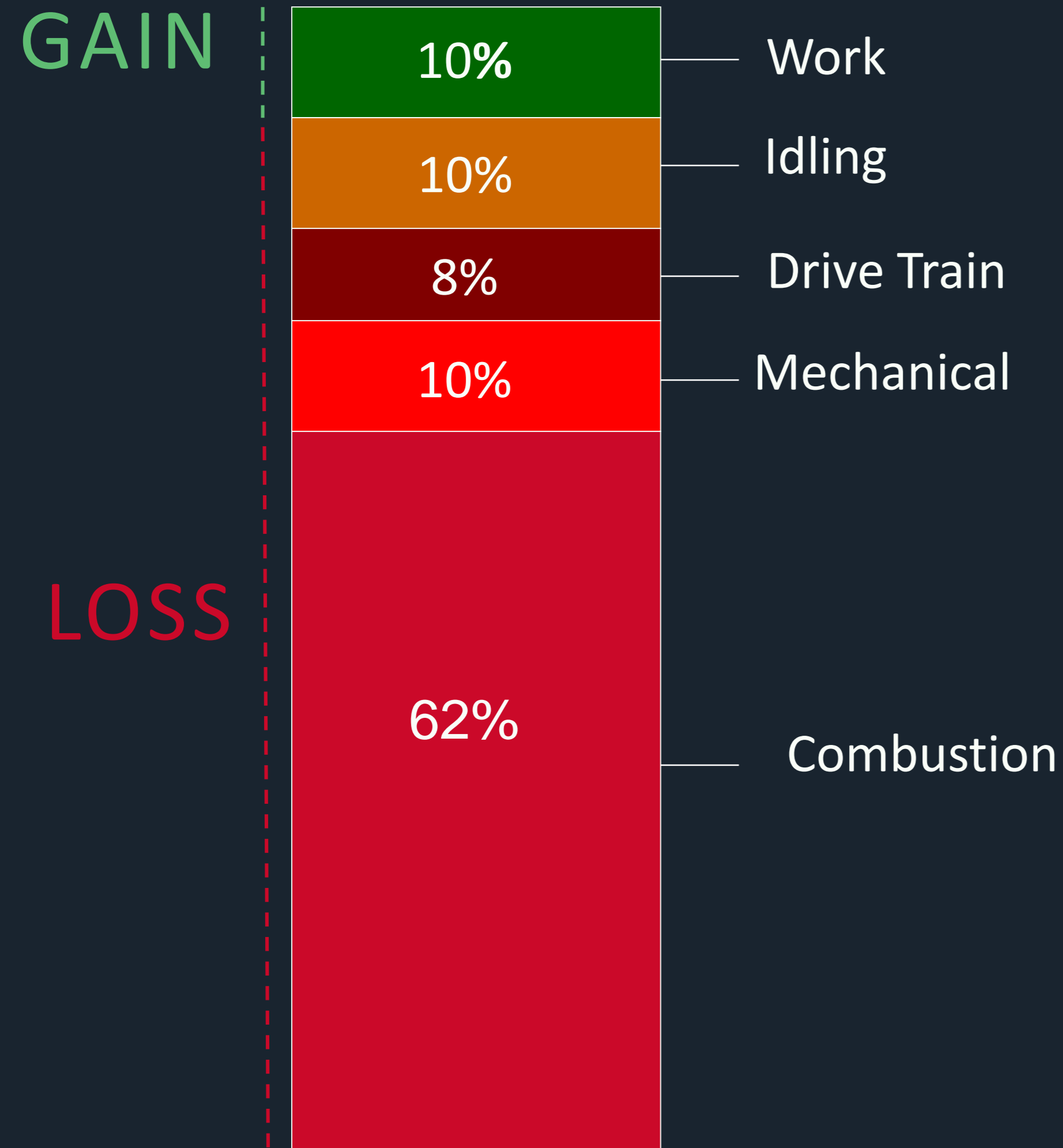
Battery pack 26 kWh last ~6 hrs =

4.3 kWh/hr used x 20 cents = \$.86

DRIVE TRAIN EFFICIENCY

ELECTRIC TRACTOR

DIESEL TRACTOR



COMPARING FOSSIL FUEL WITH SOLAR CHARGING

Vehicle Type & Fuel Source	COMBUSTION	ELECTRIC TRACTOR & 3 KW PV
Liquid fuel used - 300 hrs/yr for 25 yrs	8,000 gals	0
Upstream emissions	200 tons	700 lbs.
Energy used 25 yrs	250 MWh	60 MWh
Fuel cost/hr	\$5.00	\$0.80
Fuel cost/yr	\$1500	\$240
Fuel cost over 25 yrs - \$5.00/gal, \$4/watt	\$40,000	\$6,000 *
Total CO₂ / 25 years	300 tons	TRACE

Assumptions average next 25yrs : 1 gal/hr, \$5.00/gal, 30kWh/gal, 28lbs CO₂/gal,
 *Current installed cost and performance for 3 kW PV w/ 25 year warranty

IMPROVED WORKER AND ENVIRONMENTAL HEALTH

No more:
hearing loss or breathing
toxic exhaust

No more:
Air, water and soil
pollution or
GHG emissions



“No more exhaust...”

-John Frey, CEO, Frey Vineyard
First Bio Dynamic Vineyard in US



“So quiet...”

- Takashi Yogi, Director, School of Adaptive
Agriculture - Vocational Training - CA Grange



“This is the future.
Your tractor was the
quietest in 120 years
of testing.”

- Roger M. Hoy, Director , Nebraska
Tractor Testing Laboratory, Designated
Western Hemisphere Tractor Testing Lab

