



Technology indicators for light duty and heavy duty applications

Technology indicators that industry is likely to achieve in a mass-market competitive environment.

Brake Thermal Efficiency (BTE)

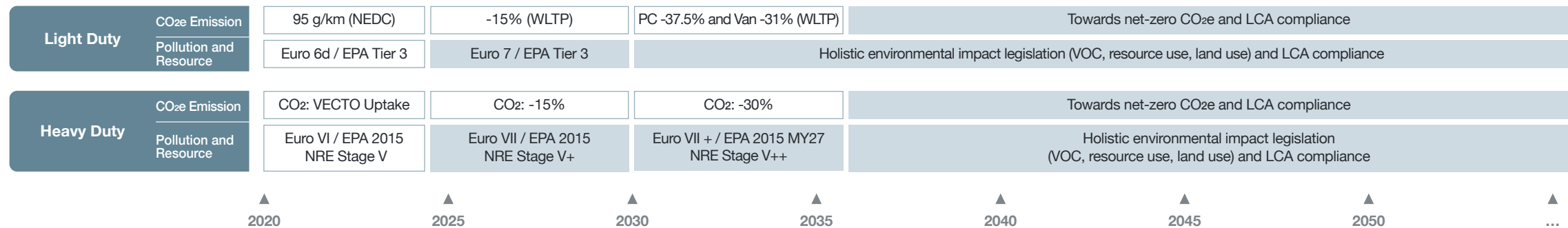


Notes:

- BTE refers to Peak Brake Thermal Efficiency.
- BTE is a common indicator for engine efficiency. The values listed are best-in-class figures.
- Although single point peak BTE values are shown, these are not accurate indicators of real world vehicle efficiency which will vary across propulsion technologies and product applications.

Green House Gas and Air Quality Regulation Drivers

Defined driver
 Predicted driver





This roadmap represents a snapshot-in-time view of the global automotive industry propulsion technology forecast for mass market adoption. Specific application-tailored technologies will vary from region to region.

Dark bar: Technology is in a mass market application. Significant innovation is expected in this time frame

Transition: Transitions do not mean a phase out from market but a change of R&D emphasis

Dotted line bar: Market Mature – technology has reached maturity. Likely to remain in mass market until it fades out where it's superseded

