



## Reducing Emissions, Increasing Value

Enabling a lower emission future whilst delivering value for end users

# Our purpose: we keep things moving



One consistent vision...

to address consistent industry needs...

and develop solutions for evolving segments



Afton provides performance additive solutions **that reduce emissions, make vehicles more efficient and machines last longer**



**AFTON**

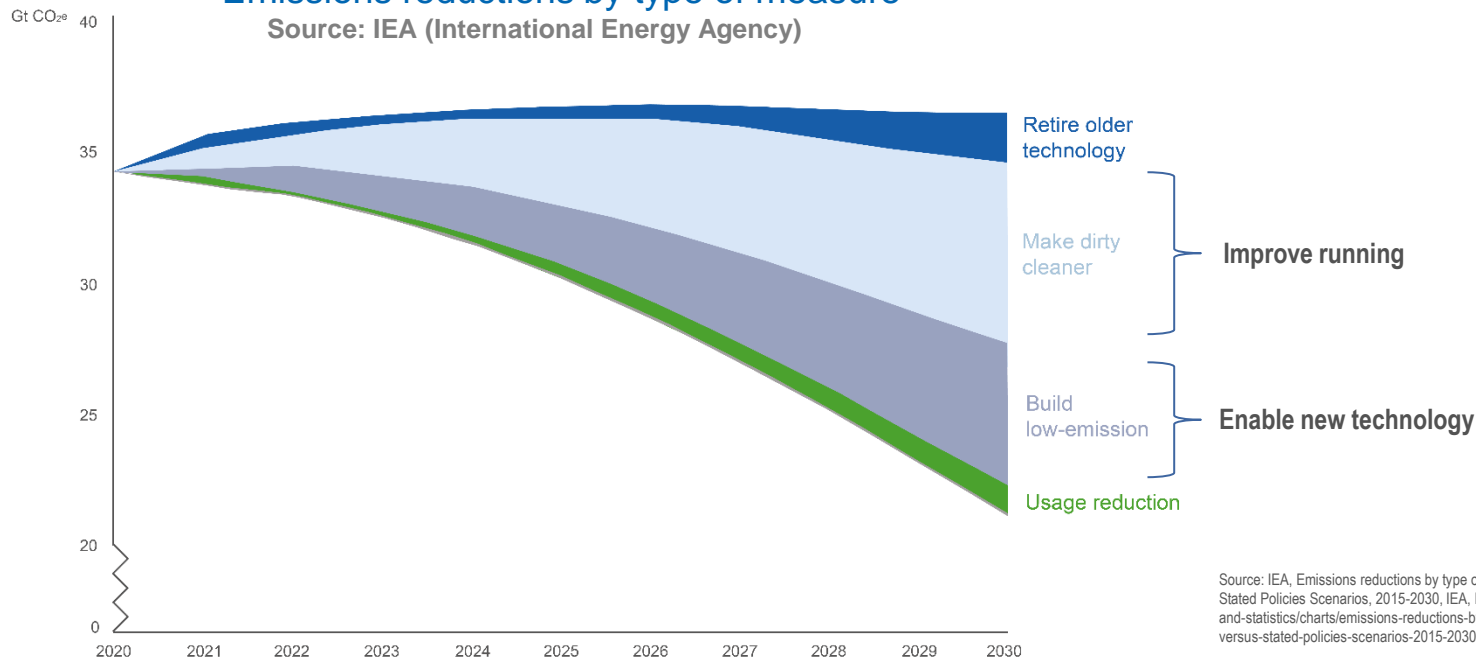
- A **global, independent and focused** supplier of lubricant and fuel additive solutions
- A key player in the industry for **100 years**
- Committed to delivering the **solutions its stakeholders' value**
- Committed to its **future**

# Routes to lower emissions



## Emissions reductions by type of measure

Source: IEA (International Energy Agency)



Source: IEA, Emissions reductions by type of measure in Net Zero versus Stated Policies Scenarios, 2015-2030, IEA, Paris <https://www.iea.org/data-and-statistics/charts/emissions-reductions-by-type-of-measure-in-net-zero-versus-stated-policies-scenarios-2015-2030>, IEA. Licence: CC BY 4.0

Afton deliver greatest impact by delivering solutions to  
**IMPROVE RUNNING AND ENABLE NEW TECHNOLOGY**

# Improved Fuel Economy in On Road Fleets

## Improve Running



OEMs need to **maximise efficiency in every possible way** to meet EU CO2 reduction targets



The move to **low HTHS** engine oils delivers **improvements in fuel economy**



Fuel economy improvement needs to be real, sustained and cost effective to offer **value to fleet owners**

# Reduced Emissions in Off-Road Equipment

Improve Running

THERE FOR THE  
**LONG HAUL**



Off Road Parc in Europe undergoing rapid change with **1 in 5 equipment expected to be Stage V compliant** in 2025



**Reduced SAPS\*** engine oils deliver **compatibility with the aftertreatment devices** introduced to lower emissions



**Durability concerns** from equipment operators and a lack of CO2 reduction targets offer opportunity for **bespoke product offerings**

\* SAPS = Sulphated Ash, Phosphorous and Sulphur

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# Meeting the Lubrication Needs of H2-ICE

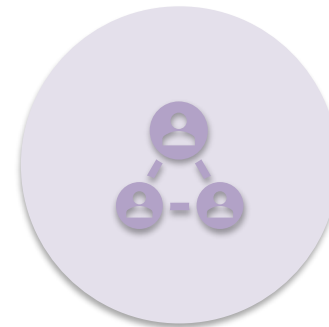
Enabling New Technology



Meeting long term emissions targets requires OEMs to utilise a **mixture of energy sources and propulsion including hydrogen**



Hydrogen represents a step change in combustion and fuel characteristics for ICE, **creating new lubricant needs**



Opportunity for dedicated fluids but decision must be **anchored in end-user needs**

**MANDATORY**