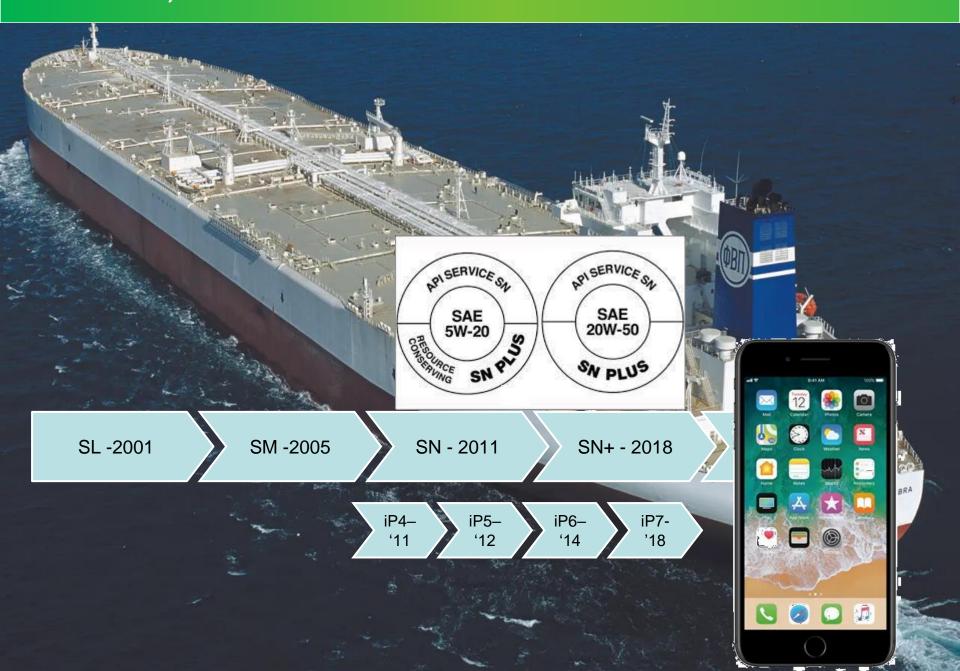




A Panel as Part of the UEIL Virtual Congress 21 October 2021

LIKE A VLCC, THE OIL INDUSTY TAKE A LONG TIME TO TURN

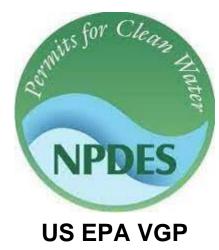


INITIAL MARKETING EFFORTS

Renewable/ Sustainable





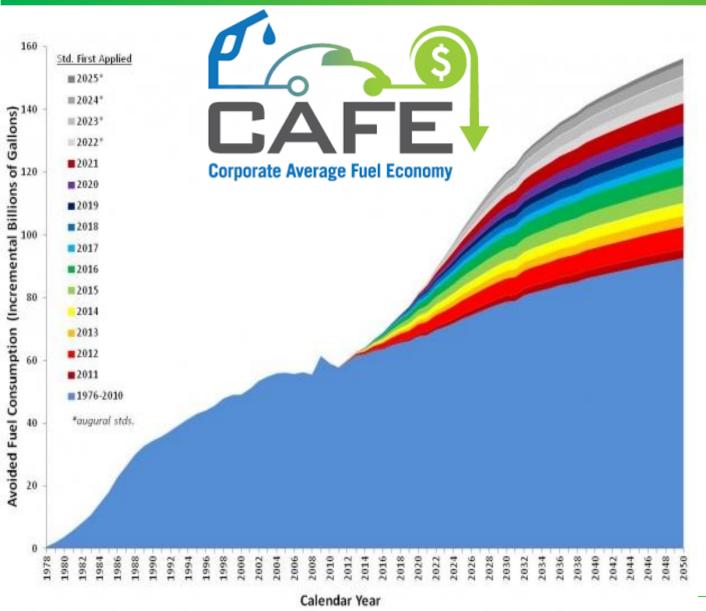


UEIL 2021 Survey – Top Five Drivers for Sustainability Strategy

- 1. Brand image & Strategy
- 2. Company Ethos /Value
- 3. Regulation/ Legislation
- 4. Customer Pressure
- 5. Leadership



SUSTAINABILITY IS NOT A NEW DRIVER



1 gal Gasoline = ~20 lbs. CO2



80 Billion Gal

725 Million MT CO2 Avoided by CAFE Since 1978



SUSTAINABILITY PLUS IMPROVED PERFORMANCE IS KEY



FUCHS to be CO₂ neutral globally by 2020

- 01.09.2020

Pace of corporate carbon goals accelerating despite

LACK OF OPTIONS

in lubricants market

Shell announces largest carbon neutral programme in lubricants industry

TOTAL adopts new climate ambition to get net zero by 2050

OPTIONS SHOULD BE ABOUT PERFORMANCE, **BEFORE COMPOSITION**



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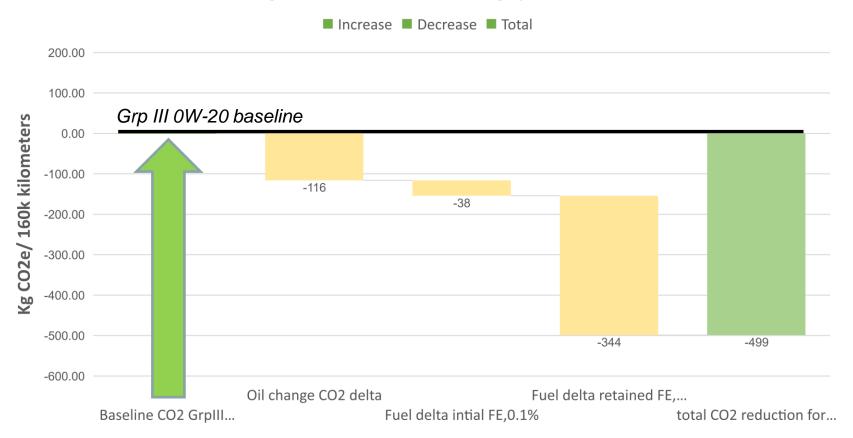
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EXAMPLE: TOP-TIER PERFORMANCE ENABLES SUSTAINABILITY CLAIMS

CO2e Reduction of 0W-20 formulated PCMO with SynNova® vs Grp III in a 0W-20 engine oil, over 160K Miles.

GHG kg CO2e/ 160k kilometers using SynNova 0W-20



- Fuel economy benefits from 100% SynNova are explanatory examples not actual measurements.
- Potential FE benefits of SynNova supported by Mod Seg VII F study in: US20210047577A1 Chevron USA inc.

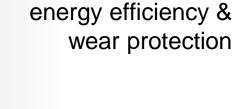




- ☐ Obstacle: Industry Moves Slowly
- ☐ Opportunity: VGP & ECOLABEL leading to changes in strategy and company ethos
- Opportunity: Sustainability has roots in fuel economy
- ☐ Opportunity: Performance leads sustainability
- ☐ Opportunity: Shift focus from composition to performance

KEY OBSTACLE (and opportunity): PERFORMANCE, NOT COMPOSITION

stability in extreme conditions



environmentally acceptable lubricants







SynNova® SSBO FUTURE PROOFS

your business today

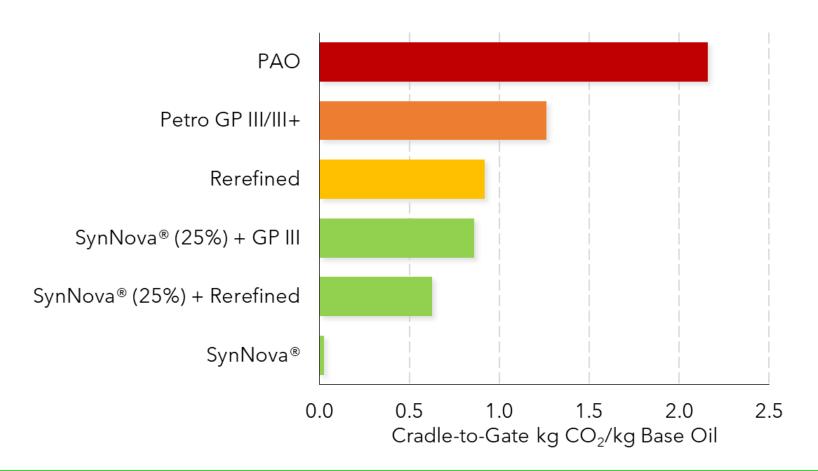
... a sustainable alternative, without compromise



NOVVI IS OFFERING A SOLUTION WITH ITS TECHNOLOGIES

Novvi Brings The Only Carbon Neutral Engine Oil Solution

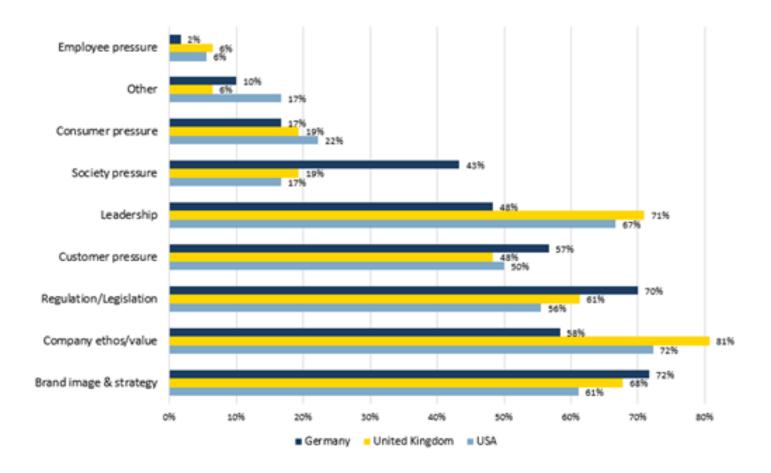
CO2 Emissions for Fully Formulated 0W-20 Engine
Oils Using Same Additive Package and Treat





Appendix- Sourced from UEIL 2021 Sustainability Survey

What were or could be the drivers for implementing a sustainability strategy in your organization? (select max. five)





Draft Agenda

- Lubricants industry is slow to change as a default -using any API Engine Oil category upgrade as an example In early go-to-market efforts by Novvi focused on sustainable/renewable, customers often answered 'if more expensive, we will wait for the regulations'
- Exceptions were US EPA VGP, EU ECOLABEL and other similar schemes across the EU

 For the last 25+ years CAFE better FE is really lower carbon footprint has driven lube industry change and again that pace is glacial
- Now, latest products have superior performance plus sustainability claims; at the same time that sustainability has become much more central to businesses globally
 - So it is not the regulatory environment, per se, that is drive all of the change but public pressures plus legislators and regulators
- So now, the key to 'bio-base lubricants', is to stop thinking about composition and start thinking about what they can do for your business
 - The important work now is finding the products and applications where value of the new base oils are can be unlocked

