

BOS

Briefing Session



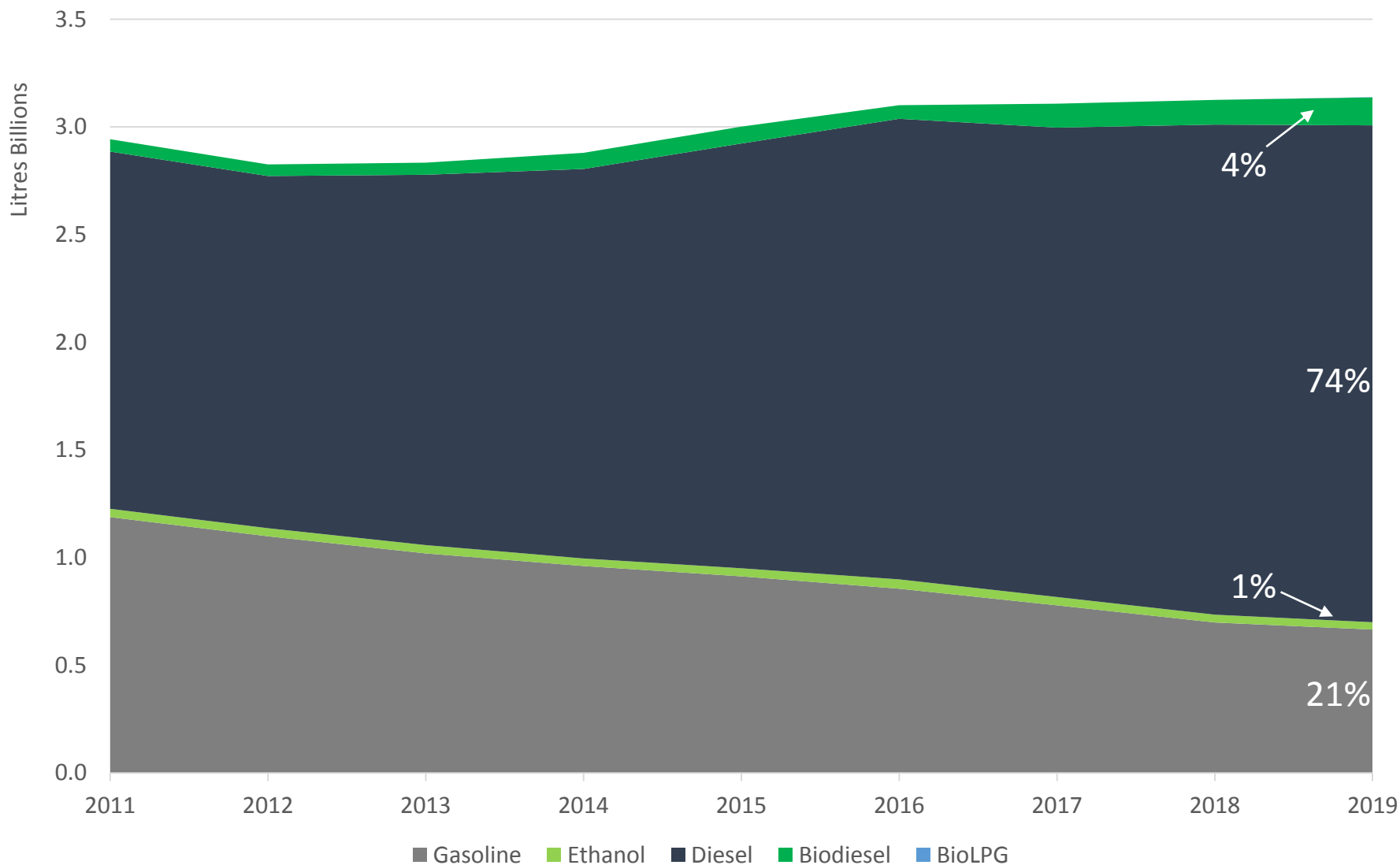
23rd Oct 2019

AGENDA

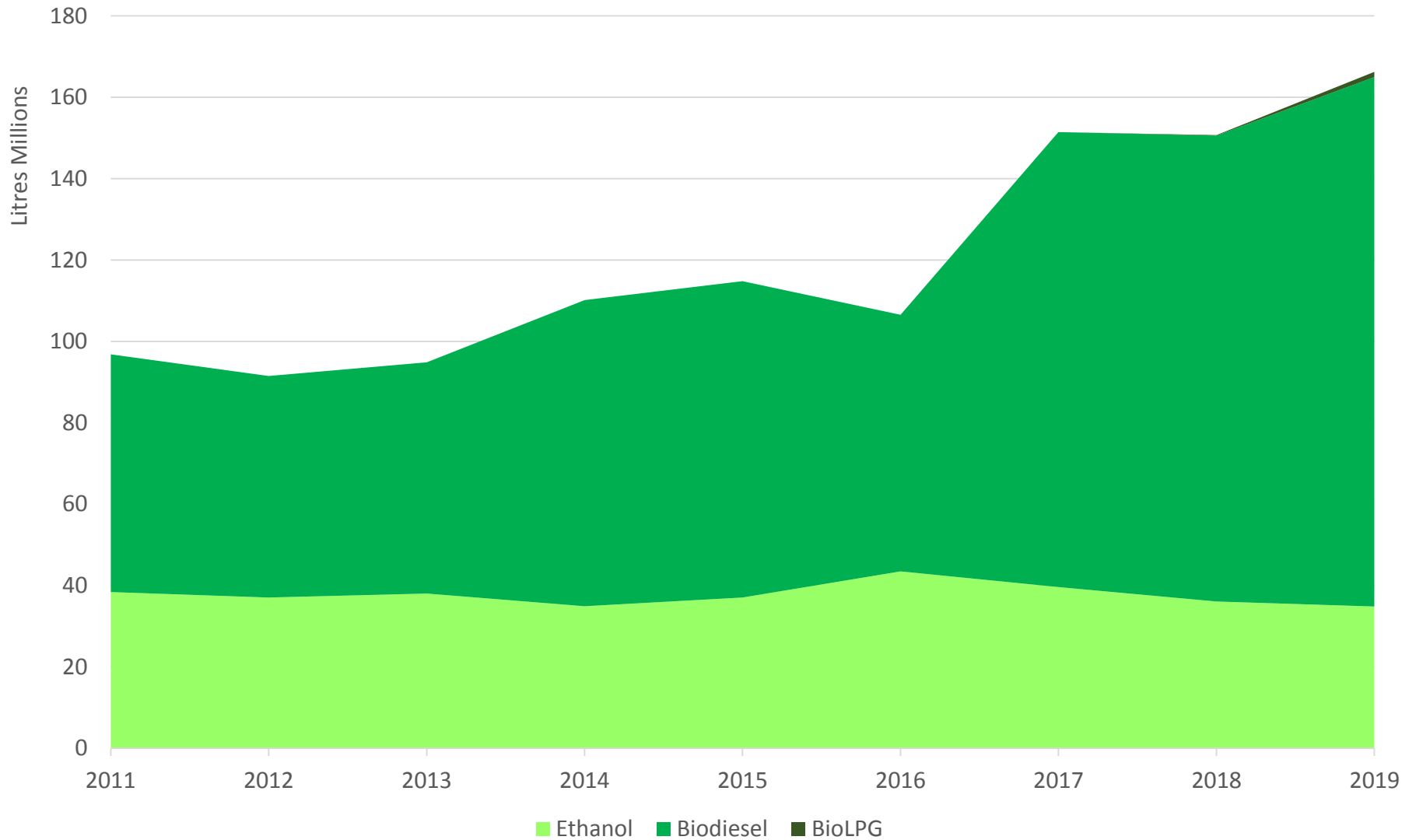
- BOS statistics 2019
- Inaccurate proofs of sustainability
- Compliance with SI 160 – begins in January 2020
- Additional fuels
- Claiming carbon savings from electricity
- EU Database
- DCCAE consultation



STATS – FIRST 8 MONTHS



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STATS – FIRST 8 MONTHS

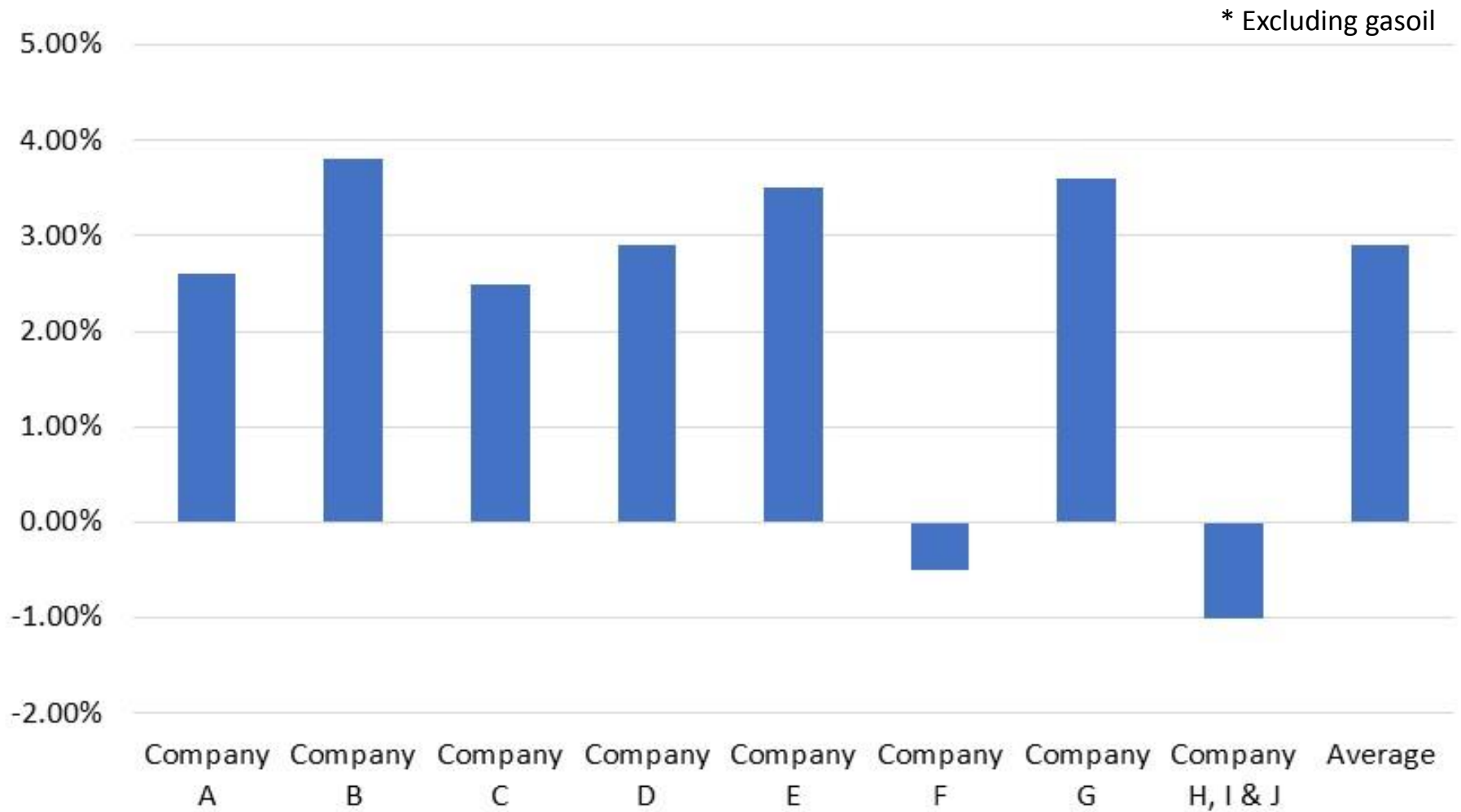
- Biofuel 5.3% - increase on 2018 (↑ 16m litres)
- Ethanol 5% - same as 2018 (↓1m litres)
- Biodiesel 5.3% - 0.5pp increase on 2018 (↑15m litres)

- Gasoline 21% - down by 1pp (↓ 33m litres)
- Diesel 74% - up by 0.8pp (↑ 31m litres)

STATS

Month	% Bioethanol, by volume	% Biodiesel, by volume	% Biofuel, by Volume	% Biofuel, by Cert, inc. carried forward*
Jan	 5.1	 4.2	 4.4	 9.8
Feb	 5.4	 5.0	 5.1	 11.3
Mar	 5.1	 5.2	 5.2	 11.4
Apr	 5.1	 4.2	 4.4	 9.7
May	 5.2	 5.3	 5.2	 11.4
June	 5.1	 6.2	 5.9	 13.1
Jul	 5.1	 6.2	 6.0	 13.1
Aug	 5.1	 6.3	 6.0	 13.3
Sept				
Oct				
Nov				
Dec				
Average	 5.1	 5.3	 5.3	 11.6

SI 160 STATS – FIRST 6 MONTHS



PROOFS OF SUSTAINABILITY

- Errors & low carbon intensity values – be careful!

1. General information	
Type of Product:	Biodiesel
Type of Raw Material	Used cooking oil (UCO)
Additional Information (voluntary):	
Country of Origin (of the raw material):	AR 45.88%, CL 32.36%, FR 11.65%, SG 6.33%, GB 3.78%
Quantity:	1.753 m3/15°C <input checked="" type="checkbox"/> m ³ <input type="checkbox"/> metric tons
Energy content (MJ):	57,849 MJ

2. Sustainability criteria of the biomass according to Article 17 RED:	
The material complies with the sustainability criteria according to Art. 17 (3), (4) and (5) RED ¹⁾	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
The sustainability criteria according to Art. 17 (3), (4) and (5) RED were not taken into account ²⁾	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3. Greenhouse Gas (GHG) information	
Total default value according to RED applied	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E = Total GHG emissions from supply and use of the fuel (gCO ₂ eq/MJ)	6.5 gCO ₂ eq/MJ
GHG emission saving ³⁾ :	
92.2% (for biofuels 83,8 gCO ₂ eq/MJ)	91.6% (for heat production 77 gCO ₂ eq/MJ)
92.9% (for electricity production 91 gCO ₂ eq/MJ)	92.4% (for cogeneration 85 gCO ₂ eq/MJ)
The installation where the final biofuel or bioliquid was produced started physical production of biofuels or bioliquids after 5 October 2015 ⁴⁾	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

This form is valid without signature. By issuing this PoS, the issuing party guarantees that all information made on this Proof of Sustainability are correct, in compliance with the requirements of ISCC and the RED, and that the biofuel or bioliquid has not already been used to fulfil a national quota obligation.

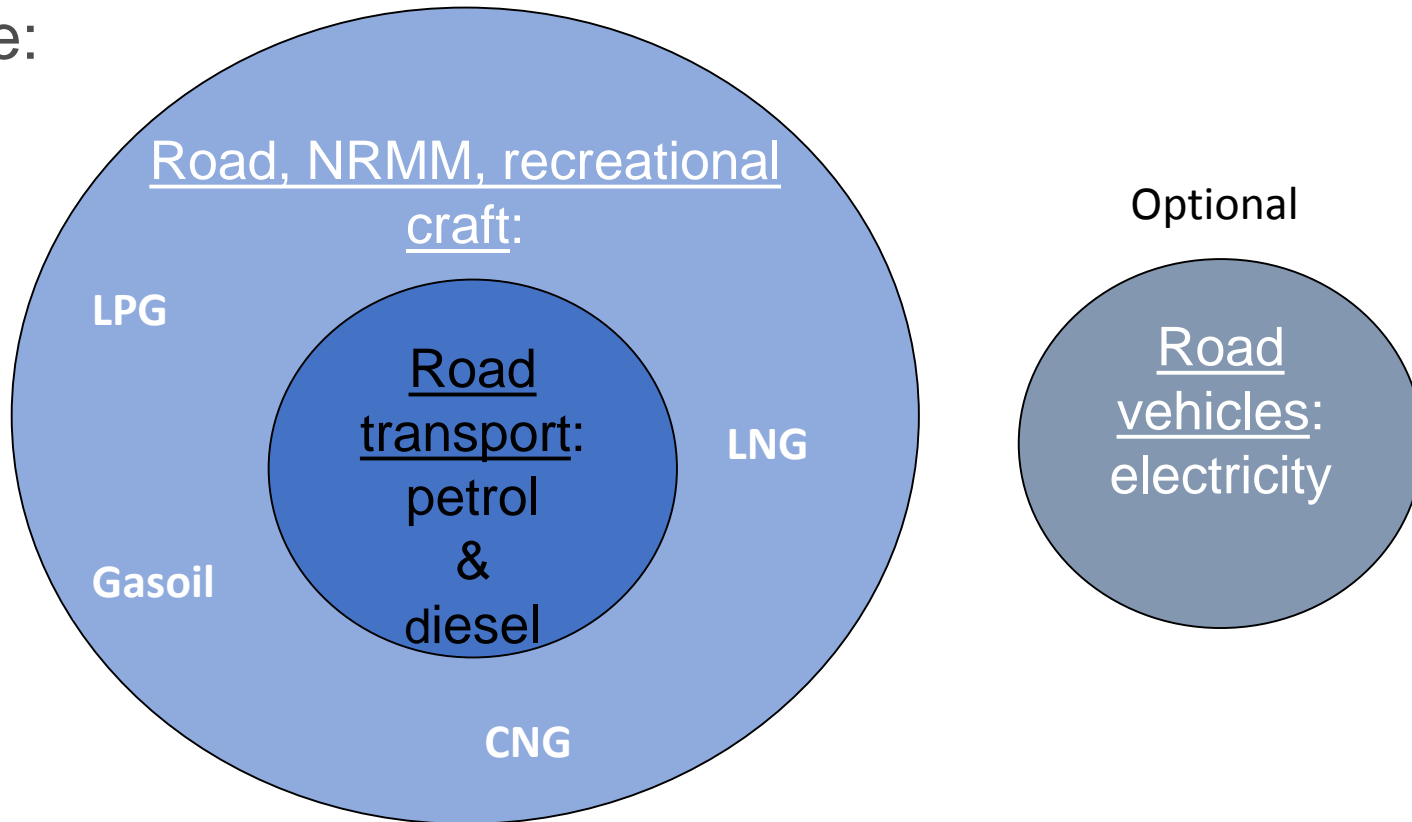
PROOFS OF SUSTAINABILITY

- Errors & low carbon intensity values – be careful!

1. General information	
Type of Product:	Biodiesel
Type of Raw Material	Palm oil mill effluent (POME)
Additional Information (voluntary):	
Country of Origin (of the raw material):	Indonesia
Quantity:	483.069 m ³ /15°C <input checked="" type="checkbox"/> m ³ <input type="checkbox"/> metric tons
Energy content (MJ):	15,941,277 MJ
2. Sustainability criteria of the biomass according to Article 17 RED:	
The material complies with the sustainability criteria according to Art. 17 (3), (4) and (5) RED ¹⁾	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
The sustainability criteria according to Art. 17 (3), (4) and (5) RED were not taken into account ²⁾	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Greenhouse Gas (GHG) information	
Total default value according to RED applied	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
$E = E_{ec} + E_l + E_p + E_{td} + E_u - E_{sca} - E_{ccs} - E_{ccr} - E_{ee} = 12.384$	
GHG emission saving ³⁾ : 85.2% (for biofuels 83,8 gCO ₂ eq/MJ) 83.9% (for heat production 77 gCO ₂ eq/MJ) 86.4% (for electricity production 91 gCO ₂ eq/MJ) 85.4% (for cogeneration 85 gCO ₂ eq/MJ)	
The installation where the final biofuel or bioliquid was produced started physical production of biofuels or bioliquids after 5 October 2015 ⁴⁾	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
This form is valid without signature. By issuing this PoS, the issuing party guarantees that all information made on this Proof of Sustainability are correct, in compliance with the requirements of ISCC and the RED, and that the biofuel or bioliquid has not already been used to fulfil a national quota obligation.	

SI 160 (FQD)

- Reduce carbon intensity of transport fuels by 6%
- Scope:



SI 160

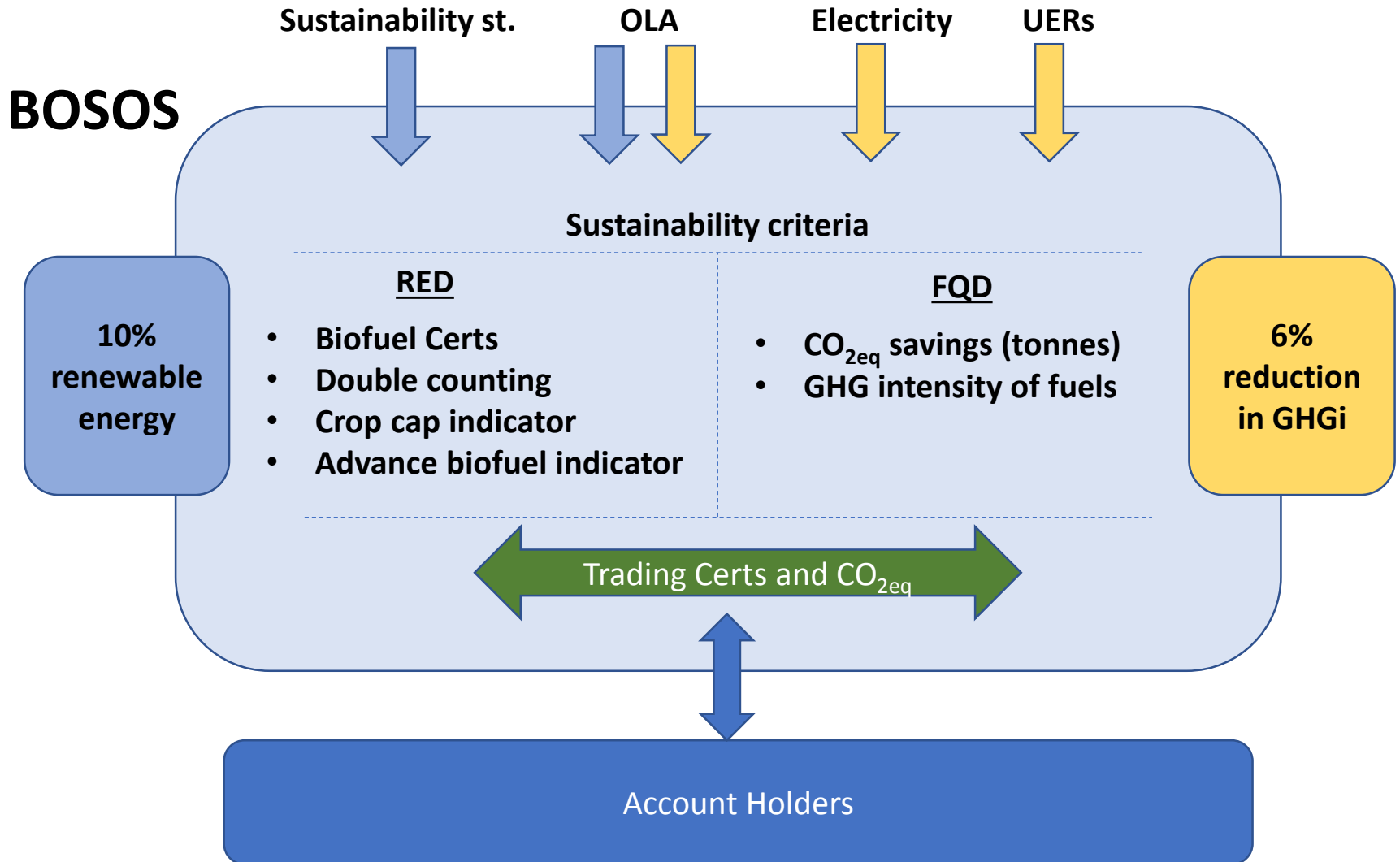
- Fuel Baseline standard = 94.1 gCO_{2eq}/MJ
- GHG intensity target for each supplier in 2020 = 88.5 gCO_{2eq}/MJ (6% reduction)
- Generate carbon savings by placing lower carbon intensity fuels on the transport market

Fuel	gCO _{2eq} /MJ
Biodiesel	12
Bioethanol	30
LPG	73.6
CNG	69.3

SI 160

- Also generate carbon savings from:
 - Upstream Emission Reductions (UERs)
 - Electricity consumed in road vehicles
- Comply by 2020
- Tracking petrol / diesel / biofuels since 2018
- LPG for transport now being reported
- Gasoil for transport now being reported (estimates)
- Facility for reporting CNG

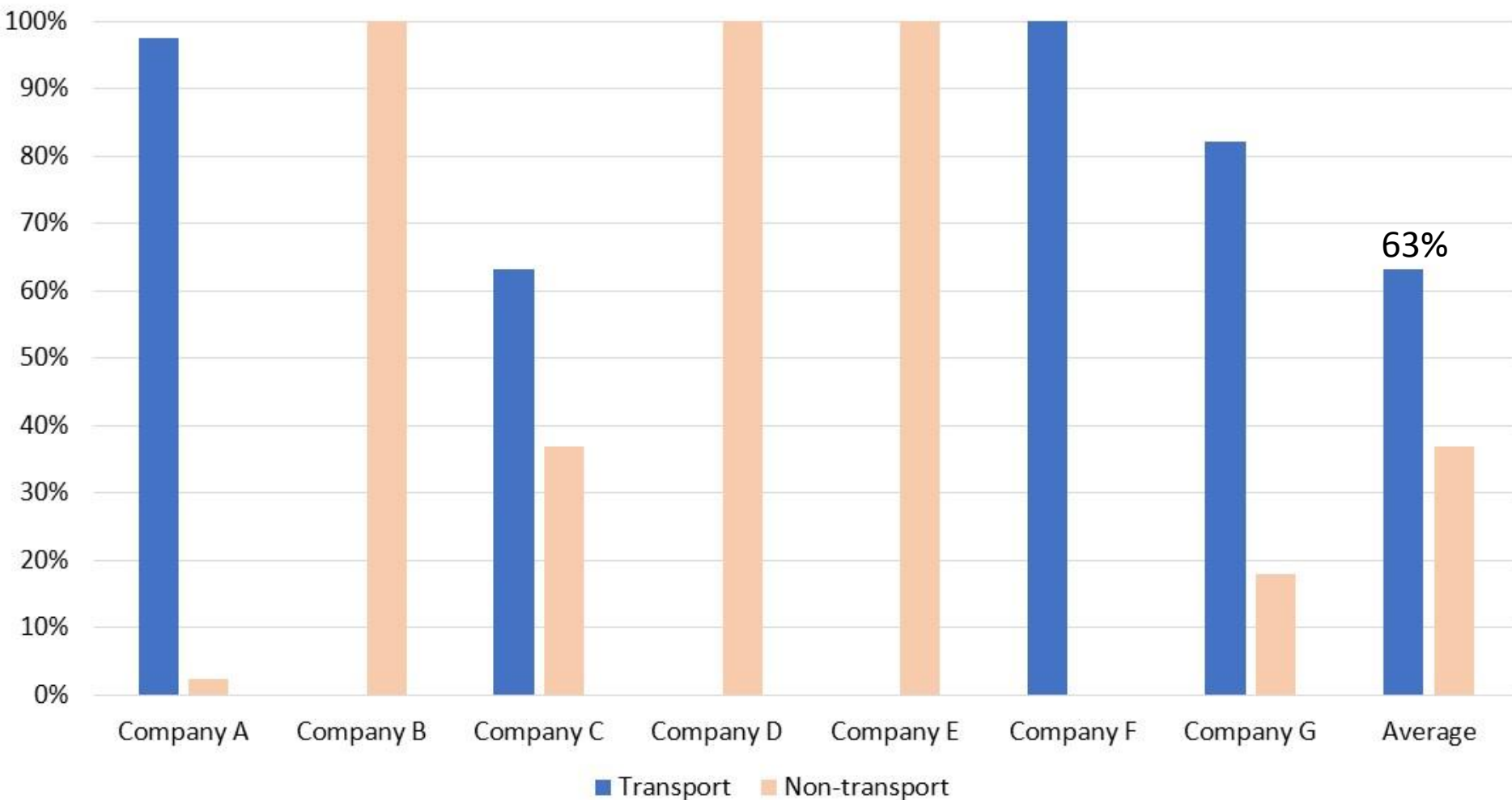
IMPLEMENTATION



ADDITIONAL FUELS (SI 160)

- Gasoil NRMM
 - Gasoil transport / gasoil non-transport
 - Litres
- CNG – transport
 - Volume (m³)
- LPG
 - LPG transport / LPG non-transport
 - Volume (litres @ 7 bar)

GASOIL – TRANSPORT



GASOIL – TRANSPORT

- Gasoil 150m litres (June, July and August)
- Gasoline 255m litres, diesel 864m litres

	Carbon intensity (gCO _{2eq} /MJ)	Example 1 (litres)	Example 2 (litres)
Diesel	95.1	93.5	93.5
Biodiesel	12	6.5	6.5
Gasoline	93.3	27	27
Bioethanol	30	1.4	1.4
Gasoil	95.1	0	16
CI Saving		4.0%	3.4%

SHORTFALL

- 2% shortfall equates to approx.:
 - 314kt CO₂
 - 116m litres biodiesel
 - 233m litres bioethanol
- 2.6% shortfall equates to approx.:
 - 454kt CO₂
 - 167m litres biodiesel
 - 337m litres bioethanol
- Achieve 1 tonne CO_{2eq} savings with:
 - 1,900 litres LPG
 - 1,100 Nm³ CNG
 - 370 litres biodiesel
 - 750 litres bioethanol

CARBON SAVINGS FROM ELECTRICITY

- Elec consumed (actual or estimated)
- GHG emission factor
- Verification report to demonstrate adequate measurement and monitoring

Electricity carbon savings application

1. Please select the month and year for which you wish to apply for carbon savings arising from electricity used in vehicles and motorcycles.

Month * Year

2. Please enter the quantity of electricity consumed by vehicles and motorcycles during the application period and whether it is actual or estimated.

Electricity consumed (MJ) * Estimated or Actual

3. Please enter the GHG emission factor you wish to use. This may be a calculated value or default value (as published by the Commission for Regulation of Utilities)

Default or Calculated * Emission factor (gCO_{2eq}/MJ)

Carbon Savings - Based on the above data, your company is eligible to apply for the following quantity of carbon savings

Carbon savings (tCO_{2eq})
0.00

Name of Verifier

4. Please upload the independent verification report (in PDF format).

Upload the verification assurance report. This file must be in PDF format.

No file chosen

5. Please complete the mandatory declaration.

We hereby declare that

EU DATABASE

- Fuel suppliers required to use – RED II, Articles 28 (2) & (4)
- Applies to renewable fuels contributing to target
- Enter info on:
 - Transactions made
 - Sustainability characteristics
- Member States required to ensure accurate info is entered



NEXT UP

