

5th ISCC Global Sustainability Conference

Implications for Credible GHG Certification

Brussels, February 4, 2015

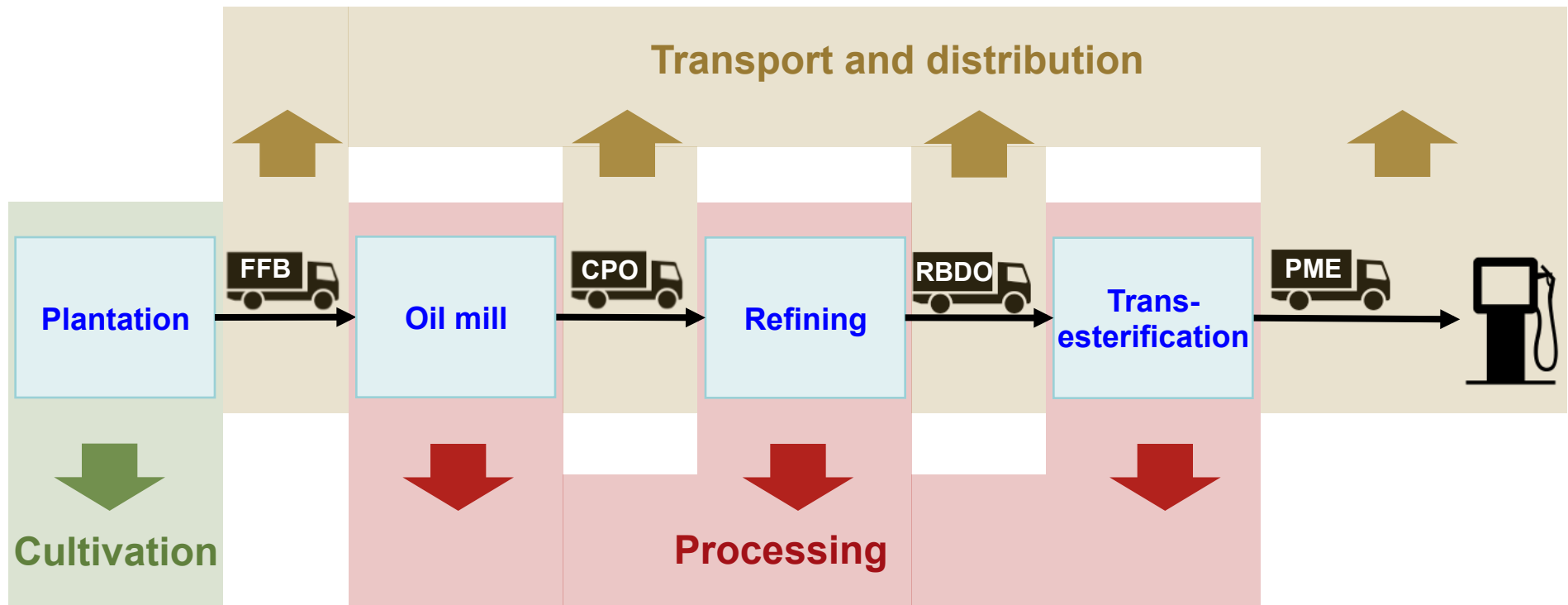
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The political promotion of biofuels is increasingly based on their individual GHG performance. Credible GHG certification becomes crucial

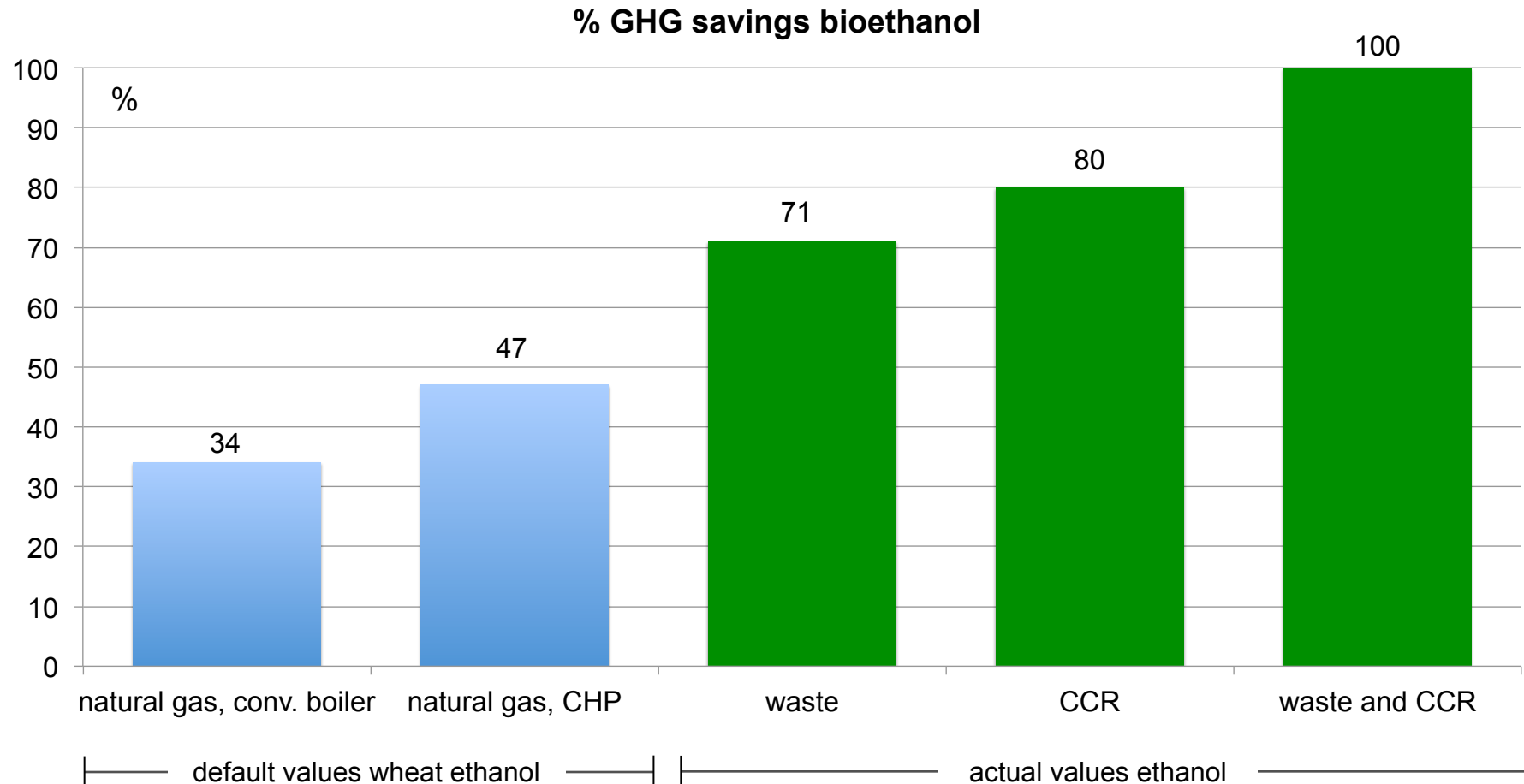
Changing policy framework:

- Increasing minimum GHG saving thresholds
 - GHG quotas
 - Increased focus on waste and residue based biofuels
 - Low/ no iLUC biofuels
- ➔ How to guarantee via credible certification that “real” GHG emission savings are achieved and that GHG targets are not only fulfilled on paper?

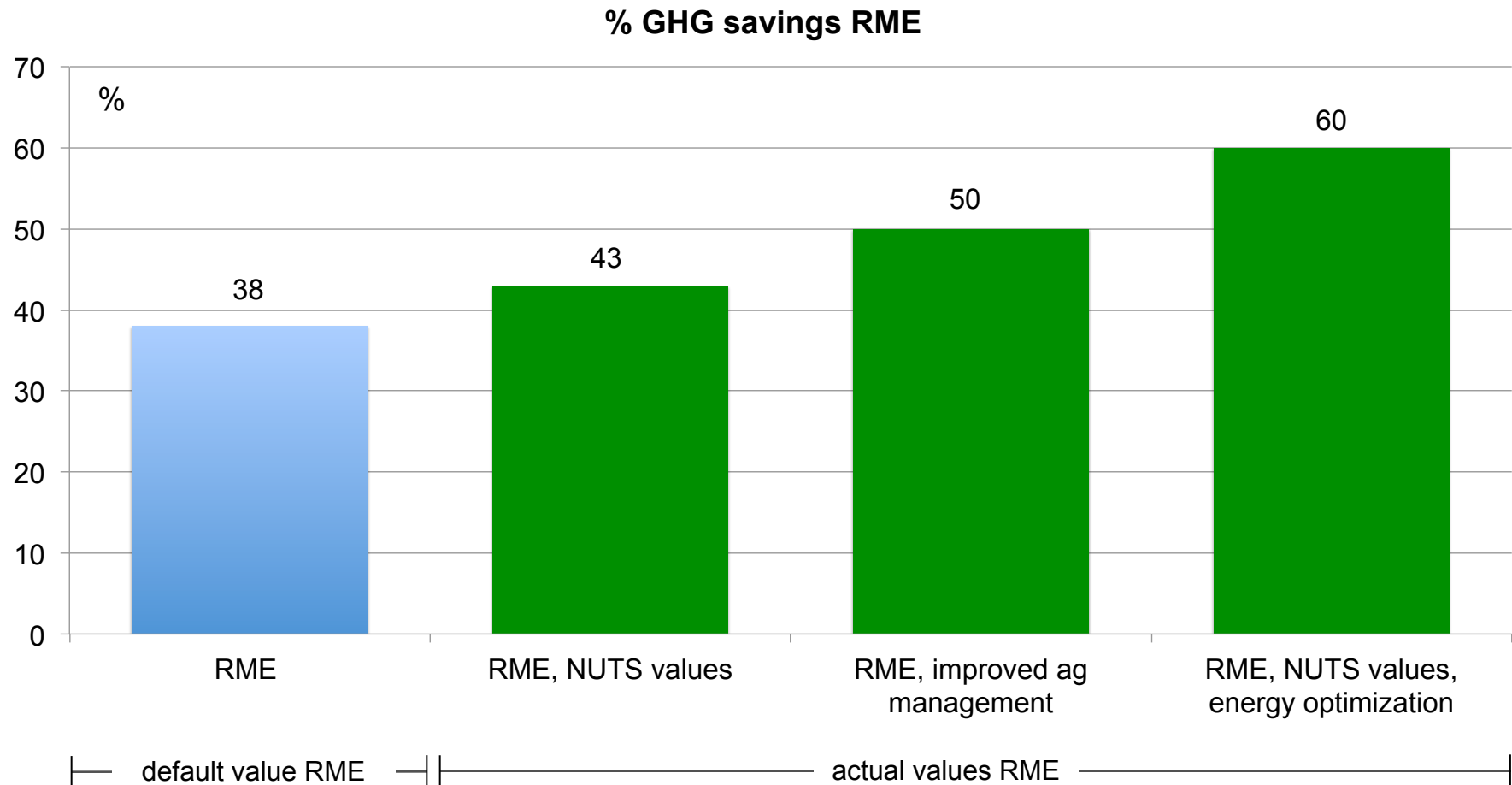
GHG certification in practice: Each element in the supply chain can calculate actual values. These must always be certified



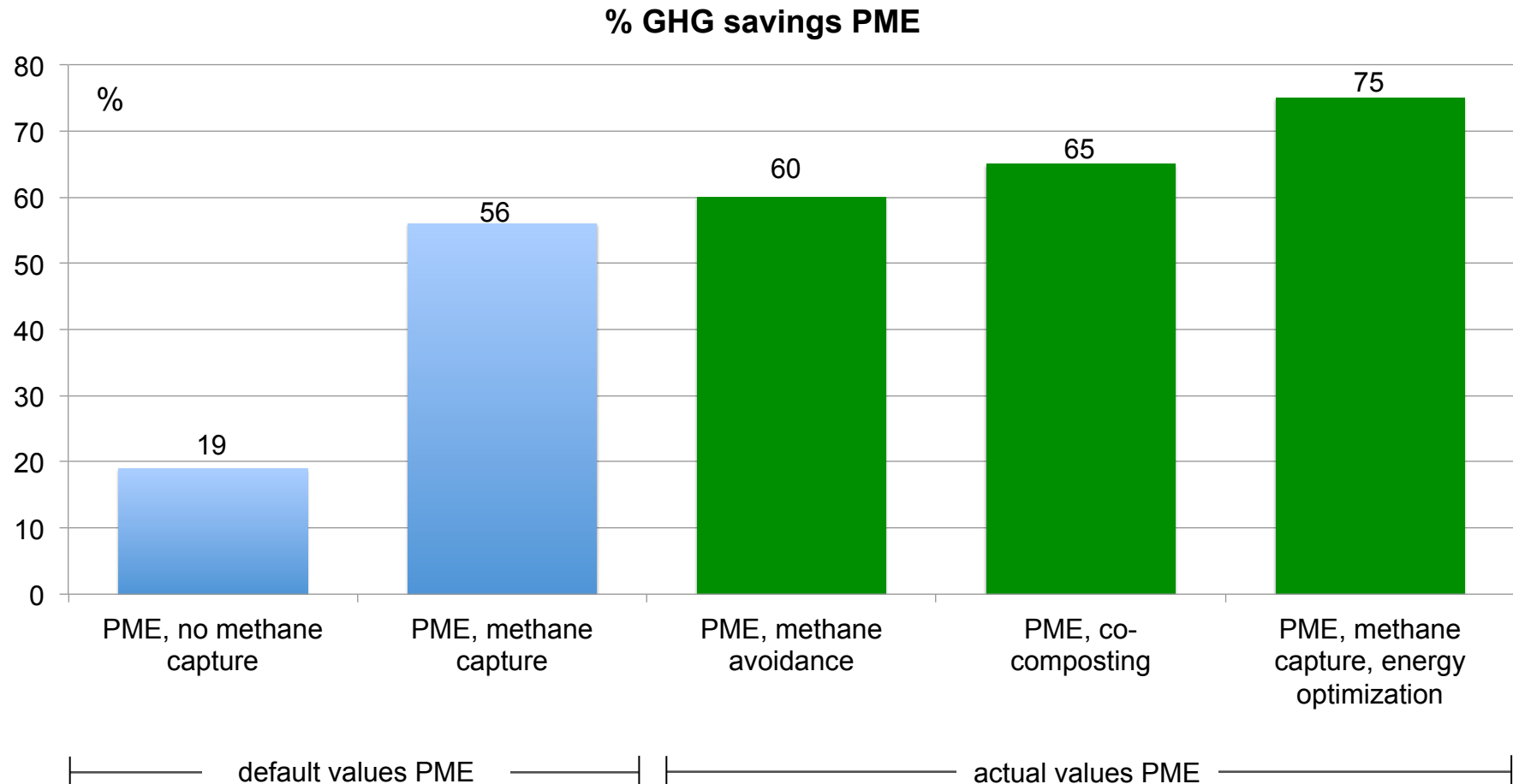
Considerable GHG savings can be achieved – Actual GHG calculations for bioethanol – examples



Actual GHG calculations for RME – examples



Actual GHG calculations for PME – examples



The existing certification set up is not always sufficient yet to deal with the increased importance of GHG calculations

- GHG issues were not a core topic of the EC recognition process
- In the past: Mainly use of default values and grandfathering clause
- Today: Due to GHG quota in Germany increased number of individual calculations
- Missing definitions and methodology leave room for interpretation, e.g.
 - Carbon capture and replacement
 - Improved agricultural management
 - Emission factors electricity
 - NUTS reports
 - Wastes and residues

In light of the decarbonization policies further efforts are required

Certification schemes

- Consider GHG values in risk analysis and integrity program
- Improve GHG procedures
- Review incoming GHG data
- Specify rules for forwarding GHG information
- Set up GHG training

Certification bodies

- Increase focus on GHG audit and verification
- Coordinate with schemes
- Qualify GHG experts
- Verify GHG calculations ex-ante

Authorities

- Analyze first experience
- Clarify methodology
- Derive consistent requirements for all schemes and CBs
- Create a level playing field and sanction mechanisms

With thorough implementation, the new policies can be an efficient instrument and can set an example for other markets

Examples of ISCC measures for credible and secure GHG certification

GHG Trainings

ISCC Greenhouse Gas (GHG) Training

Important note: This ISCC training DOES NOT replace the participation in a 3-day ISCC Basic Training for auditors, which is a mandatory requirement prior to conducting ISCC audits.

The fifth ISCC Greenhouse Gas (GHG) Training will take place from 09 to 10 June 2015 in Cologne, Germany.

Further information will be announced shortly.

[The agenda of the fourth ISCC GHG Training can be found here.](#)

The fourth ISCC Greenhouse Gas Training took place in Kuala Lumpur on 16 and 17 October 2014. The training was fully booked which underlined the relevance of the topic.

[Further information and the agenda of the GHG Training](#)

GHG updates

ISCC system updates

Please find here the e-mail communication of ISCC to the members, CB's and system users of ISCC. This communication contains urgent information on concretion of the BioKraft-NachV, as well as examples and changes (updates) of the system. Changes which are not yet documented in the procedures and other ISCC documents are a valid part of the ISCC system and must be considered during certification.

11 December 2014
Regulatory changes in Germany: introduction of a GHG reduction quota in Germany and implications for system users of ISCC DE / 36th BImSchV; Updated ISCC documents; ISCC PLUS 202-01 Guidance Document and procedure documents; GHG calculation: use of design data; adjustments in the Nabisy database

29 September 2014
Updated disaggregated default values, Use of NUTS2 values, Change of GHG values during validity period of certificate, Mistakes in individual GHG calculation

09 September 2014

List of materials for EU and PLUS

ISCC EU - list of materials eligible for certification

Please be aware that ISCC certification covers all types of biomass. Therefore, the lists are not concluding but aim for harmonization of the description of material under ISCC EU. Sustainable material may be declared more specifically on sustainability declarations, delivery documents or Proofs of Sustainability. For amendments of the lists (e.g. to add an additional raw material / feedstock) please contact ISCC.

It is not the purpose of the list of raw material / feedstock to classify material as waste/residue or as being eligible for double-counting. The list of raw material / feedstock indicates materials which currently might be certified under the ISCC EU waste and residue certification process (in the following referred to as ISCC EU w/r process). As of September 2014, ISCC has included available information e.g. from EU Member State positive lists classifying material as waste/residue.

ISCC does not guarantee completeness, correctness and timeliness of the information regarding waste/residue classification. ISCC does not guarantee acceptance of waste/residue based products by the competent EU Member State authorities. Auditors and system users are obliged to investigate and research the eligibility of material in the targeted EU Member State. Acceptance of a final product (e.g. biofuel), where the feedstock has been certified according to the ISCC EU w/r process, is the decision of the EU Member State authorities where the final product comes to the market.

[Download ISCC EU list of materials \(as of 19 December 2014\)](#)

Disaggregated default values

Tables of disaggregated default values for agricultural production, oil mills and refineries (as of 29 September 2014)

Table 1: Disaggregated default values for agricultural production (incl. drying, handling and storage) in kg CO₂equivalent emissions per ton of crop

Crop	GHG emissions (kg CO ₂ eq per ton of crop)
Rape seed, Canola	674.41 kg CO ₂ eq/t rape seed
Sunflower	412.52 kg CO ₂ eq/t sunflower
Soybean	365.27 kg CO ₂ eq/t soybean

New procedures for EU and PLUS

ISCC EU Audit Procedures	Conversion unit	Template No. 1:	Basic data
1 Company name			
2 Address of the operational unit			
3 Country			
4 Geo coordinates (voluntary)			
5 ISCC registration number	(if required prior to the audit; otherwise, the audit cannot be carried out)		
6 Type of operational unit	(e.g. oil mill, ethanol plant, biodiesel plant)		
7 Production capacity for all main products (livestock and non-past)	(in metric tons per calendar year)		
8 Type of sustainable raw materials			
9 Type of sustainable products			
10 Risk level	(low, medium, high)		
11 Other sustainability certification systems used (parallel to ISCC audit during the previous 12 months)	Yes <input type="checkbox"/> No <input type="checkbox"/> Specify (name of system)		
12 Individual calculation of GHG emissions	Yes <input type="checkbox"/> No <input type="checkbox"/> (see if (dis)aggregated; default values for GHG emissions)		
13 In case of individual calculation of own processing emissions	Emissions from processing: _____ kg CO ₂ eq per ton main product		
14 Recertification	Yes <input type="checkbox"/> No <input type="checkbox"/>		

List of NUTS values

Country	NUTS 2 region Code	NUTS 2 region Name	Crop	NUTS2 value g CO ₂ e/MJ biofuel	NUTS2 value kg CO ₂ e/t crop
Austria	AT12	Niederösterreich	Rapeseed	19.6	459.8
Austria	AT13	Wien	Rapeseed	19.6	459.8
Austria	AT11	Burgenland	Rapeseed	19.38	454.2
Austria	AT31	Oberösterreich	Rapeseed	20.25	475.0
Austria	AT22	Steiermark	Rapeseed	20.71	485.8
Austria	AT21	Kärnten	Rapeseed	23.38	545.5
Austria	AT32	Salzburg	Rapeseed	21.41	502.2
Austria	AT12	Niederösterreich	Sunflower	10.78	252.4
Austria	AT13	Wien	Sunflower	11.67	273.8
Austria	AT11	Burgenland	Sunflower	12.14	284.8
Austria	AT31	Oberösterreich	Sunflower	13.07	306.6
Austria	AT22	Steiermark	Sunflower	12.8	300.3
Austria	AT21	Kärnten	Sunflower	13.22	310.1
Austria	AT32	Salzburg	Sunflower	13.83	324.4
Austria	AT34	Vorarlberg	Sunflower	13.22	310.1
Austria	AT12	Niederösterreich	Soybean	10.52	237.7
Austria	AT13	Wien	Soybean	12.05	287.9
Austria	AT11	Burgenland	Soybean	9.99	197.3
Austria	AT31	Oberösterreich	Soybean	9.78	193.1
Austria	AT22	Steiermark	Soybean	10.14	230.2

**Thank you for your
attention!**