



Rialtas na hÉireann
Government of Ireland

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Sustainability Criteria SSRH

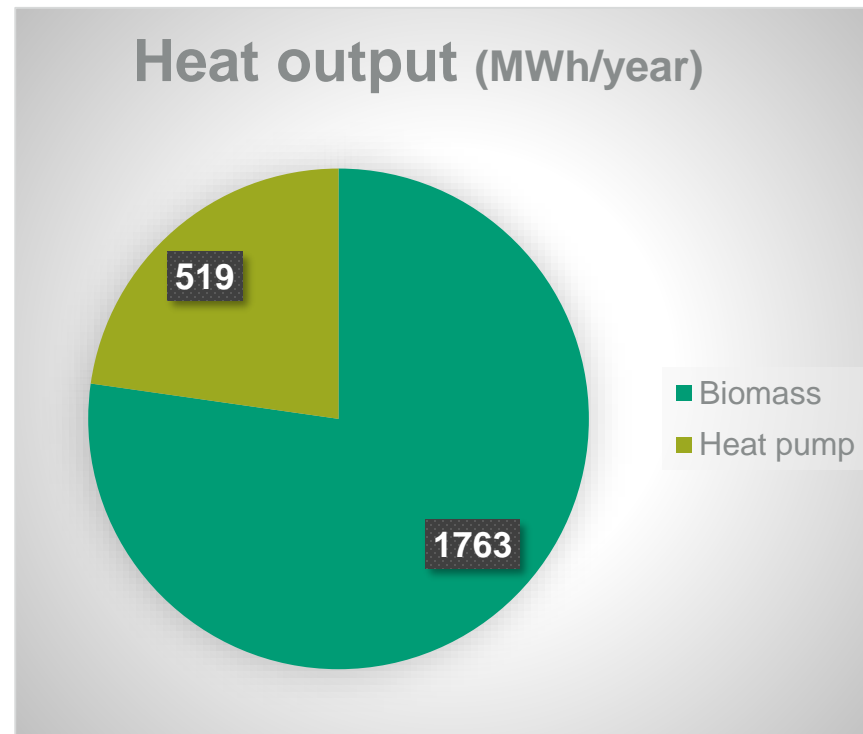
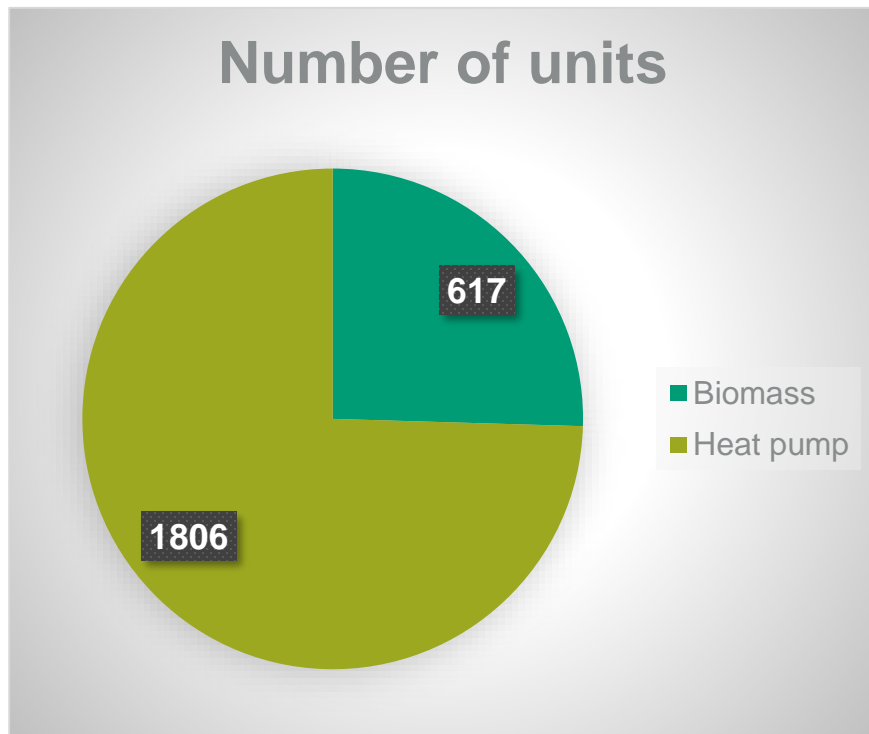
Denis Neary
Irbea Conference Croke Park
13th February 2019

Topics Covered Today

- Sustainable fuel criteria for participants of the SSRH
- Percentage Green House Gas Reduction Calculations
- Self Supply Requirements

What is the support scheme for renewable heat?

- A hybrid scheme with a capital budget for 2019 of €5 million
 - Operational aid (ongoing quarterly payments for 15 years) for Biomass & AD based boilers and CHP units.
 - Investment aid (grant) for heat pumps
- Targeting an increase in renewable heat ~ 3% points; costing ~300 million over life of scheme



BOC/ECOFYS Report on the Key Principles for Sustainability of Solid and Gaseous Biomass.



The image shows the cover of a report titled "BIOMASS SUSTAINABILITY IN IRELAND". The cover has a green and grey diagonal design. The text on the cover includes: "BIOMASS SUSTAINABILITY IN IRELAND", "PHASE III: KEY PRINCIPLES FOR SUSTAINABILITY OF SOLID AND GASEOUS BIOMASS", and "REF: 533-X0072". Logos for "BYRNE ENGINEERS & CONSULTANTS Ó CLÉIRIGH" and "ECOFYS A Navigant Company" are also present.

BIOMASS SUSTAINABILITY IN IRELAND

PHASE III: KEY PRINCIPLES FOR SUSTAINABILITY OF SOLID AND GASEOUS BIOMASS

REF: 533-X0072

BYRNE ENGINEERS & CONSULTANTS Ó CLÉIRIGH

ECOFYS
A Navigant Company

SSRH Sustainability Requirements are based on REDII, and the BOC/ECOFYS report supports those conclusions.

Achieving Sustainable Heat in the SSRH

Why the relationship between SSRH requirements
(right now)

and

REDII sustainability requirements (2021)?

Sustainability is a core principle in the SSRH

- Sustainability criteria set out in the Terms & Conditions
 - Design stage obligations
 - Ongoing obligations

Based on

- REDII sustainability requirements
- Agriculture & Forestry regulation

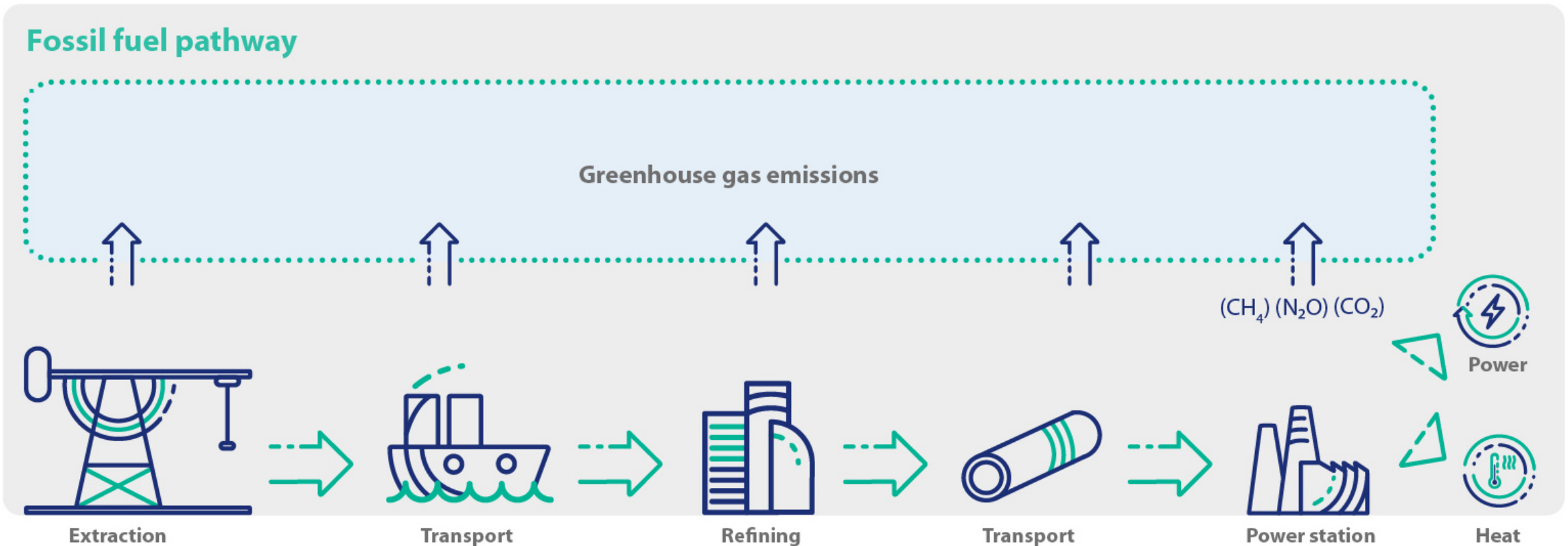
REDII Requirements

Heat and power <70% GHG in 2021 v fossil fuel comparator for biomass in heat and elec. From 2025 limit increases to 80%

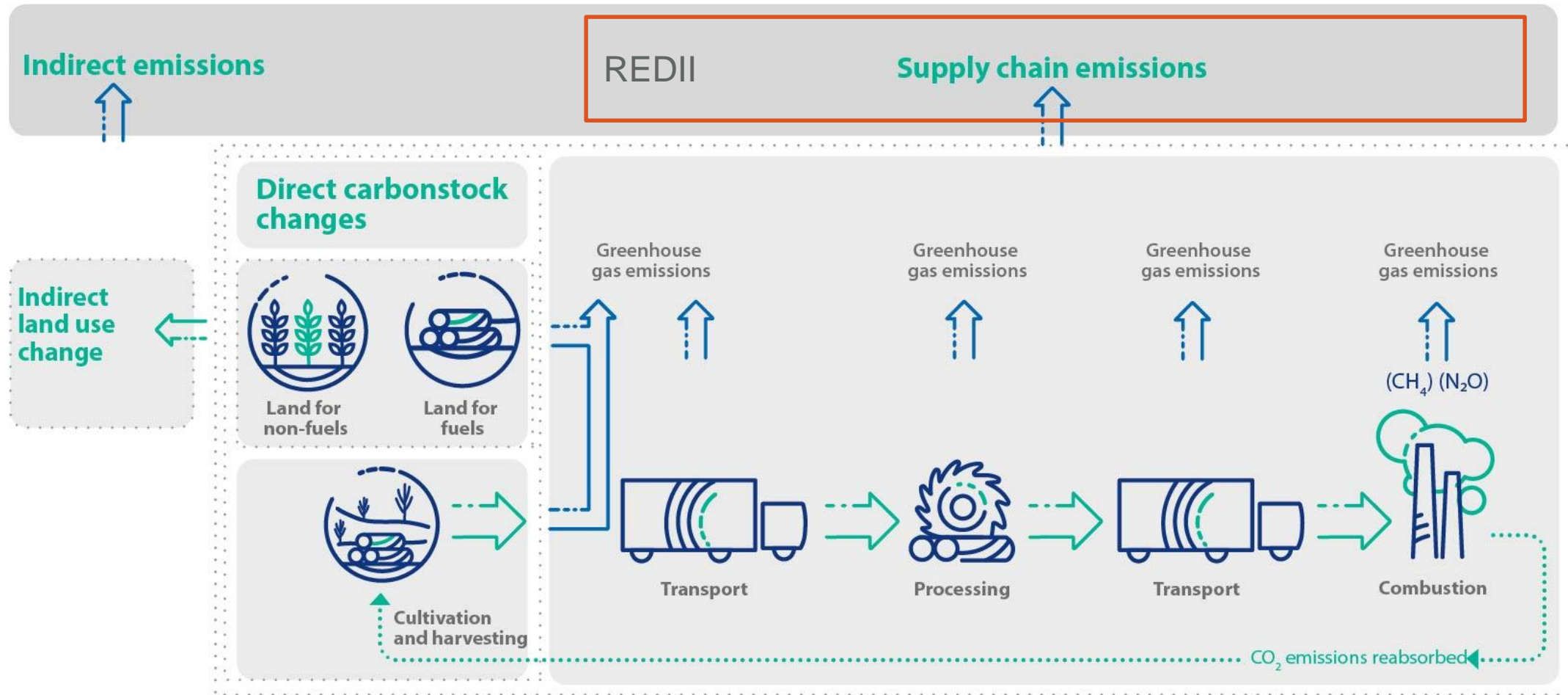
- Sites below 20 MW fuel input capacity for heat and power exempt for solid biomass.
- Site below 2 MW fuel input capacity exempt for biogas.
- Not using fossil fuel as main fuel.
- >36% electrical efficiency or is CCS generator

70% GHG Reduction From What?

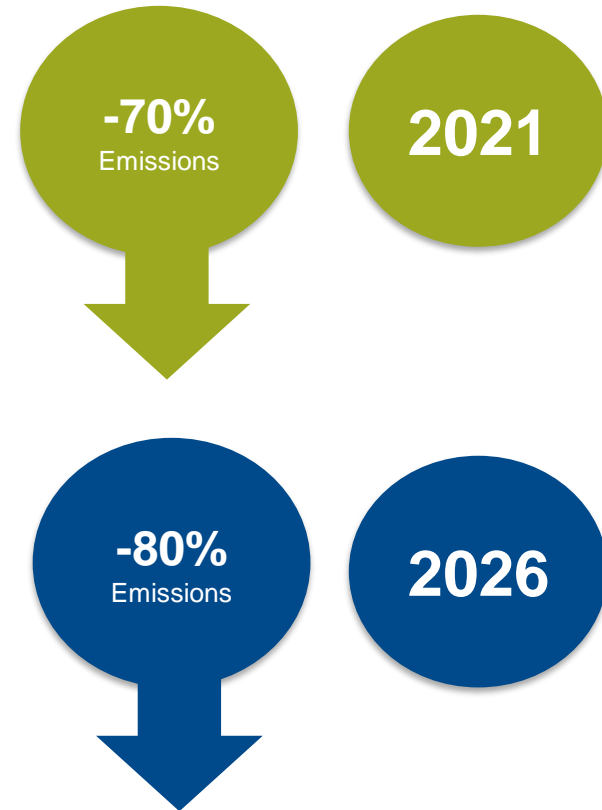
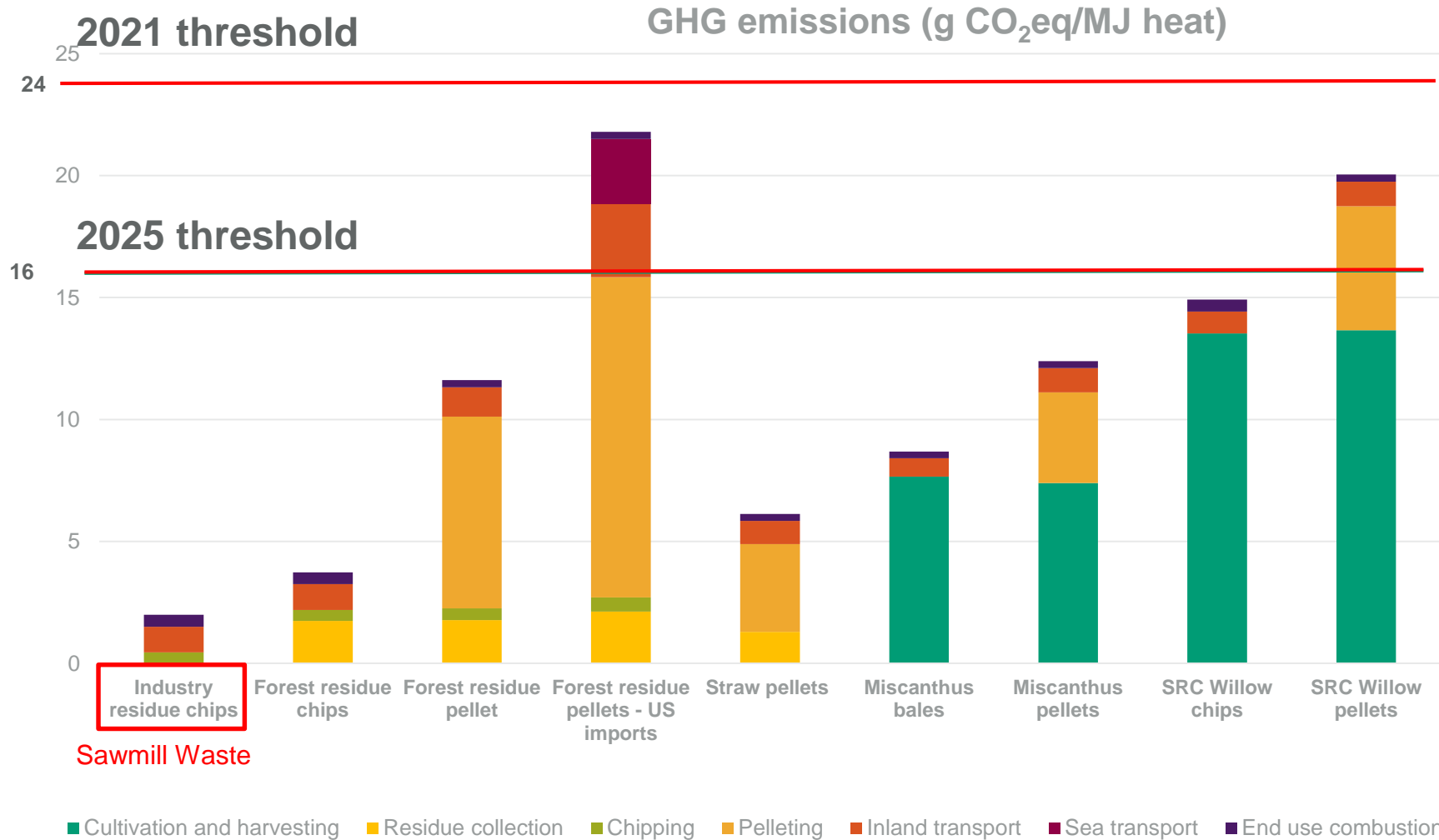
Fossil-fuel supply chain emissions and indirect emissions



Biomass supply chain emissions and indirect emissions



How are Irish supply chains set against EU requirements (Solid)



Other sustainability criteria in RED II

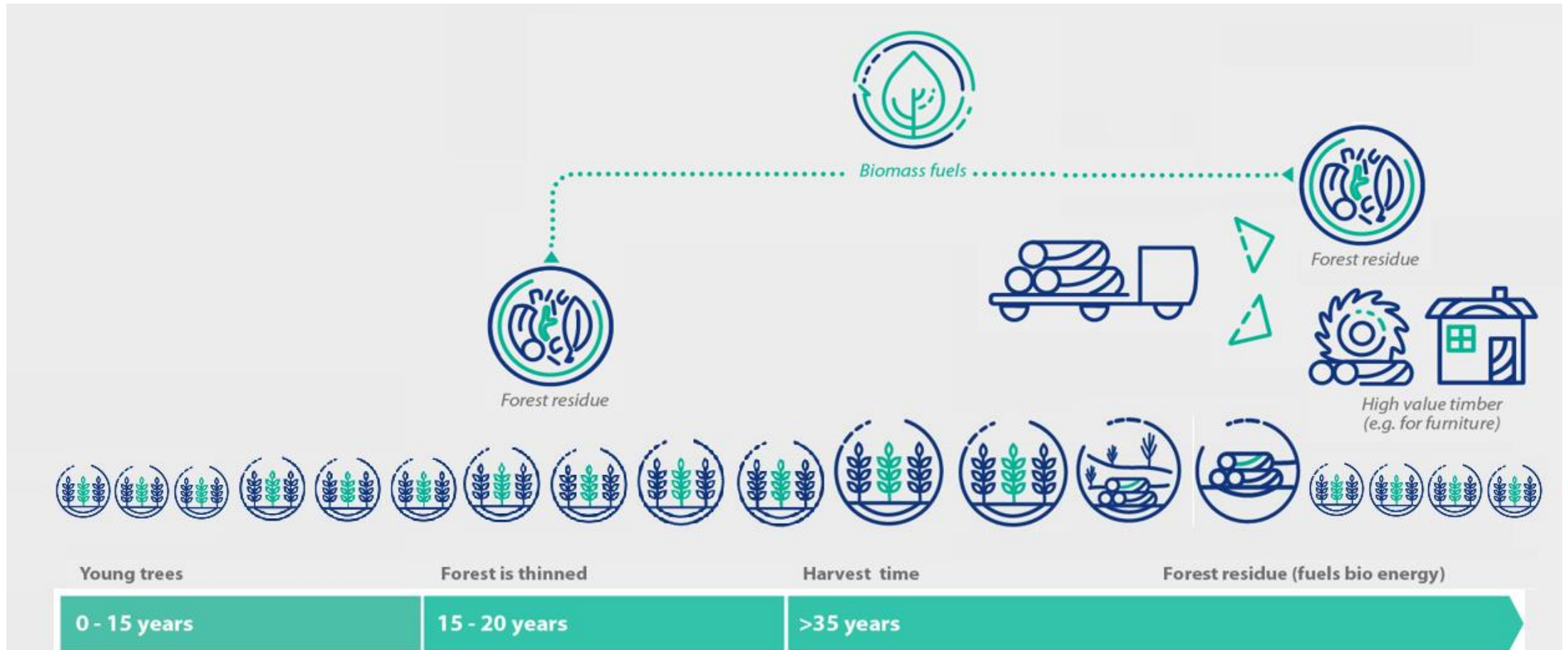
Agri biomass

- Protection of highly diverse land
- Protection of land with high carbon stock (forests, wetlands)
- Protection of land that was peat land in 2008

Forest biomass

- Legality of harvesting
- Forest regulation
- SACs
- Soil quality and biodiversity
- Long-term production capacity
- LULUCF criteria
- Sustainability criteria in place at national or forest level.

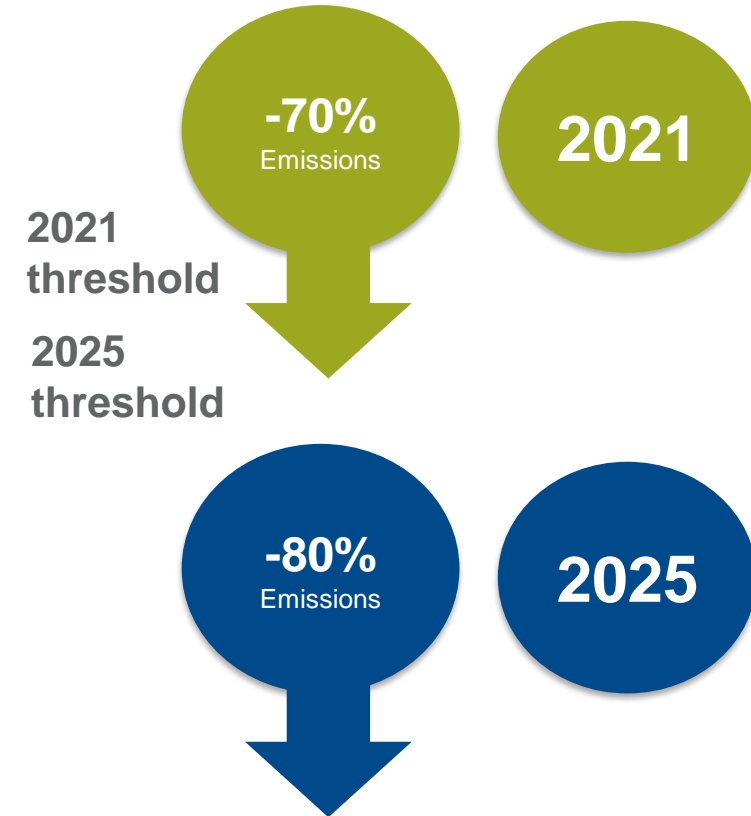
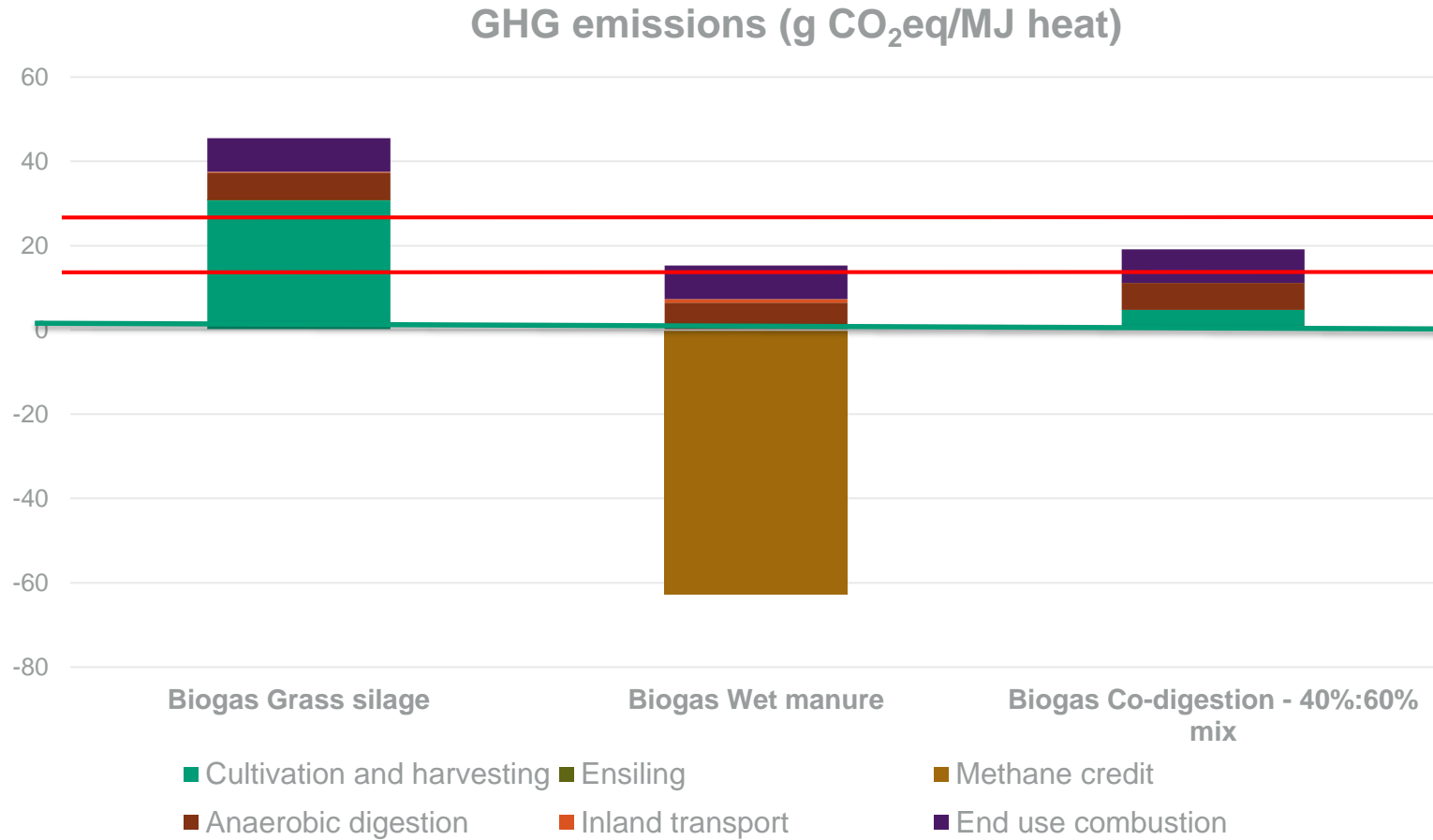
SSRH support low supply chain emissions.



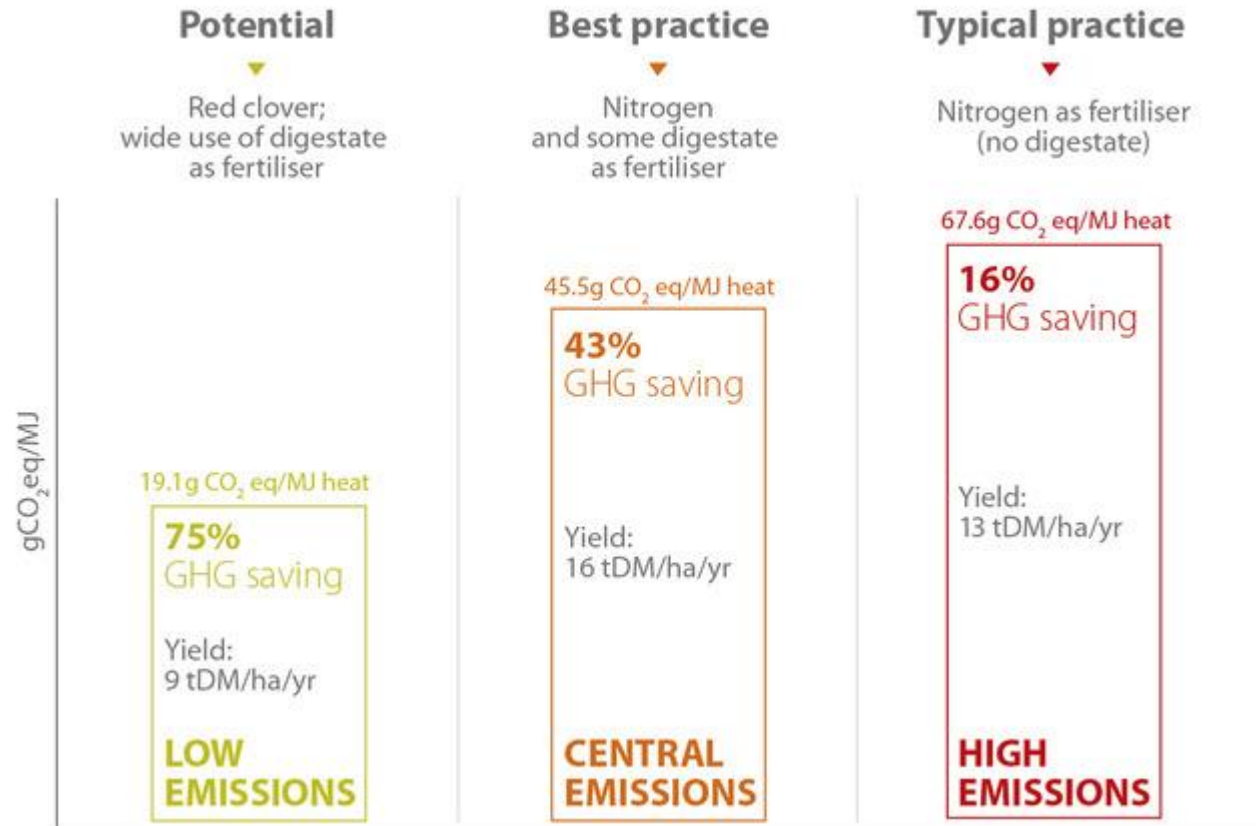
Biogas sustainability requirements for the SSRH

RED II sustainability requirements

How are Irish supply chains set against EU requirements (Biogas)



Under current cultivation practices, grass silage has high GHG emissions



Co-digestion with manure at 50/50 ratio required for best practice

Grass resource limited to ~X2 manure resource

Self Supplier Requirements for the SSRH

Self Supplier Definition

Self suppliers of SSRH fuel.

Scheme participants who take a sustainable raw material and turn it into their own fuel.

I.e. person/organisation cutting/buying own wood pulp then chipping and drying this before use.

i.e. wood joinery – selecting by-product suitable for combustion in their own plant.

How does a self supplier meet REDII?

A Life Cycle analysis for each self-supplier may not be necessary with most fuels – some “novel” fuels with no generic accepted values or fuels on the borderline of the 70% GHG may need analysis.

Recap

- Sustainable fuel criteria for participants of the SSRH is Based on the Relevant REDII Criteria and all other legal and regulatory requirements in the supply chain.
- Percentage Green House Gas Reduction Calculations
- Self Supply Requirements

Thank You

For any inquiries on the details of the SSRH Programme please contact us at

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