

ISCC Certified Renewable Feedstock for Integrated Chemical Sites

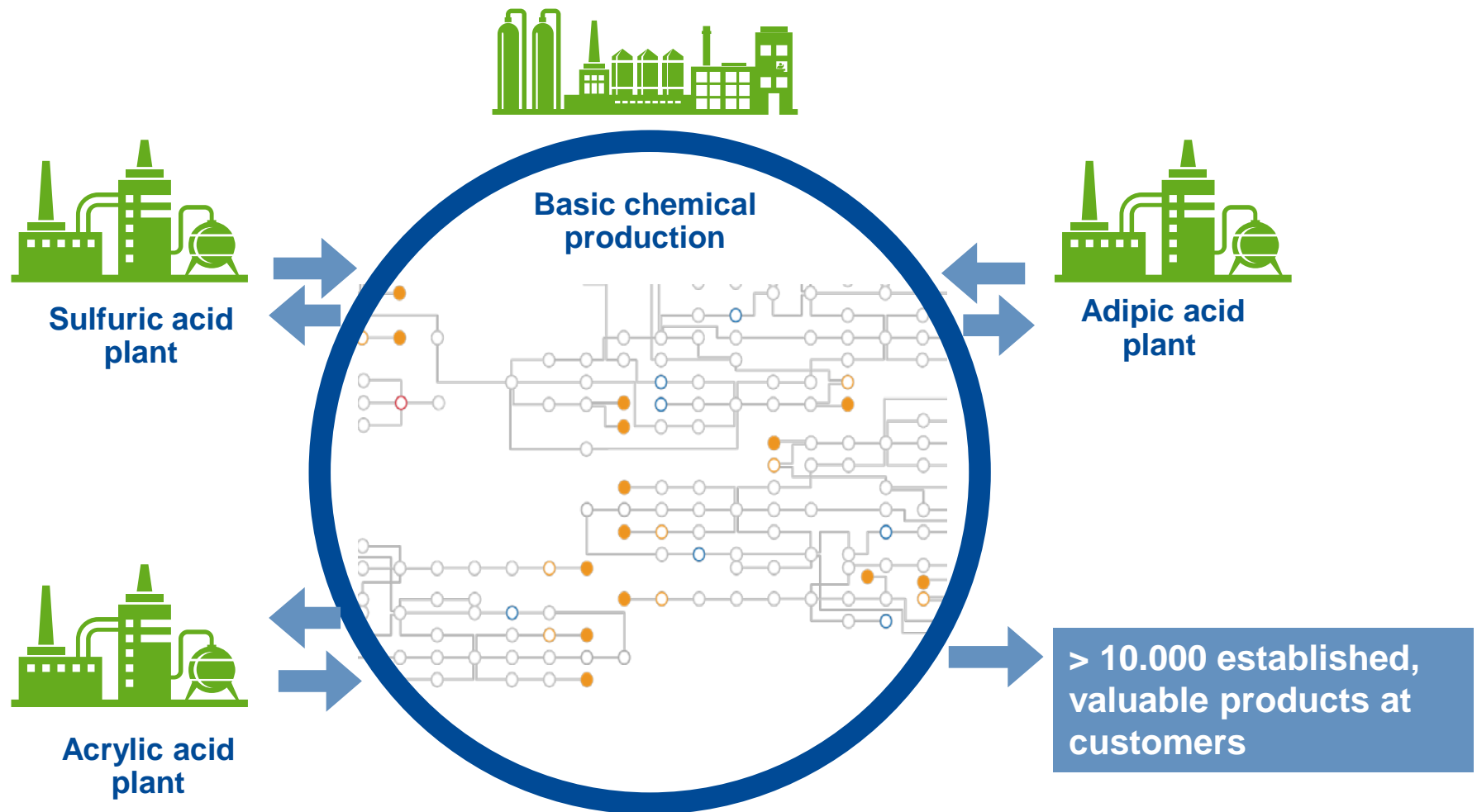
6th ISCC Global Sustainability Conference
Brussels, February 17, 2016

 **BASF**
We create chemistry

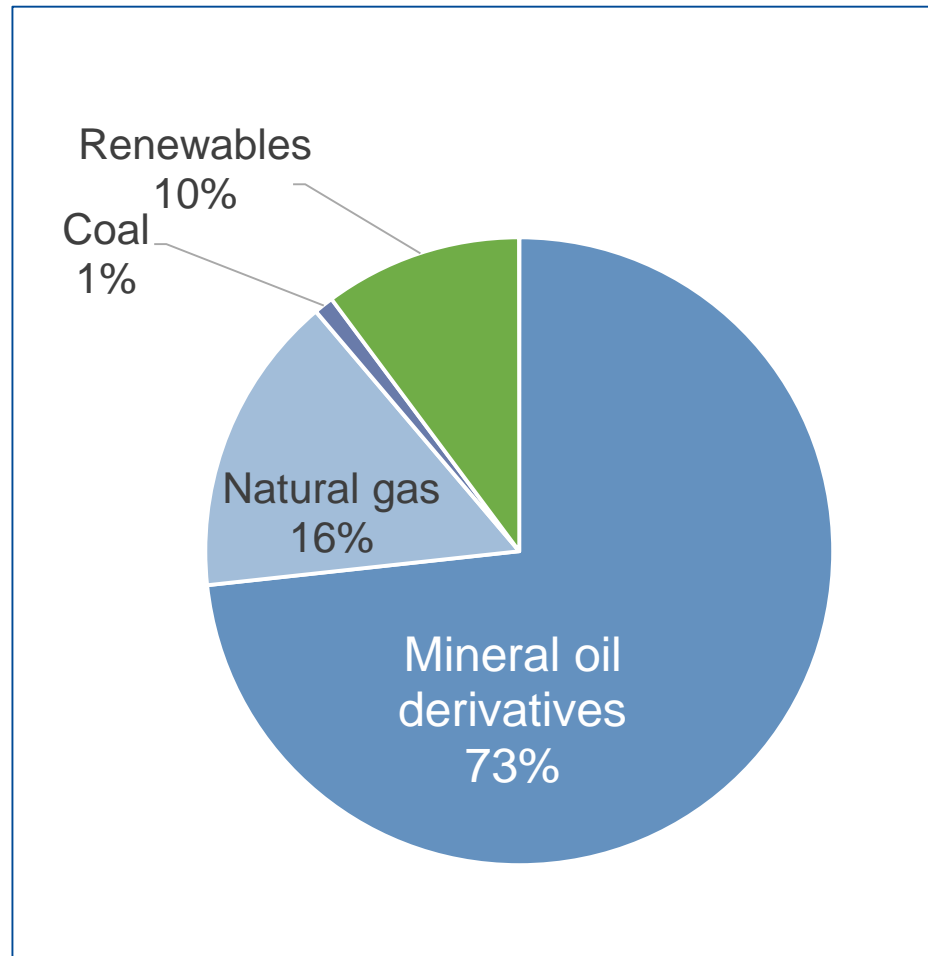
Claudius Kormann
Corporate Sustainability Strategy

Efficient Verbund Production

150 years technical optimization



Feedstock Mix in Organic Chemicals Production, Europe, 2013: 79 mn tons



Mass Balance Approaches are common in the Industry

Biomethane Value Chain in the Chemical Industry

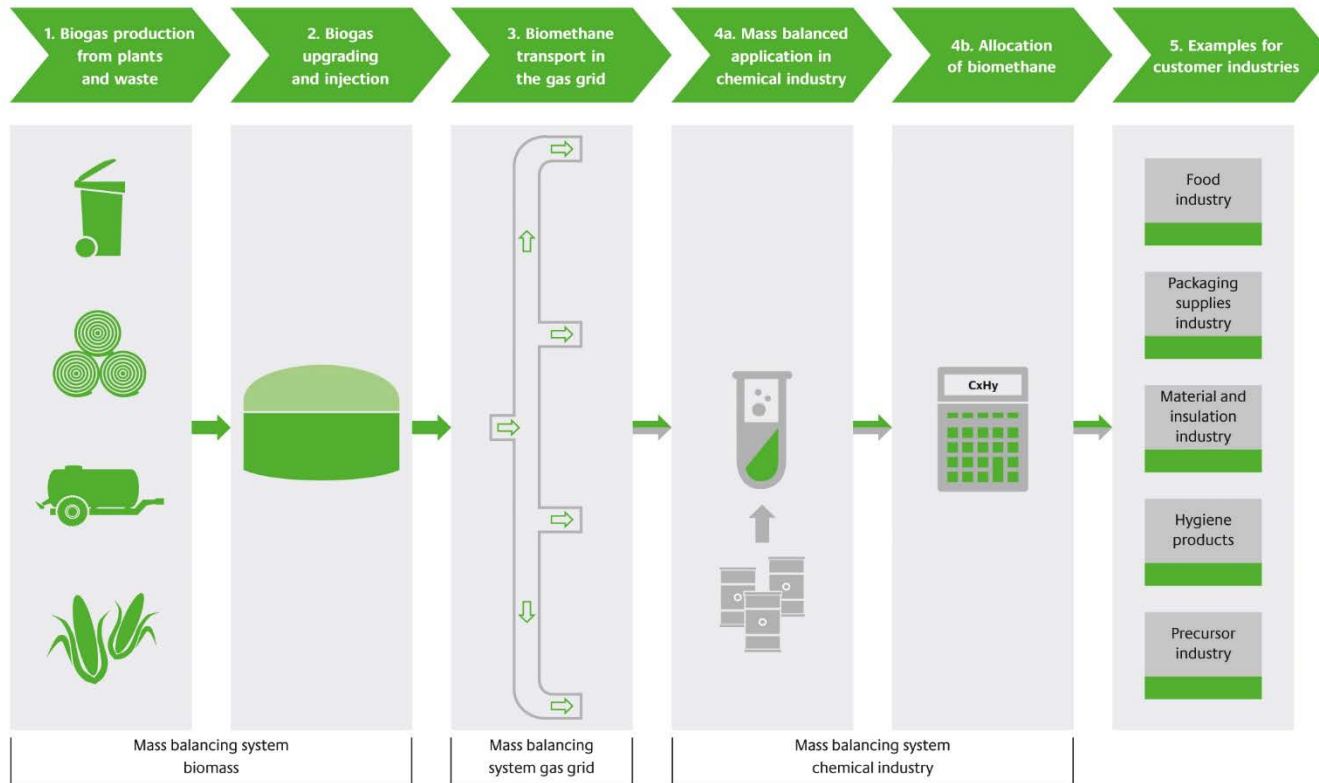
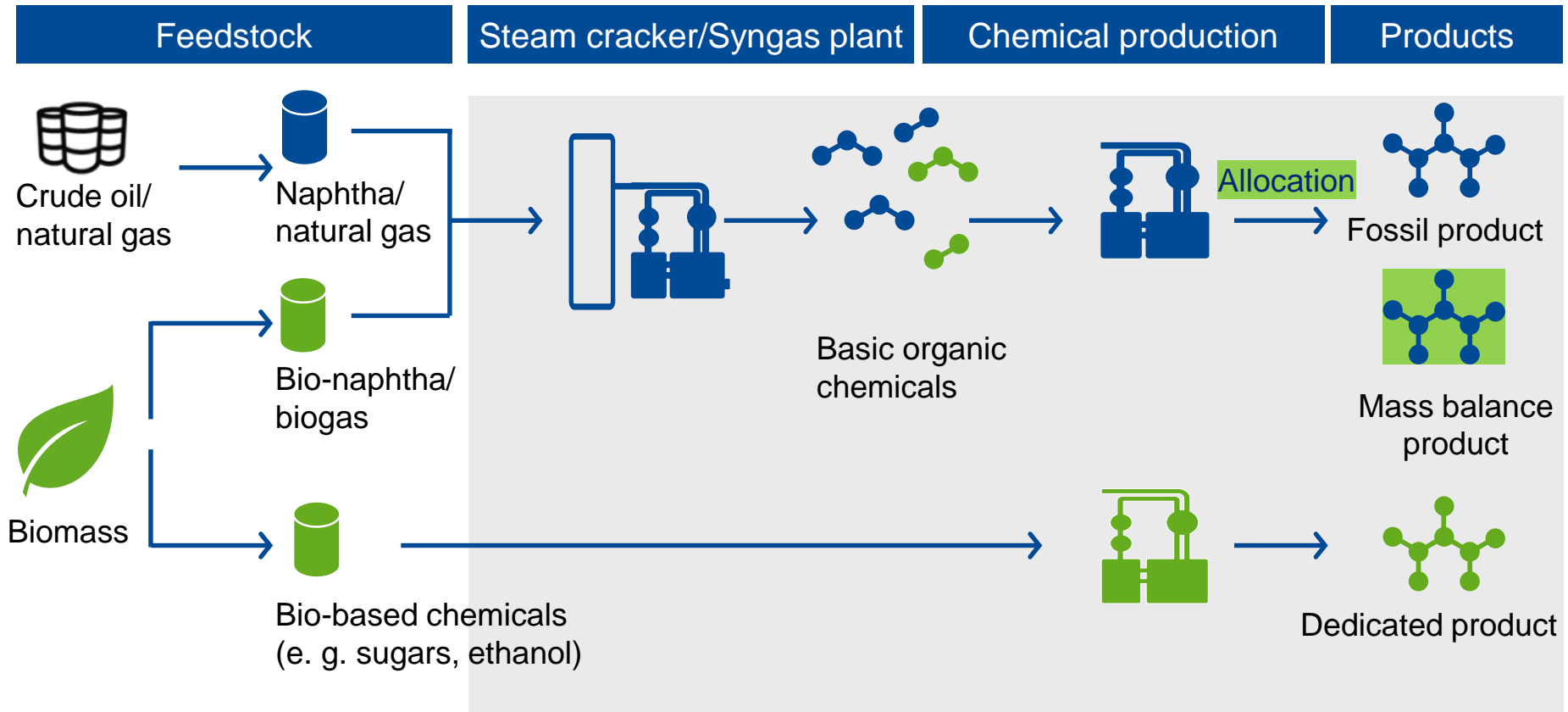
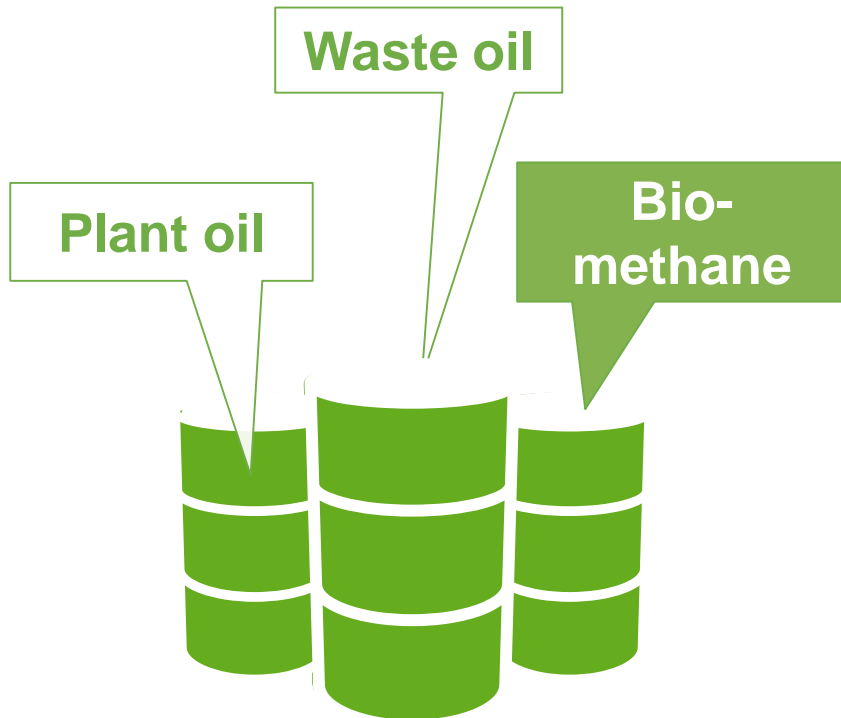


Figure: Biomethane supply chain in chemical industry

Two Options to use Bio-based Feedstock: Dedicated Production and Mass Balance Approach



Sustainability Certified Feedstock is Eligible: Biomethane, Plant oil, ...



Requirements

- Raw materials from certified sources compliant with EU RED: e.g. ISCC, RSPO RED ...
- Cost competitiveness
- Availability
- Intensive stakeholder dialogue
- Social standards in agriculture
- Sustainable production of feedstock
- Reduction of greenhouse gas emissions

Mass Balance Approach - Principle

Certified Feedstock

Fossil



Renewable

BASF Production Verbund



Products

Conventional



Allocated

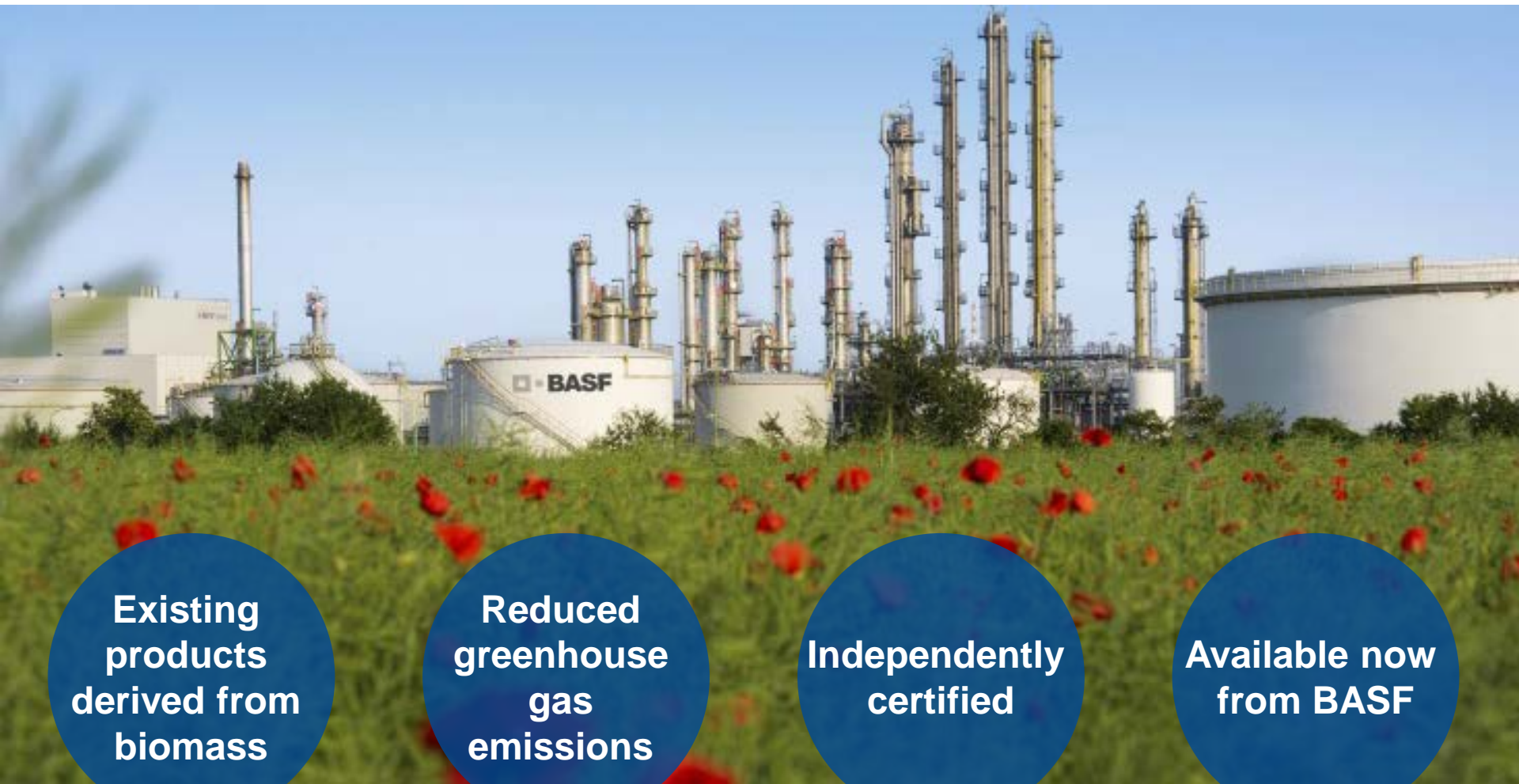
A novel approach to utilize renewable feedstock in interlinked production

Mass Balance Approach – Applied (2)

To date, BASF has had several audits according to the CMS 71 Standard using ISCC certified feedstock.

BASF is discussing with ISCC on potential audits according to the ISCC PLUS Standard which would lead to ISCC PLUS certified products in the future.

Our offer to customers for (bio)mass balanced products



Existing products derived from biomass

Reduced greenhouse gas emissions

Independently certified

Available now from BASF

Mass Balance approach:

Turning sustainability demand into market opportunities

- 20-100 % renewables
- Feedstock with sustainability certificate
- Reduction of greenhouse gas emissions



- Readily available drop-in solution
- No compromise on performance
- Third party certification

- Tailor-made marketing claims

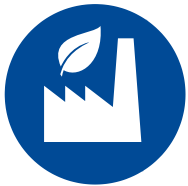
- Addresses consumer sustainability perception

Mass Balance Approach creates outstanding opportunities

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