

Bio4Fuels Days 2018: Scientific Meeting





Bio4Fuels Days

**Norwegian Centre for
Sustainable Bio-based Fuels and Energy**
11 – 12th October 2018



- HES
- Overview of Program
 - Posters
- Introduction

Bio4Fuels Day 1 – 11th October (Open)

Start	Minutes	End	Theme	Speaker
0900	20	0920	Welcome	Duncan Akporiaye, Centre Leader
0920	20	0940	Biofuels in Norway	Audun Rosland, Director, the Norwegian Environmental Agency
0940	40	1020	The IEA's Bioenergy Roadmap	Adam Brown, IEA (Renewable Energy)
1020	40	1100	Biofuel Innovation and Technology Progress	Jaap Kiel, EERA Bioenergy
1100	20	1120	Coffee break /Poster Session	
1120	30	1150	Biofuels, climate change mitigation and sustainability	Francesco Cherubini, NTNU / UNEP
1150	30	1220	Refining the future - Lignofuels	Niilo Oikarinen, Neste
1220	35	1255	Sustainability in Elkem	Alf Tore Haug, ELKEM
1255	20	1315	Effects of the biofuel research in Norway	Odd Jarle Skjelhaugen
1315	60	1415	Lunch	
1415	255	1830	Visit to EGE Waste-to-Energy Agency's Biogass Plant	
1900			Dinner at Quality Airport Hotel Gardermoen	

Bio4Fuels Day 2 – 12th October (internal)

Start	Minutes	End	Theme	Speaker (responsible)
0830	30	0900	Introduction by Silva Green Fuels	Ingo Machenbach
0900	150	1130	Scientific Presentations - the Bio4Fuels Value Chains. Please see details below.	(SP Leaders)
1000	30	1030	Coffee / Poster Session	
1130	20	1150	International Advisory Group – evaluation of Annual Report 2017, Work Plan 2019, scientific presentations and posters	Bio4Fuels' IAG
1150	60	1250	Lunch	
1250	130	1500	Bio4Fuels Cluster / SP Interactions – Work plans 2019	All / Lead by WP and SP leaders
1500	30	1530	Bio4Fuels General Assembly 2018 - orientation	Duncan Akporiaye

The remit for Bio4Fuels Centre



Norway's climate gas release (2015)



BIO4 FUELS Vision

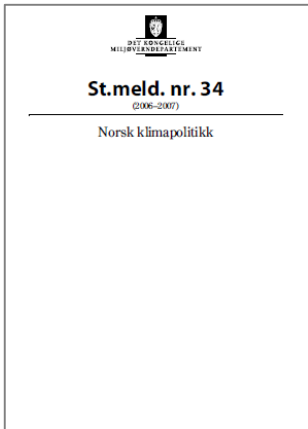
Enabling sustainable biofuels production in Norway

Bio4Fuels aims to contribute to the reduction of emissions from the Norwegian transport sector through coordinated research efforts to establish the basis for sustainable routes to advanced biofuels.

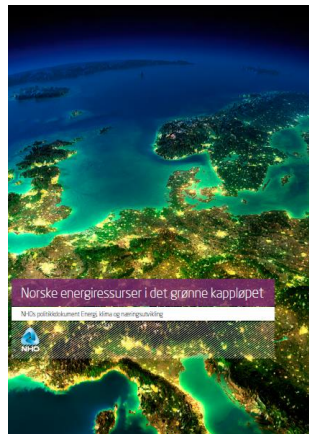
**BIO4
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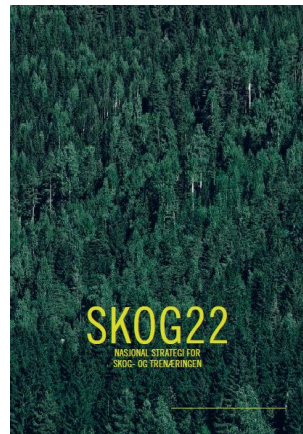
Bio4Fuels – following up National Strategies



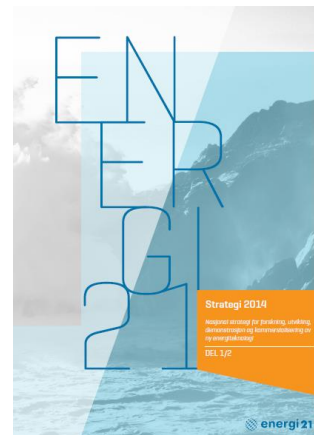
Norwegian
Climate Policy



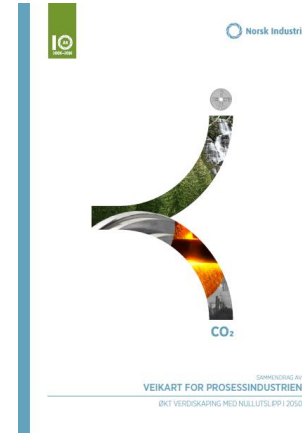
Norwegian Enterprise
Norwegian Energy Resources



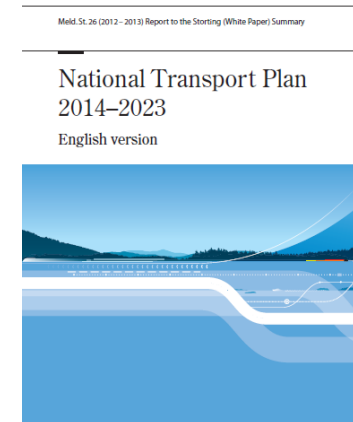
National Strategy for
Forestry and Wood Industry



National Strategy
For new Energy Technology



Roadmap
Process Industry



National
Transport Plan



Norwegian
Industry
White paper

1. Urgency of implementing solutions

ipcc

INTERGOVERNMENTAL PANEL ON climate change

GLOBAL WARMING OF 1.5 °C

an IPCC special report on the impacts of global warming of 1.5 °C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty

Summary for Policymakers

This Summary for Policymakers was formally approved at the First Joint Session of Working Groups I, II and III of the IPCC and accepted by the 48th Session of the IPCC, Incheon, Republic of Korea, 6 October 2018.

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8th October
IPCC special report

....Limiting global warming to 1.5°C would require "rapid and far-reaching" transitions in land, energy, industry, buildings, transport and cities....

fm
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FRIENDLY ENERGY
RESEARCH
The Research Council of Norway

2. Bioenergy has an important role

ipcc
INTERGOVERNMENTAL PANEL ON climate change

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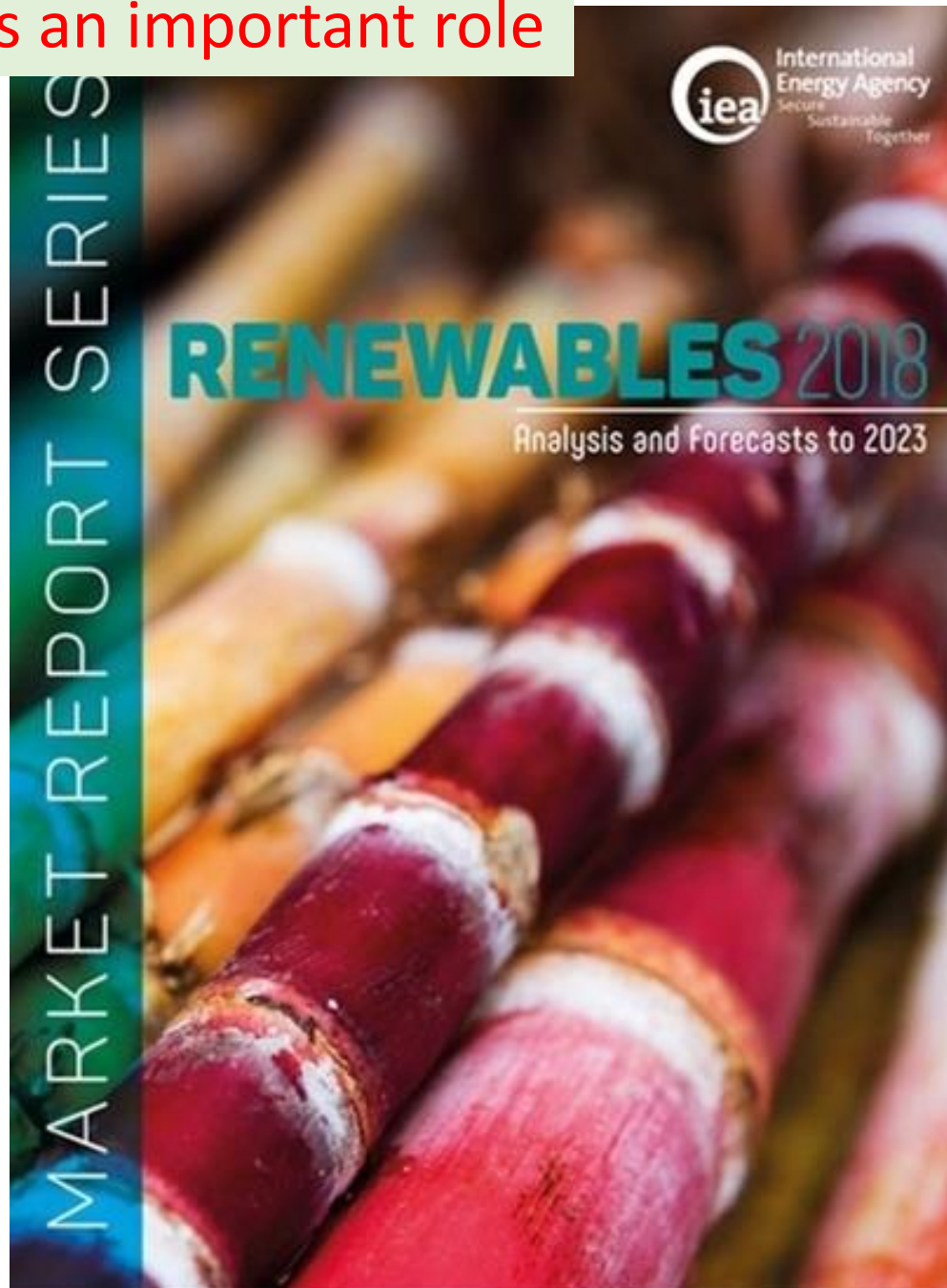
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MARKET REPORT SERIES



**BIO4
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8th October
IEA Market report

The analysis this year contains an in-depth look at bioenergy, the world's largest source of renewable energy, highlighting the untapped potential of modern bioenergy and other renewable sources for greening the industry and transport sectors.....

fem
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RESEARCH
The Research Council of Norway

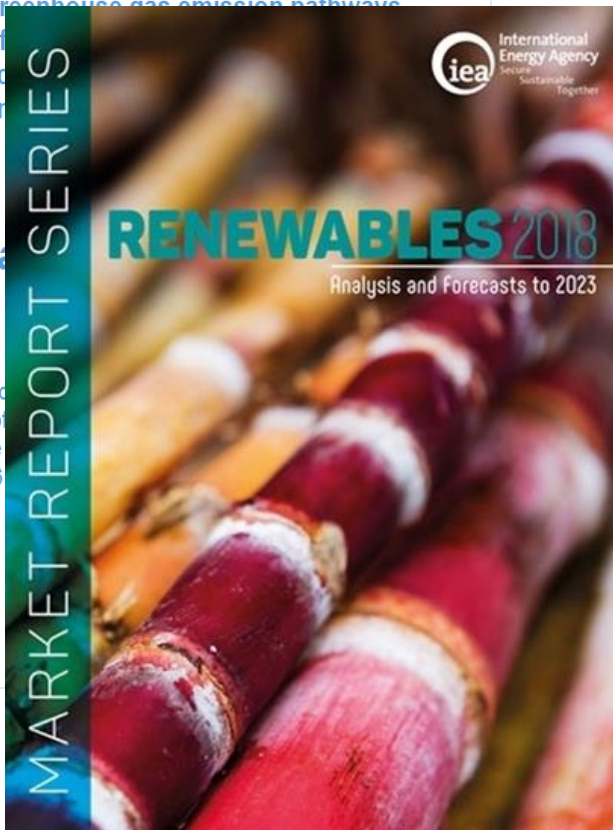
3. Incentives and regulations to drive implementation

GLOBAL WARMING OF 1.5 °C

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Summary

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Prop. 1 S

(2018–2019)

Proposisjon til Stortinget (forslag til stortingsvedtak)

FOR BUDSJETTÅRET 2019

Statsbudsjettet

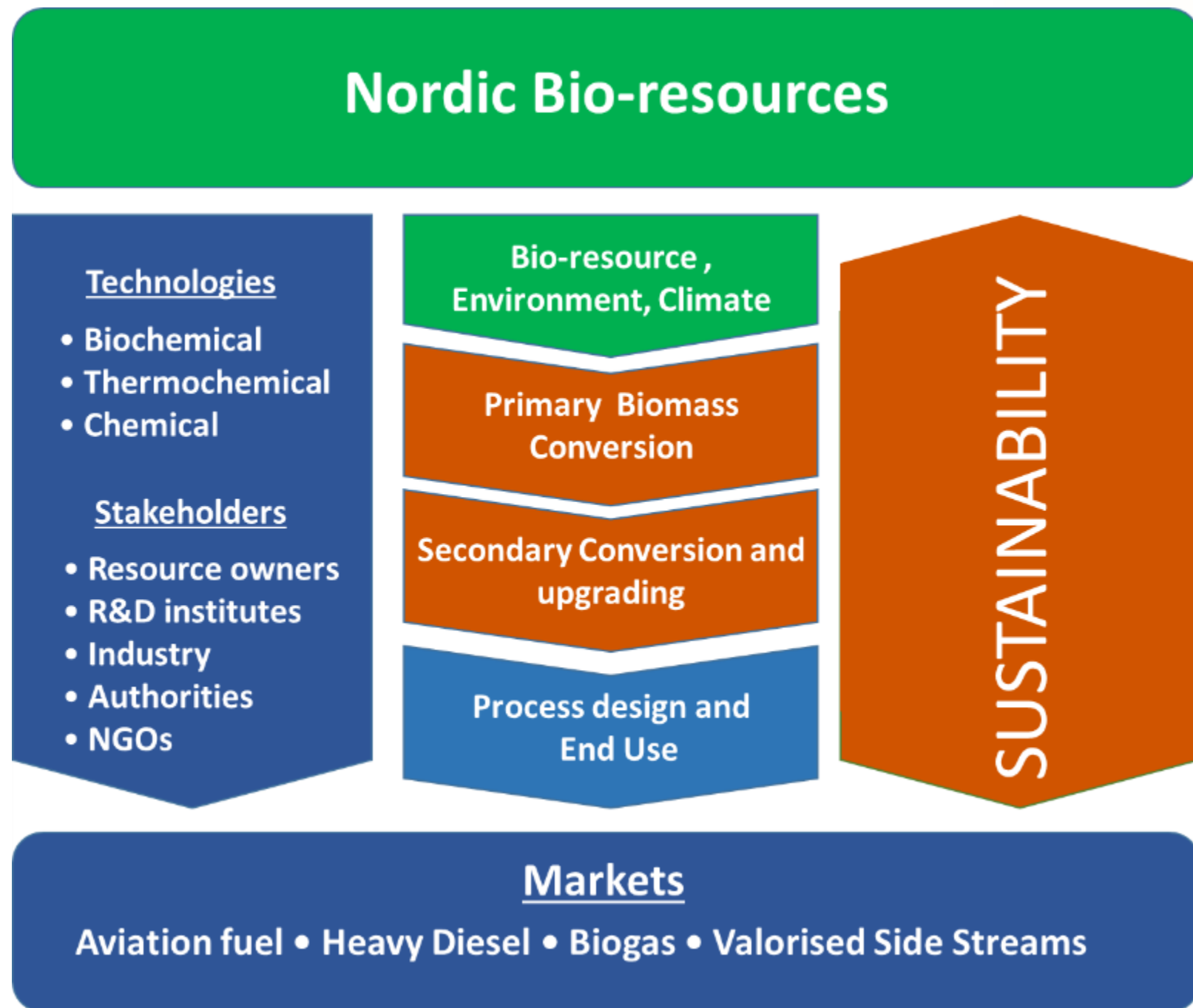
8th October

Norwegian National Budget 2019

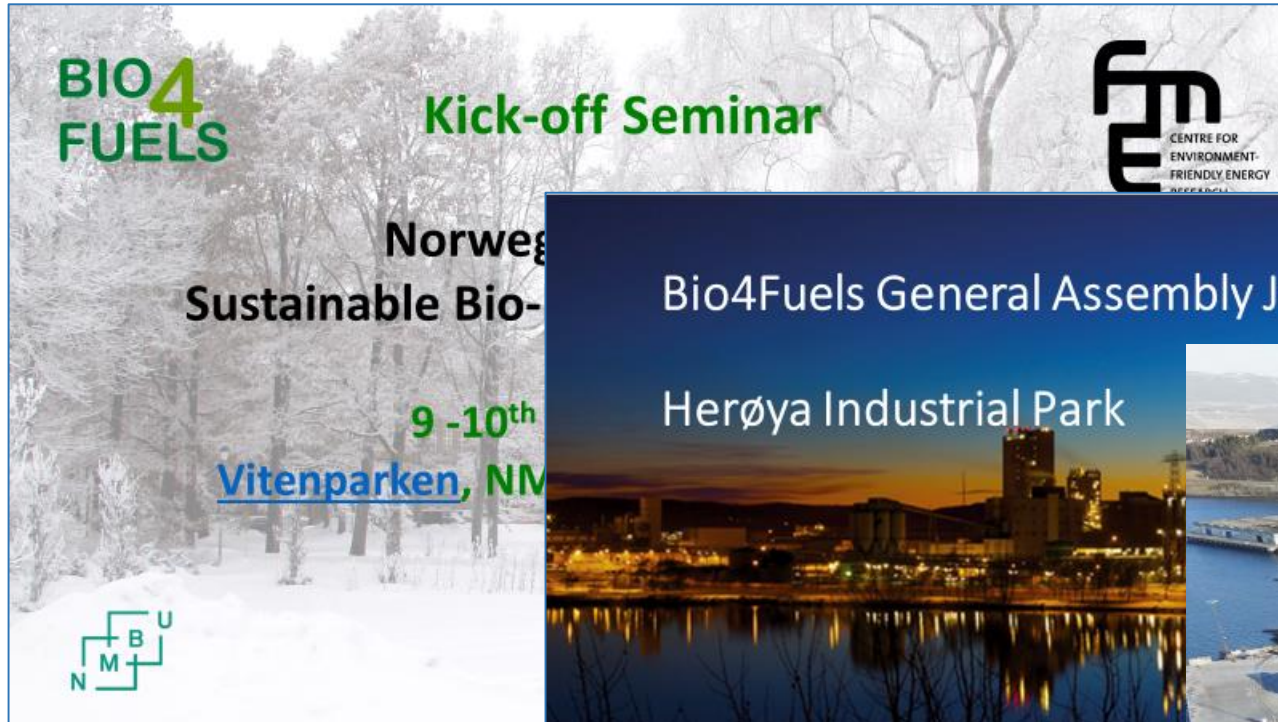
Continued focus on the increase in the use of advanced biofuels giving positive climate effect.....

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Norwegian Centre
for Sustainable
Bio-based Fuels
and Energy



Just over 1.5 years of operation



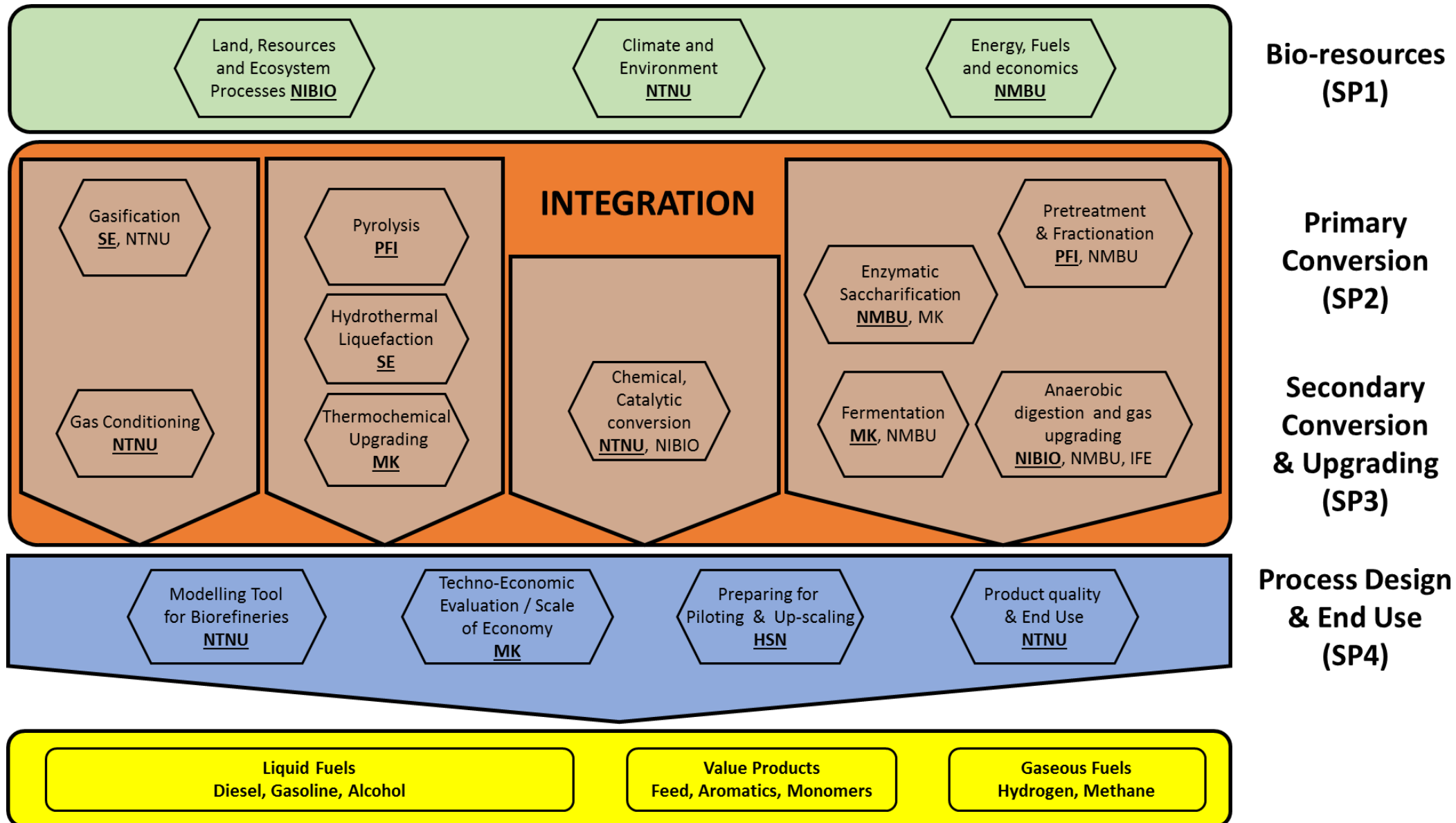
Bio4Fuels Days 2018: Scientific Meeting



Biogas – Industrial scale implementation in Norway



Research within 4 main value chains



Strengthening National and International Research Initiatives and collaboration

EUROPEAN INITIATIVES

NORDIC INITIATIVES

NATIONAL INITIATIVES

CENBIO - FME

BIO4FUELS - FME

NORBIOLAB I - Infrastructure

NORBIOLAB II

2015

2016

2017

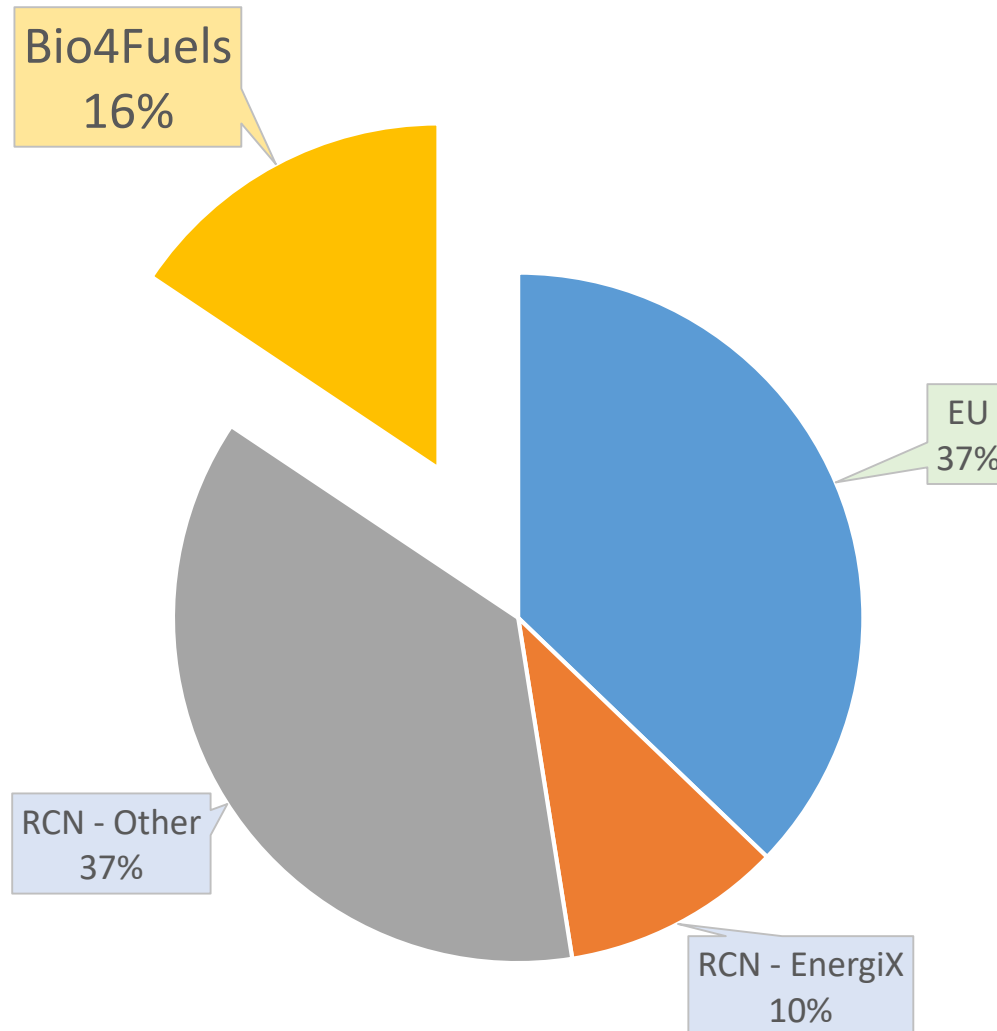
2018

2019

2020

2021

Bio4Fuels - Associated projects



- Over 50 active projects
- 18 Active EU projects
- Bio4Fuels partners key to establishing projects

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