

Introduction to the BIP and Task Force 3

About the Partnership





The launch of the BIP by EVP Timmermans and Commissioner Simson on the 28th of September during the European Sustainable Energy Week.

- The Commission's REPowerEU plan set the target of 35 BCM of biomethane by 2030.
- A new Biomethane Industrial Partnership (BIP) was established upon the REPowerEU plan to 'support the achievement of the target and create the preconditions for a further ramp up towards 2050'.
- Scaling up the biomethane production is vital because of:
 - The need to reduce European dependency on natural gas imports from Russia;
 - 2. To achieve EU energy independence;
 - 3. The high energy prices;
 - The aggravation of the climate crisis.



Potential of innovative and sustainable biomass sources

3.1

EU-wide potential assessment for sustainable rotational and sequential cropping

3.2

EU-wide potential assessment for feedstock production on marginal and contaminated land

3.3

Environmental co- benefits through integrated food and energy systems

3.4

Identification of additional innovative sustainable biomethane feedstocks



Potential of innovative and sustainable biomass sources

Rotational and sequential cropping

Marginal and contaminated land

Environmental co-benefits

Innovative





Nordzucker







































Potential of innovative and sustainable biomass sources

Rotational and sequential cropping

Marginal and contaminated land

Environmental co-benefits

Innovative







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MENTS





Co-Chairs



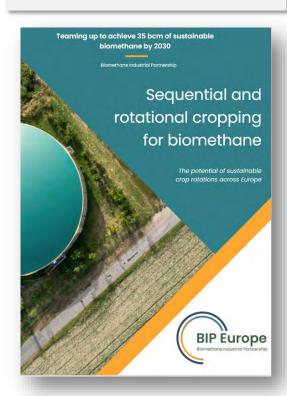
Potential of innovative and sustainable biomass sources

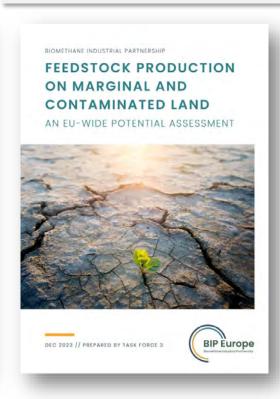
Rotational and sequential cropping

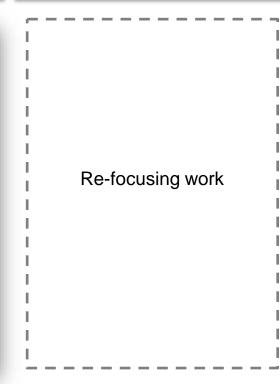
Marginal and contaminated land

Environmental co-benefits

Innovative









Rotational and sequential cropping

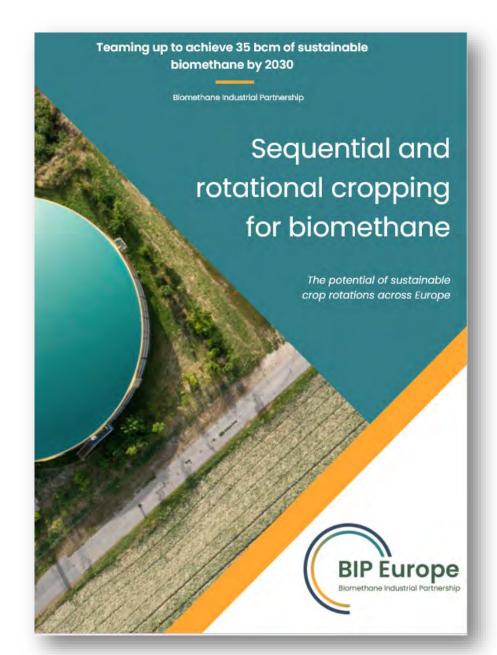
Sequential and rotation cropping for biomethane:

The potential of sustainable crop rotations across Europe

- Improve agricultural resilience
- Restore soil health
- ✓ Sequester carbon in soils
- Diversify agricultural incomes
- ✓ Enrich biodiversity
- Enhance food security

AND

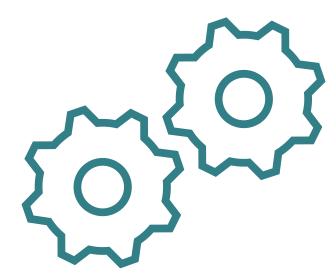
✓ Increase the production of biomethane



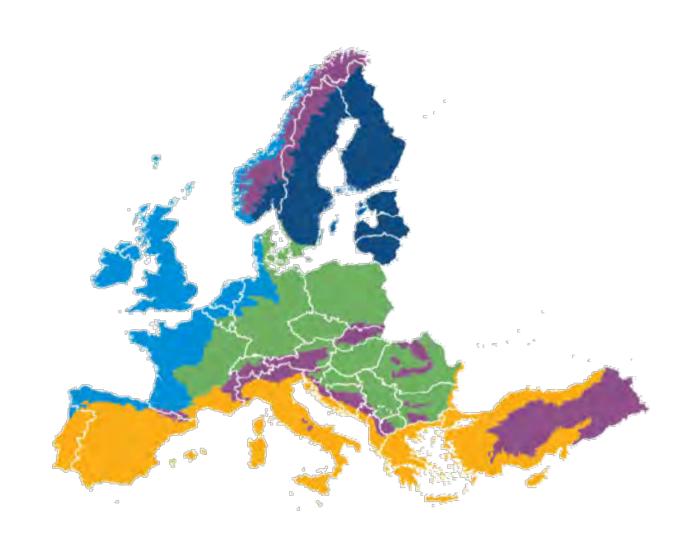
Principles for sustainable growth

Explores a set of principles in which arable farms should seek to align with when growing crops for biogas – the following introduces the key considerations:

- 1. GHG emissions
- 2. Soil health
- 3. Carbon Sequestration
- 4. Biodiversity
- 5. Agricultural resilience
- 6. Productivity
- 7. Pollution and contamination



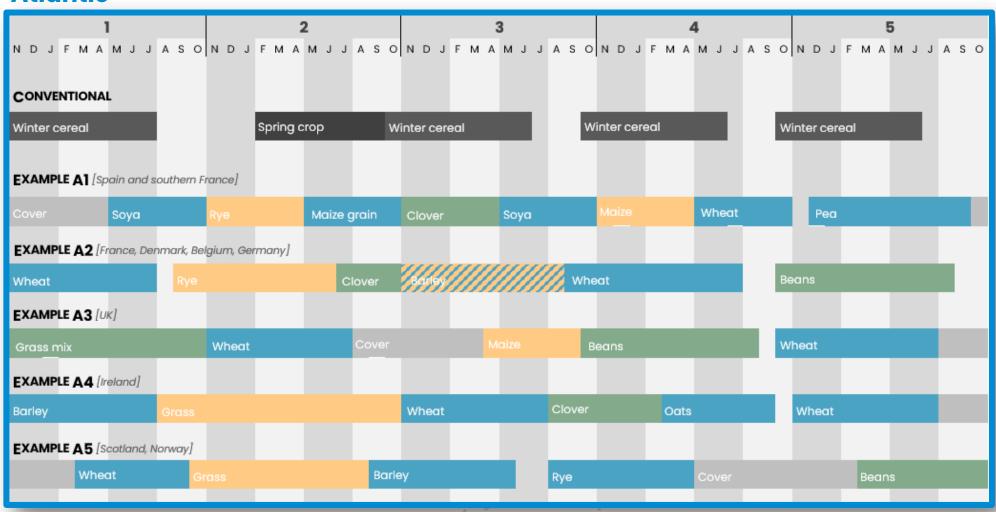
Developed potential crop rotations for each European region





Developed potential crop rotations for each European region

Atlantic



Developed potential crop rotations for each European region

Boreal Continental Atlantic Mediterranean

Developed potential crop rotations for each European region

Atlantic



Country	Total arable land (ha)	Proportion of land within the Atlantic biogeographical region (%)	Crop rotation assumed	Average annual biomass grown for AD (tonnes)	Biomethane max potential per year (bcm)
Belgium	870,420	50%	2	1,175,067	0.3
Denmark	2,357,950	30%	2	1,909,940	0.6
France	18,044,450	50%	1 ^(10%) & 2 ^(90%)	26,976,453	8.7
Germany	11,657,900	20%	2	6,295,266	1.9
Ireland	434,940	100%	4	1,043,856	0.2
Netherlands	1,003,450	100%	2	2,709,315	0.8
Spain	11,732,660	10%	1	6,570,290	2.1
Non-EU					
Norway	804,310	15%	5	193,034	0.0
UK	5,857,460	100%	3(50%) & 5(50%)	12,886,412	3.4

Applied correction factors

Maximum
biomethane potential
= 90.7 bcm

(EU27 + UK, Switzerland and Norway)

data Food vs Fuel 100% Biomass competition 98% Arable competition 89% Soil readiness 78% Climate change Unknown Uncertainty 80%

Example

Deliverablebiomethane potential

= 45.7 bcm

(EU27 + UK, Switzerland and Norway)



Comparison with other estimates

