



EU Green Deal and SET Plan Updates for Cost-Competitive and Efficient Renewable Fuels and Bioenergy

7 July 2020, ETIP Bioenergy Workshop-
EUBCE 2020

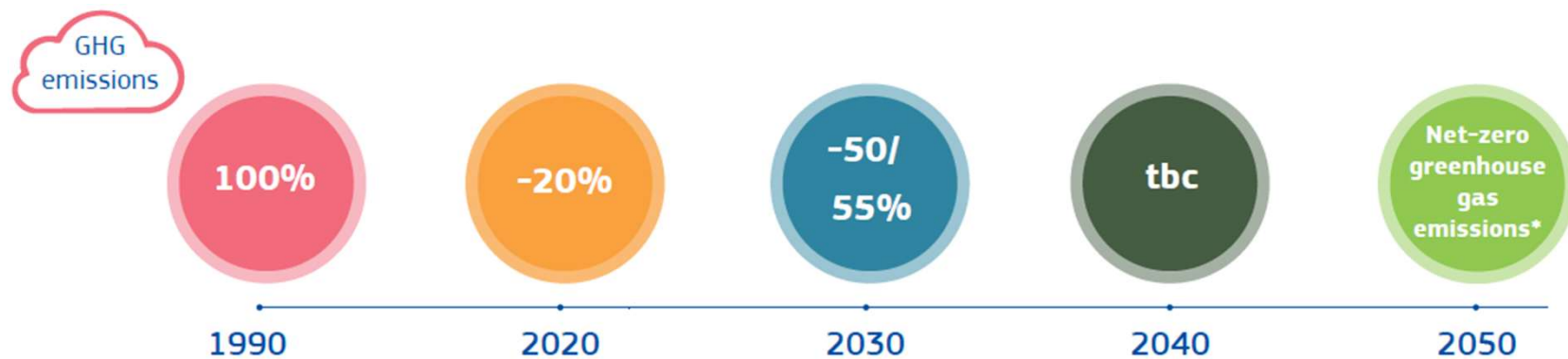
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Raising awareness,
delivering solutions.

The European Green Deal

- Presented in December 2019 by the European Commission;
- Provides a roadmap with actions to boost the efficient use of resources by moving to a clean, circular economy and stop climate change, revert biodiversity loss and cut pollution;
- Covers all sectors of economy;
- Meeting the objectives will require significant investments;
 - 260 bn EUR of additional annual investment (mainly from the public and private sector);
- Any scenario requires a lot of sustainable biomass!



SET-Plan – Action 8 (Renewable Fuels and Bioenergy)

Objective: Accelerating the decarbonisation of the energy system and the transport sector by making technologies cost-effective and better-performing.

- Total required investment volume for R&I activities (development, demo and scale up) 107 bn EUR (to be provided by industry, Member States, European Commission) by 2030;
- Different value chains addressed:
 1. Advanced liquid and gaseous biofuels
 2. Other renewable liquid and gaseous fuels
 3. Renewable hydrogen
 4. High efficiency large scale biomass CHP
 5. Solid, liquid, and gaseous intermediate bioenergy carriers;
- **Highest investments for scaling up advanced biofuels (70 bn EUR).**

SET4BIO - facts

- ▶ CSA - Coordination and Support Action, supporting IWG8
- ▶ Start date 1st March 2020 - end date 28th February 2023
- ▶ 6 partners from 6 countries
- ▶ Maximum EU-contribution: 999 825 €

Partners



The SET4BIO project

- ▶ Expected outcomes and activities
 - ▶ Funding and financing roadmap
 - ▶ Innovation challenge and matchmaking to drive the sector
 - ▶ Bridge the gap between R&I and industry application
 - ▶ Industry commitment
 - ▶ A joint action plan

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SET4BIO Innovation Challenge (work in progress)

- ▶ The SET4BIO innovation challenge will be a driver to increase the rate of innovation and raise the level of creativity - to think new! - with focus on renewable fuels and bioenergy.
 - ▶ It will provide a platform initiative to create a communicative arena to highlight, disseminate and discuss challenges, as well as attracting and engaging stakeholders to stimulate collaboration
- ▶ Scope and objectives
 - 1) To engage innovators to transform novel IDEAS on how to increase productivity of renewable fuels and bioenergy in Europe to SOLUTIONS
 - 2) To match innovators with innovative solutions with potential funding opportunities

• Innovation challenge theme, process and timing

We invite innovators to transform novel **IDEAS** on how to increase productivity of renewable energy and biofuels in Europe to **SOLUTIONS**

The solution should contribute to at least one of the 6+2 prioritized VALUE CHAINS for European renewable and biofuel production	VC1: Production of transport fuels through GASIFICATION of biomass feedstocks
	VC2: Production of power and heat through GASIFICATION of biomass feedstocks
	VC3: Production of transport fuels through THERMOCHEMICAL PROCESSES
	VC4: Production of power and heat through OTHER THERMOCHEMICAL PROCESSES
	VC5: Production of transport fuels through alcohols from sugar via FERMENTATION
	VC6: production of transport fuels through CONVERSION TO HYDROCARBONS
	HYDROGEN 1 VC
	HYDROGEN 2 VC

To selected teams, SET4BIO provide a **ONE YEAR PROCESS** with

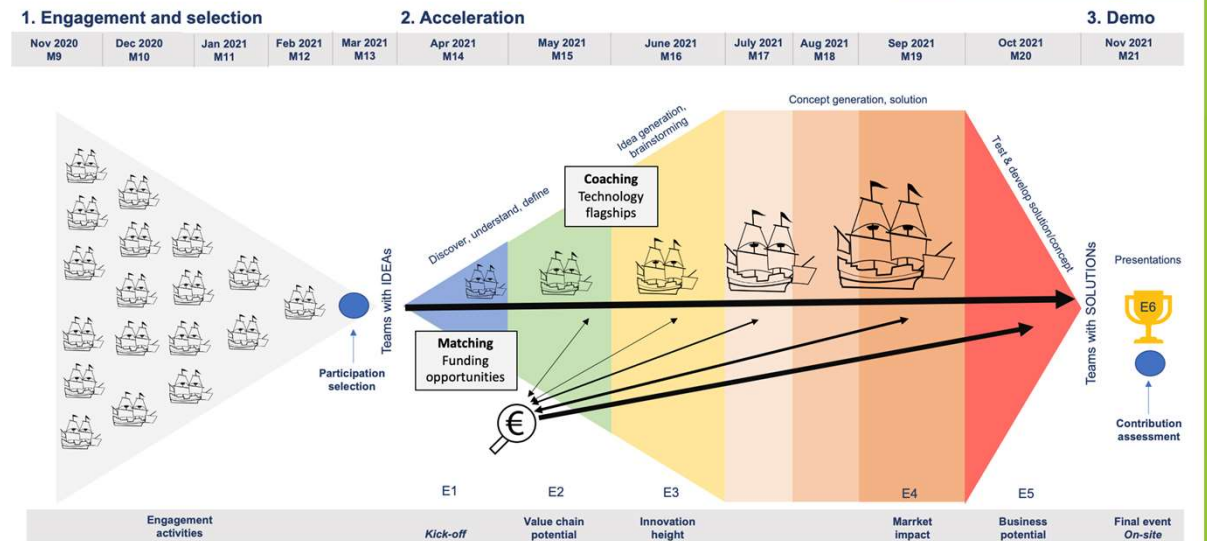
Solution development
ACCELERATION via 5 virtual events

+

MATCHING the solution with funding opportunities

+

Solution **ASSESSMENT** with a final demo day in Brussels



Final words

- The EU Green Deal holds great promise – bioenergy is a vital part
- Renewable transport fuels including biofuels key measure to decarbonise the transport sector with immediate effect in the existing transport fleet
- SET4BIO will strive to realize the SET Plan action 8
 - Requires action from all stakeholders
 - SET4BIO Innovation challenge – more information later



ETIP Bioenergy

European Technology and Innovation Platform

Thank you!

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Project Partners



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