



IEA Bioenergy
Technology Collaboration Programme



IEA Bioenergy Technology Collaboration Programme

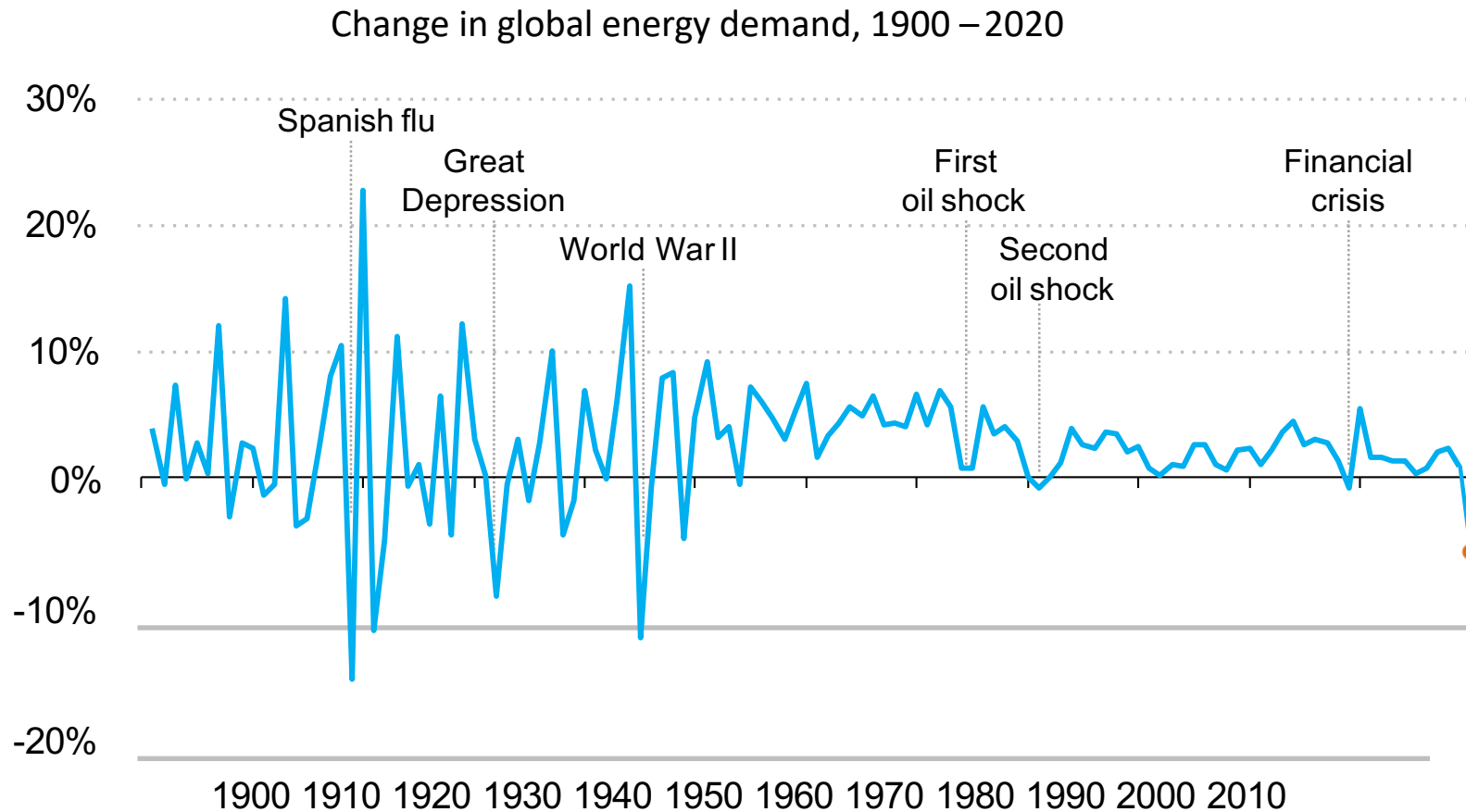
COVID-19 and the Energy Sector:
Technical Perspectives and Opportunities

Jim Spaeth, Chair Executive Committee

Presented at Asia Clean Energy Forum 2020 (ACEF 2020)

The IEA Bioenergy Technology Collaboration Programme (TCP) is organised under the auspices of the International Energy Agency (IEA) but is functionally and legally autonomous. Views, findings and publications of the IEA Bioenergy TCP do not necessarily represent the views or policies of the IEA Secretariat or its individual member countries.

Coronavirus: a once in century event for energy demand



The shock to energy demand in 2020 is set to be the largest in 70 years. In IEA's estimate, global energy demand declines by 6%, a fall seven times greater than the 2009 financial crisis.

Source: IEA Global Energy Review, 30 April 2020

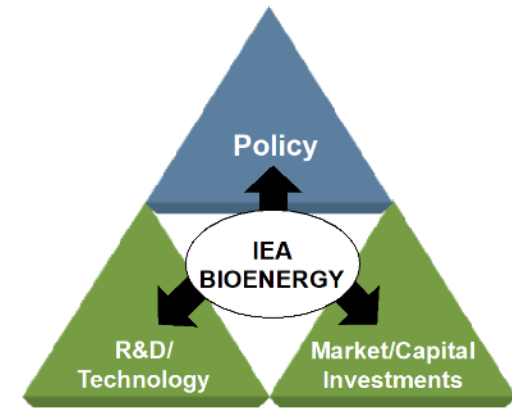
The impacts of the COVID-19 crisis on global energy demand and CO₂ emissions

Impact of Covid-19 on Bioenergy?

- Lower overall fuel demand => lower biofuels demand
- Cheap oil prices => more difficult to compete
- Economic problems for companies and governments
 - => Potential waivers for renewable energy obligations
 - => Or delay investments in green transitions
- + Flexibility (e.g. ethanol diverted to use as disinfectant)
- + Attention for green recovery / requirements for company support
- + Higher focus on regional / local value chains / security
 - ⇒ Improve system resilience and local economy
- + A time to consider opportunities

IEA Bioenergy

Technology Collaboration Programme (TCP)
functioning within a framework created by the
International Energy Agency (IEA)



Goal:

- International **collaboration** and **info exchange** on bioenergy research, technology development, demonstration, and policy analysis
- Facilitate the commercialization and market deployment of **environmentally sound, socially acceptable** and **cost-competitive** bioenergy systems

Work programme carried out through **Tasks** and **Special Projects**, covering the full value chain from feedstock to final energy product

25 members: 15 *European countries* + EC, US, CND, BR, India, Japan, Korea, AUS, NZ, SAfr

IEA Bioenergy Members

Budget in 2020: 2 Million US\$

Tasks: 11 + Special projects

Direct participation: > 200 persons



Bioenergy TCP Action Areas: 2020-2025

A sustainable system for energy and materials supply with biomass

- Demonstrating the key role of bioenergy in a decarbonising world
- Embedding bioenergy into the broader bio-economy
- Incorporating the security, flexibility and stability provided by bioenergy in the fuels, electricity, gas and heating systems

Innovative Technologies

- Enabling the development and application of innovative technologies (collaboration & best practices)
- Developing Advanced Biofuels for Mobility



Bioenergy TCP Actions: 2020-2025

Sustainable Supply Chains

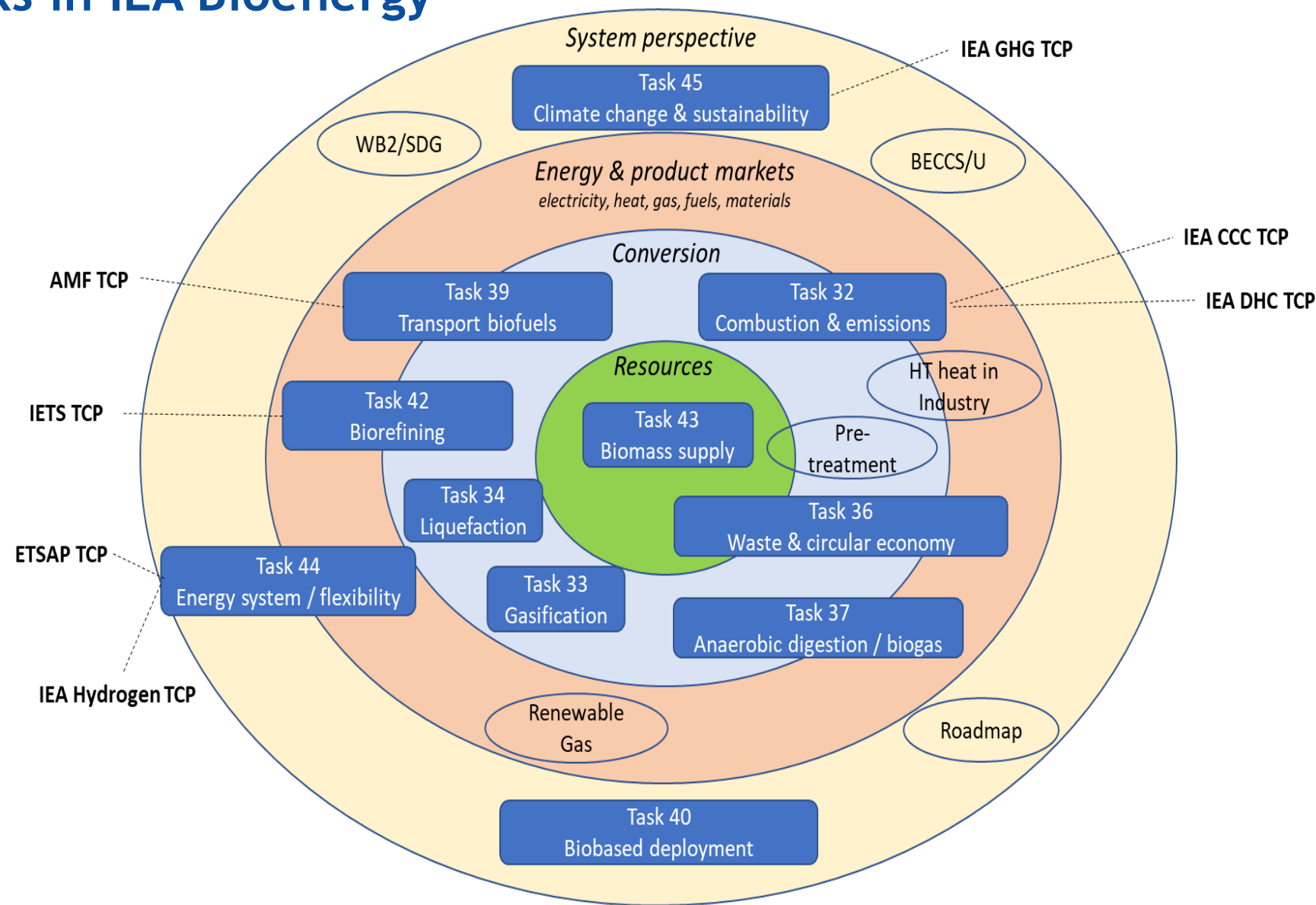
- Through land use and landscape management, biomass production, logistics, market deployment, sustainability governance

Operational Optimisation

- Engaging all relevant stakeholders in a dialogue
- Expanding collaboration with emerging and developing countries
- Ensuring the optimal use of communication channels



Activities/Tasks in IEA Bioenergy



Working with International Organizations

Policy debate, country ownership, advanced bioeconomy



Energy analysis, knowledge

Sustainability, capacity building, cooperation



Renewable energy deployment, development cooperation

Agricultural and biomass practices



Research and innovation promotion, collaboration

Scientific and Technical collaboration



Private sector link



Finance, green bonds

Communication is Key !

Provide clear and verified information on bioenergy

- Inform policy makers, industry and experts
- Fact based input to debates



Approach

- New website
- Bi-monthly webinars
- Presentations
- Workshops & conferences
- Technical reports, with summaries and highlights
- Searchable library
- Position papers / FAQ, e.g.
 - Bioenergy for Sustainable Development
 - Is there enough room for bioenergy in agriculture?
 - Is energy from woody biomass positive for the climate?
- Social media (Twitter, LinkedIn)
- Cooperation with other international organizations
- Assistance of communication experts

Thank you!

Jim Spaeth

Chair - IEA Bioenergy

Tel. +1 720 356 1784

Email: jim.spaeth@ee.doe.gov

Questions?



www.ieabioenergy.com