Overview of funding schemes

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Advanced liquid biofuels from the lab to the market

- Fund research! 0,5 G€?
- Fund pilot plants! 1 G€?
- Fund demonstration plants! 5 G€?
- Support commercialisation! 10 G€?
- The real construction of commercial plants in the following decade: 1 000 G€?



Pilot- and demo-plants

according to IEA task 39





Demo-plants

according to IEA task 39





Directive 2008/101/EC amending Directive 2003/87/EC so as to include aviation activities in the scheme for greenhouse gas emission allowance trading within the Community.

Article 10a

para 8. Up to 300 million allowances in the new entrants reserve shall be available until 31 December 2015 to help stimulate the construction and operation of up to 12 commercial demonstration projects that are aiming at the environmentally safe capture and geological storage of carbon dioxide as well as the demonstration projects of innovative renewable energy technologies, in the territory of the EU.

The allowances shall be made available for support of demonstration projects that provide for the development in geographically balanced locations, of a wide range of CCS and innovative renewable energy technologies that are not commercially viable yet. Their award shall be dependent upon the verified avoidance of CO₂ emissions.

Projects shall be selected on the basis of objective and transparent criteria that include requirements for knowledge-sharing. These criteria and the modalities shall be adopted in accordance with the regulatory procedure with scrutiny referred to in Article 23(3), and will be made available to the public.

Allowances shall be set aside for the projects that meet the criteria referred to in the previous subparagraph. Support for these projects shall be given via Member States and shall be complementary to substantial cofinancing by the operator of the installation. They could also be co-financed by the Member State concerned, as well as other instruments. No project shall receive support via this mechanism that exceeds 15% of the total number of allowances available for this purpose. These allowances shall be taken into account under paragraph 7.



Available near future

- 300 000 000 * 15€ = 4,5 G€
- 1/3 for advanced biofuels
- => 1,5 G€
- Other EU or national funds required: several times as many G€

• Sweden: ≈ 0,1 G€ on call until mid-february



The barrier

- Uncertainty!
 - The oilprice
 - Technology risks
 - The sustainability criteria
 - ETS success risk
 - Quota success risks
 - The EU policy risks
 - The US and Chineese policy and market opportunities

