

**Luncheon Address of Michèle Pappalardo
President, ADEME**

**Plenary Session
Meeting of Carbon Sequestration Leadership Forum
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It is a great pleasure for me to take the floor at this international event on carbon capture and storage, as President of ADEME, the French Agency for Environment and Energy management.

To hold the CSLF conference in France is an unique opportunity to share some issues regarding this climate change mitigation option, the carbon capture and storage. But before to present you some ideas about this topic, I would like to explain why CCS interests me.

ADEME is in charge of implementing public policies in the field of environment and energy efficiency through several types of actions:

- improving knowledge through R&D financial support and networking
- sensibilization of a large public
- providing advices and expertises to all actors (from Government to companies, local authorities and public)
- supporting exemplarity through subsidies for best practices

ADEME is involved in several technology developments dedicated to climate change mitigation:

- energy efficiency in buildings,
- in transport,
- in industrial processes
- development of renewable energy such as photovoltaic, wind and biomass.

ADEME is also involved in other environmental tasks such as:

- domestic and industrial wastes treatments,
- air pollution abatement,
- contaminated soils management and rehabilitation.

Beyond the development of technologies, ADEME brings support to spread them through best practices demonstration, mainly at the territorial level. Our role is to help building projects gathering actors and facilitating the local insertion of merging technologies. The experiences regarding acceptability of wind turbines implementation or waste treatments installations reinforce the need for upstream dialogue with all stakeholders.

So, what is the place of carbon capture and storage in our action?

I'm convinced that CCS is an option for the future but it is not yet a reliable technology. So we have to work on the different aspects of the subject:

- of course, we should develop the technologies of CO₂ capture and explore different conditions of geological storage
- but we have also to study the legal evolutions that are necessary
- furthermore we should demonstrate that the environmental and health impact are not harmful,
- and at the end we have to identify the conditions of social acceptance.

All these steps should not be neglected.

Six years ago, ADEME with IFP and BRGM set up a “club” dealing with CCS issues in order to gather the main actors in the field of research. The Club CO₂ plays a role in term of building research programs, exchanging information at national and international level, facilitating discussion with administration on legal issues and with NGOs on environmental concerns...

Fifteen companies and eight public research organisations are members of the Club. I am convinced that such network is the right place to build a common vision on the future steps of CCS research program and experimentation, in all its aspects.

To end, my message today will be focused on 4 convictions:

- First conviction: CCS is one option among several, within the portfolio of climate change responses. But there is a risk for CCS to be considered as the only solution avoiding to address the necessary changes in our energy consumption. Then, we have to be aware of the fact that CCS should not be presented as an alternative but a complement to energy efficiency enhancement or renewable energy development.
- Second conviction: CCS is still at the stage of research and we should work to demonstrate the feasibility of the whole chain before achieving a global development: economic feasibility of capture technologies, validation of storage concepts, validation of environmental expectations, social feasibility. Any short cut in the development process may results in counter performance.
- Third conviction: As other technological options, CCS is not only a technological matter but a challenge for our society. To become a solid option for the future, CCS should address all the questions and debates at global and local level. CCS installations will be constructed in specific sites with neighbour populations and it is essential to build confidence with all actors at the earlier stage of projects. We should not wait to have a “market ready” technological solution to address sociological issues.
- Forth and last conviction: For these reasons and in order to conduct research, it is necessary to launch experimental demonstrations on real sites. These

experimentations will bring knowledge but also new questions for research. Such demonstration projects are a priority at international level and identified by the European technological platform on Zero Emission Fossil Fuel, ADEME is ready to help such experimentation in France.

Now, I hope you will have a fruitful meeting which will enable you to progress on all these subjects; but before, I wish you a very pleasant lunch.

Thank you for your attention.