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## DOE awards \$4M to carbon capture and storage projects selected as part of ACT (<https://www.greencarcongress.com/2019/11/20191104-doeact.html>)

04 November 2019 (<https://www.greencarcongress.com/2019/11/20191104-doeact.html>)

The US Department of Energy's (DOE) Office of Fossil Energy (FE) announced (<https://www.energy.gov/fe/articles/us-department-energy-announces-4m-projects-collaborate-internationally-and-accelerate>) \$4 million in federal funding for national laboratories to collaborate with international partners on seven projects out of the 12 that were selected as a part of the Accelerating Carbon Capture and Storage Technologies (ACT) Initiative.

The ACT Initiative is a consortium of ten European countries—France, Germany, Greece, the Netherlands, Norway, Romania, Spain, Switzerland, Turkey, the United Kingdom—and the United States.

Together, DOE and the ACT Initiative are funding researchers in each of the

### In Brief

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[BMW introducing Android Auto in vehicles from mid-2020 \(https://www.greencarcongress.com/2019/12/20191212-bmwandroid.html\)](https://www.greencarcongress.com/2019/12/20191212-bmwandroid.html)

participating countries to collaborate on projects that will accelerate and mature carbon capture, utilization, and storage (CCUS) technologies around the world.

The 12 selected projects have a total value of nearly \$49 million, with the ACT consortium members contributing \$35 million of this total. The seven projects with US involvement and funding include three carbon capture projects and four carbon storage projects.

Projects	Activities	ACT, M€	France (ADEME)	Germany (PEJ)	Greece (GSRT)	Netherlands (RVO)	Norway (RCN and Gasnova)	Romania (UEFRCDI)	Spain (AET)	Switzerland (DETEC)	Turkey (TUBITAK)	UK (BEIS)	USA (DOE)
ACZCOM	Oxyfuel technology in cement production	3,0	x	x	x		x			x			
ACTOM	Offshore monitoring	1,5				x	x					x	x
ANICA	Carbonate looping process in cement industry	2,4		x	x								x
DIGIMON	Digital monitoring of CO2 storage projects	5,0		x	x	x	x	x					x
FUNMIN	CO2 mineralisation into anhydrous MgCO3	0,7	x							x			x
LAUNCH	CO2 capture in various industries	5,1		x		x	x					x	x
MemCCSea	Membrane systems for CO2 capture and storage at sea	1,7		x		x	x						x
NEWEST-CCS	Negative emissions in the waste to energy sector	2,2		x		x	x						x
PRISMA	Sorbent materials for energy efficient carbon capture	2,1					x			x			x
REX-CO2	Reusing existing wells for CO2 storage	2,5		x		x	x	x					x
SENSE	CO2 storage sites - ground surface monitoring	2,7		x	x		x		x				x
SUCCEED	CO2 storage coupled with geothermal energy deployment	2,5				x					x		x
		31,5											

(https://bioage.typepad.com/.a/6a00d8341c4fbe53ef0240a4e72704200b-popup)

The table shows the projects' acronyms, their primary activity, the request for funding from ACT and the country partners involved in ACT2. The green marks indicate the lead country for the specific projects. The total budget of the 12 projects is €43.6 million of which €31.5 million is funded by the ACT consortium; private financing amounts to €1.5M with the remaining coming from matched funding from the projects themselves.

### Carbon Capture Projects:

- Lowering Absorption Process Uncertainty, Risks, and Costs by Predicting and Controlling Amine Degradation (LAUNCH).** Los Alamos National Laboratory (LANL) and its subcontractor, the University of Texas at Austin, will work with their partners to establish a fast-track, cost-effective, de-risking mechanism to predict and control degradation of carbon capture solvents. This will help resolve one of the main drawbacks of chemical solvent capture systems that leads to increased costs.  
DOE Funding: \$1,000,000; Non-DOE funding: \$7,118,460; Total Value: \$8,118,460
- Innovative Membrane Systems for CO<sub>2</sub> Capture and Storage at Sea (MemCCSea).** In this project, the National Energy Technology Laboratory is collaborating on the development of hyper compact membrane systems for maritime and offshore applications. The project team will conduct lab- and pilot-scale tests to optimize and evaluate novel ceramic and mixed membrane systems.  
DOE Funding: \$500,000; Non-DOE funding: \$1,656,354; Total Value: \$2,156,354
- Process-Informed Design of Tailor-Made Sorbent Materials for**

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Penske Logistics logs more than 10,000 miles in heavy-duty electric trucks (https://www.greencarcongress.com/2019/12/20191204-pense.html)

Birla Carbon and CHASM Advanced Materials partner to

**Energy Efficient Carbon Capture (PrISMa).** Lawrence Berkeley National Laboratory is partnering on a project that helps to bridge the gap between molecular science and process engineering by developing tailor-made materials for a wide range of carbon capture applications. By coupling these disciplines, the project hopes to bridge the gap that can move promising sorbent materials beyond the lab.

DOE Funding: \$501,000; Non-DOE funding: \$2,724,551; Total Value: \$3,225,551

#### Carbon Storage Projects:

1. **Digital Monitoring of CO<sub>2</sub> Storage Projects (DigiMon).** Lawrence Livermore National Laboratory (LLNL) is collaborating on a project to integrate a broad range of monitoring technologies with data analytics to improve system cost and reliability for carbon storage projects.

DOE Funding: \$514,000; Non-DOE funding: \$6,727,333; Total Value: \$7,241,333

2. **Re-Using Existing Wells for CO<sub>2</sub> Storage Operations (REX-CO<sub>2</sub>).**

In this project, LANL will work with its project partners to develop a procedure and tools for evaluating the re-use potential of existing hydrocarbon wells for carbon dioxide storage. Re-use of existing wells, particularly in offshore environments, can potentially minimize well development costs for CO<sub>2</sub> storage projects.

DOE Funding: \$500,000; Non-DOE funding: \$3,448,544; Total Value: \$3,948,544

3. **Assuring Integrity of CO<sub>2</sub> Storage Sites Through Ground Surface Monitoring (SENSE).** LLNL and its project partners will demonstrate how ground surface movement detection—combined with geomechanical modeling, inversion, and data analytics—can be used to provide information on pressure distribution and hydraulic behavior of storage sites. This project will result in improved reliability and lower costs of carbon storage sites.

DOE Funding: \$487,000; Non-DOE funding: \$4,587,612; Total Value: \$5,074,612

4. **ACT on Offshore Monitoring (ACTOM).** LANL and its subcontractor, the University of Texas Bureau of Economic Geology, are a part of a team that will build a web-based toolkit that will, for the first time, collect algorithms for designing optimal monitoring programs for offshore geologic storage sites.

DOE Funding: \$500,000; Non-DOE funding: \$1,775,063; Total Value: \$2,275,063

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