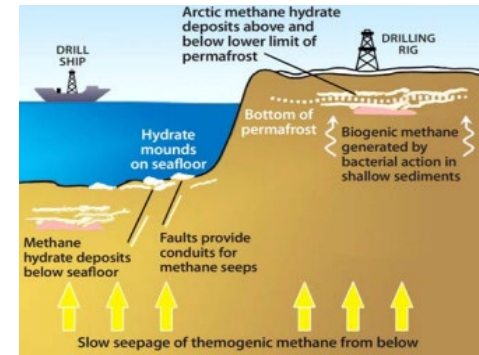
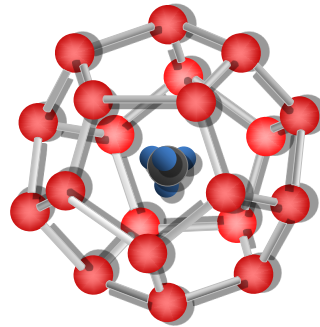




Gabby Intihar
Committee Manager, MHAC
Office of Oil and Natural Gas

Methane Hydrate Advisory Committee Meeting
October 18-19, 2018

Gas Hydrate Program

FY 2018 Spend Plan - \$20.0M

Major Field Projects	\$M	Description
Alaska	12.7	Fund stratigraphic test well and planning (\$12,699K)
Gulf of Mexico	1.16	Deepwater GOM gas hydrate characterization led by UT-Austin via drilling, pressure coring, laboratory experimentation and modeling (\$1,160K)
Smaller Field Projects, Experimental, and Numerical Simulation		
Funding for FY16 FOA Projects	0.9	Final project funding for 4 of 6 projects (\$887K)
NETL Research & Innovation Center (RIC)	2.2	Gas hydrate development and production predictions for planning, performing, and/or analyzing field-scale test scenarios in both Alaska and the GOM that employ improved numerical modeling codes (\$2,195K)
National Labs	0.58	FWP's (PNNL, LBNL) primarily supporting international collaboration (India/Japan/Korea); collaboration with NETL RIC; support FOA work (\$575K)
Interagency Support	0.5	USGS (\$500K)
Program Support		
HQ Taxes/Other Expenses	1.23	HQ site support (\$1,000K); HQ TCF Fund tax (\$180K); audits (\$50K)
NETL Support, SBIR/STTR, Outreach	1.35	Program implementation (\$365K); SBIR/STTR (\$730K); NAS Fellowship (\$250K)
Total Appropriation	20.6	Greater than appropriation due to prior year carryover

Gas Hydrate Program

FY 2019 Budget Request - \$3.5M

	FY 2017	FY 2018	FY 2019
(\$ in thousands)	Enacted	Enacted	Congressional Request
NATURAL GAS TECHNOLOGIES			
Gas Hydrates	19,800	20,000	3,500

- Evaluate the occurrence, nature, and behavior of naturally occurring gas hydrates.
- Conduct early-stage research to translate hydrate resources into energy assets via numerical simulations, fundamental property characterization, and pore scale visualization of hydrate bearing sediments.
- National Lab R&D will focus on characterization of laboratory-synthesized hydrate bearing sediments to provide critical input parameters for simulation of natural gas production.
- Complete review and analysis of core samples and data obtained through field investigations conducted in the Gulf of Mexico in FY 2017 to confirm the nature and regional context of gas hydrate deposits.
- Discontinue funding and planning for a long-term onshore production test in Alaska and further marine resource characterization in the GOM.

Gas Hydrate Program

FY 2019 Congressional Appropriation

- Congress passed the DOE FY 2019 Budget on Sept 21
- \$20 million for the Gas Hydrate Program
- Senate Marks Language from May 2018:

“The Committee recommends \$20,000,000 for methane hydrates. ...The Committee encourages the Department to perform a long-term methane hydrate production test in the Arctic, as proposed in the Methane Hydrate Advisory Committee's earlier recommendations (May 21, 2014) to the Department.”

Gas Hydrate Program

FY 2019 Spend Plan - \$20.0M

Major Field Projects	\$M	Description
Alaska	15.9	Begin funding DOE portion of geo-data well and production test well (\$15,869K)
Gulf of Mexico	0.0	Deepwater GOM gas hydrate characterization led by UT-Austin via drilling, pressure coring, laboratory experimentation and modeling (\$0K)
Smaller Field Projects, Experimental, and Numerical Simulation		
Funding for FY16 FOA Projects	0.05	Final project funding for 2 projects (\$46K)
NETL Research & Innovation Center (RIC)	1.5	Gas hydrate development and production predictions for planning, performing, and/or analyzing field-scale test scenarios in both Alaska and the GOM that employ improved numerical modeling codes (\$1,500K)
National Labs	0.73	FWP's (PNNL, LBNL) primarily supporting international collaboration (India/Japan/Korea); collaboration with NETL RIC; support FOA work (\$725K)
Interagency Support	0.5	USGS (\$500K)
Program Support		
HQ Taxes/Other Expenses	0.23	HQ tax (\$0K); HQ TCF Fund tax (\$180K); audits (\$50K)
NETL Support, SBIR/STTR, Outreach	1.1	Program implementation (\$390K); SBIR/STTR (\$720K)
Total Appropriation	20.0	