

VIII. Administrative Operation

VIII.1 Budget

Table 1: Budget of each fiscal year

(Total of Phase 2 budget is 63 billion yen, total of Phase 3 budget is 30.7 billion yen.)

Phase	Fiscal Year	Budget (Billion yen)	
2	2009	45	} First methane hydrate offshore production test (The first test) (Feb 2012 - Aug 2015)
	2010	45	
	2011	89	
	2012	110	
	2013	87	
	2014	127	
	2015	125	
3	2016	130	} Second test (May 2016-June 2018)
	2017	98	
	2018	79	

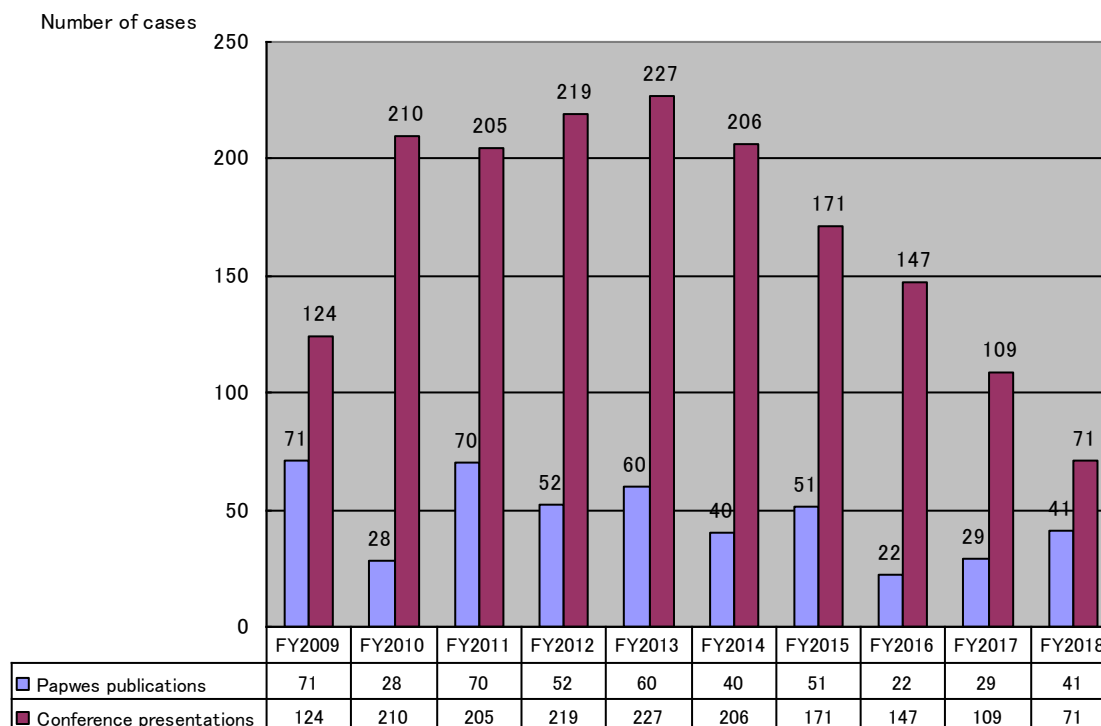
*Includes a research budget for Shallow Methane Hydrate Resources since fiscal 2013.

The sum does not necessarily match due to rounding.

VIII.2 Public Relations

VIII.2.1 Conference Presentations and Publications

Table 1: Conference presentations and publications in Phase 2 and 3 (as of January, 2019)



VIII.2.2 Reinforcement of internal cooperation and PR

(1) Meetings

1) Steering Committee Meeting

This consists of the project leader, two sub project leaders and seven committees. We held 24 meetings during Phases 2 and 3.

2) Liaison Meeting

MH21 held monthly liaison meeting for project management.

3) Technical Liaison Meeting

MH21 held 22 technical liaison meetings from Phase 2 to Phase 3 where participants exchanged technical information about different fields.

4) Three Working Groups

WG1 was organized to consider the reservoir characterization issues such as gaps between simulation and production results.

WG2 looked at mechanical issues such as sand production, and

WG3 looked at flow assurance issues such as gas water separation during production.

5) Launched New Team

Environmental Impact Assessment Team was set up in Administrative coordination group in 2009.

(2) Dissemination of Research Results and Publicity

1) The data and samples provided to the mass media and education-related organizations

Data and samples such as photos, figures and so on have been provided in 680 cases to the mass media and education-related organizations. (As of January 2019)

Table 2: Photographs provided to mass media and education-related organizations (as of January 2019)

Fiscal Year	Mass Media	Education-Related	Others*	Total
2009	17	12	14	43
2010	27	9	28	64
2011	65	11	28	104
2012	59	22	33	114
2013	32	24	33	89
2014	25	26	36	87
2015	8	14	27	49
2016	7	9	30	46
2017	11	9	32	52
2018	4	10	18	32
Total	255	146	279	680

* Photographs provided to homepages of companies and organizations, company newsletters

2) Public Meeting To Report Accomplishments

- *International Symposium on Methane Hydrate Resources from Mallik to the Nankai Trough* was held in 2010.
- In order to disclose the achievements of the Research Consortium for Methane Hydrate Resources in Japan to the public, public meetings reporting the accomplishments of the previous fiscal year have been held eight times from fiscal 2011 to fiscal 2018.

3) MH21 Brochure

We produced a brochure of *Japan's Methane Hydrate R&D Program Phase 2* in fiscal 2014.

4) Videos

We produced videos about records of the first and second offshore production tests.

5) Website

MH21 runs a Japanese website from Phase 1 and updated it for Phase 2. In addition, we launched an English website in October 2010. In Phase 2 and 3, a total of 2,700,000 hits have been recorded (Japanese site: 2,210,000, English site: 490,000), and “Inquiry Corner” had responded to 1,068 inquiries. (As of January, 2019)

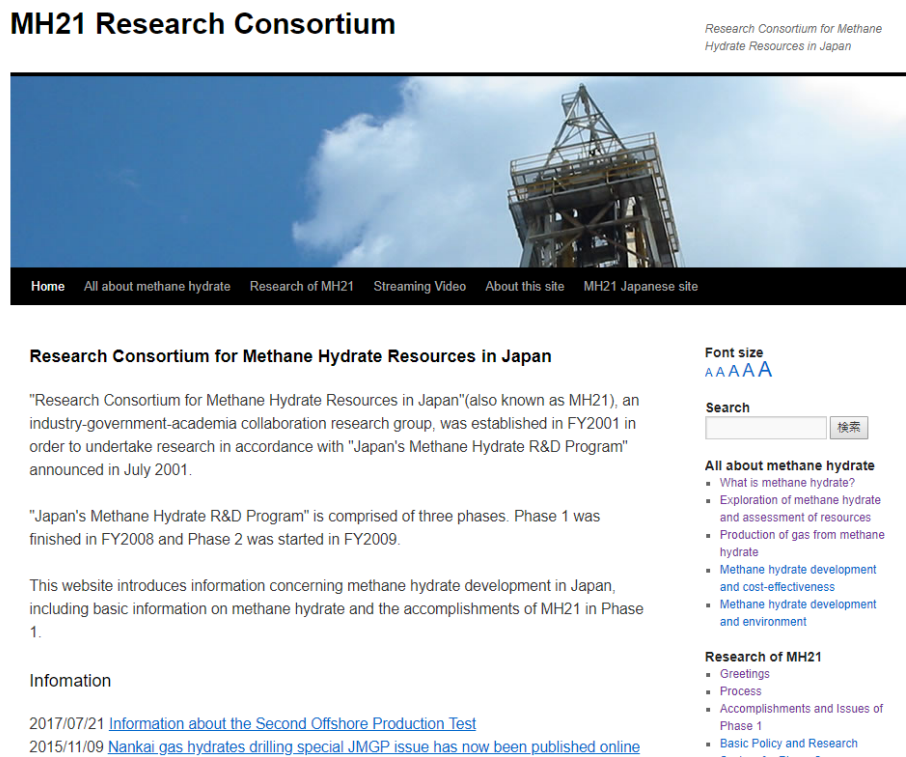
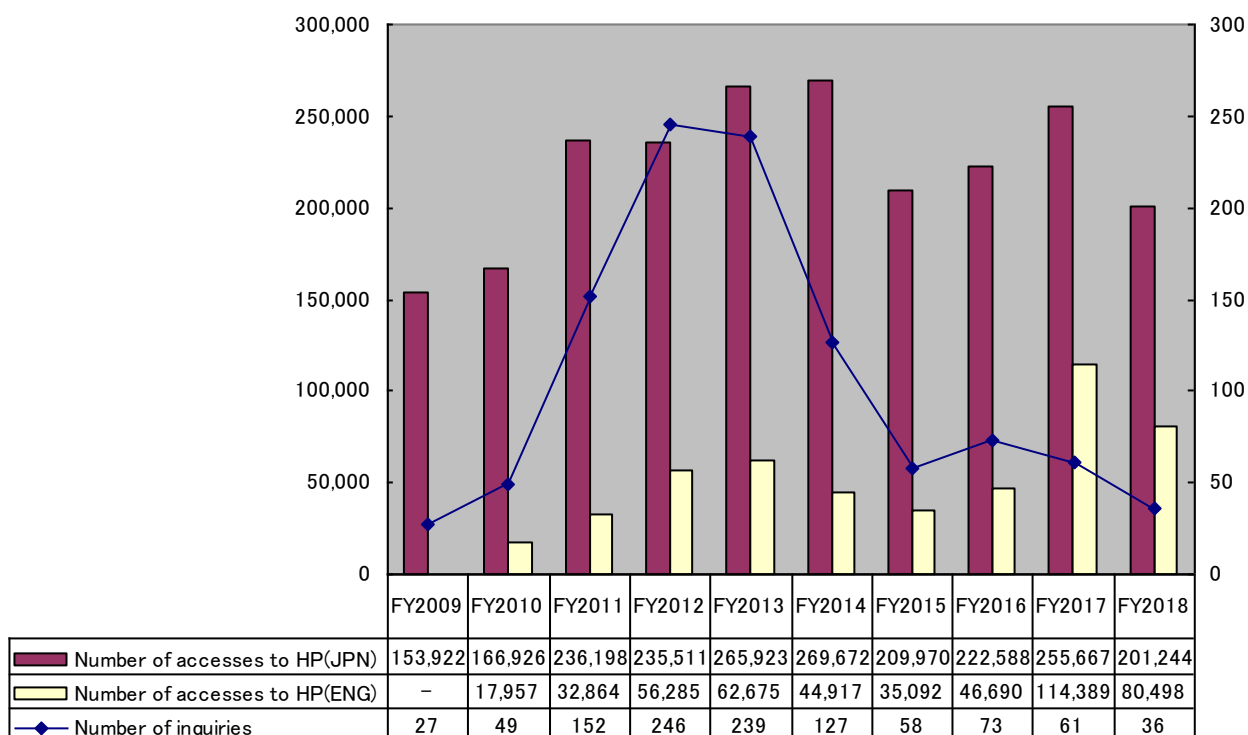


Fig.1. MH21 Website (<http://www.mh21japan.gr.jp/english/>)

Table 3: Year-on-year numbers of access and inquiries to the MH21 website

(As of January 2019)



VIII.2.3 Awards

MH21 or members of the organization received the following:

- Noguchi Memorial Award of The Japan Petroleum Institute in fiscal 2008
- The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, Prizes for Science and Technology (Research Category) in fiscal 2010.
- 54th Japanese Association for Petroleum Technology Prize in fiscal 2010
- Society Award (Academic Division) of the Japan Institute of Energy in fiscal 2010

VIII. 2.4 Patents

The number of patent inventions through Phase 1 to 3 is 24. And the number of patent registrations is 31, includes Japan, U.S.A, Russia, China, Canada, England, India, Norway and Korea.