



HIPS-NET STATUS REPORT YEAR 3

“ESTABLISHING A PAN-EUROPEAN UNDERSTANDING OF ADMISSIBLE HYDROGEN CONCENTRATION IN THE NATURAL GAS GRID”

This status report summarises HIPS-NET activities throughout the preceding year and gives an overview on the spending of financial means. The third network year commenced officially in October 2015 until September 2016.

1. DBI, supported by HIPS-NET partners, issued **four newsletters per year** to inform on latest available knowledge around the core topics:
 - Gas turbines and engines
 - Porous underground gas storage
 - Steel CNG1 vehicle tanks
 - Natural gas as working medium / interconnection of different industries
 - Cross border transmission
 - Safety characteristics of H₂/natural gas blends

Two further core topics were discussed and accepted by the partners during the HIPS-NET workshop in June 2016

- Energy metering
- Standardisation, regulatory framework

We additionally keep a minor focus on the general development of power-to-gas, hydrogen networks, and further topics around the utilisation of (renewable) hydrogen.

We developed and launched the HIPS-NET **website** to support the public recognition of the website as well as to provide a base for the documentation of newsletters, presentations, status report, etc. The website has a public part with general information about HIPS-NET and a members' area, which is secured by individual login and password. The members' area contains a number of documents for download, such as newsletters, publications, presentations, reports and the Power-to-Gas database. The network is prominently displayed with a link on <http://gerg.eu/>. The website address is <http://www.dbi-gruppe.de/hips-net.html>.

Project proposals were developed and presented during the HIPS-NET workshop in June 2016. They could be the starting point for joint research activities of HIPS-NET partners (and further externals). The topics were perceived with interest, but the feedback was limited until now. Further activities are needed for setting up a project group. The proposals are summarised in newsletter #11 page 13.

2. DBI prepared an **annual workshop in 2016** in Brussels. Robert Judd (secretary general of GERG) hosted the workshop in the premises of the GERG office. We are grateful for the kind courtesy. We also thank HIPS-NET partners as well as external speakers, who presented their activities during the workshop and supported the exchange of knowledge between the partners. The workshop was once again well attended as in the previous years; and thus a vivid opportunity for networking activities. The casual dinner prior to the workshop furthered the exchange between the network partners.

The workshop presentations were disseminated between the partners and uploaded in the members' area of the HIPS-NET website. A summary of the presentations held at the workshop was included in the newsletters #11.

3. **Annual Budget:** HIPS-NET is supported by 2,000 € per partner. The network has grown from 30 (in 2014/15) to 32 (in 2015/16) partners. We started in the beginning of the third year with 29 partners and won three new partners, AREVA H₂Gen (FR), Joint Research Centre (BE) and UNIPER Energy Storage (DE). Energiforsk (SE) terminated its membership after the third network year.

The network had an annual budget in the third year (2015/16) of 64,000 € (32*2,000 €).

The overview of the **budget spending** is summarised in the table below:

HIPS-NET - Overview of Budget Spending Including Outlook

Category	Item	Pers.	Time required	2013/14	2014/15	2015/16	running 2016/17	planned 2017/18	
Income	Partner [No.]			30	30	32	36	38	
	Membership Fee			2,000 €	2,000 €	2,000 €	2,000 €	2,000 €	
	Annual Budget			60,000 €	60,000 €	64,000 €	72,000 €	76,000 €	
Expenses	Administration								
	Agreements (2013/14)		15 days / year	8,250 €	- €	- €	- €	- €	
	Agreements (2014/15)		10 days / year	- €	5,600 €	- €	- €	- €	
	Agreements (2015/16)		5 days / year	- €	- €	2,850 €	- €	- €	
	Agreements (2016/17)		3 days / year	- €	- €	- €	1,740 €	- €	
	Agreements (2017/18)		3 days / year	- €	- €	- €	- €	1,800 €	
	Invoicing		1.5 days / year	825 €	840 €	855 €	870 €	- €	
	Miscellaneous (incoming banking fees)		-	19 €	25 €	25 €	25 €	25 €	
	Total			9,094 €	6,465 €	3,705 €	2,635 €	1,825 €	
	Promotion	External Presentation of the Network		3 days / year	1,650 €	1,680 €	1,710 €	1,740 €	1,800 €
Acquisition of New Partners			5 days / year	2,750 €	2,800 €	2,850 €	2,900 €	3,000 €	
Total				4,400 €	4,480 €	4,560 €	4,640 €	4,800 €	
Website	Creation (incl. Subcontracting)		10 days	- €	- €	7,700 €	- €	- €	
	Maintenance incl. minor adoptions 2016		6 days / year	- €	- €	3,420 €	- €	- €	
	Ongoing Maintenance		5 days / year	- €	- €	- €	2,900 €	3,000 €	
	Total			- €	- €	11,120 €	2,900 €	3,000 €	
Editorial Work	Editorial Meeting	3	0.5 days / newsletter	3,300 €	3,360 €	3,420 €	3,480 €	3,600 €	
	Research and Writing of Articles		1.5 days / article	26,400 €	26,880 €	27,360 €	27,840 €	28,800 €	
	Proofreading of Articles		0.5 day / article	8,800 €	8,960 €	9,120 €	9,280 €	9,600 €	
	Layout Newsletter		2.0 days / newsletter	4,400 €	4,480 €	4,560 €	4,640 €	4,800 €	
	Proofreading Newsletter	2	0.5 day / newsletter	2,200 €	2,240 €	2,280 €	2,320 €	2,400 €	
	Total			45,100 €	45,920 €	46,740 €	47,560 €	49,200 €	
Workshop	Preparation		10 days / year	5,500 €	5,600 €	5,700 €	5,800 €	6,000 €	
	Realisation	3	1.5 days / year	2,475 €	2,520 €	2,565 €	2,610 €	2,700 €	
	Location Rent and Lunch (Courtesy of GERG)		-	GERG	GERG	GERG	GERG	GERG	
	Catering (Casual Dinner)		-	1,200 €	998 €	998 €	1,100 €	1,100 €	
	Travel Expenses	3	-	1,152 €	1,154 €	1,200 €	1,200 €	1,200 €	
	Follow-up Work		5 days / year	2,750 €	2,800 €	2,850 €	2,900 €	3,000 €	
	Total			13,077 €	13,072 €	12,315 €	13,610 €	14,000 €	
Final Report	Creation of the Report		1 days / year	1,650 €	1,680 €	570 €	580 €	600 €	
	Total			1,650 €	1,680 €	570 €	580 €	600 €	
Subcontracting	Service Fee + Travel Expenses		-	14,480 €	10,437 €	- €	- €	- €	
	Total			14,480 €	10,437 €	- €	- €	- €	
Total	(Expenses)			87,801 €	82,053 €	79,010 €	71,925 €	73,425 €	
Result	(Income - Expenses)			-27,801 €	-22,053 €	-15,010 €	75 €	2,575 €	

4. Outlook Year 4 | Working Plan

Mandatory responsibilities

- investigating of latest information on hydrogen tolerance/projects
- preparing and issuing a quarterly newsletter
- preparing and holding up an annual workshop (13th /14th or 21st /22nd June 2017)
- preparing a short status report
- project proposals to suggest joint research topics
- acquiring further partners

Additionally scope

- maintaining HIPS-NET website
- updating the Power-to-Gas map
- maintaining cooperation with CEN/CENELEC Sector Forum Energy Management Working Group Hydrogen/TC6/TC234

Three further organisations joined the network for the fourth year. We welcome ONTRAS (DE), INERIS (FR) and Storengy (FR) as new partners!

5. Compendium of 3rd Project Year Newsletter

We attached to this brief status report a table of content of all four newsletters of the previous year with active links to the articles in the newsletters. We hope you find this compilation useful in case you search for distinct information regarding our network topics.

Last but not least

We, Gert, Anja, Stefan, Josephine and Gideon the organisational HIPS-NET team, thank you as partner for your presence in the network. Please feel always free to send us your thoughts on the network, information you wish to share about projects you perform or have heard of, and the ideas we cannot think of at the moment but add value to our network.