



## HIPS-NET STATUS REPORT YEAR 4

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“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 2016 until September 2017.

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 H<sub>2</sub>/natural gas blends
  - 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.

The HIPS-NET **website** supports the public recognition as well as to provide a base for the documentation of newsletters, presentations, status report, etc. It has a public part with general information about HIPS-NET which is kept rather simple to provide necessary information. The other part, the members' area, 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://qerg.eu/>. The website address is <http://www.dbi-gruppe.de/hips-net.html>.

**Project proposals** were developed and presented during the HIPS-NET workshops in June 2016 and 2017. There is a certain interest but not strong enough to get joint projects off the ground. We therefore did not push project proposals forward during the past network year.

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 #15.

- 3. Annual Budget:** HIPS-NET is supported by 2,000 €/a per partner. The network has grown from 30 (in 2014/15) to 32 (in 2015/16) to 35 (in 2016/2017) partners. We started in the beginning of the fourth year with 32 partners and won three new partners, ONTRAS (DE), INERIS (FR) and Storengy (FR).

The network had an annual budget in the fourth year (2016/17) of 70,000 € (35\*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	2016/17	running 2017/18	planned 2018/19	
<b>Income</b>	Partner [No.]			30	30	32	35	36	38	
	Membership Fee			2.000 €	2.000 €	2.000 €	2.000 €	2.000 €	2.000 €	
	<b>Annual Budget</b>			<b>60.000 €</b>	<b>60.000 €</b>	<b>64.000 €</b>	<b>70.000 €</b>	<b>72.000 €</b>	<b>76.000 €</b>	
<b>Expenses</b>	<b>Administration</b>									
	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)		2 days / year	- €	- €	- €	- €	1.200 €	- €	
	Agreements (2018/19)		1 days / year	- €	- €	- €	- €	- €	610 €	
	Invoicing		1,5 days / year	825 €	840 €	855 €	870 €	900 €	915 €	
	Miscellaneous (incoming banking fees)		-	19 €	25 €	25 €	25 €	25 €	25 €	
	<b>Total</b>			<b>9.094 €</b>	<b>6.465 €</b>	<b>3.705 €</b>	<b>2.635 €</b>	<b>2.125 €</b>	<b>1.550 €</b>	
	<b>Promotion</b>									
	External Presentation of the Network		3 days / year	1.650 €	1.680 €	1.710 €	1.740 €	1.800 €	1.830 €	
	Acquisition of New Partners		5 days / year	2.750 €	2.800 €	2.850 €	2.900 €	3.000 €	3.050 €	
<b>Total</b>			<b>4.400 €</b>	<b>4.480 €</b>	<b>4.560 €</b>	<b>4.640 €</b>	<b>4.800 €</b>	<b>4.880 €</b>		
<b>Website</b>										
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 €	3.050 €		
<b>Total</b>			<b>- €</b>	<b>- €</b>	<b>11.120 €</b>	<b>2.900 €</b>	<b>3.000 €</b>	<b>3.050 €</b>		
<b>Editorial Work</b>										
Editorial Meeting	3	0,5 days / newsletter	3.300 €	3.360 €	3.420 €	3.480 €	3.600 €	3.660 €		
Research and Writing of Articles		1,5 days / article	26.400 €	26.880 €	27.360 €	27.840 €	28.800 €	29.280 €		
Proofreading of Articles		0,5 day / article	8.800 €	8.960 €	9.120 €	9.280 €	9.600 €	9.760 €		
Layout Newsletter		2,0 days / newsletter	4.400 €	4.480 €	4.560 €	4.640 €	4.800 €	4.880 €		
Proofreading Newsletter	2	0,5 day / newsletter	2.200 €	2.240 €	2.280 €	2.320 €	2.400 €	2.440 €		
<b>Total</b>			<b>45.100 €</b>	<b>45.920 €</b>	<b>46.740 €</b>	<b>47.560 €</b>	<b>49.200 €</b>	<b>50.020 €</b>		
<b>Workshop</b>										
Preparation		10 days / year	5.500 €	5.600 €	5.700 €	5.800 €	6.000 €	6.100 €		
Realisation	3	1,5 days / year	2.475 €	2.520 €	2.565 €	2.610 €	2.700 €	2.745 €		
Location Rent and Lunch		-	GERG	GERG	GERG	GERG	GERG	GERG		
Catering (Casual Dinner)		-	1.200 €	998 €	GERG	689 €	1.100 €	1.100 €		
Travel Expenses	3	-	1.152 €	1.154 €	1.200 €	1.112 €	1.200 €	1.200 €		
Follow-up Work		5 days / year	2.750 €	2.800 €	2.850 €	2.900 €	3.000 €	3.050 €		
<b>Total</b>			<b>13.077 €</b>	<b>13.072 €</b>	<b>12.315 €</b>	<b>13.111 €</b>	<b>14.000 €</b>	<b>14.195 €</b>		
<b>Final Report</b>										
Creation of the Report		1 days / year	1.650 €	1.680 €	570 €	580 €	600 €	610 €		
<b>Total</b>			<b>1.650 €</b>	<b>1.680 €</b>	<b>570 €</b>	<b>580 €</b>	<b>600 €</b>	<b>610 €</b>		
<b>Subcontracting</b>										
Service Fee + Travel Expenses		-	14.480 €	10.437 €	- €	- €	- €	- €		
<b>Total</b>			<b>14.480 €</b>	<b>10.437 €</b>	<b>- €</b>	<b>- €</b>	<b>- €</b>	<b>- €</b>		
<b>Total</b>	(Expenses)		<b>87.801 €</b>	<b>82.053 €</b>	<b>79.010 €</b>	<b>71.426 €</b>	<b>73.725 €</b>	<b>74.305 €</b>		
<b>Result</b>	(Income - Expenses)		<b>-27.801 €</b>	<b>-22.053 €</b>	<b>-15.010 €</b>	<b>-1.426 €</b>	<b>-1.725 €</b>	<b>1.695 €</b>		

#### 4. Year 5 | Working Plan (running activities 2017/18)

##### Mandatory responsibilities

- investigating of latest information on hydrogen tolerance/projects
- preparing and issuing a quarterly newsletter
- preparing and holding up an annual workshop (14<sup>th</sup> June 2018)
- addressing open R&D subjects and communication e.g. to EC
- preparing a short status report
- maintaining network & acquiring further partners

##### Additional scope (depending on available budget)

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

The network is growing steadily, during in the fifth year from 35 to 36 partners. We gained TGIF (France) as new partner. Welcome to the network! Not valid for the fifth but the next year: Uniper Technology U.K. and Uniper Energy Storage Germany merged its membership in the sixth network year due to the common ownership of Uniper. We keep the supporting colleagues but loose one paying partner for the sixth network year.

#### Compendium of 4<sup>th</sup> Project Year Newsletters

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, Marvin, Josephine and Sylvana 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.