



## HIPS-NET STATUS REPORT YEAR 6

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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 sixth network year commenced officially in October 2018 and finished in September 2019.

1. DBI, supported by HIPS-NET partners, issued newsletters 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.

We agreed in the HIPS-NET workshop in June 2019 to switch the interval of the newsletters from quarterly editions to every two months with shorter newsletters. The trial began with newsletter #23. So, we issued **5 newsletters** during the project year, one more than in the previous years. If we keep the new interval – which will be subject to a decision of the partners during the workshop in June 2020 – we will issue six newsletters in the following years with 5 articles per newsletter. The current ones are a bit longer with 6 articles, we are still in the process to enter the new interval. We often experience situations where exiting project results or reports reach us last minute and we rather include them to the current newsletter instead of postponing them to the following one. Since we are still in the process of catching up with the newsletters due to long sick leave, these longer newsletters contribute to catch the agreed timeline.

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>.

We updated this year the Power-to-Gas Database (worldwide) with intensive research. The data collection is finished and will be transported in a map until the HIPS-NET workshop in June 2020. This work is underway.

2. DBI prepared an **annual workshop in 2019** 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 newsletter #22.

**Additional tasks:** We agreed in the workshop to compile a list of studies that were content of the newsletters in the past 6 years with the according links. This can give an overview and will ease the access to the according part of newsletters.

3. **Annual Budget:** HIPS-NET is supported by 2,000 €/a per partner. The network has grown to 39 partners in 2018/2019. New partners are

- Polymer Consult Buchner GmbH
- Gas Connect Austria GmbH
- Gasnetz Hamburg GmbH

We welcomed the three new partners at the annual workshop in Brussels. The partner DEA Deutsche Erdoel AG changed the membership and entered the network as Wintershall Dea GmbH. The network had an annual budget in the sixth year (2018/19) of 78,000 € (39\*2,000 €).

The overview of the **budget spending** is summarised in annex A.

#### 4. Year 7 | Working Plan

Mandatory responsibilities

- Issuing 6 newsletters in shorter intervals but slightly less extensive than the 4 newsletter per year in the past
- Annual workshop on 3<sup>rd</sup>/4<sup>th</sup> June 2020
- Addressing open R&D subjects and communication e.g. to the EC
- Preparing a short status report

Additional scope (depending on available budget)

- Updating HIPS-NET website (number of views, adjusting layout and content to target group)

- Maintaining HIPS-NET website
- List with links to studies from published HIPS-NET articles
- Maintaining contact to CEN/CENELEC
- Updating Power-to-Gas map

## 5. Compendium of 6<sup>th</sup> Project Year Newsletters

We attached to this brief status report a table of content of all 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, Josephine – the organisational HIPS-NET team – thank you as partner for very much for your continuous support 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.

## ANNEX A:

## HIPS-NET - Overview of Budget Spending

*Including Outlook*

Category	Item	Pers.	Time required	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	running 2019/20	planned 2020/21
<b>Income</b>	Partner [No.]			30	30	32	35	36	36	39	40
	Membership Fee			2,000 €	2,000 €	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>72,000 €</b>	<b>78,000 €</b>	<b>80,000 €</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 €	- €	- €
	Agreements (2019/20)		1 days / year	- €	- €	- €	- €	- €	- €	630 €	- €
	Agreements (2020/21)		1 days / year	- €	- €	- €	- €	- €	- €	- €	630 €
	Invoicing		1.5 days / year	825 €	840 €	855 €	870 €	900 €	915 €	945 €	945 €
	Miscellaneous (incoming banking fees)		-	19 €	25 €	25 €	25 €	25 €	25 €	25 €	25 €
<b>Administration</b>	<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>1,600 €</b>	<b>1,600 €</b>
<b>Promotion</b>	External Presentation of the Network		3 days / year	1,650 €	1,680 €	1,710 €	1,740 €	1,800 €	1,830 €	1,890 €	1,890 €
	Acquisition of New Partners		5 days / year	2,750 €	2,800 €	2,850 €	2,900 €	3,000 €	3,050 €	3,150 €	3,150 €
<b>Promotion</b>	<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>5,040 €</b>	<b>5,040 €</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 €	3,150 €	3,150 €
<b>Website</b>	<b>Total</b>			<b>- €</b>	<b>- €</b>	<b>11,120 €</b>	<b>2,900 €</b>	<b>3,000 €</b>	<b>3,050 €</b>	<b>3,150 €</b>	<b>3,150 €</b>
<b>Editorial Work</b>	Editorial Meeting	3	0.5 days / newsletter	3,300 €	3,360 €	3,420 €	3,480 €	3,600 €	4,575 €	5,670 €	5,670 €
	Research and Writing of Articles		1.5 days / article	26,400 €	26,880 €	27,360 €	27,840 €	28,800 €	29,280 €	28,350 €	28,350 €
	Proofreading of Articles		0.5 day / article	8,800 €	8,960 €	9,120 €	9,280 €	9,600 €	9,760 €	9,450 €	9,450 €
	Layout Newsletter		2.0 days / newsletter	4,400 €	4,480 €	4,560 €	4,640 €	4,800 €	6,100 €	7,560 €	7,560 €
	Proofreading Newsletter	2	0.5 day / newsletter	2,200 €	2,240 €	2,280 €	2,320 €	2,400 €	3,050 €	3,780 €	3,780 €
<b>Editorial Work</b>	<b>Total</b>			<b>45,100 €</b>	<b>45,920 €</b>	<b>46,740 €</b>	<b>47,560 €</b>	<b>49,200 €</b>	<b>52,765 €</b>	<b>54,810 €</b>	<b>54,810 €</b>
<b>Workshop</b>	Preparation		10 days / year	5,500 €	5,600 €	5,700 €	5,800 €	6,000 €	6,100 €	6,300 €	6,300 €
	Realisation	3	1.5 days / year	2,475 €	2,520 €	2,565 €	2,610 €	2,700 €	2,745 €	2,835 €	2,835 €
	Location Rent and Lunch		-	-	GERG	GERG	GERG	GERG	GERG	GERG	GERG
	Catering (Casual Dinner)		-	1,200 €	998 €	GERG	GERG	689 €	1,100 €	1,100 €	1,100 €
	Travel Expenses	3	-	1,152 €	1,154 €	1,200 €	1,112 €	1,200 €	1,200 €	1,500 €	1,500 €
	Follow-up Work		5 days / year	2,750 €	2,800 €	2,850 €	2,900 €	3,000 €	3,050 €	3,150 €	3,150 €
<b>Workshop</b>	<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>14,885 €</b>	<b>14,885 €</b>
<b>Final Report</b>	Creation of the Report		1 days / year	1,650 €	1,680 €	570 €	580 €	600 €	610 €	630 €	630 €
<b>Final Report</b>	<b>Total</b>			<b>1,650 €</b>	<b>1,680 €</b>	<b>570 €</b>	<b>580 €</b>	<b>600 €</b>	<b>610 €</b>	<b>630 €</b>	<b>630 €</b>
<b>Subcontracting</b>	Service Fee + Travel Expenses		-	14,480 €	10,437 €	- €	- €	- €	- €	- €	- €
<b>Subcontracting</b>	<b>Total</b>			<b>14,480 €</b>	<b>10,437 €</b>	<b>- €</b>	<b>- €</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>77,050 €</b>	<b>80,115 €</b>	<b>80,115 €</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>-5,050 €</b>	<b>-2,115 €</b>	<b>-115 €</b>

