

**Information on the Standards Committee for
Heating and Ventilation (NHRS)
in DIN Deutsches Institut für Normung e. V.**

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Standards Committee Heating and Ventilation

1 General

The German Standards Institute (DIN) publishes DIN-Standards as a result of the team work of all interested parties (producers, trade, science, consumers, government administration). These standards are technical rules for the purpose of

- rationalization
- quality management
- safety
- environment protection and
- communication

in the fields of trade and industry, science, administration and in the public area. Usually, the participation in standardization work means to represent interests and to fulfil tasks effecting both costs and benefits for the party concerned.

DIN with its bodies is the authorized national representative in the international and European organizations for standardization (ISO/IEC and CEN/CENELEC/ETSI).

The main goal of the European standardization is to create unique technical rules for the European market which should be compatible and up-to-date.

By harmonization of standards technical trade restrictions will be eliminated for the benefit of suppliers and consumers. Consequently, the activities and financial expenses have been moving from the national towards the European standardization during the past few years (see [statement 1](#) below).

2 Standardization in NHRS

Within DIN the Standards Committee for Heating and Ventilation (NHRS) is responsible for all standardization activities in the field of heating and air conditioning or ventilation systems with their components (including control and safety appliances).

- it participates in the corresponding national, European and international standardization within its field,
- takes care of existing national, European and international standards,
- organizes and looks after (Secretariats) the elaboration of new national, European and international projects,
- co-ordinates the work of German mirror committees of European and international standardization committees.
- sees to a proper adoption of the standards referring to its field of work which are prepared by CEN.

3 Costs and financing of the NHRS

The NHRS budget (according to NHRS budget plan 2007) consists of approximately

71 %	personnel expenditure,
24 %	office and material costs,
3 %	travel expenses and
2 %	other costs (e. g. for meetings, discussion documents),
<u>100 %</u>	<u>altogether.</u>

The high percentage of personnel expenditure of the NHRS budget is caused by the large number of European standardization projects to be worked on (see below, [statement 2](#)).

3.1 Sponsoring non-profit society

The standardization work is partly financed

by government bodies (as project based financing) - ministry for commerce and labour, "Bauministerkonferenz"¹) and by the industry.

Another share of the budget is financed by DIN according to fixed regulations. Among others, parts of the profit from certification in the field of heating and ventilation are used. In the year 2007, approximately 50 percent of the entire NHRS budget were needed to be received by support from trade and industry. The remaining amount of approximately 50 percent is at present financed by DIN using its budget (including shares from certification profits), payments from the government, from the "Bauministerkonferenz" .

3.1.1 Financing by trade and industry

The financial support from the trade and industry is effected by

- the NHRS sponsoring non-profit society "Verein zur Förderung des NHRS (VF NHRS) e. V." according to a fixed contribution scheme (see below, [statement 3](#))
- the NHRS funds for specific projects
- other promoters.

3.1.2 Cost contribution

Since financial support from the interested parties is not sufficient, the NHRS is obliged to adopt the DIN Board Resolution No. 10/1997. Following this resolution, a cost contribution is calculated for each member of any NHRS committee. This contribution is requested from members who do neither belong to the NHRS promotion group nor do support any of the specific projects. For the year 2007, the DIN Board has fixed a cost contribution of € 930.00 (this contribution varies every year) per committee and per member plus sales tax.

- [statement 1](#)
- [statement 2](#)
- [statement 3](#)

¹ Bauministerkonferenz – Konferenz der für Städtebau, Bau- und Wohnungswesen zuständigen Minister und Senatoren der Länder (ARGEBAU)

Statement 1

Contractual arrangement

In 1975, an agreement was signed by the German government and DIN, the German Institute for Standardization, by which DIN was acknowledged as the official standards body of the Federal Republic of Germany. DIN also works to ensure that its standards can be referred to in legislation and legal discourse as sources of necessary technical detail. DIN represents Germany in the international (ISO/IEC) and European (CEN/CENELEC/ETSI) standards organizations. It is a primary goal of European standardization to establish a uniform, consistent and relevant collection of technical standards for the European single market. Harmonized standards serve to lower technical barriers to trade, thus benefitting manufacturers, consumers and users of products. The non-governmental European standards body CEN/CENELEC, based in Brussels, is responsible for harmonizing existing standards developing new ones which apply throughout Europe. CEN/CENELEC is a confederation of the national standards bodies and electrotechnical committees in Europe. In the interests of world trade and technology transfer, European standards (EN) follow as closely as possible those produced by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC). The focus of DIN's standards work and funding has shifted in favour of European standardization, and the proportion of work on purely German standards has shrunk considerably since 1984.

Costs and benefits

The annual economic benefits of standardization were given in the Ceccini study at the launch of the European single market as 10 billion euros for pre-unification Germany, or 1 % of GNP. Other studies have since presented similar figures of 1 % to 1.5 % of GNP. The US researcher Collazzo estimates the economic benefits of standardization to be 1 % of turnover. The annual costs of standardization work of DIN and its stakeholders roughly amounts to € 2.200.000 including 100.000 for the work of the standards body DIN.

The DIN study "The economic benefits of standardization", a summary of which is available on the Internet¹⁾, confirms the economic benefits of standardization for Germany to be approximately 1 % of the GNP (i.e. € 15.9 billion in 1998).

It is the primary goal of standardization to reduce the effort required to solve technical problems by providing exemplary solutions.

The benefits of standardization are also to be seen in the use of conformity with standards as a strategic marketing tool in convincing customers of products and increasing export opportunities

¹⁾ <http://www.din.de>

Statement 2

The costs involved in NHRS (HVAC) full-time standards work at DIN

1 General

As of May 2007, NHRS at DIN is responsible for

- 7 national (DIN) standards projects
- 88 European (CEN) standards projects
- 9 international (ISO) standards projects
- 334 published draft standards and preliminary standards

The standards work is carried out in the four sections of NHRS

- Section 1 *Heiztechnik* (Heating technology)
- Section 2 *Raumlufttechnik* (Ventilation)
- Section 3 *MSR für Heiz- und Raumlufttechnik* (Measurement and control for heating and ventilation)
- Section 4 *Gebäudemanagement* (Facility management)

Having "mirror committees" in the NHRS Technical Committees at DIN, to facilitate expert input for European (CEN) and international (ISO) standards work is of primary importance for stakeholders in Germany, giving them an opportunity to represent their own position in international standards work.

2 Costs

The running costs of the NHRS office are incurred by the organization and management of its national committees, and of the CEN and ISO committees for which NHRS holds the secretariat, and the processing of the work prepared by them. The costs include

- personnel costs
- administration and materials
- travel expenses
- other costs (e. g. meetings and working papers)

Preparing translations of European Standards accounts for a significant proportion of these costs.

Where CEN or ISO secretariats are held by NHRS, it will be responsible for preparing in part or in whole the manuscripts of draft standards, preliminary standards and standards, as well as at least versions in the languages:

- German, English for CEN Standards
- English for ISO Standards

Even if NHRS does not hold the secretariat of a CEN committee, it will still be necessary to translate standards into German. NHRS usually bears the costs of this, thus making a major contribution towards improving the accessibility of European Standards for German-speaking stakeholders. There is still considerable interest in using German-language standards in Germany.

Statement 3

VF NHRS

Verein zur Förderung der Normung des Normenausschusses Heiz- und Raumluftechnik im DIN e.V.

(Association in support of standardization work by NHRS at DIN)

The association regulates its membership fees so that the NHRS office receives a major part of the funds necessary for its work.

Funding should guarantee that significant standards projects, but also those dealing with basic standards and those spanning other sectors can be completed.

The association has the right to make suggestions and be consulted on the NHRS standards programme and its budget.

The non-commercial association was set up on 2002-02-25, and is based at the NHRS office.

Statute of the VF NHRS (([Link zur Satzung](#)))

The FV NHRS has 44 members at present.

The chairman of the VF NHRS is M. Dipl.-Ing. Karl Dungs, Urbach, since the assembly of foundation on 2002-02-25.

Other members of the board are

Dr. Lothar Breidenbach, Cologne, vice chairman

Dipl.-Wirtsch.-Ing. Michael Rabenau, Lotte, treasurer

Dipl.-Ing. Bernd Wattenberg, Frankfurt, chairman of the Standards Committee for Heating and Ventilation (NHRS) in DIN e. V.

[Becoming a member of VF NHRS \(\(Link zur Beitrittserklärung\)\)](#)

Extract from the statutes, covering the regulation of fees

Annual fees (§ 12)

The following annual fees apply:

- | | |
|---|------------|
| 1. Passive members | 400,00 € |
| 2. Individuals active in NHRS committees | 1.600,00 € |
| 3. Companies submitting a self-assessment based on their previous year's earnings in the sector affected by NHRS standards work | |

Turnover	up to 2.5 million €	2.000,00 €
	2.5 million to € to 5.0 million €	3.000,00 €
	5.0 million € to 50 million €	4.000,00 €
	50 million € to 250 million €	8.000,00 €
	over 250 million €	12.500,00 €
4.	Associations/federations submitting a self-assessment based on the previous year's earnings of those members affected by NHRS standards work	
Turnover	up to 0.5 billion €	3.800,00 €
	0.5 billion € to 2.5 billion €	7.500,00 €
	over 2.5 billion €	15.000,00 €
5.	Inspection bodies actively involved in NHRS committees, based on size of committee	
	small (up to 15 members)	2.000,00 €
	medium (16 to 40 members)	7.500,00 €
	large (more than 40 members)	10.000,00 €

1 unit for membership fees is 100 € starting in 2002.