



The New Dimension of Energy-Efficient Homes and Buildings



The eu.bac Association

Targets

- Promotion of Home Controls and Building Automation technologies
- Quality assurance
 - Testing Certification Labelling
- Positioning of Energy Performance Contracting (EPC)
- Proactive support
 - CEN/ISO standardisation
 - Achievement of EU directives
 - Energy efficiency of buildings
 - Energy services
 - Reduction of greenhouse gases emitted by buildings

Foundation

Brussels 2003

Representation

- 85% of the European BACS manufacturers
- BACS market: 4,4 billion € (2012)



eu.bac Members





Proactive fulfilment of European directives



Energy Performance of Buildings Directive (EPBD)

Calculation methods for energy savings

EN 15232 – Energy Performance of Buildings – Impact of Building Automation

Fulfilment of EU directives and national regulations

Implementation of certification and test method

Provision of certification system for national regulations



Functions

- Bundling of technical know-how
- Providing information to
 - Member companies
 - Business
 - Policy Makers
 - Research
- European platform of Home Controls and BAC system and service providers
- Representation of the European Home Controls and BACS industries
- Statistical surveys, market research and case studies, as well as other services for industry and policy makers





Presidency – Board



President Dan Napar Siemens

Board Members

Volker Dragon, Siemens Heinz-Eckard Beele, IMI Hydronics Lukas Eigenmann, Belimo Klaus-Dieter Fuhrmann, IMI Hydronic Nils Minert, Johnson Controls Peter Schoenenberger, Fr. Sauter Hans Symanczik, Kieback & Peter Roland Schweikhardt, Honeywell Michel Ramser, Schneider Electric Klaus Wächter, Siemens Ian Wood, Honeywell Aleksander Zalaznik, Danfoss

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Bertrand Deprez, Schneider Electric Roland Ullmann, Siemens Martin Zährl, Siemens



eu.bac Structure





eu.bac Technical Groups Structure





Intelligent integration of services

- eu.bac promotes the utilisation of integrated and intelligent systems at the European level
- The integration of services offers new opportunities for energy efficiency in renovation and new construction
- eu.bac members create new jobs in Europe within their growing markets





Labelling of BAC equipment

Labels inform about the consumption of thermal and electrical energy and promote the use of energy efficient technologies.



Class A: Best available technology Class B: Advanced technology Class C: Reference level Class D: Inefficient systems



eu.bac Product Labelling

The eu.bac label are granted for 2 areas:

- Home Control Products for products used in the Residential Areas •
- Building Automation Products for products used in the Building automation ٠ environment







eu.bac Building Automation System Label Based on EN 15232



In 2012 the European building automation and controls association **eu.bac** launches a new system audit. The technical recommendations and **Check-list** will help you perform a quick assessment of an existing Building Automation and Control System, otherwise known as **BACS** installation or design and will provide you with targeted **improvement** recommendations that will **Save** you energy and lifecycle costs, whilst improving the comfort conditions.



Energy saving potentials

BACS can reduce thermal and electrical energy consumption* up to

- 26% in educational institutions and hospitals
- 27% in residential buildings
- 41% in hotels and restaurants
- 49% in wholesale and retail buildings
- 52% in offices and lecture halls

* High energy efficiency (Class A) compared to standard equipment (Reference Class C) EN 15232 – Impact of BACS and TBM on energy performance of buildings



Successfully introduced – Quality Management System

Goal

Certification of innovative products that enable higher energy efficiency

Solutions

| \checkmark |
|--------------|
|--------------|

- Calculation methods
- Qualification of testing laboratories and certification authorities
- Implementation of a European certification system

The eu.bac Cert logo guarantees

- Conformity with standards and regulations
- Excellent quality
- Higher energy savings guaranteed

The certification system

eu.bacCert

- promotes the best available technology for system designs and efficiency of components
- shows the consequences in terms of comfort and energy efficiency
- enables calculation of the best affordable technology

• eu.bac cert Partners:

Standards for eu.bac certification

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Technical Committee -TC 247 Building Automation, Controls and Building Management

Energy Performance Contracting (EPC)

The EU Commission demands energy services activities

eu.bac promotes EPC as the solution for more energy efficiency in existing buildings

eu.bac developed procedures to determine EPC potential

- eu.bac has founded the European Association
 of Energy Services Companies (eu.ESCO)
- Additional potentials for energy savings on national and EU-level are enabled by EPC
- Public authorities achieve sustainable development and environment goals

european association of energy service companies

What EPC can achieve

EPC is the key to cost-effective energy efficiency in existing public buildings

energy price increase

Best practices

- Austria: 3000 federal properties
- USA: \$1.9 billion was invested in federal facilities
- Sweden: Nyköping Community
- UK: Royal Gwent Hospital
- UK: IBM
- Germany: City of Berlin

New Perspectives in residential automation

The European Commission expects annual energy savings of 15 % in residential housing starting in 2020.

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 - Eu.bac promotes the standardization of components and systems for home automation.
 - eu.bac guarantees the conformity of certified products with national standards and European directives

New perspectives Building automation secures real estate values

30 percent energy savings starting in 2012

- EU EPBD 2012
- Germany EnEV 2012

Ambient Assisted Living (AAL)

 Age-appropriate assistance for a healthy and independent life

Residential and home automation

- Comfort
- Security
- Entertainment
- Battery-free wireless systems

Source:. Statistisches Bundesamt

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