



**ASSOCIATION OF  
BUILDING ENGINEERING AND EQUIPMENT**

# Purpose of the Association

In the constitution of our association enacted in 1938, the purpose is defined as "This corporation to contribute widely to society by doing business related to comprehensive progress such as planning, construction, equipment, equipment, materials, construction, management in cities and buildings."

And in 1943, the official name of the association "Building Equipment Consolidation Association" officially. The meaning of "comprehensive" in the name of association is not "just collecting", but "willingly integrate each facility in related fields and improve each one" is put in it .

With the times, activities of the association have been changing, but the emphasis of current activities is to conduct projects that contribute to the solution and development of technical issues related to building equipment including the global environment and indoor environment .

As a part of it, the association established a prize system that gives "Environmental and Equipment Design Award" to works that embody excellent "environment and equipment design" just right for the name of comprehensive. Through this award, association are conducting activities to make society recognize the importance of fusion of environment and equipment design" and "people involved in it" widely.



Former Hibiya Dai-ichi Life Main Building  
Completion in 1938

# Greeting

This association celebrated its 80th anniversary in 2018.

Now, members of this association are composed of about 120 organizations including design offices, general construction companies, equipment construction companies, equipment manufacturers, utilities, real estate companies, maintenance companies and about 80 experts. Under the support of that member, we are promoting the operation of the association.

In Japan, the Energy Conservation Standards were reviewed in 2012, the standards for houses and buildings are based on the primary energy consumption, in addition to heat insulation performance, it was integrated into comprehensive evaluation criteria including use of equipment performance and renewable energy. By 2020, compliance with Energy Conservation Standards for all buildings is gradually mandated, and houses and buildings with higher energy conservation performance are being sought.

Furthermore, policy goal is set to "realize net-zero energy building (ZEB) with newly built public buildings etc. by 2020, aim to realize by the average of newly built building by 2030" As a result, technological development in both hardware and software of building facilities, examination of inspection and management methods, etc. have become increasingly important.

In addition, the Tokyo Olympics and Paralympic Games will be held in 2020, and the opportunity will come when Japan as environmentally advanced country will spread various information for high-performance technologies to the world.

Under such a background, the association have been working on "involvement of building facilities in smart city" presided by former president Nobutaka Sato, and recently have engaged in "relationship between smart energy and building equipment" that developed it. In addition, the association is engaged in activities aiming to realize "resilience-conscious building equipment" based on the experience of the Kumamoto earthquake in 2016, and "building equipment conforming to the sustainable development target SDGs" with a view toward the future it will come in.



10<sup>th</sup> President  
Prof. Takashi Akimoto

# History of the Association

## "BE Building Equipment" Journal Itinerary

- **1934** Before World War II, "BE" No.1 published. Many contents of national emergency response such as "war fire under battle" and "composition of air defense factory" under wartime.
- **1950** Post World War II, "BE" published. As a symbol of the revival of the association, published the title of "Life and Equipment" by mimeograph printing, and then moved to "BE (Building Equipment)" by letterpress printing.
- **1959** "BE" No. 100 issue of the postwar restoration published in the February. Feature; Matsumoto Yosaku chairman, Nomi Shinichi director etc. posted a roundtable discussion.
- **1967** "BE" No.200 ". The development of new materials and the application of computer technology finally started, and the themes such as "Application of copper in building facilities", "Application to engineering for construction ventilation by electronic computer" can be seen.
- **1976** "BE" No.300. Research on new comfortable environment systems and urban environmental control devices by the provincial engineering method became popular, and the themes of the feature were "Floor heating", "External heat transfer layer type municipal waste disassembling device"..
- **1984** "BE" No. 400. In the special issue of the 400th issue, a roundtable discussion titled "From now on electric, air conditioning and sanitation equipment" and in addition Prof. Uichi and others contributions were posted.
- **1992** "BE" No. 500. In the special issue of the 500th issue, a roundtable discussion entitled "Problems for the 21st Century" and in addition Prof. Shuichi Fujii, Prof. and others contributions were posted.
- **2001** "BE" No.600. In the special issue of the 600th issue, a roundtable discussion entitled "Building and Equipment Ahead 5 to 10 Years Ahead, Further Looking the Future" and in addition Prof. Mr. Shogo Ogasawara, and other contributions were posted.
- **2008** "BE" No. 687. was posted on the theme of "Knowing things from old things" as a special issue on the 70 th anniversary of the association.
- **2009 – 2016** Basic course published.
  - 2009 Environmental Edition
  - 2010 Electric Edition
  - 2011 Air Conditioning Edition
  - 2013 Sanitary Edition
  - 2016 Architecture Edition
- **2017** "BE" No. 800. is published as the special issue of the 80th anniversary of the association.

History	President	Topics & Tech
1933 Established Building Equipment Research Group	First Ryoji Yoshida	Withdraw from the International League  The first DHC World War II  Korean War Invention of transistor
1934 Started journal "BE Building Equipment"		
1938 Approved as a corporation "Research Institute for Building Equipment"		
1943 Name change to " Association of Building Engineering and Equipment"	2th Yosaku Mastumoto	Tokyo Olympics  Unit bus Apollo 11 moon Landing  Fiber optic communication  The first oil shock Energy saving Law Enforcement Seismic design
1950 Journal "BE" issued the first post World War II		
1951		
1959 Journal "BE" No.100 was published		
1960		
1965 Journal "BE" No.200 was published	3th Senri Kastuta	Intelligent building
1970 The 1st Building Equipment Seminar held		
1975 Journal "BE" No.300 was published	4th Shigeo Mutoh	The fall The internet Great Hanshin-Awaji Earthquake
1976 Seminar, site tours held regularly		
1983 Seminar "Lifecycle cost of building equipment" held 15 consecutive times	5th Yosaku Mastumoto	Internet COP3 Kyoto Protocol
1984 Journal "BE" No.400 was published		
1985	6th Kazuya Hayakawa	Open net work
1989		
1992 Journal "BE" No.500 was published	7th Akira Ishifuku	Toyako Summit  Enforcement of revised Energy saving law 3.11 Great East Japan Earthquake CASBEE AI, IoT
1996 "Global environment" was set as the priority theme to be tackled by the association "New Technology & Product Forum" and "BE Salon" launched Relocate the office to Kenchiku-Kaikan		
1998 The 60th anniversary of the association		
2001 Journal "BE" No.600 was published	8th Takaharu Kawase	Smart grid
2002 "1st Environmental and Equipment Design Award " Awards System launched Judge Committee President Mitsuru Senda (architect)		
2004 "3th Environmental and Equipment Design Award" Judge Committee President Taroh Ashihara (architect)	9th Nobutaka Satoh	ZEB Smart city
2007 "6th Environmental and Equipment Design Award" Judge Committee President Masaaki Furuya (architect)		
2008 The 70th anniversary of the association	10th Takashi Akimoto	4.11 Kumamoto earthquake Resilience-friendly building equipment
2009 Journal "BE" No.700 was published		
2010		
2011		
2012 Transition approved as general association "ASSOCIATION OF BUILDING ENGINEERING AND EQUIPMENT"		
2016 "15th Environmental and Equipment Design Award"		
2017 Journal "BE" No.800 was published		
2018 The 80th anniversary of the association		

# Project

## Monthly Journal "BE Building Equipment" edit / issue

### ■ Editorial policy

The first issue of "BE Building Equipment" was published in 1934, the publication of the magazine was continued monthly except for the era of World War II, and in September 2017 No. 800 was published.

Meanwhile, editing of magazines has been carried out in a comprehensive position to contribute to the development of buildings and building facilities.

We will continue to adhere to its editorial policy and will continue to make magazines focused on important themes from time to time.



### ■ Deployment in the future

We will promote the creation of a new journal as a "place" of mutual awareness raising among members through announcement of academic and technical knowledge and experiences of members. In addition, we promote understanding and application of advanced technology by presenting new research on research and information exchange, and promoting technical exchanges between manufacturers and members and readers.

## Environmental and Equipment Design Award

### ■ Purpose

The roles of environment and equipment technologies in buildings have further increased their weight, and it has become clear that the design of equipment and equipment systems is greatly involved in the design of buildings. We believe that accurate and objective evaluation of environment and equipment design should be widely publicized and recognized in the general public.

To that end, in 2002, we awarded the award to the excellent environment and facility design, awarded it, and established the "Environmental and Equipment Design Award" in order to make it society broadly. By the year 2018 we have repeated the 16th history.



### ■ Award composition

- I Component & Equipment / System Design Division
- II Building and Equipment Integrated Design Division
- III City and Landscape Design Division

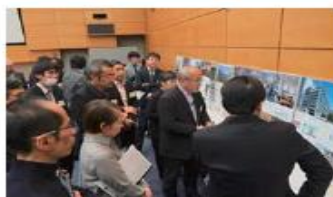
### ■ Evaluation axis

### ■ Types of awards

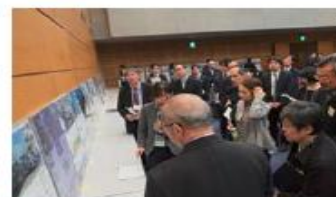
- "Best Award"
- "Excellence Award"
- "BE Award"
- "Winning"



First public review



First public review



First public review



First public review



Second open review



Award ceremony



## Building equipment comprehensive Seminar and Symposium

The purpose of the seminar is to provide timely information on social trends and latest technologies related to equipment and to aim for practical use in concrete terms. Its history is held in October 1972 the first time (Theme "Equipment course for building engineers"), and in August 2018 119 times are counted.

The lecturer is responsible for those who have the industry's most advanced knowledge of building and building facilities, and audiences are welcomed by many people from the top of affiliated companies to young people.

Currently, seminars at a wide range of themes are held twice a year at regular intervals, and symposia on practical themes are scheduled to be held from time to time. Recent lecture themes include energy conservation technology related, global environment related, renewal, next generation indoor environment, ZEB realization and so on have been taken up.

We will continue to hold "Seminar" and "Symposium" of fulfilling contents commensurate with the needs of the times.



Seminar

## New Technology and Product FORUM

For the purpose of connecting equipment manufacturers and association members, the forum took up important technologies of interest of members and provides a forum for technical exchange between members and participating manufacturers. After explanation of technologies / products of manufacturers, supplementary explanation and question-and-answer are given for the panel discussion to delve into the problem in the panel discussion. By doing this, participants can deepen their understanding and the social gathering after completion is a place of business card exchange, technology and information exchange.

The forum is held three times a year, counting 63 times in November 2018.



Forum

## Site tour

Tours of buildings and facilities will be conducted on buildings related to key technical themes such as global environment related technology. During the construction work, the latest indoor environment at the completion, as well as examples of energy saving facility management can be observed, and it can touch the comparison between the plan and the actual.



Green Building Tour

## Research and Development Committee

The The research group will concentrate the technologies of many enterprises on important technologies and issues of high interest in building facilities, and will continue research to improve technology, solve problems, or develop new technologies.

- "Examination of the way of building facilities corresponding to the future energy policy", 2016.08 ~ 2018.02, Chairperson Hideki Yuzawa (Nikken Kogyo Co., Ltd.)
- "Basic Committee on Building Facilities in Smart City Research Committee", 2014.08 ~ 2016.02, Chairperson Hideki Yuzawa (Nikken Kogyo Co., Ltd.)
- "Central Individual Air-Conditioning System Study Group", 2012.06 ~ 2014.03, Chairperson Yoshihiko Tanaka (Mitsubishi Estate Design Co., Ltd.)
- "Air conditioning Energy Measurement Packaging Council II", 2009.06 - 2011.03, Chairman Tatsuo Nobe (Professor, Kogakuin University)
- "Air Conditioning Energy Measurement Packaging Committee I", 2008.04 - 2009.05, Chairperson Tadahiko Ibamoto (Professor of Tokyo Denki University)



Research and Development Committee

## BE Salon and BE Exchange Meeting

The BE Salon · Exchange Meeting is a forum for exchanging opinions with each other or with non-members, and a social gathering in a style of eating in which a wide range of members including business people can feel free to talk. Association director will also take turns as host and attend the meeting. Also, a salon talk is held for about 10 minutes at the salon, and hobbies and time topics are also presented besides technology talks.

The BE Salon is held twice a year, the BE exchange party is held twice a year.



BE Slaon Party

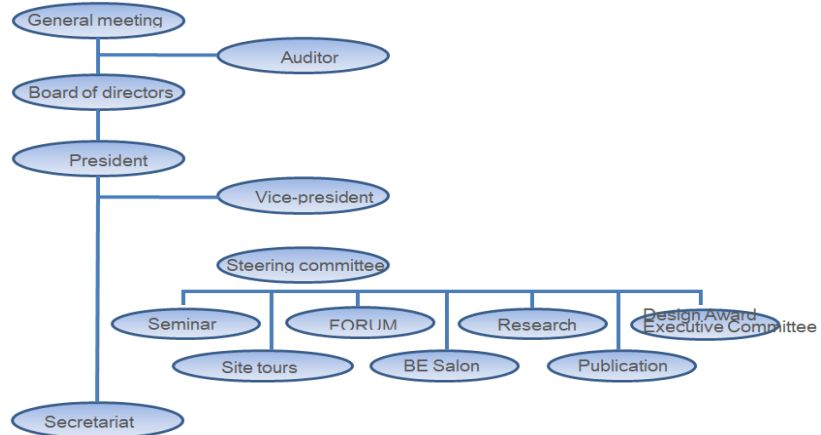
# Member organization

Membership type	Membership requirements	Number of members
Corporate member	Companies and organizations that agree with the purpose of our association	120
Individual member	Individuals who agree with the purpose of our association and participate in management and projects activities	15
Recommended Members	Associate with the purpose of our association, academic experts who support activities	46

Note) Employees under general corporate law \* general corporate law shall be corporate members and individual members

	Corporate member.	Individual member	Recommended member
University officials		4	11
General corporation -Public interest corporation etc.		2	
Utility operator	7	1	4
Design office / consultant	6	2	13
General construction company	6	1	1
Equipment construction company	33	1	5
Equipment manufacturer	40	2	3
Parts / equipment manufacturer	20		
Real estate ,Building maintenance company	4	1	3
Other	4	1	6
<b>Total</b>	<b>120</b>	<b>15</b>	<b>46</b>

# Association organization



# Access map



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