



THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

**ANNUAL REPORT AND FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022**

Charity No. 278104

CONTENTS

Page

1	Trustees' Report
58	Independent Auditor's Report
62	Consolidated Statement of Financial Activities
63	Consolidated and Institution Balance Sheets
64	Consolidated Statement of Cash Flow
65	Notes forming part of the Consolidated Financial Statements

Our Vision

Better performing buildings for society and the environment.

Our Mission

To advance and promote the art, science and practice of building services engineering, to invest in education and research, and to support our community of built environment professionals in their pursuit of excellence.

Our Values

We lead

We are a trusted authority on the present and future challenges facing the built environment; we use our collective expertise and influence to champion the best and most innovative solutions with rigour and integrity.

We empower

We give people knowledge, training and networking and a pathway to professional registration so their work will have a meaningful impact.

We champion

We are vocal and visible in our drive to improve the performance, safety, health and sustainability of the built environment, and we support and celebrate the talented people who make it happen.

We inspire

We are passionate about the quality of the built environment, and we encourage committed people, from every background, to join our community.

President's message

It has been an absolute privilege to be CIBSE President in its 125th year. I have felt a profound responsibility to adequately mark this milestone. This was the motivation behind my call to action for members and the wider industry to 'inspire the next generation' with my five challenges: Celebrate, Inspire, Boost, Share and Engage.

As an institution, we recognise the vital role that building services engineers play in delivering a safe, healthy, and sustainable future, and I wanted these challenges to reflect that.

I have been bowled over by the response these challenges have received, and the enthusiasm and energy with which people have embraced them.

Inspire the next generation

The overarching theme for the challenges was to 'inspire the next generation'. It is of huge importance that we ensure we attract a dynamic, diverse range of people to join our industry, at a time when there is so much to be done to address the consequences of our climate emergency.

My challenges aimed to encourage action, communication and collaboration. They highlight the importance of celebrating and supporting those at the beginning of their engineering journey. They also champion and raise the profile of engineers throughout their careers, together with those who have mentored and nurtured others. These challenges act as a vehicle for celebrating role models, icons, mentors, and achievements and sharing lessons learnt. I wanted them to be a spark for igniting imagination, inspiration and action.

They have also been about sharing our stories. In my Presidential Address, I identified that, as engineers, we often prefer to focus on problem-solving and delivering solutions rather than telling others about the work that we do and the impact it has on everyday life. It is incredibly important that we are better at sharing our stories and our work, representing the diverse and varied routes into the industry and inspiring others to join the journey.

In terms of celebrating – we have had plenty of cause to celebrate in 2022. We held a number of awards across the year, which showcased the talent and expertise in our industry, among them the Building Performance Awards, President's Awards, Young Lighter of the Year Award, and my personal favourite, the Young Engineers Awards (YEAs). It was particularly special for me to be back on that stage 26 years after I was named Graduate of the Year. In fact, my personal experience of the YEAs had a big sway on the theme for my presidential year.

I was once again impressed by the knowledge and innovative ideas presented by those in the early stages of their career. They provided insight into the priorities, direction, and approach required to overcome the urgent challenges that we face.

Just as important as the rising, talented workforce are those who support, mentor and nurture them, boosting them to reach their full potential. I feel extremely fortunate to have received support and encouragement from my employer in the early stages of my career, and this is something that I strive to pay forward in my professional life. It was encouraging to see companies of varying sizes

leading by example in the support and development opportunities that they are providing for early career engineers in those shortlisted for the Employer of the Year Awards.

It's also essential we celebrate the achievements of our longer-standing members – those role models who have paved the way, mentored and encouraged others into and through the industry. It was an honour to be able to recognise eight dedicated CIBSE members with gold and silver medals at the President's Awards Dinner. Their unerring commitment to the industry and the Institution is a real inspiration to everyone.

The CIBSE Building Performance Awards were another great showcase for our collective industry's achievements. It was incredibly inspiring to see so many outstanding, innovative projects making real energy and embodied carbon savings, which will ultimately lead to making the changes required for our new and existing building stock to hit our carbon reduction targets, and our drive towards a net zero carbon future.

Another key pledge for my presidential year was to further strengthen CIBSE's international reach. To this end, I was delighted to visit the UAE region on a five-day trip in September. Whilst there, I signed agreements on behalf of CIBSE, with De Montfort University, Dubai and Manipal University, Dubai to launch CIBSE Student Groups at each university. The agreements are testament to our mutual commitment to supporting building services engineers and the role they play in delivering a sustainable, safer and healthier built environment.

Building safety and the golden thread

The biggest news this year for our industry was the Building Safety Act receiving Royal Assent in April. The Act, introduced in response to the Grenfell Tower fire tragedy and Dame Judith Hackitt's subsequent Independent Review of Building Regulations and Fire Safety, is the most fundamental reform of regulation across the construction and residential property sectors in living memory.

It transforms the law relating to design and construction of all buildings and operation of higher-risk residential buildings and will have an impact on the work of everyone in the construction sector. We all need to be aware of our responsibilities laid out in the Act, and it is vital that we meet those requirements in a way that also delivers net zero carbon-ready buildings. This is the bedrock of what we do.

You can all be reassured that CIBSE is ready to respond and work with the industry to deliver the changes required and is committed to disseminating details of the requirements to help everyone understand their obligations.

Indeed, CIBSE's Technical Team has been involved in the review and consultation with government throughout the process - testament to their expert knowledge - so we can be confident we are in safe hands.

This sharing of knowledge was evident in the first of the new Golden Thread conference series launched by CIBSE this year. The event saw CIBSE Technical Director Dr Hywel Davies provide a comprehensive overview of the Building Safety Act, the integration of the golden thread of

information and the need for safety case processes and regular reporting in higher-risk residential buildings.

We have also been reminded of the fundamental importance of the requirement to provide adequate ventilation with regards to building safety, with the tragic death of Awaab Ishak. Awaab died just before his second birthday as a consequence of mould that grew because his home was inadequately ventilated. Ventilation has been such a major part of the dialogue around reducing the transmission of COVID-19, but Awaab's shocking death reminds us that ventilation is a matter of life safety and, like fire, needs to be treated as such.

Net zero carbon

This year we have seen real progress being made in the drive towards net zero carbon with the launch of the UK Net Zero Carbon Buildings Standard initiative.

The Standard, which is being developed by a cross-industry partnership, including CIBSE, will enable the industry to robustly demonstrate their built assets are net zero carbon and in line with the UK's commitments under the Climate Change Act, by setting out a single agreed set of performance targets for different buildings. It will also enable buildings claiming to be net zero carbon to demonstrate that they meet science-based decarbonisation trajectories.

With buildings being directly responsible for around 40% of UK emissions, there is no credible pathway to net zero for the UK economy without tackling emissions associated with the construction and operation of our buildings. The Standard will help address the urgent requirement for clarity to demonstrate real outcomes and give trust to clients, owners, and occupiers.

I welcome the appointment of David Partridge as Governance Board Chair of the Net Zero Carbon Buildings Standard to further these goals.

CIBSE's *TM65: Embodied carbon of building services: A calculation methodology* is a valuable resource to help support professionals in delivering on targets and transitioning towards a net zero carbon future. I was delighted to see CIBSE publish guidance on using the methodology outside the UK, and a dedicated methodology for Australia and New Zealand. Similar guides are being prepared for other regions as well.

Added to this has been the publication of new guidance on delivering net zero carbon buildings, by the Low Energy Transformation Initiative (LETI) with CIBSE. The guidance is designed to provide clarity on what net zero means for buildings, in practice, in detail. The published definitions are based on meeting operational energy and embodied carbon targets and generating energy from renewable sources. There is clearly a huge benefit to the whole sector in having a common set of definitions and guidance on implementation, so that we all - and this includes clients and occupants - are clear on our goals.

Despite the challenges, we are making headway. A clear demonstration of this was the Building Performance Awards' Project of the Year - Retail/Leisure winner, Cyclone Energy Group, which won for their work with McDonald's Corporation in designing what is believed to be the world's first net zero quick service restaurant at Walt Disney World, Florida, USA. The restaurant's roof solar panels enable the restaurant to generate more energy than it consumes.

And they weren't the only ones. Contractor Michael Lonsdale Group won the Embodied Carbon Award for its pioneering work with suppliers to create a database of low embodied carbon products that enables it to recommend low carbon building services systems to its clients.

It is hugely encouraging to see the progress being made. The innovative approaches, like those of our award winners, and the inspiring new engineers entering our industry give us much to feel optimistic about.

I would just like to finish with a personal message of thanks to each of you for your support in CIBSE's 125th year and for rising to the 125 Challenges I set. Together, let's pledge to continue to inspire and share throughout our career journeys. #Celebrate #Inspire #Boost #Share #Engage.

Chief Executive Officer's message

2022 has been an outstanding year for CIBSE. Our membership numbers have remained high, our guidance output has exceeded previous years, and we have extended our portfolio of events. Together these have allowed us to invest more in engagement, technical guidance, and member services, and thereby increase the impact and role of the building services engineer.

The sheer quantity and quality of the events, products, publications, and training produced is a testament to the expertise, hard work and drive of CIBSE staff and volunteers.

The year also saw the welcome return of in-person events, with the Building Performance Awards in February, Technical Symposium in April and two President's Awards Dinners in February (delayed from 2021) and October. With this being the first time I have attended these events in person, it has been a pleasure to meet so many members and witness first-hand the scope and talent of our Institution. I have been incredibly impressed by the level of quality and content of the events themselves, and also the passion and engagement from all attendees.

The Façade Awards in November were a welcome addition to our calendar. The event, a celebration of the achievements in façade engineering, was a great showcase for this specialist area within our sector. By renewing these awards and offering more assistance to develop them, we strengthen and grow our reach, highlight the diversity of experience and skills across our community and better support our wider membership.

For the same reasons it has been a priority to reach out to our international members; this is particularly important now that 29% of our membership is non-UK based. The international visits to UAE with CIBSE President Kevin Mitchell, and Hong Kong with President-Elect Adrian Catchpole have been two of the highlights of the year. These visits will help foster stronger bonds with our overseas membership and encourage partnerships with like-minded organisations.

We can learn a huge amount from projects and working practices across the world and everyone has a contribution to make. We want all our members to feel valued, supported and engaged, no matter where they are in the world, and intend to continue to reach out to our global membership.

2022 also saw the launch of the new CIBSE website. The updated design is a vast improvement, with better navigation, added features and a membership wizard to help visitors find the right membership grades for them. This new 'shop window' better reflects the work we do and I look forward to further website developments over the next year.

Financially, 2022 has been a very strong year for the Institution, despite ongoing tough economic conditions. The revenue generated from events, training, *CIBSE Journal* and various other income streams will be fed back into CIBSE, allowing us to strengthen our offering to the construction and property sectors, through professional accreditation, guidance and knowledge, training, events and networking.

The expertise and knowledge sharing across our community are also apparent through the vast range of events run by our Societies, Regions and Special Interest Groups. Whilst these events are organised almost entirely by volunteers, CIBSE head office pledges to continue to support them. I would encourage you all to take advantage of the opportunities to attend them in your region.

As well as knowledge sharing and collaboration, we also want CIBSE to be a force for change. Our Technical Team's reach and influence, through our guidance, input into government consultations, and involvement in the building safety review, demonstrates the high regard and respect CIBSE's expertise and knowledge enjoys. With the continued drive to net zero carbon and the ongoing focus on building safety, the output from the Technical Team will remain at the forefront of our work. As such, investing in this team is a priority in the coming year.

Our clear objective is to continue to grow over the next few years, both in respect of our membership and our output. Supporting this growth will be our decision to seek to move CIBSE's head office from its current home in Balham to a more central London location.

CIBSE has enjoyed its south London location for over 44 years, but our building is no longer fit for purpose, and it simply isn't a suitable 'shop front' for the Institution. For CIBSE to develop, increase our reach and deliver greater benefits in line with our charitable goal, we need a home that reflects the world class professional institution that we are, and is more easily accessible to our staff, our volunteers and all our stakeholders.

There is still a lot to be done ahead of any move, most crucially to find a suitable property, but I am incredibly optimistic about this opportunity. The main aim is to provide a desirable head office tailored to CIBSE's needs, which is in a more central location and allows us to better align with the goals of the organisation (decarbonisation, sustainability and building safety). We recognise that this could be a long journey, and so we will be completely transparent as we go through the process, sharing what has worked as well as what hasn't, to enable lessons to be learnt. I look forward to travelling on that journey with you.

It is only right to acknowledge that there have also been challenges in 2022 - rising costs, the 'Great Resignation', economic uncertainty and the ongoing knock-on from the pandemic have all had an impact. Our achievements, despite the challenges, demonstrate CIBSE's resilience in adapting to change, whilst retaining our ongoing position as one of the leading professional engineering institutions.

Finally, I would like to personally thank all our volunteers, members and staff, who have contributed to CIBSE's phenomenal achievements this year. The value each of them provides cannot be overstated and it is enormously important that we acknowledge their contribution. As such, we were delighted to see so many individuals recognised with medals at the President's Awards Dinners in February and October 2022. Each medal winner is an invaluable role model for the industry, who has gone above and beyond to inspire the next generation to make buildings more efficient, safe and sustainable.

CIBSE has so much potential to grow and extend its reputation. To achieve our goals and potential we will continue to listen to the needs of our community, and so I urge you to get in touch and let us know if there are areas where we can better support you, or if you identify any gaps in our products or knowledge.

We all have huge ambition for the Institution and with your help I look forward to seeing it reach its full potential.

Inspire the next generation

The Presidential challenges of Celebrate, Inspire, Boost, Share and Engage, set out as part of CIBSE's 125th anniversary celebrations, demonstrate CIBSE's commitment to supporting, mentoring and advancing the careers of our members and working for the benefit of society. These challenges firmly align with CIBSE's values of: we lead, we empower, we champion and we inspire.

Celebrate

We celebrate our industry's talent and achievements through our portfolio of awards.

Collectively, our awards highlight the vast range of projects, specialisms and individuals within the building services sector. From the Building Performance Awards, which showcase those building projects making a real difference to building performance and the drive towards net zero, to the CIBSE gold, silver and bronze medals, recognising those role models who have made significant contributions to CIBSE and the industry, to the Young Engineers Awards celebrating the new emerging industry talent and those who support and nurture them, there is plenty to celebrate. Our Societies, Regions and Groups also recognise outstanding projects, people and activities within their specialisms and areas.

Each award plays its part in advancing our industry, providing a benchmark for others to strive to achieve and encouraging innovation.

Inspire

We inspire our community and wider society to strive for better and safer building performance.

Our activities promote excellence in the built environment and grow broader public awareness of what we do and the importance of building services engineering to society. *CIBSE Journal*, the annual Building Performance Awards, the Technical Symposium and Build2Perform Live all shine a spotlight

on excellence and share innovation and best practice in building services engineering, as do our Societies, Regions and Groups through their hundreds of events and awards held during the year.

Together these activities maximise the impact of CIBSE's work and demonstrate the breadth, scope and impact of building services engineering to a highly diverse and worldwide audience. By raising awareness, they help people appreciate the benefits of supporting and inspiring building services engineers in their careers and work to improve building performance.

Demonstrating the importance of building safety, good building performance and the link with good building services engineering, reinforces the message that the effective operation of the built environment is crucial to many areas of public life.

Inspiring others to join our community and choose engineering as a career is essential if we are to continue the drive for safer, better performing buildings, meet net zero goals and successfully respond to climate change. We encourage committed people from every background. Through the work of our Inclusivity and Diversity Committee and our commitment to diversity, we aim to attract as broad a range of new engineers as possible.

Boost

CIBSE supports, boosts and champions the diversity, breadth and strength of its membership.

We champion and boost the skills and expertise of our members, raising their profile and giving prominence to the most talented engineers, who value good building performance and building safety and are committed to the delivery of net zero and the benefits that offers to all.

CIBSE membership is a mark of professional development, which can be widely and reliably recognised. Through our corporate grades of membership and route to registration, we accredit competence, enabling members to demonstrate that they meet the standards of competence that will need to be evidenced under the new building safety regime.

We rely on our members to help generate standards and knowledge in building services specialisms for the benefit of industry and the public, both in the UK and internationally. Diversity of CIBSE's membership is central to achieving these goals. CIBSE delivers the greatest benefit to society when its knowledge is drawn from the full spectrum of people and disciplines forming its membership.

Share

By sharing knowledge and training, CIBSE empowers both our members and those who own, operate and occupy buildings. This broad-ranging activity enables people to access the skills and knowledge they need to fulfil their potential, demonstrate their competence and serve society.

Knowledge sharing is one of CIBSE's primary roles and we work with the industry and its clients to serve wider society by developing and publishing internationally recognised guidance and codes.

This knowledge provides authoritative guidance for the safe and effective design, installation, operation and maintenance of engineering services in buildings. It enables engineers to keep up to date with best practice in technology and standards and supports the implementation of policies to improve safety, comfort and productivity of buildings and reduce their carbon emissions.

In an industry that is seeing increasingly complex and changing technology, CIBSE enables building services engineers to keep abreast of the changes and empowers them to deliver the best outcomes for clients and end users. By improving their skills and knowledge and demonstrating their competence, building services engineers can help everyone live and work in safer, healthier and more comfortable spaces.

Engage

We engage with our members, wider built environment professionals, government and building users to promote improvement in the performance of buildings to benefit users, developers and owners.

Building services are key to keeping building users as safe and comfortable as possible, promoting occupant health and wellbeing, minimising the impact of buildings on the environment during construction and use, and driving improved performance and productivity.

Our engagement in government-level discussions and consultations makes us a strong champion for better standards and enforcement. Through our contribution to policy and industry forums, we are driving buildings that are safer, more sustainable and better equipped to meet the needs of society.

Celebrate

CIBSE is proud to celebrate the achievements and successes within the building services industry. Our wide range of awards spotlight the skills talent and expertise that are so vital to ensuring our buildings are safe, comfortable, and healthy places to work and live in.

All the individuals, projects, teams and companies recognised across our awards portfolio, whether winners or shortlisted, should be applauded for their achievements. They exemplify the dedication, drive, innovation and passion pushing our industry forward, and are essential role models.

Building Performance Awards 2022

Celebrating their 15th year, the 2022 Building Performance Awards saw the industry gather for a face-to-face ceremony for the first time since 2020, this time at the new venue of Park Plaza Westminster Bridge, London.

The Building Performance Awards recognise the people, products and projects that demonstrate engineering excellence in the built environment. They are the only industry awards that focus on actual, measured performance outcomes. Entries are open to any organisation internationally that is

responsible for the design, commissioning, construction, installation and operation of low energy buildings and the manufacturers whose products enable efficient energy consumption.

The winners highlight the excellent work being carried out to help create a low carbon future.

Max Fordham LLP secured top honours, being named Building Performance Champion and Building Performance Consultancy of the Year (51-300 employees). It won the top award for its work on St John's College, Oxford, library and study centre, which was named Project of the Year – Public Use. The awards judges praised its consideration of net zero strategies.

AECOM also won two awards, securing Project of the Year – Healthcare, for the Clatterbridge Cancer Centre in Liverpool, a BREEAM Excellent-rated new hospital facility, and Mike Burton being named Engineer of the Year.

Cyclone Energy Group won the Project of the Year – Retail/Leisure, for its work with McDonald's Corporation in designing what is believed to be the world's first net zero quick service restaurant. The restaurant's all-electric design enables it to generate more energy than it consumes over a year.

2022 saw the launch of a new Embodied Carbon Award category, which was won by the Michael J Lonsdale Group for its pioneering work with suppliers to create a database of low embodied carbon products that enable it to recommend low carbon building services systems to its clients. The awards judges said it acted as a champion of the embodied carbon model in the building performance sector, paving the way for clients and other companies to think critically about their carbon output.

Guest speaker, Dame Jo da Silva, Director of International Development at Arup Group, paid tribute to Max Fordham, who died in 2022, saying: 'Max Fordham has left a legacy in the buildings he has designed but more importantly in the thousands of engineers who he inspired during his career. He encouraged them to collaborate and to be curious, creative and courageous.'

CIBSE Medals

CIBSE gold, silver and bronze medals recognise exceptional, outstanding, and distinguished service to CIBSE and the wider industry. They are awarded to those whose contribution has been made through long and loyal service, raising the profile of the profession, inspiring others, and being role models for everyone in the industry. Three gold medals and five silver medals were presented at the annual President's Awards Dinner in October. The gold medal is CIBSE's highest accolade and was presented to George Adams, Tim Dwyer, and to the family of Liz Peck, who sadly died in 2020.

CIBSE Young Engineers Awards

The annual CIBSE Young Engineers Awards bring together the CIBSE ASHRAE Graduate of the Year Award, the CIBSE Apprentice of the Year Award, and the CIBSE Employer of the Year Award to recognise the innovative thinking, hard work and skills of graduate engineers and apprentices, whilst also showcasing employers of all sizes who demonstrate commitment to developing and encouraging young talent.

CIBSE Apprentice of the Year 2022

Winner Technical Level 3-4: Harry Hudson

Harry Hudson is a building services apprentice with Vital Energi, and is one of the first cohort studying Vital Energi's renewable energy and heat networks apprenticeships, in partnership with the City of Liverpool College.

Runners up were Xantha Smee from Otis, and Daniel Bailey from Derry Building Services.

Winner Degree Level 5-7: Louis Kimber

Louis Kimber is an apprentice mechanical engineer at Atkins. He is in year four of his building services degree at the University of the West of England, and achieved his EngTech and LCIBSE membership status in 2019.

Runners up were Lewis Coleing from CPW and Matthew Nash from Jacobs.

The Apprentice of the Year Award, now in its 3rd year, acknowledges the invaluable contribution made by apprentices in building services engineering and related occupations. The award is split to recognise apprentices at every level, celebrating those who have gained their skills and knowledge through a combination of coursework and on-the-job experience.

CIBSE ASHRAE Graduate of the Year 2022

Winner: Sana Hafsa

The Graduate of the Year Award recognises excellence in the early stages of an engineer's career. Sana Hafsa, a graduate of Heriot-Watt University and a sustainability coordinator at AESG in the Middle East, was among eight finalists who presented at the event on inspiring engineers to work collaboratively and holistically to deliver high performance buildings.

Sana's passionate and riveting talk focused on how Heriot-Watt students had collaborated to deliver an innovative solar-powered demonstration home as part of the Solar Decathlon Middle East 2020. She told the audience that every successful project for a high performing building had a vision shared by all team members.

Runners up were Conor Deane of JV Tierney & Co Consulting Engineers, and Eyob Kibrom of AECOM.

CIBSE Employer of the Year 2022

Winner: Fairheat

The CIBSE Employer of the Year award recognises employers' commitment to supporting and developing young engineers.

Employers are asked to show how they boost their young engineers, place them at the centre of their business and invest in their career progression, with clear strategies for recruiting, nurturing and empowering them.

Fairheat took the overall prize, also winning in the small company category after demonstrating their commitment to developing young talent and creating opportunities for young people to thrive. A core principle of the company is 'to develop the industry leaders of tomorrow.' CWP was the winner in the medium company category, with AECOM taking the large company title.

Façade Design and Engineering Awards

The Society of Façade Engineering relaunched their annual awards, joining forces with ZAK World of Façades London Conference, increasing the number of awards and introducing a new Young Façade Engineer of the Year Award.

Simon Bate, from Buro Happold, was named Young Façade Engineer of the Year. He was praised for his diligence, rigour and maturity, particularly when working on some of the most challenging projects relating to the remediation of combustible cladding.

Chris Macey, joint founder and CEO of Wintech Group, was awarded a Lifetime Achievement Award in recognition of his contribution to the development and promotion of façade engineering.

The awards were established to promote and recognise the importance of the science of façade engineering and its contribution to the built environment.

Society of Light and Lighting (SLL) Young Lighter of the Year

Winner: Scott Kluger

Now in its 28th year, the annual SLL Young Lighter competition is open to anyone with an interest in light and lighting. The 2022 finals were held online for the third year running. The competition is designed to test not just the finalists' ability to develop a lighting project, but also their presentation skills, allowing entrants to illustrate their knowledge and research on a lighting subject and raise their profile.

Scott Kluger, from Hoare Lea, was named 2022 SLL Young Lighter following his presentation *Daylight harvester: A tool to enhance lighting operational performance*. Scott has worked on a broad range of lighting projects across the UK and overseas and is continuously seeking to improve the balance between human-centric and planet-conscious lighting design.

Building Simulation Award

Winner: Daniel Sánchez-García

Young Modeller winner: Shweta Salvankar

These annual awards, established by the CIBSE Building Simulation Group, encourage innovation in building simulation techniques and recognise the outstanding contribution of young engineers, apprentices and sustainability consultants working with building simulation.

Daniel Sánchez-García of University Carlos III of Madrid won the CIBSE Building Simulation Award for his presentation *Adaptive comfort-control-implemented model (ACCIM), transforms PMV-based into*

adaptive setpoint temperature EnergyPlus building energy models. The judges recognised the novelty and robustness of the simulation method in the winning entry.

Shweta Salvankar, from Cardiff University was named CIBSE Young Modeller. The judges were very impressed with her study aimed at optimising both embodied and operational carbon using a range of modelling tools.

Society of Digital Engineering Awards

The winners of the Society of Digital Engineering (SDE) Awards were unveiled at Build2Perform Live in November. The awards celebrate progress and excellence in digital engineering across built environment professionals, recognising those working in the built environment who are contributing to the digitalisation of what we do, where we live and how we experience it, including technicians, engineers, developers, designers, contractors, manufacturers or any group or team who are making a difference in their field.

Atkins, member of the SNC-Lavalin Group, won the overall Digital Champion Award for their project Decarbonomics. This award, based on all the category winners, celebrates the entry that the judges felt best exemplified what the SDE represents in terms of contribution to industry.

Full list of awards

CIBSE Gold Medals

Awarded at October 2022 President's Awards dinner

George Adams

Tim Dywer

Liz Peck

CIBSE Silver Medals

Awarded at October 2022 President's Awards dinner

Paul Angus

Gary Jones

Martin Liddament

David Stevens

Tony Sung

Bronze Medals

Sukhjinder Bhamra

Chi Ming Chung

Mary-Ann Clarke

Susie Diamond

David Doherty

Reid Donovan

Les Hicks
Ken Kelly
Mathew Klintfalt
Peter Long
Paul Martin
Steven Peet
Imran Shaikh

Barker Silver Medal: *Residential retrofit in the UK: The optimum retrofit measures necessary for effective heat pump*, by Joseph Lingard

Dufton Silver Medal: *Towards active buildings: Rating grid-servicing buildings* by Ian Walker, Stephen Allen, Matthew Roberts, Daniel Fosas, David Coley, Elli Nikolaidou.

Carter Bronze Medal: *Evaluating the perception of thermal environment in naturally ventilated schools in a warm and humid climate in Nigeria* by Yingchun Ji and Charles Munonye.

Napier Shaw Bronze Medal: *Modelling elevator traffic with social distancing in a university classroom building* by David Swinarski.

Ken Dale Travel Bursary: Aluwaine Manyonga

President's Prize: CIBSE Undergraduate Award: Basem Ghanemi Pilar

The Happold Brilliant Award: University College London

Society of Light and Lighting Young Lighter of the Year: Scott Kluger

Leon Gaster Award: Christopher Kyba, Andreas Ruby, Helga Kuechly, Bruce Kinzey, Naomi Miller, Jessie Sanders, John Barentine, Ralph Kleinodt and Brian Espey

Walsh Weston Award: Ayesha Batool, Peter Rutherford, Paul McGraw, Timothy Ledgeway and Sergio Altomonte

SLL Regional Award: Bonnie Brooks

SLL Lighting Award: David Mooney

SLL Honorary Fellowship: Peter Hunt

SLL President's Medal: Peter Raynham

CIBSE Building Simulation Awards

Building Simulation Award: Daniel Sánchez-García

Young Modeller: Shweta Salvankar

Façade Design and Engineering Awards

Project of the Year, Refurbishment: Arup, The Burrell Collection

Project of the Year, Sustainability (UK): Arup, 1 Triton Square

Project of the Year, Innovation (UK): Skanska UK, Outernet London

Project of the Year, Innovation (International): Eckersley O'Callaghan, K11 Art and Cultural Centre

Project of the Year, New Build (UK): Wintech, LSE

Project of the Year, New Build (International): Buro Happold, The Museum of the Future

Product of the Year: Joint winners: Serge Ferrari AG, Stamisol Safe One; and Effisus UK, Ecofacade

Young Façade Engineer of the Year: Simon Bate

Lifetime Achievement Award: Chris Macey

Society of Digital Engineering Awards

Best Process and its Application: Atkins, member of the SNC-Lavalin Group, Decarbonomics

Best Project and Collaboration: Buro Happold, Museum of the Future

Best Consultancy: Buro Happold

Best Contractor: Kane Group

Best Manufacturer: Schindler Elevator Ltd

Best Digital Engineer: Mateusz Lukasiewicz, KEO International Consultants

Digital Champion 2022: Atkins, member of the SNC-Lavalin Group, Decarbonomics

Young Engineers Awards

CIBSE Apprentice of the Year – Technician Level 3-4: Harry Hudson

CIBSE Apprentice of the Year – Degree Level 5-7: Louis Kimber

CIBSE ASHRAE Graduate of the Year: Sana Hafsa

CIBSE Employer of the Year, overall winner and small company winner: Fairheat

Employer of the Year, medium company: CWP

Employer of the Year, large company: AECOM

CIBSE Building Performance Awards

Building Performance Champion: St John's College, Oxford, Library and study centre – Max Fordham

Building Performance Consultancy (up to 50 employees): XCO2

Building Performance Consultancy (51-300 employees): Max Fordham

Building Performance Consultancy (over 300 employees): Buro Happold

Collaboration: Echo Court – Fairheat

Facilities Management: Legal and General Investment Management TBPE – Hoare Lea

Learning and Development: BEEP Student Camp, Indo-Swiss building energy efficiency project (Indo-Swiss BEEP), Bureau of Energy Efficiency, Government of India, Swiss Agency for Development and Cooperation

Product of Innovation – Wellbeing: Eco-Duo – Water Kinetics

Product or Innovation – Air Quality: Philips UV-C Upper Air Disinfection Luminaires – Signify

Project of the Year – Healthcare: Clatterbridge Cancer Centre – AECOM

Project of the Year – Retail/Leisure: McDonald’s Global Flagship – Buena Vista – Net Zero Energy – Cyclone Energy Group

Project of the Year – Public use: St John’s College, Oxford, Library and study centre – Max Fordham

Building Performance Engineer of the Year: Mike Burton, Director – AECOM

Embodied Carbon: Michael Lonsdale Group

Inspire

CIBSE worked to raise the public profile of the importance and contribution of our members and the Institution throughout 2022, maximising reach through diverse communication routes, including events, digital media, press coverage, and wide-ranging and impactful social media channels.

The year also brought an opportunity to make all our main digital communications channels more inclusive and easily accessible with the launch of the new CIBSE website. The website supports the increased use of the Institution's knowledge and expertise to deliver better, safer buildings and shape the debate around critical issues in the building services sector.

CIBSE Build2Perform Live

29 November – 30 November 2022

CIBSE Build2Perform Live 2022 was back in-person at a new venue, ExCeL London, and welcomed 1954 attendees over the two days. The technical programme included the following key topics:

- The UK Net Zero Carbon Buildings Standard
- The Building Safety Act
- Provision of heating in all electric buildings
- Embodied carbon
- The SLL Code for Lighting 2022

These sessions were complemented by three CPD theatres, which featured a range of exhibitor and supporter content to aid the sharing of industry knowledge to tackle the most significant issues in the building services sector. Details of the 2022 event and 2023 programme are available at

www.build2perform.co.uk

CIBSE Journal

With the increased focus on building safety and the drive towards net zero carbon, *CIBSE Journal* continued to be an important resource to help disseminate news and vital regulation updates in 2022 to members and the wider readership.

The Journal included extensive coverage on the Building Safety Act, providing vital information on the requirements and obligations for anyone working in the built environment sector.

There were a number of features focusing on the drive towards net zero carbon, including an interview with David Partridge, Chair of the governance board overseeing the development of the Net Zero Carbon Buildings Standard.

The Journal helped support and celebrate CIBSE's 125th anniversary with a special edition in June featuring an overview of CIBSE developments in the last 125 years, an interview with CIBSE President Kevin Mitchell introducing his five challenges, a look at future structures, and a feature inviting industry figures to celebrate their career pioneers.

The September edition saw the CIBSE Young Engineers Network (YEN) guest-editing. The edition included an interview with Raphael Amajuoyi, 2017 CIBSE Graduate of the Year, and contributions from YEN members including Samreet Singh, Liv Stokes and Global YEN Chair Gemma Taylor.

The magazine also showcased the outstanding projects, companies and people who were recognised at the CIBSE Building Performance Awards and the Young Engineers Awards.

There were international features on the air conditioning system of Dubai's new indoor rollercoaster, the striking Edge Suedkreuz office development in Berlin with its atrium of 'flying' staircases and timber-clad concrete 'trees', and the retrofit of the Electricity Supply Board's offices in Dublin focusing on the innovative heating and ventilation systems.

There were also articles targeted at furthering the diversity agenda, with a cover feature in January looking at the need to cater for neurodiversity in the built environment, which spoke to experts and an engineer with dyslexia to find out how the industry can help neurodiverse people thrive. Other stand-out features included an interview with Cundall's first female boss, Carole O'Neil, with a focus on developing and retaining diverse talent, and an article on CIBSE's new Inclusivity and Diversity Committee.

More broadly, the Journal continued to support CIBSE's priorities, guidance, consultations and events and those of the CIBSE Societies, Regions and Groups.

A standalone CPD supplement was produced in November, featuring the full list of companies in the CPD Directory, additional CPD modules, sponsored Q&As from manufacturers and a foreword from

the Chair and Vice-Chair of the CPD Panel. A number of special sections were also produced in 2022, covering: commercial heating, hotels and leisure, lighting, health and wellbeing, and education facilities.

The Journal hosted six sponsored webinars covering a wide range of subjects, including drinking water hygiene, lighting and building regulations, designing new pump technology into older spaces, space requirements for emergency generators and building regulations and the role of heat pumps. All are available on demand through the *CIBSE Journal* website. A further podcast covering the benefits of distributed pumping in HVAC applications was added to the Journal podcast library.

The *CIBSE Journal* website continued to attract high visitor numbers, with an average of 29,000 monthly users. The website is supported by regular social media activity highlighting features and news stories and a monthly Journal e-newsletter sent to members, which includes a link to the digital edition.

cibsejournal.com

jobs.cibsejournal.com

Media relations

In 2022, CIBSE's media relations led to national press coverage around the Building Safety Act, asking the question of whether Grenfell was the construction industry's Piper Alpha, in terms of the need for urgent cultural change. CIBSE's overheating in buildings expertise gained national press coverage with Dr Anastasia Mylona, CIBSE Head of Research, providing guidance on staying cool at home. CIBSE was also a partner in the coverage of the cross-industry collaboration to deliver the UK Net Zero Carbon Buildings Standard.

You can see overheating coverage via the following links:

Sky News - <https://news.sky.com/story/is-insulation-making-your-house-hotter-in-summer-and-how-can-you-cool-it-down-12650742>

Daily Express - www.express.co.uk/life-style/property/1639194/how-to-keep-home-cool-heatwave-bowls-water-houseplants

CIBSE received coverage in the trade press throughout the year, averaging five stories per month. The areas that received the most coverage were: TM65: *Embodied carbon calculation methodology* and associated titles; the launch of the CIBSE LETI Net Zero FAQs and proposed definitions; CIBSE's involvement in the Net Zero Carbon Buildings Standard; CIBSE's work around the Building Safety Act, including the launch of an introductory course; flagship events including the Building Performance Awards and CIBSE Build2Perform Live; overheating in residential premises; and reference to CIBSE guidance within new Approved Documents F, L, O, and S.

CIBSE received press coverage in 51 unique outlets with a combined total of 31.5 million readers.

Social media

In 2022, CIBSE gained a sustained, substantial growth in followers, engagement, and impact across our social media accounts, registering an overall gain of 11%. LinkedIn continues to be our fastest growing and most engaged audience with a 15% rise. The Marketing Team has increased video and photo content created and shared across platforms.

As part of the CIBSE 125th Anniversary, CIBSE President Kevin Mitchell set five challenges that featured across all CIBSE's social media channels during the year. The year-long campaign attracted extensive engagement and generation of content from CIBSE members and the wider industry.

Additional highlights included contributions from CIBSE members sharing their career journey and insights from early career engineers about what inspired and motivated them to pursue a career in building services engineering.

The challenges also received social media support from a number of other organisations, including the Royal Academy of Engineering, the Engineering Council, UCL, the Carbon Trust, and Building Controls Industry Association.

Alongside the main CIBSE social media accounts, there are numerous communities of interest accounts representing our Societies, Regions, Special Interest Groups and Networks.

CIBSE has 94,915 followers across our main social media platforms, an overall growth of 11%. We increased the use of LinkedIn articles to encourage greater engagement in longer-form content.

Growth on individual platforms:

Platform	Followers	% Growth
Twitter	25,737	1%
LinkedIn	66,086	15%
Instagram	1,551	20%
Facebook	1,541	5%

YouTube

CIBSE's YouTube channel continued to grow in 2022, and overall view time on the channel is up 42% to 4,700 hours, with subscribers up 35% to 2,258 and views up 31%. The channel posts a combination of CIBSE and CIBSE community content. In 2022 we increased our internal resources to support our community with higher-quality video content.

Our most viewed videos were:

- NEC4 Top tips – 3,100 views; 656 hours of view time
- Architecture, engineering and construction in the metaverse – 2,900 views; 213 hours of view time

- A day in the life of a building services engineer – 2,200 views; 278 hours of view time
- Understanding fan performance and system effects – 1,500 views; 144 hours of view time

www.youtube.com/c/CIBSEUK

CIBSE website

The new CIBSE website was launched in June 2022 and significantly improved the user experience. The improvements were based on feedback and in consultation with members, volunteers and customers. Some of the most significant changes are:

- A dedicated training section, enabling simpler user journeys to find and purchase training
- A new 'policy and insight' section, providing better visibility of news, policy and consultations
- A 'get involved' section with volunteering opportunities and access to CIBSE Societies, Regions, Groups and Networks
- A 'related content' function, which enables better cross-referencing of information, helping users find things of interest
- A 'membership wizard' feature, making accessing the most relevant membership grade easier
- An improved user journey through the Knowledge Portal which allows members to download knowledge more efficiently
- Fully responsive, allowing visitors to easily read and browse from any tablet or mobile device.

We are proud of the new website, which provides an improved ability to change, update and enhance it.

The website continues to provide global reach, gaining visits from over 150 countries in 2022. The website attracted 3.3 million page views and 1.1 million user sessions. Our voice, influence and impact are being heard, felt and listened to worldwide.

www.cibse.org

Boost

CIBSE is the leading professional body for the building services profession, with more than 20,000 members in 96 countries serving the global construction engineering sector. CIBSE members are part of a network that offers professional support and expertise across the globe. They work in partnership with other professional bodies, and construction and engineering firms worldwide to deliver engineering excellence in the built environment.

Supporting engineers into CIBSE membership and professional registration remains at the centre of the Membership Department's mission. We continue to develop initiatives to increase professional competence.

CIBSE provides members with:

- Unlimited access to the Knowledge Portal, with digital access to all CIBSE guidance across a vast range of sub-specialisms
- Subscription to CIBSE Journal, CIBSE email newsletter, BSER&T and LR&T journals
- Preferential rates on printed copies of guidance from CIBSE and other publishers
- Extensive opportunities for professional development and networking through discounted CIBSE training, our approved CPD training and our diverse network of Societies, Regions and Groups offering CPD online and face-to-face.

In 2022 CIBSE members and staff continued to contribute to the building safety agenda through the Engineering Council, BSI, Building Regulations Advisory Committee, government and chairing and representation across several of the 12 working groups set up under the industry Competence Steering Group.

We have progressed with streamlining our processes and procedures whilst keeping them robust to help applicants demonstrate their competence.

Through membership development activity, we have engaged with 2000 members through webinars, workshops and company presentations to promote CIBSE membership and the benefits of professional registration.

We continued to work with our Societies to provide discipline-specific competence examples for our applicants, in order that our Society members can progress through CIBSE membership and to registration with the Engineering Council. We currently have examples for façade, lighting and digital engineers.

CIBSE was approved as an assessment body in Australia for the Board of Professional Engineers Queensland and we have submitted our application to Victoria. We can therefore assist members and non-members in obtaining their required state registration. Non-members have the option to join CIBSE after their successful assessment.

2022 was CIBSE's first full year of Ofqual recognition for End Point Assessment (EPA). We have reviewed and enhanced our internal quality assurance procedures to ensure that our assessment is valid, reliable, and comparable at all times. In 2022, we received 146 applications from apprentices for their End Point Assessment, an increase of 40% from the previous year.

We conducted a CPD audit of 10% of corporate members, in line with CIBSE's commitment to standards. This year, we also introduced mandatory reflective practice as part of members' CPD requirement. Reflective practice encourages more meaningful and conscious learning and planning, and benefits individuals, employers and society.

Regions

The Institution is organised on a regional basis. There are 16 Regions in the UK and four international Regions: Republic of Ireland, Australia and New Zealand (ANZ), Hong Kong and the United Arab Emirates (UAE).

The Regions engage with members and aim to improve the understanding of building services engineering among other professions and society in general. They accomplish this by arranging activities to promote building services engineering, organising CPD events, providing networking opportunities for local members and supporting those looking to become professionally registered. This would not happen without the effort and enthusiasm of the more than 200 CIBSE members who sit across the regional committees and volunteer their time and efforts.

In 2022, the Regions organised over 180 events, held both online and in-person, with a combined total of approximately 14,000 registrants. A highlight of these was the CIBSE Merseyside and North Wales Masterclass series, a week-long series of CPD seminars aimed at students and young engineers to help equip them with the foundational skills necessary for their future careers, which attracted over 1200 registrants. The Regions have also enjoyed the continued return of their annual dinners, networking events and regional award schemes.

The international regions have had a stand-out year in 2022:

UAE

President Kevin Mitchell and CEO Ruth Carter visited the UAE Region in September to celebrate the UAE's annual awards and strengthen CIBSE's international ties to the region. Highlights included site visits to The Walk at JBR and the One Zabeel project, the signing of agreements with De Montfort University Dubai and the Manipal Academy of Higher Education to launch CIBSE Student Groups at the universities, and a panel discussion on the topic of Cross-collaboration for Net Zero Transition.

Hong Kong

President-Elect Adrian Catchpole and CEO Ruth Carter visited the Hong Kong Region in November. As part of their visit, they attended the joint City for Future: Journey to Carbon Neutral Building Symposium, organised by CIBSE Hong Kong Region, the Hong Kong Institution of Engineers (HKIE), and ASHRAE Hong Kong Chapter, at which Adrian delivered the keynote speech. They also met with the CIBSE Hong Kong regional committee, which provided a valuable opportunity to discuss plans and objectives for 2023 specific to Hong Kong and CIBSE more generally. The visit allowed them to strengthen CIBSE's long-standing relationship with the HKIE, to discuss the structures and aims of both organisations and how they can support each other more effectively going forward.

Australia and New Zealand

In October, CIBSE Australia and New Zealand (ANZ) celebrated their Young Engineers Award with their first in-person ceremony for three years. Other highlights of 2022 included a launch event for the CIBSE Registered Professional Engineer of Queensland Accreditation, the launch of CIBSE ANZ Building Services Engineering Training including modules on mechanical services and electrical

services, and the 2022 seminar series, Going from Great to Good – Raising the Tide for All Buildings, New and Old.

Republic of Ireland

CIBSE Republic of Ireland enjoyed a presidential visit from now-Past President Kevin Kelly and CEO Ruth Carter in March, with a technical presentation from CIBSE Technical Director, Hywel Davies.

Michael Curran, Regional Chair, was interviewed on RTE Radio One's Morning Ireland show, where he called for public building temperatures to be limited to 19°C. The Region also held an event to help their members boost their careers to support the 125 challenges and launched their annual mentorship scheme for 2023.

The 20 Regions are:

Australia & New Zealand

East Anglia

East Midlands

Home Counties North East

Home Counties North West

Home Counties South East

Home Counties South West

Hong Kong

Merseyside & North Wales

North East

North West

Northern Ireland

Republic of Ireland

Scotland

South Wales

South West

Southern

United Arab Emirates

West Midlands

Yorkshire

Young Engineers Network

The CIBSE Young Engineers Network (YEN) is a global network of regional centres offering a forum for engineers in the first ten years of their careers to learn new skills, expand their knowledge and give or receive peer support. YEN is open to CIBSE members and non-members.

The Young Engineers Network exists to:

- Promote a positive and welcoming image for building services, especially for those who did not study the discipline at university
- Enable young engineers to engage more closely with CIBSE at an early stage in their career
- Encourage more underrepresented groups to join and remain involved in the building services profession
- Establish a formal link with CIBSE Council and Board
- Help younger engineers promote building services engineering to school and university students
- Guide young engineers towards a long-term career in building services.

Inspiring the next generation is at the heart of YEN's work, and they have embodied the spirit of the 125 challenges this year. They guest-edited the September edition of *CIBSE Journal*, showcasing the rising talent in the industry and the work of the global YEN community.

On 7 October, the YEN held CIBSE's first student and graduate Career Day, attracting over 200 registrants, to help young engineers meet future employers, secure summer placements and develop their soft skills. They were joined by 13 employers and the CIBSE Patrons, who hosted a seminar room with sessions on climate change and sustainability. The Career Day was followed by the YEN Global Ball, with the theme of celebrating the true climate heroes that our young engineers are.

Societies and Divisions

Key engineering disciplines are represented within CIBSE by Divisions that offer professional recognition to their members and support the art, science and practice of engineering within their specialist field. CIBSE currently have six established Divisions: the Society of Light and Lighting (SLL), the Society of Façade Engineering (SFE), the Society of Public Health Engineers (SoPHE), the Institute of Local Exhaust Ventilation Engineers (ILEVE), the Society of Digital Engineering (SDE), and the CIBSE Patrons. The CIBSE Divisions currently have a combined individual membership of 6800 and over 160 company members and partners.

Society of Light and Lighting (SLL)

The Society of Light and Lighting (SLL) welcomes all who are interested in the art, science and engineering of light, lighting and its applications. Lighting designers, consulting engineers, researchers, students, academics, manufacturers, and sales staff all contribute to its membership. It offers a significant range of authoritative guidance, professional recognition, and a range of technical events. SLL is recognised worldwide as an authority on lighting and its applications.

The SLL published a number of titles in 2022:

The re-write of SLL LG9: *Lighting for communal residential buildings*, published in August, is the third edition of the guide. It details new types of multiple-occupancy buildings, the latest findings on the effect of lighting on wellbeing, and advice on how to minimise obtrusive light from external lighting. All sections have been updated to reflect the switch to LED light sources.

The rewrite of SLL LG12: *Emergency lighting* was published in April. The guide gives information on how to comply with the relevant standards and produce documentation, so that the operator of the building can demonstrate compliance with safety legislation.

The new guide, SLL LG22: *Lighting for control rooms* was published in July. Control rooms can be complex, having many operators, often with an extensive arrangement of screens, and potentially operating 24 hours a day, monitoring safety-critical operations. Establishing the geometry between operators, their screens, larger remote room displays, and the lighting and any windows is crucial. The guide will help those lighting control rooms to create the appropriate lit environment.

The SLL was also involved with and organised a number of events. In May, the Responsible Outdoor Lighting at Night conference (ROLAN 2022) took place online. The conference focused on the issues regarding light pollution and the impact on flora and fauna. The SLL partnered with Dr Karolina M Zielińska-Dąbkowska from Gdansk University of Technology to deliver the event. There were 31 international speakers and 310 delegates. The event was supported by seven industry bodies, who also signed a ROLAN Manifesto for Lighting Professionals (www.cibse.org/policy-insight/news/responsible-outdoor-lighting-at-night-rolan-manifesto-for-lighting-professionals) and four sponsors.

The SLL AGM, awards and Presidential Address took place in May at the People's History Museum, Manchester and online. The event acknowledged the work of the Society and volunteers and saw the handover of the SLL presidency from Ruth Kelly Waskett to Andrew Bissell. The awards included the SLL Regional Award, Lighting Award and President's Medal.

SLL Ready Steady Light took place in partnership with Rose Bruford College in October, with 13 teams competing to win the three awards. Team Cundall won the technical award, Team CBG Consultants won the artistic award and Team MID the peer award.

In November, the Society exhibited at LiGHT 22 at the Building Design Centre, London, and at Build2Perform Live at ExCel London – where they launched the rewrite of the *SLL Code for Lighting* with the Editor in Chief and Project Manager, Sophie Parry. The first edition of the Code was published by the Illuminating Engineering Society of Great Britain in 1936. In those days, it was the sole publication containing all the application metrics for indoor and outdoor lighting, as well as chapters on first principles, calculations and metrology. The new edition sets out the fundamentals of lighting design for the application of light and lighting within the built environment. The 2022 update reflects the rapid development in lighting technologies and research, with advances in LED lighting technology over the last decade making it the dominant light source.

The SLL Young Lighter 2022 final was held online in December. The annual competition is open to anyone with an interest in light and lighting. Scott Kluger, from Hoare Lea, was named 2022 SLL

Young Lighter following his presentation *Daylight harvester: A tool to enhance lighting operational performance*.

The SLL is supported by 24 Sustaining Members, companies who support the work of the Society through technical and financial engagement in its' work and the development of guidance and events. They provide a wealth of expertise and knowledge to underpin the SLL's work and promote light and lighting as a key built environment discipline.

Society of Façade Engineering (SFE)

The Society of Façade Engineering (SFE) brings façade professionals together in a forum where they can work together to advance knowledge and practice in façade engineering, promote good practice and ensure that today's increasingly complex building façades meet the many and varied performance criteria. The Society focuses on the many disciplines involved in the interdisciplinary process of design, supply, installation, testing and operation of building façades. The Society is built on the belief that for buildings to achieve a high energy efficiency, and create a safe and comfortable environment for occupants, there must be appropriate dialogue between architects, façade engineers, building services engineers, structural engineers, and contractors. The Society provides an important forum for the profession to address the challenges of the building safety programme in relation to façade design and delivery.

This year, the Society welcomed new SFE applicants seeking to show their competence by demonstrating the required level of education and experience to achieve the Society's professional grades. Applications were received from new members seeking professional recognition and existing members upgrading their membership as they gained further experience, with the final application deadline of the year receiving 17 applications.

In 2022, the SFE also launched its tailored [Façade Engineering route](#), allowing people to apply for MCIBSE CEng status and MSFE status simultaneously. The new route ensures that at least one interviewer on the panel is a façade engineer, familiar with the experience required for façade engineers applying through this route, and offers applicants an example of a façade-related technical report for MCIBSE.

The SFE were able to maintain momentum with both in-person and online events in 2022. Their online webinars included a session on the Maggie's centre at St Bartholomew's Hospital, London, presented by Gavin Kerr of Arup and Chris Aspinall, SFE Chair, and a post-AGM presentation by Rebecca Hartwell of the Glass and Façade Technology research group, titled *(Un)Fixing facades: The pursuit of material efficiency from design to second-life*.

There was also a range of in-person events, including a façade walk around central London, and an event focused on the Building Safety Act, featuring presentations from Dr Hywel Davies, *Preparing for the Building Safety Act – what do I need to do?* and Dr Patrick Ryan titled *The PI insurance crisis*.

For the first time, the [2022 SFE Façade Design and Engineering Awards](#) joined forces with ZAK World of Facades' London Conference. With ten categories celebrating sustainability and innovation in the

UK and international façade engineering, this year's awards recognised refurbishment and new build projects, along with the 2022 Young Façade Engineer of the Year.

After initial groundwork in 2021, the SFE were pleased to launch their SFE Student and Affiliate Sub-Committee, which gives a voice for those in the early stages of their career and encourages people into the façade industry. They have successfully recruited volunteers to their sub-committee and have conducted their first meetings, as well as representing the SFE at the SheCanEngineer career fair event in London, in June.

Building on the success of their existing Hubs, the Society was excited to announce the launch of its [North America Hub](#). The SFE's first international Hub is a hybrid virtual-remote group, which will hold both in-person and virtual events throughout the year, bringing together the façade industry and encouraging new professional connections.

Society of Public Health Engineers (SoPHE) and SoPHE Industrial Associates

The Society of Public Health Engineers (SoPHE) aims to provide a higher profile and focus for public health engineers.

In 2022, the Society hosted another successful annual Plumbing Centre of Excellence/Young Engineers Network Plumbing Competition in collaboration with United Group Colleges. The competition aims to bridge the gap in students' learning, from domestic to commercial installations. SoPHE's young engineers competed with and alongside college students in plumbing problem-solving, hand skills, and practical fault finding of plumbing installations. The day was supported by the SoPHE Industrial Associates, who remain key in assisting and supporting the next generation of public health engineers.

In March, the Society saw a return of their Technical Conference, with the 2022 theme focusing on water. Sponsored by six Industrial Associates, it provided a chance for SoPHE members to hear from experts and advisors on regulatory and planning guidance, with industry pioneers talking about inventive public health engineering solutions that are being developed to support sustainability and our changing climate.

SoPHE also has active regional networks in London, the South West, North, Midlands and the United Arab Emirates (UAE). May 2022 saw a long-awaited return of the SoPHE Northern Dinner at the Midland Hotel, Manchester. The event was attended by over 130 public health engineers and sponsored by 18 Industrial Associates. The event was a huge success and plans are under way for the 2023 Dinner.

The SoPHE Young Engineers Network also had another productive year, offering SoPHE young engineers high-quality, in-person events including a site visit, a Technical Symposium on water scarcity and water neutrality, and a hosted tour of the Building Centre, London.

The Society were also able to continue their successful programme of global and regional online CPD webinars, supplying their members with high-quality technical content. The webinars had over 1113 registrations in 2022, showing the continued demand for online CPD. Presenting slots for SoPHE's monthly webinars are fully booked to the end of 2023.

The SoPHE Technical Committee is currently working on a revision of Guide G *Public health and plumbing engineering*, as well as two CIBSE Technical Memoranda: one on ventilation stacks for drainage in high-rise buildings, and the other on solving the problems caused by fats, oils and grease.

In collaboration with the CIBSE Healthcare Group, SoPHE had a stand at the 2022 IHEEM Healthcare Estates Conference in Manchester. The exhibition is the UK's largest trade exhibition for the sector, covering all areas of healthcare estates, design, build, maintenance and management, and shows a positive example of CIBSE's various networks collaborating for the good of industry.

The Society rounded off a productive and successful year with their annual London Dinner at the Royal Lancaster Hotel. The event, attended by 370 people, brought together professionals from across the public health industry to celebrate and award achievements within the sector. Freya Scott, from Arup was named SoPHE Young Engineer of the Year, following her work at the 2022 SoPHE Plumbing Centre of Excellence/YEN Plumbing Competition. Rachel Yates, of Arup and Jess Humphries, Ramboll, were awarded joint second place. The Chris Sneath Bursary was presented to Kevin Buchanan for his achievement of Level 2 first prize. Phil Salmon was made SoPHE Honorary Fellow in recognition of his incredible contribution to the public health industry.

SoPHE comprises 1000 individual members and 65 supporting company members, known as SoPHE Industrial Associates. The Industrial Associates work together to use their wide-ranging expertise to strengthen the public health engineering industry, through co-operation and collaboration with SoPHE, CIBSE and other related organisations. The Industrial Associates support initiatives and innovations that have a direct relationship to the betterment of the public health engineering industry, and which encourage the use of best practice in sustainability, health and safety, environmental quality and work efficiencies, recruitment, education, and other matters of concern to the industry. In 2022, SoPHE welcomed six new Industrial Associates.

The SoPHE Industrial Associate flagship event was their Summer Exhibition at the Building Centre, London. The event was sponsored and attended by 26 SoPHE Industrial Associates, who were given the opportunity to provide information on new products and processes, as well as much needed networking after a two-year hiatus.

The SoPHE Communications Working Group have started initial work on a quarterly ejournal, with the first issue published in January 2023.

The Institute of Local Exhaust Ventilation Engineers (ILEVE)

The Institute of Local Exhaust Ventilation Engineers (ILEVE) was established to recognise competence in the practical application of local exhaust ventilation, to promote air quality in the workplace, and to reduce ill health and death due to airborne contamination and hazardous substances in the working environment.

Throughout the year, ILEVE welcomed new members through the application grading process. Applicants are required to show their competency across five subject modules: principles of occupational hygiene, system design, installation management, commissioning, and thorough

examination and testing. Successful applicants are awarded a membership grade and given a competency card, which demonstrates their accredited fields of expertise.

In 2022, the ILEVE Membership Grading Committee finalised the new ILEVE Fellow Grade (FILEVE). FILEVE is for individuals who have achieved the most senior grade of ILEVE membership and have made a significant contribution to local exhaust ventilation engineering and are able to show a commitment to CPD. The Institute is pleased to have had its first two members pass the grading process to achieve FILEVE.

In April 2022, in collaboration with the British Occupational Hygiene Society (BOHS), ILEVE held their seventh joint LEV – Extracting the Best Practices event. The theme was design for control, and presentations covered: different dust filter units; a design case study; design elements from the ACGIH manual; drawing standards; and TExT schematics. ILEVE also discussed stack design, women in the LEV profession, and clearance time testing methods. The event was a chance to reinforce the importance of collaboration and building stronger relationships between all interested parties when it comes to LEV.

April also saw the launch of the ILEVE enewsletter. The enewsletter covers upcoming industry events, policy changes, and opinion pieces and offers sponsorship opportunities. It has included articles on LEV user training, new Building Regulation F (ventilation), and an article by Professor Kevin Bampton, Chief Executive of the BOHS and former legal academic, discussing the relationship between occupational hygiene and LEV. The newsletter has an average open rate of 34% - well above industry standard.

ILEVE has various sub-committees, which focus on specific aspects within LEV, this includes TC01 – TExT reports, TC02 – Partnership scheme, TC03 – Recirculating filters, TC04 – On-torch extraction and TC05 – BOHS – BESA qualification, TC06 – Direct reading instruments and TC07 – Stack design. The ILEVE sub-committees create a space where ILEVE members can collaborate with individuals representing other organisations from across industry such as the BOHS, Institution of Occupational Safety and Health (IOSH), Safety Assessment Federation (SAFed), Health and Safety Executive (HSE) and Unite the Union.

In 2022, the ILEVE Technical Committee looked at standards for the supply, installation, servicing, testing, commissioning, and use of fume cupboards, recirculating fume cupboards and microbiological safety cabinets and invited members and other industry bodies and individuals to peer review their Competency Matrix. The Matrix sets out the job roles associated with the purchasing and safe use of these systems, the knowledge, skills and qualifications required by persons undertaking these roles and the sources of information and training available.

The Institute had an exhibitor stand at the Manufacturing Technologies Association's biennial event MACH, at the NEC in Birmingham. The event attracts 25,000 visitors and more than 600 exhibitors. ILEVE's presence at the event allowed them to interact with companies and organisations from across the industry and gave ILEVE members and CIBSE staff a chance to attract potential new members.

In June, ILEVE held their 2022 AGM and Technical Day at the HSE laboratory in Buxton. As well as confirming the ILEVE Steering Committee for the next 12 months in line with the Institute's rules, the

day also provided ILEVE members with high-quality technical presentations. Talks covered: LEV noise with Chris Stell, Specialist Inspector (Noise and Vibration) at HSE, and a presentation titled *Controls on plating tanks* by Matt Coldwell, Occupational Hygienist at HSE.

Society of Digital Engineering (SDE)

The Society of Digital Engineering (SDE) provides a forum for those involved in digitalising the built environment, whether as designers, contractors, manufacturers, clients, facilities managers or software vendors. Membership is open to all involved in digital engineering, building information modelling (BIM), information management, software for design and analysis of buildings, computer aided facilities management, and other related activity. It provides professional recognition to digital engineers and a route to CIBSE membership and registration with the Engineering Council. The SDE continues to work closely with the CIBSE Digital Engineering Steering Group, which works to create the products and services used by members.

In 2022, the Society elected Andrew Krebs as its new Chair. The Chair and SDE Executive Committee have been working hard to rejuvenate the SDE Executive Committee and wider steering group following the pandemic and to create an SDE strategy to align with CIBSE's Societies Strategy. This will incorporate feedback gathered from the SDE member survey carried out in August.

2022 also saw the long-awaited return of the [SDE Digital Awards, held at Build2Perform Live](#) in November. The awards celebrate progress and excellence in digital engineering. This year's categories were designed to recognise the progress of digitalisation across built environment professions, recognising those who are contributing to the digitalisation of our work, where we live and how we experience it, including technicians, engineers, developers, designers, contractors, manufacturers or any group or team who are making a difference in their field. The Society received high-quality entries across all seven categories. The overall Digital Champion award was won by Atkins, member of the SNC-Lavalin Group for their project, Decarbonomics.

The SDE has continued to work on ongoing projects, such as Product Data Templates (PDTs) and Symbols, and helped to create automation products, such as Embodied Carbon Calculators, for the UK and Australia and New Zealand. These digital tools are associated with the CIBSE TM65 suite of publications on embodied carbon.

Looking forward to 2023, the SDE are especially keen to make further progress on their SDE Partner company membership scheme and developing professional, graded membership classes.

CIBSE Patrons

The CIBSE Patrons are often referred to as the 'corporate supporters' of CIBSE, as they are the group of businesses that collaborate to provide financial, moral and technical support to the Institution. Some of the key aims of the Patrons are to increase recruitment and retention of engineers in the industry, and to support CIBSE in the development of knowledge, technical information and resources, encouraging the use of best practice in areas such as sustainability and health and safety.

The Patrons Committee meets regularly to discuss future plans and projects in which they can develop and carry out their aims.

In 2022, the Patrons established a new strategy with a focus on using their funds to support CIBSE activities that target education and STEM outreach in schools, as well as career support for those just starting out in their engineering journey.

The Patrons' annual House of Lords Lunch was held in April, after a three-year hiatus, and is a key part of the Patrons' and indeed CIBSE's year. It was a fantastic event and provided incredible networking opportunities. The attendees also received a technical policy update from Dr Hywel Davies, which was centred around the Building Safety Act.

Engaging with the Young Engineers' Network (YEN) is a central part of the Patrons' aims, and this was apparent in their support for the YEN Careers Day and Gala in October. This landmark event for CIBSE and the YEN provided career opportunities for young and newly qualified engineers, followed by an evening celebration. It was an overwhelming success, and the support and presence of the Patrons was invaluable.

The Patrons have also been working with the newly relaunched Fellows Network. The Patrons Committee saw this as a fantastic chance to engage and collaborate with some of the most experienced and knowledgeable minds in the industry, to further the aims of both committees and CIBSE. The Patrons have committed to support the Fellows Network, something expressed by Patrons Chair Scott Mason in his address at the Fellows Network Launch in December. This collaboration is incredibly exciting, and both parties are determined to engage with the YEN to encourage more young engineers to join the industry.

Looking ahead to 2023, the Patrons are committed to furthering their aims. They will continue to work closely with the Fellows, as the Fellows Network continues to build momentum and engage with members of our industry. The YEN will also be integral to 2023 for the Patrons, and they will continue their commitment to engage with and support the bright young talents of building services.

Special Interest Groups

The CIBSE Special Interest Groups provide a wealth of CPD for members and non-members alike and allow for open, and occasionally challenging, discussion on topics that cover the wide breadth of issues faced by building services engineers.

With a combined memberships of nearly 50,000, our Special Interest Groups are:

1. ASHRAE
2. Building Simulation
3. Chimneys and Flues
4. CHP and District Heating
5. Daylight
6. Electrical Services
7. Energy Performance

8. Facilities Management
9. Healthcare
10. Heritage
11. Homes for the Future
12. HVAC Systems
13. IT & Controls
14. Intelligent Buildings
15. Lifts
16. Natural Ventilation
17. Resilient Cities
18. School Design

2022 was a busy year for the Special Interest Groups, with a variety of activities including webinars, in-person seminars, newsletters, blogs, awards and much more. They continued their collaborations and enjoyed working together to spread knowledge of their practices. Some of the most impressive events were:

- IT and Controls and Facilities Management Group: How apprenticeships launch careers and deliver skills: 48 people registered (in-person)
- Building Simulation Group: Overheating: Approved Document O: 399 registered (hybrid)
- Building Simulation Group: Part L, Volume 2: Buildings other than dwelling: 291 registered (hybrid)
- Energy Performance Group: What could stop the electrification of commercial buildings?: 270 registered (online)
- Intelligent Buildings Group: What is artificial intelligence when it comes to architecture?: 225 registered (online)
- HVAC Group: Embodied carbon: 176 registered (hybrid)
- Facilities management: Building Safety Act 2022, Fire Safety Act 2022 and BS 8644-1 2022: 130 registered (in-person).

2022 also saw the launch of some exciting new projects, the first being the Retrofit in Heritage sub-committee, which came about due to high interest in this topic, and thanks to the commitment of dedicated volunteers, such as Amy Punter and Daniel McNaughton. The sub-committee began their journey with a series of three seminars, the last of which had 150 registrations, and resulted in an in-person session at Build2Perform Live.

The Building Simulation Group saw a return to the in-person Building Simulation Awards, which took place at Build2Perform Live. Led by Events Secretary Alexandros Chalkias, the entire committee pulled together to make the awards happen. Congratulations to Daniel Sanchez-Garcia, who won the Building Simulation Award, and Shweta Salvankar, who won the Young Modeller Award.

We have also seen great collaboration between Groups this year. The Facilities Management Group and IT and Controls Group held a joint in-person event on the importance and value of apprenticeships. The event was a great example of Groups working together to engage young engineers and young people looking to make a start in building services engineering.

The Facilities Management Group also held their Building Safety Act 2022, Fire Safety Act 2022 and BS 8644-1 2022 event at Sodexo's office. This was an informative and very well attended event with keynote speaker Dame Judith Hackitt. Dame Judith was a leading figure in the creation of the Building Safety Act and her knowledge and expertise on this is unrivalled. The event was a unique opportunity to hear about the key aspects of this critical area for our industry. It also featured in the following edition of the HSE Building Safety ebulletin, with Dame Judith welcoming the work of the Group to raise awareness of the Act amongst the facilities management community.

In November, the Lifts Group's annual seminar took place at CIBSE's office in Balham. It was a successful and enjoyable day, with detailed and insightful talks from a variety of industry professionals, including Dr Gina Barney, whose presentation was very well received and her wealth of knowledge and experience, accumulated over a lifetime in the industry, were clearly on show.

The Intelligent Buildings Group hosted a number of webinars in 2022, all attracting a large number of attendees. One of the most popular was their webinar, What is artificial intelligence when it comes to architecture?, chaired by Dr Yangang Xing and featuring an insightful presentation from Dr Danyal Ahmed, which attracted an audience of 225.

Inclusivity and Diversity Committee

CIBSE launched a new Inclusivity and Diversity Committee in 2022, with the aim of increasing diversity within the building services sector.

The Committee replaces the Diversity and Inclusion Panel and will be chaired by the Immediate Past President. The inaugural committee chair is Kevin Kelly.

The Committee aims to create greater awareness of diversity and inclusion within CIBSE membership and volunteering groups as well as influence the wider building services industry. It also intends to provide greater opportunities for those from less represented groups to become senior volunteers and award nominees.

There are four sub-panels which will feed into the Committees work. These are Women in Building Services Engineering (WiBSE), chaired by Annette Ash, and three new panels representing different communities: LGBTQI+, chaired by David Stevens, ethnic minority, chaired by Hakeem Majanju, and neurodiverse communities within CIBSE.

Fellows Network

The CIBSE Fellows Network was relaunched in December 2022. Driven and chaired by Geoff Prudence, who was also awarded an Honorary Fellowship at the 2022 AGM, the new Fellows Network is a fantastic opportunity for some of the industry's greatest and most experienced minds to be more active within CIBSE and provide mentorship for younger generations and the rest of the building services community. The Network was officially relaunched on 7 December at the Passmore Centre, London South Bank University, where the future aims of the Network were explained. These include: hosting masterclasses and webinars, inspiring younger engineers to apply for Fellowship, and engaging with the newly launched CIBSE Mentoring Platform. The Network already has an active committee and there are more opportunities for other Fellows to join this in the future.

Share

In 2022, CIBSE produced 21 new guidance titles, which matches the 2021 total. Nine new authors have also been introduced to the process of writing and releasing guidance, and CIBSE is steadily growing our base of member volunteers.

As always, our most popular knowledge items are CIBSE Guides and new publications.

Notable releases

The most popular new guidance in 2022 was *Heat pump installations for large non-domestic buildings* (AM17), with 1839 downloads, and more than 1000 people attending the related #GrowYourKnowledge webinar.

The updated edition of *Evaluating operational energy use at the design stage* (TM54) provides a response to the climate emergency, and the requirement to deliver high-performing buildings while meeting net zero carbon targets. It was also very popular, with more than 1500 downloads in 12 months and nearly 800 attendees to the associated #GrowYourKnowledge webinar.

To support the requirements for airtightness testing in Approved Document F of the Building Regulations in England, a revised version of *Testing buildings for air leakage* (TM23) provides guidance that links not only to energy and carbon performance, but also to air quality and occupant comfort. It has been downloaded nearly 900 times, and more than 500 people attended the #GrowYourKnowledge webinar.

CIBSE's guidance on embodied carbon also developed substantially in 2022. This builds on the initial guidance in *Embodied carbon in building services: A calculation methodology* (TM65), which was released in early 2021. The focus in 2022 has been on internationalising the TM65 methodology. To that end, CIBSE released guidance on adapting the methodology worldwide. *Using the embodied carbon methodology outside the UK* (TM65LA) has two aims: firstly, to detail the process required to define embodied carbon coefficients for use in one project; and secondly, to detail the process required to create a robust local addendum for any region, which can be used on multiple projects. *Using the TM65 methodology in Australia and New Zealand* (TM65ANZ) provides a prototype for other regions to follow. It is likely that local addenda for other regions will be developed in the future.

Other notable Knowledge releases in 2022 include:

- A new edition of Commissioning Code M: Commissioning management which is also referenced as an approved methodology for demonstrating compliance with Regulation 44 of the Building Regulations in England
- Monitoring indoor environmental quality (TM68)
- Dynamic thermal modelling of basic blinds (TM69)
- The first four parts of the new Applications Manual on medium voltage distribution, AM18. This guidance aims to fill the gap in electrical knowledge in respect of safe use of medium voltages for the distribution of electrical power.

Technical journals

CIBSE publishes two peer reviewed technical journals: *Building Services Engineering Research and Technology (BSER&T)*; and *Lighting, Research and Technology (LR&T)* in partnership with the publisher Sage. The journals contain high-quality articles on the latest research and critical reviews of the latest literature in their fields and they continue to benefit from rising impact factors, demonstrating their importance to the research community. *BSER&T* is published six times a year and *LR&T* eight times a year to meet demand.

Available to all CIBSE members as a benefit of membership, they enable the Institution to disseminate peer reviewed research to a wide international audience and contribute to the development of CIBSE knowledge and guidance for the future.

2022 was a time of transition for *BSER&T*. The Journal welcomed Professor Lynne Jack, a past President of CIBSE and Director of Research at Heriot-Watt University, as the new Chair of the Editorial Board, and also saw the end of the tenure of Professor Tim Dwyer as the Managing Editor. Under Tim's stewardship, the Journal has embraced digital production technology and survived the COVID-19 pandemic, whilst seeing its impact factor improve year-on-year, now standing at 2.5. This steady increase is a testament to the commitment and expertise of the Editorial Board and reviewers and highlights the increasing quality and relevance of the articles published in the Journal. The Institution is grateful to Tim for his work as Managing Editor and outstanding contribution to knowledge sharing.

In May the Journal published a special issue, comprising a selection of papers developed and subsequently peer reviewed from those delivered at the eleventh annual, virtual, CIBSE Technical Symposium in 2021. The selected papers demonstrate the application of engineering knowledge, know-how and innovation in the creation of safe environments with reduced environmental impacts across a range of building services applications.

LR&T continues to enjoy a high impact factor and attracts excellent submissions from around the lighting world. It continues to publish a wide range of papers highlighting the research that is currently being undertaken into light and its application in the built environment. There continues to be a healthy focus on the interaction between lighting and human behaviour, as well as attention to the ongoing public debate about the role of public lighting in pedestrian safety and its potential influence on incidents of violence against women in public spaces. These discussions highlight the relevance of the work of lighting professionals to wider social issues and the importance of professional lighting design based on evidence and data, and not just on public perceptions and reactions.

In November the Journal published a special issue on the topic of Lighting Design Objectives (LDOs), promoting lighting design approaches which extend beyond traditional considerations to include ambient illuminance and perceived quality. This was the first *LR&T* special issue and prompted significant debate and discussion of this important topic.

LR&T reaches a global audience with a readership drawn from a range of professional and academic backgrounds, further enhancing CIBSE's role as the premier publisher of lighting guidance in the UK.

Both journals are available online to CIBSE members as a membership benefit, with a worldwide subscriber base supported by our publishing partner Sage.

www.cibse.org/technicaljournals

Training:

Overall 2376 people received CIBSE training in 2022:

- 809 through on-demand training
- 367 corporate training
- 1200 live online training

CIBSE Training launched two new courses in 2022:

- Introduction to the Building Safety Act
- TM66 - Module 1 - Creating a circular economy in the lighting industry

It also updated five courses:

- Advanced simulation modelling for design for performance
- Design of heating and chilled water pipe system
- Electrical services explained
- Overview of IET wiring regulations (18th Edition)
- Embodied carbon in MEP design: How to use CIBSE TM65

The most popular courses in 2022 were those covering energy efficiency, the Building Safety Act, embodied carbon and heat networks.

The Training Team also held their first trainer thank you and feedback day, with the aim that this will be an annual event. The event was to recognise the work of all CIBSE trainers, offer them the opportunity to network together, and provide feedback to the team.

A new peer review process for training courses was also introduced, and surveys on future training needs post-pandemic were conducted to help design and influence the 2023 training programme.

A full review and rebrand of all training materials, procedures and forms was also completed in 2022, and the 2023 training brochure was released in November.

www.cibse.org/training

#GrowYourKnowledge webinars

The #GrowYourKnowledge webinar series continued to run in 2022 and celebrated over 45,000 registrations since its launch in April 2020, demonstrating its reach to the wider industry. Each webinar is designed to highlight a new CIBSE knowledge output and features industry expert speakers, and includes a live Q&A, allowing for interactive content. The most popular topics in 2022 were:

- Heat pump installations for large non-domestic buildings
- Evaluating operational energy performance of buildings
- Embodied carbon methodology (TM65)

CIBSE will continue to run #GrowYourKnowledge webinars in 2023 with a focus on CIBSE's top knowledge priorities.

www.cibse.org/growyourknowledge

Engage

Our Royal Charter establishes the role of the Institution to support 'the art, science and practice of building services engineering by providing the public and our members with first class information and education services.' A primary purpose for CIBSE is therefore as a leading provider of authoritative guidance on the principles and practices of building safety and performance. CIBSE guidance enables engineers to keep up-to-date with the very latest requirements and professional solutions to meet their clients' requirements and comply with regulations relating to engineering competence.

Since the pandemic we operate in a fast-changing professional landscape, requiring digital delivery and creation of knowledge and guidance, and online provision of training and knowledge.

The growing pace of technical and regulatory change in response to climate change is driving rapid development and the updating of CIBSE guidance to support the decarbonisation of the built environment, with a number of new titles released in 2022 on embodied carbon and heat pump systems for buildings.

The regulatory changes now being implemented in response to the Grenfell Tower tragedy and the Building Safety Act represent the most fundamental reform of the building safety and control system since the Second World War. CIBSE is closely involved in the development of the new regime, particularly relating to the competence of engineers and the adoption of better information management processes in the industry.

Given the impact of buildings on everyone, our response to changing climate and its consequences and to the building safety regime are absolutely central to the role of the Institution and our delivery of benefit to society.

COVID-19

CIBSE's ongoing response to the COVID-19 crisis continued to be highlighted in our work with the Royal Academy of Engineering for the Chief Scientific Adviser on delivering infection-resilient environments. We have continued to work closely with the Academy on its second phase report on the longer-term requirements to maintain buildings in a state that reduces their contribution to the transmission of disease, not just in a pandemic but in everyday working life.

We have continued to contribute to government advisory groups and provide evidence to government and the devolved administrations on the role of ventilation and the importance of competent building management in keeping buildings operating routinely and regularly in a safe and healthy manner.

Building safety

The Building Safety Act 2022 received Royal Assent in April 2022. Implementation of the Act will deliver the most fundamental reform of the legislation relating to the construction and operation of buildings in England in 80 years and will undoubtedly lead to changes in the rest of the UK as the devolved administrations also seek to improve building safety in their own jurisdictions.

CIBSE is actively communicating the scale of the changes that government is looking to drive through this legislation. We continue to work closely with other engineering institutions and with the Engineering Council in relation to engineering competence requirements.

The Act will be supported by a range of further legislation and two major consultations were published in 2022. CIBSE worked closely with other sector groups through Actuate UK, and with the Construction Industry Council and Construction Leadership Council to develop comprehensive responses to these. Whilst absolutely supporting the intention of the new regime to deliver safer buildings, we provided detailed feedback on some of the practical challenges posed.

It is essential that we continue to communicate clearly and at every opportunity that the new regime will apply to all building work that requires notification in any way to a building control body and will place a duty to demonstrate competence on all those appointed to work on building projects. This also requires us to work with our members and the wider industry to deliver the competence frameworks to enable competence to be assessed and evidenced and to deliver broader guidance on how the industry can satisfy the functional requirements of the Building Regulations.

CIBSE is actively involved in the development of the new competency regime, as well as contributing to the more detailed discussions around the stricter regime that will apply to higher-risk buildings.

CIBSE is also closely involved in developing the golden thread, the mechanism for managing the information required to give the right people the right information at the right time to keep buildings safe. We are also actively contributing to the development of information management standards that will support the golden thread and enable better working practices across the wider industry.

We continue to cover the industry change agenda through *CIBSE Journal*, on our website and through regular events. In September we held the first in a series of events providing detailed insight into the new regime and these will continue in 2023, providing further information as it evolves.

The Building Safety Act creates a new national Building Safety Regulator (BSR), who will oversee all aspects of building regulation and also regulate the building control profession. The Act makes significant amendments to the Building Act 1984. The Act also creates a new regime for the statutory management and regulation of the safety of all occupied high-rise residential buildings*, covering the design, construction and operation of all new and existing buildings in scope.

*the Act will initially apply to occupied residential buildings with seven or more storeys or over 18m in height with more than one residence

We are actively engaged with government in the development of the new regime and the measures that will enable it to operate. Working closely with sector colleagues in Actuate UK, we continue to contribute to the work of the Construction Leadership Council on Building Safety, which seeks to co-ordinate the industry response to the Act.

Professional competence

The Act brings radical change for the building control profession, with statutory registration to protect the public interest and drive further improvements in building control competence. All those who work on high-rise residential buildings, in whatever capacity, will be required to demonstrate and maintain competence, with new statutory roles and responsibilities and statutory safety cases to support regular safety case reports.

A statutory function of the new BSR is to 'facilitate improvement in the competence of industry and of building inspectors' The BSR has a duty to give appropriate 'assistance and encouragement' to those in the industry or members of a profession to improve their competence.

The Act establishes new statutory roles for individuals or organisations who design, construct and operate buildings. The BSR will set competence requirements for the designer and contractor, with duties on those appointing them to ensure that those appointed really are competent. CIBSE is working closely with the Engineering Council and other professional bodies to enable everyone working on buildings to demonstrate that they are competent to do what they do and be able to evidence their competence.

There will be an onus on people and employers to assess competence and demonstrate it to clients and regulators. There will be a duty not to accept an appointment for work for which a person or organisation is not competent.

To support these new requirements CIBSE has supported the work of the British Standards Institution (BSI) to develop an 'overarching framework' for industry competence and more detailed specifications for the three new dutyholder roles of Principal Designer, Principal Contractor and Building Safety.

CIBSE provides a one day training course which introduces participants to the Building Safety Act, the new competence regime, requirements for higher-risk buildings and the implications of the Act, which is delivered by senior staff and members who are actively involved in the reform process.

Fire safety engineering

Fire safety remains a priority in the aftermath of the Grenfell Tower tragedy. Following the introduction in November 2018 of the ban on combustible materials in the external walls of residential buildings over 18m in height, there has been considerable debate about details of the application of the ban and of the permitted exemptions.

Whilst the overall intent is for designers and constructors to avoid the use of combustible materials wherever that is realistically feasible, the ban created a need for further guidance. The Society of Façade Engineering has worked with the Centre for Window and Cladding Technology (CWCT) to develop further guidance on the current regulations and the Society and Centre continue to review and update the guidance in the light of emerging information and further government requirements relating to the ban as well as questions emerging from the industry.

Net zero carbon building

With the formation of the Net Zero Carbon Buildings Standard consortium in 2022, there has been significant activity throughout the year to develop the standard to drive the net zero carbon agenda. CIBSE is a founder member of the consortium and has invested significantly in the work of the Technical Steering Group and the activity of the Governance Board. CIBSE is working with like-minded professional bodies to deliver a robust standard that will enable zero carbon buildings to be clearly identified and recognised across all parts of the property sector.

CIBSE continues to produce guidance on decarbonisation of buildings, covering heat pumps and electrification of buildings and also developing our guidance on embodied carbon and the circular economy. CIBSE's knowledge is a key tool, providing building designers, constructors and operators with the guidance they need to design, build, manage maintain and operate low carbon buildings.

Our expertise is vital to setting appropriate standards for future commercial and public buildings and our homes to provide safe, healthy, low carbon places to live, work, study and spend leisure time.

Following the introduction of the latest changes to Parts F and L of the Building Regulations and the new Part O for overheating and Part S for electric vehicle charging, CIBSE continues to work with government and industry to develop knowledge and guidance to enable the UK to meet the net zero challenge safely, and to support these changes to regulations to deliver net zero carbon building approaches. We continue to support the developments needed to create meaningful Future Homes and Future Buildings Standards.

We have continued to work with the Department for Business, Energy and Industrial Strategy (BEIS) to develop policy for low carbon heating and to encourage progress on a scheme to measure and disclose the operational energy use of commercial buildings outside the public sector.

Supporting climate change policy

CIBSE has an established record of engagement on climate change mitigation and adaptation and the link to building performance. Our work on the impact of climate change on buildings, in particular overheating, continues to inform our guidance and supports the work of the Climate Change Committee as well as the relevant government departments, which include Department for Levelling Up, Housing and Communities (DLUHC), BEIS and Department for Environment, Food and Rural Affairs (Defra).

CIBSE also collaborates with other organisations on climate change guidance and policy, including the Royal Academy of Engineering (RAEng), Low Energy Transformation Initiative (LETI) and the Royal Institute of British Architects (RIBA) and we have supported the development of key RAEng reports on net zero during the year. As a full member of the Construction Industry Council (CIC), CIBSE is actively engaged in CIC policy related work, including the Climate Change Panel, where our Head of Sustainability, Dr Julie Godefroy, participates on CIBSE's behalf.

CIBSE is contributing to implementation of the CIC climate action plan ([Construction Industry Council - CIC launches a Carbon Zero climate action plan for Professional Institutions](#)), which CIBSE, along with nearly 40 organisations, agreed in June 2021. The plan commits all the institutions to significant actions to reduce the emissions relating to our activities.

In 2022 CIBSE published the third annual update to its climate change action plan, first published in 2019 and which also informed development of the CIC's framework action plan. We are now developing our own plans, which will also be taken into consideration when making decisions around CIBSE's new office.

CIBSE is a key contributor to the work being undertaken for BEIS relating to the development of SAP/RdSAP 11, the calculation methodology which will accompany the 2025 Future Homes Standard. We are also represented on the oversight panel for the Future Homes Hub, which has been established to support implementation of environmental legislation in housebuilding. CIBSE is also actively engaged in the technical working groups for both the Future Homes Standard and the Future Buildings Standard. Taken together, these are a key package of opportunities to shape future low and zero carbon building.

In 2022 we supported various UK and devolved administration working groups. This again shows the direct relevance of CIBSE's work to improving the performance of new and existing buildings in the UK and demonstrates the value and influence of CIBSE guidance in the development of wider policy and regulation in relation to climate change.

Digital standards and tools

CIBSE contributes to various industry initiatives and committees on digital standards. In 2022 we played a leading role in work on the Building Safety Act, in particular on the definition and principles for the golden thread of information, working with the Building Regulations Advisory Committee (BRAC). We are also contributing to the Golden Thread Initiative (GTI), through which a large group of professionals is developing case study material to support the implementation of the golden thread in practice.

We played a leading role in the development writing of BS 8644-1:2022 (*Digital management of fire safety information. Part 1: Design, construction, handover, asset management and emergency response - Code of practice*), which details methods by which fire safety related information can be created, captured, stored and exchanged. Following publication of the standard in 2022 there is an ongoing programme of training, awareness raising and further development to support implementation of the standard by industry.

CIBSE continues to contribute significantly to the series of international standards ISO 19650, *Organization of information about construction works*. These enshrine many of the principles of the UK BIM Framework into international standards, supporting the use of UK expertise around the world. Two further parts are currently being worked on, ISO 19650-4 (*Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 4: Information exchange*) and ISO 19650-6 (*Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 6: Health and safety*).

We have released new digital tools for CIBSE, including the embodied carbon calculator for building services products, based on the methodology detailed in TM65: *Embodied carbon in building services: A calculation methodology*. We have also developed a circular economy tool for lighting products with the Society of Light and Lighting, based on TM66: *Creating a circular economy in the lighting industry* and the circular economy assessment methods, *CEAM-Make* and *CEAM-Design*, which is currently in a beta testing and feedback phase, working closely with leading industry players. We continue to develop and expand this guidance which supports the development of the Built Environment Carbon Database, in which CIBSE is an active partner.

CIBSE Technical Symposium

The annual CIBSE Technical Symposium is an established and invaluable opportunity for professionals of all ages to hear about the latest building services innovations and research. All presentations must go through a peer review process to be selected for the programme. The event aims to create a unique forum in which to share experiences and develop networks.

After the success of two Technical Symposia during the pandemic, we returned to an in-person event in 2022. This was hosted at London South Bank University and featured two days of high-quality peer reviewed technical presentations on a wide range of topics, with around 200 attending over the two days.

The 2023 event is planned for 21-22 April in Glasgow. Over 70 full papers have been invited for presentation.

Details of the 2023 event and all past Symposium papers are available at www.cibse.org/symposium.

Consultations

CIBSE continues to lead the industry on technical, policy and regulatory changes. Responding to relevant consultations is a key activity and CIBSE Technology Committee oversees responses to

government and devolved administration consultations and to calls for evidence from select committees. We invite members to contribute their views to the development of CIBSE responses via the consultations page on our website ([CIBSE - Building Services News and Policy](#)) and our responses are also posted there.

A major focus of our efforts has been the ongoing response to the UK government's Building Safety Programme, set up to implement changes in the regulatory regime in the aftermath of the Grenfell Tower fire. This involved a major response to the consultation on implementation of the Act, on which we led the joint response from Actuate UK for the building services sector as well as making significant contributions to the responses from the Construction Industry Council and Construction Leadership Council.

CIBSE remains absolutely committed to supporting the reform programme. Staff and senior volunteers work closely with government and the wider industry through the CIC Building Safety Committee and the Construction Leadership Council Building Safety workstream. We are actively involved in the work of the Engineering Competence Working Group of the Industry Competence Steering Group, with George Adams chairing the working group.

CIBSE has also established a Building Safety Working Group to oversee CIBSE input to these activities and provide a means to assess industry requirements to support full implementation of the Act in practice.

In 2022, formal responses were submitted to the following consultations:

- Net zero and heat and building strategies
- Higher-risk buildings (descriptions and supplementary provisions) regulations
- Consultation and call for evidence on electrical safety in the social rented sector
- Consultations on implementing the new Building Control Regime for higher-risk buildings and wider changes to the building regulations for all buildings
- Call for evidence for the independent review of the government's approach to delivering its net zero target
- National Calculation Methodology (NCM) call for evidence – joint submission by CIBSE and LETI.

A full record of CIBSE responses to consultations is available on the closed consultations section of the CIBSE website: [CIBSE - Building Services News and Policy](#).

Leading in collaboration – National Engineering Policy Centre (NEPC)

CIBSE is part of the National Engineering Policy Centre (NEPC), led by the Royal Academy of Engineering, which comprises 43 UK engineering organisations and represents 450,000 engineers.

The Centre brings together policymakers and critical engineering expertise to inform policy responses to issues of national importance, giving policymakers a route to expert advice from across the whole profession, and the profession a unified voice on shared challenges. It gives policymakers access to excellent engineering expertise for national social and economic benefit.

Early in 2021, the Academy was asked by the government Chief Scientific Adviser to undertake a rapid review of actions to make infrastructure more resilient to infection. CIBSE worked closely with the Academy to deliver a rapid response, giving an initial overview of the strategic challenges in July 2021. Since then work has continued on the future requirements for infection resilient environments with a second report to Sir Patrick Vallance in July 2022, which was referenced in the government plan for 'living with COVID'. Sadly, the death in 2020 of Awaab Ishak, widely reported in 2022 (www.cibsejournal.com/opinion/ventilation-a-matter-of-life-and-death-2/) after the coroner ruled that his death was in part a consequence of inadequate ventilation, has demonstrated the ongoing relevance and importance of effective and adequate ventilation in our homes.

The Phase II report demonstrated how we can improve indoor environments and make them more resilient to airborne vectors of ill health at all times, and shows the particular benefits this will deliver in the next pandemic. Without action to improve internal environments then the next pandemic will once again impose high financial and health costs on society, and constrain our ability to address other challenges, such as climate change. The reports have had significant impact on policy and are available on the Cabinet Office website:
www.gov.uk/government/publications/raeng-infection-resilient-environments-buildings-that-keep-us-healthy-and-safe-19-july-2021

Recognition for Technical Director

In November, Dr Hywel Davies, CIBSE Technical Director, was awarded the BESA Gold Award for his contribution to the industry, underlining the impact of the Institution in the industry over many years.

Future plans

Celebrate

After the success of both the newly launched Society of Façade Engineering Awards and the long running Building Performance Awards, we will continue to celebrate and showcase the immense talent and achievements of our industry. We aim to grow attendance at both events and ensure they are fully aligned with CIBSE's key priorities, reflecting our commitment to sustainability and building safety.

Our Societies, Regions and Groups are the cornerstones of CIBSE and this year saw the Society of Digital Engineering and the Building Simulation Group host their awards at Build2Perform Live.

Our awards will continue to reflect our diverse community, celebrating the entire range of our members' achievements and contributions.

We aim to widen the reach of the Institution's medal awards by promoting the nominations process more widely and seeking a larger, more diverse pool of candidates.

Inspire

In 2023 we will continue to champion the expertise and impact of CIBSE's work, that of our members and the wider building services engineering community, with a focus on pushing out our key messages in the press and our social media channels. Through this outreach, we aim to increase awareness outside the building services engineering community of the value of the work that we collectively do and our commitment to improving the safety, performance, health and sustainability of the built environment.

Having visibility in both national and trade press is a valuable tool in raising awareness of our work and the work of our members, and we will continue to deliver content in CIBSE's key policy areas to help amplify our position as the authority on building services engineering and demonstrate our technical expertise.

A major piece of work for 2023 will be the brand refresh project. The Marketing Team will work with the CIBSE Voice Strategy Group and the Communications Committee to deliver a CIBSE brand that better reflects the aspirations of our members for a modern, adaptive, and inspirational Institution.

It is also essential that we show how we are rising to the challenges of our changing climate. To this end, we will highlight how the CIBSE Climate Action Plan propels change and encourages engagement with climate action in the wider industry, stakeholders, members and staff.

We enjoyed significant growth in 2022 across all our social media channels, and we aim to maintain this momentum by increasing our social engagement and expanding our use of video content across all our platforms and through partnerships, to extend our reach to potential members.

Boost

Supporting engineers into CIBSE membership and professional registration remains at the centre of what the Membership Department does.

Initiatives for 2023 include:

- Continuing our vital work on the building safety agenda and implementing the contextualised register
- Introducing mandatory CPD on net zero and building safety to support the continued competence of industry in these critical areas
- Reviewing our accreditation guidelines to include more emphasis on the climate emergency, to ensure future engineers are taught the critical skills required to tackle the global challenge
- Reviewing our accreditation and approval guidelines to ensure that diversity and inclusion is appropriately represented
- Simplifying the process of our individual route for applicants to gain IEng/CEng registration where they do not hold the required academic qualifications
- Continuing process improvement to ensure increased customer service and enhanced efficiency

- Embedding more robust unconscious bias training for volunteers involved in Professional Review and End Point Assessment, and conducting an end-to-end process review to ensure our guidance supports neurodivergent candidates
- Embedding moderation across all interviews to ensure continuous improvement
- Implementing two revised apprenticeship standards for End Point Assessment (EPA) and the recruitment and training of new EPA assessors and compliance officers to support our fast-growing apprentice pipeline
- Launching CIBSE Mentoring, a new online mentoring platform, matching members based on expertise and skills
- Launching an exciting new activity to promote building services in schools, combined with relaunching CIBSE's STEM Ambassador programme
- Supporting our Societies, Regions and Groups to develop strategic plans in order to continue to increase participation and enhance their impact
- Supporting our vital volunteers by ensuring they have improved resources through our new website and are properly thanked through more recognition
- We will continue to participate in the work of the Construction Leadership Council and Construction Industry Council to champion the role of engineers and engineering in building a safer future under the new regulatory regime.

Share

CIBSE's knowledge output is respected and recognised globally, and we will continue to work with our members and wider industry to deliver best practice knowledge, guidance and learning. By working with relevant experts, we will maintain our wide-ranging programme of knowledge development ensuring that our guidance supports the delivery of a safe and healthy net zero carbon built environment. CIBSE will continue to be a primary source of peer reviewed technical guidance, and quality, technically-led events for the built environment sector.

Throughout the year we will review and develop guidance to support the transition to net zero buildings, addressing both the provision of new buildings and the interventions needed to significantly reduce emissions from the existing stock.

Our programme of industry events and training will be developed, ensuring it continues to deliver technically robust and authoritative content to support the continuing development and maintenance of knowledge by professionals in the sector.

Working with our specialist Divisions and Special Interest Groups we will identify requirements for new guidance and update and revise existing titles. Our guidance leads to direct improvements in the safety, comfort and performance of buildings, occupants and the wider community, and so we will review how it is best disseminated across the industry, policy makers, the media and to point-of-use.

Collectively these activities will help our members and wider industry maintain and enhance their competence.

Engage

Evidence of the gap in performance between building design and delivery continues to emerge. COVID-19 exposed widespread failings of ventilation provision to meet current requirements and a lack of resilience of our buildings.

The tragic case of Awaab Ishak further demonstrates the systemic challenges of providing adequately ventilated, healthy accommodation for many in the rented sector, and underlines the life safety implications of the ventilation and energy efficiency elements of the building regulations regime. These come alongside continuing revelations about a lack of compliance with the fire safety requirements of the regulations in the wake of the Grenfell Tower tragedy. CIBSE will continue to focus on building performance to satisfy health, safety and environmental requirements.

To meet recent commitments to delivering net zero carbon buildings that are safe, properly ventilated and comfortable then the deficit between design ambition and realised outcomes must be addressed. There is an urgent need to deliver improved performance of our built environment, not just in design and construction, but throughout the life cycle of operation and maintenance.

The building safety and net zero agendas both require serious consideration of procurement models. CIBSE is committed to working with other relevant professional bodies in the industry to identify what is needed to better align procurement practices with the delivery of safe, sustainable and effective buildings.

We need urgent progress in measuring and rating the operational performance of buildings in use across the private sector. CIBSE is a founding partner of the UK Net Zero Carbon Building Standard and is fully committed to working with the partnership and with the construction, property and finance sectors to enable the successful introduction of the standard. We will continue to work with the NABERS UK consortium to deliver this scheme for the office market. We will also continue to press government to finally deliver a meaningful scheme to rate the operational performance of commercial buildings. These standards are essential to enable the transition of the UK property sector to net zero and the role of building engineering services is critical to the achievement of net zero buildings.

The focus on compliance that the Building Safety Regulator will bring should help to address concerns about performance. CIBSE will work closely with the new Regulator, government, BSI, the Construction Leadership Council and other industry bodies in support of building safety reform and will continue to support the response to the inquiry into the Grenfell Tower tragedy, the building safety reform and the new Building Safety Regulator in every appropriate way.

We recognise the importance of the ongoing reforms to industry regulations, competence, practice, procurement, enforcement and guidance. To this end we will develop our membership and professional standards systems to support the new competence and dutyholder regulations and to provide guidance, training and professional support to the sector on these matters.

Certification

CIBSE Certification Ltd is a wholly owned subsidiary company of CIBSE. The organisational structure has a Company Board, known as the Certification Board, and a Steering Group and operates with a team of six.

CIBSE Certification continues to operate the certification of personnel schemes within the UK, covering Low Carbon Consultants (LCCs), Low Carbon Energy Assessors (LCEAs) for non-domestic Energy Performance Certificates (EPCs), Display Energy Certificates (DECs), Air Conditioning Inspectors (ACI), ESOS Lead Assessors, Heat Networks Consultants and Section 63 Advisors for Scotland. The Low Carbon Consultants and Low Carbon Energy Assessors for the production of Energy Performance Certificates (EPCs) and Display Energy Certificates (DECs) Schemes are accredited to BS EN ISO/IEC 17024:2012 *Conformity assessment – General requirements for bodies operating certification of persons* by UKAS.

CIBSE Certification also certifies organisations to management systems ISO 9001 *Quality management*, ISO 14001 *Environmental management*, ISO 50001 *Energy management* and ISO 45001 *Occupational health and safety*. This part of the business is accredited by UKAS to BS EN ISO/IEC 17021:2015 *Conformity assessment – required for bodies providing audit and certification of management systems* by UKAS.

Personnel Schemes business

Personnel Schemes registrations have remained steady and the business is seeing new applications for various schemes. Lodgement credit sales increased for 2022 and were 13.8% higher than 2021. To operate within the personnel sector, CIBSE Certification has been given a letter of authority by the Department for Levelling Up, Housing and Communities (DLUHC). Their annual audit was completed successfully, and they received the following comment:

‘The Auditors have noted in their report that CIBSE has gone over and above the requirements of the SORs, which include auditing 100% of their members against the minimum annual Continuous Professional Development (CPD) requirement; and checks on their members’ right to work in the UK. CIBSE have also implemented a well-structured database. Their ongoing work on smart rules was seen as an exemplar, which other Schemes would benefit from, and the introduction of a digital ID card to all their members makes the checking and validation of membership an active process’.

Management systems business

We have extended our certification offering of management systems to include ISO 45001 and are awaiting UKAS accreditation in early 2023 for this standard. In 2022, our management systems business revenue increased by 50%. We have expanded our scope of work and are now auditing in locations within Europe, the Middle East and USA, alongside our continued expansion within the UK.

The vision for CIBSE Certification remains for it to be the go-to certification body for the building services engineering sector and beyond, both in terms of certification of persons and management systems in business.

<https://www.cibsecertification.co.uk>

Members of the Board and Council

With effect from CIBSE AGM 5 May 2022:

President: Kevin Mitchell
President-Elect: Adrian Catchpole
Vice President: Fiona Cousins
Vice President: P L Yuen
Vice President: Les Copeland
Hon Treasurer: Vince Arnold
Immediate Past President: Kevin Kelly

Elected Members of the Board:

David Cooper
Lionel James
Ruth Kelly-Waskett
Laura Mansel-Thomas
David Stevens

Chief Executive Officer

Ruth Carter

Members of the Consultative Council

All Board members are also members of Council.

Elected Members

Colin Ashford
Andrew Bott
Michael Burton
Sanjay Modasia
Dimple Rana
Michael Smith
Andy Sneyd
Rebecca Taylor

Qualified Specialists:

Susan Hone-Brookes

Divisional Representatives

ILEVE: Dan Greer
Patrons: Scott Mason
SDE: Andy Krebs

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

ANNUAL REPORT AND FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022

SFE: Chris Aspinall
SLL: Andrew Bissell
SoPHE: Peter White

Other CIBSE Representatives:

EC(UK) Board: Andrew Rowe
Fellows Network: Geoff Prudence
Inclusivity Panel: Kevin Kelly
Nominations: Tony Day
YEN Mentor: Andrew Saville
Young Engineers Network: Gemma Taylor
WiBSE: Annette Ash

Standing Committee Chairs

Communications Committee: David Fitzpatrick
Education Training and Membership: Andrew Rowe
Knowledge Management Committee: Francis (Ted) Pilbeam
Professional Conduct Committee: Doug King
Regional Liaison Committee: Adrian Catchpole
Technology Committee: Katie Clemence-Jackson

Special Interest Group Chairs

CIBSE ASHRAE: David Green
Building Simulation: Darren Woolf
Chimneys and Flues: Jim Kinnibrugh
CHP and District Heating: Huw Blackwell
Daylight: John Mardaljevic

Electrical Services: Leon Markwell

Energy Performance: Maria Spyrou

Facilities Management: Geoff Prudence

Healthcare: Steve Clifford

Heritage: Andrew More

Homes for the Future: Tom Lelyveld

HVAC Systems: Mary-Ann Clarke

Information Technology and Controls: Peter McDermott

Intelligent Buildings: Yangang Xing

Lifts: Adam Scott

Natural Ventilation: Owen Connick

Resilient Cities: Kirstin Johansen

School Design: Alan Fogarty

Regional Chairs

Australia & New Zealand: Mark Crawford

East Anglia: Nicola Booth

East Midlands: Mahroo Eftekhari

Home Counties North East: Austin Williamson

Home Counties North West: Gita Maruthayanar

Home Counties South East: Steven Peet

Home Counties South West: Hakeem Makanju

Hong Kong: T C Chan

Republic of Ireland: Michael Curran

Merseyside & North Wales: Paul Guyers

Northern Ireland: Paul McGreevy

North East: Steve Arnold

North West: Will Harrop

Scotland: Ingrid Berkeley

South Wales: Thomas deBoeck

South West: Gonzalo Peñalba

Southern: Peter Prentice

UAE: Farah Naz

West Midlands: Jocelyn Brownlie

Yorkshire: Pritpal Jandu

Financial Review

The Institution's Annual Accounts are presented to comply with the Charities Act 2011, its Royal Charter and By-Laws, and to meet all applicable accounting standards including the Statement of Recommended Practice - Accounting and Reporting by Charities and the Financial Reporting Standard applicable in the UK and Republic of Ireland (Charities SORP FRS 102). Investments are shown at market value and the Annual Accounts incorporate the assets, liabilities, income and expenditure of the Regions. The results of the Institution's commercial subsidiaries, CIBSE Services Limited, CIBSE Certification Limited and The Chartered Institution of Building Services Engineers Hong Kong Limited, are incorporated into the Consolidated Accounts.

Total income for 2022 was £8.5M, representing an increase of £1.6M on 2021. Most revenue streams across the Group improved in 2022. The most significant increase was seen in the trading subsidiaries, which grew by £1.3M from 2021 levels. In addition, a bequest from the late Liz Peck was received in 2022, which the Trustees have agreed to designate as a separate fund in the upcoming year, in honour of her contribution to the organisation.

As a direct result of increased income and following inflationary pressures, expenditure increased over the year to £7.70M from £6.61M in 2021. The Executive maintains focus on improving margins wherever possible, without impacting further growth.

The overall result of the above was a surplus before gains on investments of £767k, compared with a gain of £279k in the previous year. Challenging market conditions saw an unrecognised loss on investments in 2022 of £296k, resulting in a net surplus of £471k.

There was an actuarial loss on the Defined Benefit Pension Scheme of £198k, as a result of investment performance, actuarial assumptions and the effect of the asset ceiling. The Institution continues to fund the recovery plan agreed following the triennial valuation of the Scheme carried out on 1st April 2020.

As a result, funds increased by £273k from £3.02M in 2021 to £3.29M in 2022.

The Group cash balance decreased from £1.91M in 2021 to £1.68M, having repaid the £500k Corona Virus Interruption Loan in full.

Reserves Policy

The Institution has a reserves policy to maintain a level of funds that is sufficient to meet four months of payroll expenditure, any unplanned contingencies and to accommodate investment for new initiatives. The Board considers that the Institution's overall level of funds is sufficient for these purposes, and the free reserves of the Institution have increased during the year. The intention of the Board is to rebuild free reserves to previous levels over time.

At the year end, the Institution held total funds of £3.02M (2021: £2.57M), being restricted funds of £132k (2021: £102k), general funds of £2.89M (2021: £2.47M) and free reserves of £0.94M (2021: £0.69M), being the amount of funds available excluding restricted and designated funds, and less reserves held as tangible fixed assets.

It is the view of the Board that any expenditure from reserves should be applied only to finance new initiatives which will make a substantial contribution to the delivery of the Institution's strategic charitable objectives, and that the cost of existing activities should be met from incoming revenues from year to year. Any decision on the use of reserves rests with the Board on the advice of the Hon. Treasurer and the Finance, Risk, Audit & Governance Sub Committee.

Going Concern

Whilst considering the adoption of going concern for the Group, the Trustees take into account a number of factors including key risks facing the organisation, budgets and ongoing forecasting, cashflow forecasts, including sensitivity analysis, and short and long-term liquidity.

The Group's revenues continue to increase with significant growth experienced in the trading subsidiaries. Membership income, which accounts for over half of the Group's revenues, is up on previous year. The Institution continued to work hard to demonstrate member benefits in an online environment and this was supported through access to substantial and essential knowledge provided by CIBSE, and an ever-growing presence in key government consultations.

The Institution also owns, in its entirety, the freehold premises from which it operates at 222 Balham High Road: an asset likely to be worth more to the Institution than is currently recognised in the accounts.

The Group conducts ongoing, detailed forecasts and cashflow analysis to assess liquidity and is confident that there are adequate resources to meet obligations falling due within the next 12 months and will continue to drive growth for the foreseeable future.

It is for the above reasons that the Trustees continue to consider CIBSE a going concern.

Risk Management

It is the responsibility of the Board, as Trustees of the Institution, to examine the major operational and business risks which the Institution faces and to establish appropriate systems to manage any significant risks.

Risk is assessed as part of the consideration of all new projects, and the Finance, Risk, Audit & Governance Sub Committee (FRAG) is charged with the detailed examination of the Institution's Risk Register and the presentation of an annual review of the Institution's overall risk profile for the Board's consideration. This review has identified and assessed the major risks faced by the Institution and confirmed that appropriate control systems have been established to manage those risks. FRAG reviews the risk register at all four of its meetings to ensure a watching brief is kept and agile planning is in place.

The Board has continued to consider a loss of relevance to the membership and failure to develop and maintain appropriate and relevant content for the Knowledge Portal, as major operational risks to the Institution and its subsidiaries. To address the first of these risks, the Institution communicates regularly with members through Council, Regions, Societies and Groups. For the second risk, the Knowledge Management Committee reviews and updates content on a regular basis.

The Board has identified financial sustainability as a principal financial risk for the Institution and its subsidiary companies. Key elements in the management of financial risk include regular review of available liquid funds to settle debts as they fall due, regular liaison with the bank, and active management of trade debtors and creditors balances to ensure sufficient working capital.

Structure, Governance and Management

The Chartered Institution of Building Services Engineers is governed by its Royal Charter and By-Laws, which were awarded in 1976 and last amended in 2010, when they were substantially streamlined by the removal of many former By-Laws into a new set of Regulations. Further changes to the By-Laws and Regulations concerning Officer and Board Member nominations, appointments and elections were approved in General Meeting during 2018.

The members of the Board of the Institution are the Trustees of the Charity. The Board is composed of the Officers of the Institution (the President, the President Elect, the three Vice Presidents, the Honorary Treasurer and the Immediate Past President) and five additional members who are elected for a three-year term of office. The office of President is filled automatically by the previous year's President Elect, with the office of Immediate Past President being filled by the previous year's President. Under new rules approved during 2018, the Vice Presidents and the Honorary Treasurer are appointed by the Board, whilst the President-Elect position remains subject to election.

The Nominations Sub-Committee is required to nominate candidates to the Board each year for the forthcoming vacancies for President Elect, the appointments of Honorary Treasurer and Vice President and for upcoming members of the Board. All newly appointed Trustees are provided with an Induction

Pack containing relevant information on their role, including Charity Commission guidance on Trustees' responsibilities. In addition, training on Trustees' responsibilities is carried out annually.

The Board meets five times each year to direct the business of the Institution and is assisted by the House & Remuneration Sub Committee (which deals with terms and conditions of employment of the Chief Executive and senior staff and ad hoc issues) and the Finance, Risk, Audit & Governance Sub-Committee (which deals with budgeting, management and financial accounts, audit, risk and governance issues). The Standing Committees of the Institution (the Education, Training & Membership Committee, Technology Committee, Professional Practices Committee, Knowledge Management Committee and the Regional Liaison Committee) report to the Board and have delegated authority within their spheres of activity.

A governance review carried out in 2022 established that our processes are robust and determined that reviewing Governance will be ongoing and iterative, not periodic with the typical five yearly intervals. Governance is now a prominent agenda item at the FRAG Committee meetings, with Dave Cooper who chaired the Review, and is the Trustee with the lead role on Governance, now sitting on the FRAG Committee and ensuring that it is kept up-to-date and consulted on the issues being, or to be, addressed.

There is a further Review currently under way into the processes and management of documentation and the version control practice required by CIBSE.

CIBSE Services Limited, one of two of the Institution's trading subsidiaries, is governed by Directors, appointed by the Board of the Institution, who meet regularly to monitor and direct its activities. The purpose of CIBSE Services Limited is to generate income for the Institution through the development and operation of commercial activities which are aligned with and support the objectives of the Institution. The Chair of CIBSE Services Limited makes regular reports to the Board of the Institution.

CIBSE Certification Limited, the other of the Institution's trading subsidiaries, is governed by Directors, appointed by the Board of the Institution, who meet regularly to monitor and direct its activities. The purpose of CIBSE Certification Limited is to generate income for the Institution through certification activities which are aligned with and support the objectives of the Institution. The Directors of CIBSE Certification Limited report to the Finance, Risk, Audit and Governance Sub Committee of the Institution.

The Chartered Institution of Building Services Engineers Hong Kong Ltd is a company limited by guarantee registered in Hong Kong. It was established to handle the operation of the CIBSE Hong Kong Region in order to meet local legislative requirements, and ultimate control of the company rests with the CIBSE Board through the appointment of its directors. The Hong Kong region otherwise operates in the same manner as other CIBSE regions, but under the auspices of this local incorporation.

Key management personnel remuneration

The Board is responsible for the governance and overall control of the Institution. The Chief Executive conducts the business of the Institution on a day-to-day basis under the direction of the Board, supported by the senior management staff of the Institution.

All Trustees give of their time freely and no Trustee remuneration was paid in the year. Details of trustee expenses and related party transactions are disclosed in Note 8 to the accounts.

Trustees are required to disclose all relevant interests and register them with the Chief Executive and in accordance with the Institution's policy withdraw from decisions where a conflict of interest arises.

The pay of the charity's Chief Executive and senior management staff is reviewed annually by the House & Remuneration Sub Committee, which is a sub-committee of the Board of Trustees comprising the President, President-Elect, Immediate Past President and Honorary Treasurer. Authority is delegated to the House Sub Committee to appraise the performance of the Chief Executive and to approve any increase to the remuneration of the Chief Executive and of the senior management staff.

A range of factors are considered in this process, including job performance, price and earnings inflation, market conditions and comparisons with other professional institutions.

Public benefit

We have referred to the guidance contained in the Charity Commission's general guidance on public benefit when reviewing our aims and objectives and in planning our future activities.

Trustees' responsibilities

The Trustees are responsible for preparing the Trustees' report and the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).

The law applicable to charities in England & Wales requires the Trustees to prepare financial statements for each financial year which give a true and fair view of the state of affairs of the Institution and the Group and of the incoming resources and application of resources of the Institution and the Group for that period. In preparing these financial statements, the Trustees are required to:

- Select suitable accounting policies and apply them consistently;
- Observe the methods and principles in the Charities SORP;
- Make judgements and estimates that are reasonable and prudent;
- State whether applicable accounting standards have been followed, subject to any material departures disclosed and explained in the financial statements; and
- Prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Institution and the Group will continue in operation.


The Trustees are responsible for keeping adequate accounting records that are sufficient to show and explain the Institution's transactions and that disclose with reasonable accuracy at any time the financial position of the Institution and the Group and enable them to ensure that the financial statements comply with the Charities Act 2011. They are also responsible for safeguarding the assets of the Institution and the Group and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

ANNUAL REPORT AND FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022

The Trustees are responsible for the maintenance and integrity of the corporate and financial information included on the Institution and the Group's website. Legislation in the United Kingdom governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

Approved by the Board of Trustees and signed on its behalf by:

A handwritten signature in dark ink, appearing to read 'Kevin Mitchell', with a small flourish at the end.

Kevin Mitchell
President 2022 – 2023

Opinion

We have audited the financial statements of the Chartered Institution of Building Services Engineers (the "parent charity") and its subsidiaries (the "group") for the year ended 31 December 2022 which comprise the Consolidated Statement of Financial Activities, the Consolidated and Institution Balance Sheets, the Consolidated Statement of Cash Flows and notes to the financial statements, including significant accounting policies. The financial reporting framework that has been applied in their preparation is applicable law and United Kingdom Accounting Standards, including Financial Reporting Standard 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland (United Kingdom Generally Accepted Accounting Practice).

In our opinion the financial statements:

- give a true and fair view of the state of the group's and of the parent charity's affairs as at 31 December 2022 and of the group's incoming resources and application of resources, including its income and expenditure for the year then ended;
- have been properly prepared in accordance with United Kingdom Generally Accepted Accounting Practice; and
- have been prepared in accordance with the requirements of the Charities Act 2011.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) (ISAs (UK)) and applicable law. Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report. We are independent of the group in accordance with the ethical requirements that are relevant to our audit of the financial statements in the UK, including the FRC's Ethical Standard, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Conclusions relating to going concern

In auditing the financial statements, we have concluded that the Trustees' use of the going concern basis of accounting in the preparation of the financial statements is appropriate.

Based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the group or parent charity's ability to continue as a going concern for a period of at least twelve months from when the financial statements are authorised for issue.

Our responsibilities and the responsibilities of the Trustees with respect to going concern are described in the relevant sections of this report.

INDEPENDENT AUDITOR'S REPORT TO MEMBERS OF THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

Other information

The Trustees are responsible for the other information contained within the annual report. The other information comprises the information included in the annual report, other than the financial statements and our auditor's report thereon. Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

Our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether this gives rise to a material misstatement in the financial statements themselves. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in this regard.

Matters on which we are required to report by exception

We have nothing to report in respect of the following matters in relation to which the Charities (Accounts and Reports) Regulations 2008 require us to report to you if, in our opinion:

- the information given in the financial statements is inconsistent in any material respect with the Trustees' report; or
- sufficient accounting records have not been kept by the parent charity; or
- the financial statements are not in agreement with the accounting records and returns; or
- we have not received all the information and explanations we require for our audit

Responsibilities of Trustees

As explained more fully in the Trustees' responsibilities statement set out on page 57, the Trustees are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view, and for such internal control as the Trustees determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Trustees are responsible for assessing the group's and the parent charity's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the Trustees either intend to liquidate the charity or to cease operations, or have no realistic alternative but to do so.

Auditor's responsibilities for the audit of the financial statements

We have been appointed as auditor under section 151 of the Charities Act 2011 and report in accordance with the Act and relevant regulations made or having effect thereunder.

Auditor's responsibilities for the audit of the financial statements (continued)

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud. The extent to which our procedures are capable of detecting irregularities, including fraud is detailed below:

A further description of our responsibilities for the audit of the financial statements is located on the Financial Reporting Council's website at: www.frc.org.uk/auditorsresponsibilities. This description forms part of our auditor's report.

Extent to which the audit was considered capable of detecting irregularities, including fraud

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We identified and assessed the risks of material misstatement of the financial statements from irregularities, whether due to fraud or error, and discussed these between our audit team members. We then designed and performed audit procedures responsive to those risks, including obtaining audit evidence sufficient and appropriate to provide a basis for our opinion.

We obtained an understanding of the legal and regulatory frameworks within which the charity and group operates, focusing on those laws and regulations that have a direct effect on the determination of material amounts and disclosures in the financial statements. The laws and regulations we considered in this context were the Charities Act 2011 together with the Charities SORP (FRS 102). We assessed the required compliance with these laws and regulations as part of our audit procedures on the related financial statement items.

In addition, we considered provisions of other laws and regulations that do not have a direct effect on the financial statements but compliance with which might be fundamental to the charitable company's ability to operate or to avoid a material penalty. We also considered the opportunities and incentives that may exist within the charitable company for fraud. The laws and regulations we considered in this context for the UK operations were General Data Protection Regulations, taxation legislation, health & safety legislation and employment legislation.

Auditing standards limit the required audit procedures to identify non-compliance with these laws and regulations to enquiry of the Trustees and other management and inspection of regulatory and legal correspondence, if any.

INDEPENDENT AUDITOR'S REPORT TO MEMBERS OF THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

Extent to which the audit was considered capable of detecting irregularities, including fraud (continued)

We identified the greatest risk of material impact on the financial statements from irregularities, including fraud, to be within the timing of recognition of income, and the override of controls by management. Our audit procedures to respond to these risks included enquiries of management and the Finance, Risk, Audit and Governance Committee about their own identification and assessment of the risks of irregularities, sample testing on the posting of journals, analytical procedures and sample testing of income, reviewing accounting estimates for biases, reviewing regulatory correspondence with the Charity Commission, and reading minutes of meetings of those charged with governance.

Owing to the inherent limitations of an audit, there is an unavoidable risk that we may not have detected some material misstatements in the financial statements, even though we have properly planned and performed our audit in accordance with auditing standards. For example, the further removed non-compliance with laws and regulations (irregularities) is from the events and transactions reflected in the financial statements, the less likely the inherently limited procedures required by auditing standards would identify it. In addition, as with any audit, there remained a higher risk of non-detection of irregularities, as these may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal controls. We are not responsible for preventing non-compliance and cannot be expected to detect non-compliance with all laws and regulations.

Use of our report

This report is made solely to the charity's Trustees, as a body, in accordance with Part 4 of the Charities (Accounts and Reports) Regulations 2008. Our audit work has been undertaken so that we might state to the charity's Trustees those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the charity and the charity's Trustees as a body, for our audit work, for this report, or for the opinions we have formed.

Crowe U.K. LLP

Crowe U.K. LLP
Statutory Auditor
London
27/07/2023

Crowe U.K. LLP is eligible for appointment as auditor of the charity by virtue of its eligibility for appointment as auditor of a company under section 1212 of the Companies Act 2006.

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

CONSOLIDATED STATEMENT OF FINANCIAL ACTIVITIES FOR THE YEAR ENDED 31 DECEMBER 2022

	Note	Unrestricted Funds £	Restricted Funds £	Total 2022 £	Unrestricted Funds £	Restricted Funds £	Total 2021 £
INCOME FROM:							
Donations and legacies	3	39,000	-	39,000	93,525	-	93,525
Charitable activities							
Members' subscriptions		3,727,068	54,802	3,781,870	3,541,396	50,748	3,592,144
Fees receivable for charitable services	3	529,302	14,525	543,827	384,026	-	384,026
Other trading activities							
Trading subsidiary companies		4,034,888	-	4,034,888	2,758,593	-	2,758,593
Investments							
Investment income	4	71,540	-	71,540	63,033	-	63,033
Total income		<u>8,401,798</u>	<u>69,327</u>	<u>8,471,125</u>	<u>6,840,573</u>	<u>50,748</u>	<u>6,891,321</u>
EXPENDITURE ON:							
Raising funds							
Trading subsidiary companies		3,390,955	-	3,390,955	2,581,518	-	2,581,518
Charitable activities							
Membership		1,937,147	-	1,937,147	1,826,466	-	1,826,466
Technical		420,800	48,124	468,924	526,822	20,680	547,502
Regional & special interest groups		1,393,563	-	1,393,563	1,154,469	-	1,154,469
Research		513,258	-	513,258	502,206	-	502,206
Total expenditure	5	<u>7,655,723</u>	<u>48,124</u>	<u>7,703,847</u>	<u>6,591,481</u>	<u>20,680</u>	<u>6,612,161</u>
Net income before gains on investments		746,075	21,203	767,278	249,092	30,068	279,160
Net loss/gain on investments	10	<u>(295,953)</u>	<u>-</u>	<u>(295,953)</u>	<u>293,243</u>	<u>-</u>	<u>293,243</u>
Net income		450,122	21,203	471,325	542,335	30,068	572,403
Other recognised losses							
Actuarial loss on defined benefit pension scheme	20	<u>(198,000)</u>	<u>-</u>	<u>(198,000)</u>	<u>(130,000)</u>	<u>-</u>	<u>(130,000)</u>
Net movement in funds		252,122	21,203	273,325	412,335	30,068	442,403
Fund balances brought forward at 1 January		<u>2,883,582</u>	<u>132,326</u>	<u>3,015,908</u>	<u>2,471,247</u>	<u>102,258</u>	<u>2,573,505</u>
Fund balances carried forward at 31 December		<u>3,135,704</u>	<u>153,529</u>	<u>3,289,233</u>	<u>2,883,582</u>	<u>132,326</u>	<u>3,015,908</u>

All amounts relate to continuing activities.

The notes on pages 65 to 87 form part of these financial statements.

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

CONSOLIDATED AND INSTITUTION BALANCE SHEETS AS AT 31 DECEMBER 2022

		Group		The Institution	
		2022	2021	2022	2021
	Note	£	£	£	£
Fixed assets					
Tangible assets	8	731,025	665,074	581,936	492,411
Investments	10	2,086,289	2,382,242	2,086,293	2,382,246
Total fixed assets		2,817,314	3,047,316	2,668,229	2,874,657
Current assets					
Stocks of publications		26,665	23,608	-	-
Debtors	12	1,138,752	748,899	708,538	326,555
Cash at bank and in hand		1,678,628	1,912,339	1,107,818	1,485,263
Total current assets		2,844,045	2,684,846	1,816,356	1,811,818
Liabilities					
Creditors: Amounts falling due within one year	13	(2,372,126)	(2,283,587)	(2,080,515)	(1,657,345)
Net current assets/(liabilities)		471,919	401,259	(264,159)	154,473
Total assets less current assets/(liabilities)		3,289,233	3,448,575	2,404,070	3,029,130
Creditors: Amounts falling after more than one year	14	-	(441,667)	-	(441,667)
Net assets excluding pension scheme asset		3,289,233	3,006,908	2,404,070	2,587,463
Defined benefit pension scheme asset	20	-	9,000	-	9,000
Total net assets		3,289,233	3,015,908	2,404,070	2,596,463
The funds of the charity					
Restricted Funds	15	153,529	132,326	153,529	132,326
Unrestricted funds					
General fund	16	1,677,948	1,643,099	792,785	1,223,654
Designated funds	16	1,457,756	1,240,483	1,457,756	1,240,483
Total charity funds	19	3,289,233	3,015,908	2,404,070	2,596,463

Approved and authorised for issue on behalf of the Board of Trustees on 27/07/2023

Kevin Mitchell
President 2022 - 2023

Vince Arnold
Honorary Treasurer

The notes on pages 65 to 87 form part of these financial statements.

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

CONSOLIDATED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 31 DECEMBER 2022

	Note	2022 £	2021 £
Cash inflows from operating activities:			
Net cash provided by operating activities	I	325,634	292,739
Net cash flow from investing activities:			
Income from investments		71,539	63,033
Purchase of property, plant and equipment		(189,215)	(227,144)
Proceeds from sale of investments		-	2,243,476
Purchase of investments		-	(2,243,476)
Net cash used in investing activities		(117,676)	(164,111)
Cash flows from financing activities			
Cash outflows for repayment of previous borrowing		(441,667)	-
Cash inflows from new borrowing		-	500,000
Net cash provided by/(used in) financing activities		(441,667)	500,000
(Decrease)/Increase in cash in the year	II	(233,710)	628,628
Net cash funds at 1 January		1,912,339	1,283,711
Net cash funds at 31 December		1,678,628	1,912,339

Notes to the cash flow statement

I. Reconciliation of net income to net cash flow from operating activities

Net income for the reporting period (as per the Statement of Financial Activities)	471,325	572,403
Net loss/(gain) on investments	295,955	(293,243)
Investment income	(71,540)	(63,033)
Depreciation charges	123,266	147,227
Decrease/(Increase) in stocks of publications	(3,058)	6,293
Decrease in debtors	(389,853)	(121,951)
(Increase)/Decrease in creditors	88,539	160,043
Decrease in pension asset to liability	(189,000)	(115,000)
Net cash provided by operating activities	325,634	292,739

II. Analysis of changes in net funds excluding term deposits

	At 01/01/2022 £	Cash Flows £	At 31/12/2022 £
Short term deposits (<i>deposited on 24 hour notice</i>)	1,482,465	(298,838)	1,183,627
Cash at bank and in hand	429,874	65,127	495,001
Total cash and cash equivalents	1,912,339	(233,710)	1,678,628

The notes on pages 65 to 86 form part of these financial statements.

1 GENERAL INFORMATION

The Chartered Institution of Building Services Engineers is a charity registered in England and Wales, registration number 278104. It is governed by its Royal Charter and By-laws which were awarded in 1976 and last amended in 2010. The registered office is 222 Balham High Road, London, SW12 9BS.

2 ACCOUNTING POLICIES

The principal policies adopted, judgements and key sources of estimation uncertainty in the preparation of the financial statements are as follows:

2.1 Basis of accounting

The financial statements have been prepared under the historical cost convention with items recognised at cost or transaction value unless otherwise stated in the relevant note(s) to these financial statements. The financial statements have been prepared in accordance with Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019) - (Charities SORP (FRS 102)), the Financial Reporting Standard applicable in the UK and Ireland (FRS 102) and the Charities Act 2011.

The Chartered Institution of Building Services Engineers meets the definition of a public benefit entity under FRS 102.

2.2 Going concern

Having reviewed the Group's forecasts and cashflow projections, the Trustees believe there to be no material uncertainties about the Group's ability to continue as a going concern. The Trustees believe this will be aided by recent and upcoming changes to regulation within the construction industry, in view of the Group's ability to influence those changes and assist in that transition, alongside significant reductions to the Group's cost base.

The Trustees believe there is adequate cash and liquid investments to meet their liabilities as they fall due for at least a year from the date of the signing of these accounts. As such the Trustees continue to adopt the going concern basis for the preparation of the annual financial statements.

The most significant areas of judgement and key assumptions that affect the items in the financial statements relate to the estimation of the defined benefit pension scheme's assets and liabilities (see Note 2.18 and Note 20).

2.3 Financial statements of the Institution and its trading subsidiaries

The financial statements include the consolidation of CIBSE Services Limited, CIBSE Certification Limited and The Chartered Institution of Building Services Engineers Hong Kong Limited (CIBSE Hong Kong Limited), all wholly owned subsidiaries of the Institution.

No separate Statement of Financial Activities has been presented for the Institution. The results of the Institution for the year ended 31 December 2022 are included in Note 17.

2 ACCOUNTING POLICIES *(continued)*

2.3 Financial statements of the Institution and its trading subsidiaries (continued)

The Institution has taken advantage of the disclosure exemption permitted by FRS 102 of the requirements of Section 7 Statement of Cash Flows to not disclose a charity-only Statement of Cash Flows.

2.4 Funds

The Institution has divided its funds into categories according to their nature and purpose as follows:

Unrestricted funds

Funds available for the Institution to pursue all of its objectives under its Royal Charter and comprise:

General fund

This represents the undesignated accumulated surpluses from funds available for the general objectives of the Institution.

Designated fund

Funds designated to pursue a particular objective or group of objectives under the Royal Charter and comprise:

Research Fund

This fund has the objectives of raising and designating funds for the purpose of enabling research to advance the art, science and practice of building services engineering.

Education Fund

CIBSE established this fund with the objective of raising and designating funds to enable CIBSE to further education in the art, science and practice of building services engineering.

Richard Tully Family Publication Fund

This fund was established by the designation of a gift from Richard E J Tully, with the objective of funding awards to encourage the continued publication of good engineering practice in the profession of building services engineering.

Domestic Building Services Panel Fund

This fund has the objectives of raising and designating funds for the purpose of enabling research to advance the art, science and practice of building services engineering for Domestic Heating publications.

Society of Light and Lighting Fund

This fund has the objective of funding the operations of the Society of Light and Lighting Fund.

Ken Dale Fund

This fund was established following receipt of a legacy from past president Ken Dale designated to advance the art, science and practice of building services engineering in his name.

Graham Manly Fund

This fund was established following receipt of a legacy from past president, Graham Manly. The fund has been designated for the use and promotion of Building Services Engineering in schools.

Liz Peck Fund

This fund was established following receipt of a legacy from past Society of Light and Lighting (SLL) president, Liz Peck. The fund has been designated to be used to inspire and educate young adults and those at the earlier stages of their lighting career and will be managed by the SLL.

2 ACCOUNTING POLICIES *(continued)*

2.4 Funds *(continued)*

Restricted funds

These funds have been received by the Institution with specific restrictions on their use within the objectives of its Royal Charter and comprised:

Patrons Fund

This fund was formed to provide a base for financing activities of concern to the building services industry as a whole, for which adequate funds were not available within the unrestricted funds of the Institution, and to provide liaison between the Institution and its members with the commercial organisations involved in building services engineering.

2.5 Branches, groups and regions

The activities of branches, groups and regions, together with their assets and liabilities are incorporated within these accounts.

2.6 Income

Subscriptions

Subscriptions due are treated as income for the periods to which they relate. Subscriptions received in respect of future years are carried forward in the financial statements as deferred income until the relevant subscription year.

Legacies

Legacies are included in the Statement of Financial Activities where probate was granted prior to the balance sheet date and a distribution is considered probable and the amount can be reliably estimated.

Donations and grants

Donations and grants are included in the financial statements when receivable.

Volunteers

CIBSE as an organisation relies heavily on its volunteers to allow it to carry out the wide variety of work that it does, across a range of fields within building services. Attempting to provide such in-depth knowledge for an industry as diverse as building services is an enormous undertaking, and would be impossible without the hundreds of experts who give their time and resources to the Institution and work to remain on the forefront of technology.

Carrying out a variety of roles on a voluntary basis for CIBSE, from contributing to technical papers, to serving on the board and deciding strategy, to helping at events and with media requests, the volunteers give substantial resources at a time when the industry has never been more stretched. However, as it is impractical to place a monetary value on the volunteers' contribution due to the absence of a reliable measurement basis, the contribution of volunteers are not included as income in the financial statements.

Fees received for charitable services

These represent amounts receivable in respect of goods or services during the year.

Investment income and gains

Investment income, including any tax recoverable thereon, is included in the financial statements in the year in which they are receivable. Investment gains and losses are incorporated in the financial statements as they occur. Unrealised gains and losses arising from the valuation of investments, together with any movements in such gains are separately identified within the financial statements.

2 ACCOUNTING POLICIES *(continued)*

2.7 Expenditure

Expenditure is accounted for on an accrual basis and is recognised where there is a legal and constructive obligation to pay for the expenditure.

Charitable expenditure comprises expenses incurred on the defined charitable purposes of the Institution. Cost of raising funds comprises expenses incurred in enhancing and maintaining the public image of the Institution and expenditure incurred in trading activities that raise funds.

Governance costs comprise expenses incurred in the governance of the Institution and its assets and are primarily associated with constitutional and statutory requirements.

Each category includes direct expenses and staff costs, together with an allocation of overhead costs based on a combination of direct staff costs and activity levels.

2.8 Tangible fixed assets

Freehold land is not depreciated. The charity separately identifies the major components of its properties and charges depreciation so as to write down the cost of each component to its estimated residual value on a straight line basis over its expected useful life.

The useful lives are as follows:	Building structure	50 years
	Doors	30 years
	Windows	10 years
<i>Other tangible fixed assets:</i>	Computer equipment	3 - 5 years
	Fixtures & fittings	5 years

2.9 Investments

Listed investments are a form of basic financial instrument and are initially recognised at their transaction value and subsequently measured at their fair value as at the balance sheet date using the closing quoted market price. The Statement of Financial Activities includes the net gains and losses arising on revaluation and disposals throughout the year.

Unlisted investments comprise investments in subsidiaries which are measured at cost less impairment.

A source of financial risk faced by the charity is that is that of volatility in equity markets and investment markets due to wider economic conditions, the attitude of investors to investment risk, and changes in sentiment concerning equities, particularly currency risk, and within particular sectors or sub sectors.

2 ACCOUNTING POLICIES *(continued)*

2.10 Impairments

Assets not measured at fair value are reviewed for any indication that the asset may be impaired at each balance sheet date. If such indication exists, the recoverable amount of the asset, or the asset's cash generating unit, is estimated and compared to the carrying amount. When the carrying amount exceeds its recoverable amount, an impairment loss is recognised in the Statement of Financial Activities unless the asset is carried at a revalued amount where the impairment loss is a revaluation decrease.

2.11 Financial Instruments

The company only has financial assets and financial liabilities of a kind that qualify as basic financial instruments. Basic financial instruments are initially recognised at transaction value and subsequently measured at their settlement value with the exception of bank loans which are subsequently measured at amortised cost using the effective interest method.

A financial asset is derecognised only when the contractual rights to cash flows expire or are settled, or substantially all the risks and rewards of ownership are transferred to another party, or if some significant risks and rewards of ownership are retained but control of the asset has transferred to another party that is able to sell the asset in its entirety to an unrelated third party. A financial liability (or part thereof) is derecognised when the obligation specified in the contract is discharged, cancelled or expires.

2.12 Stocks

Finished stocks relate to technical publications and are stated at the lower of cost and net realisable value. Cost comprises the price of purchasing, printing, binding and compilation.

2.13 Debtors

Trade and other debtors which are receivable within one year and which do not constitute a financing transaction are initially measured at the transaction price. Trade debtors are subsequently measured at amortised cost, being the transaction price less any amounts settled and any impairment losses.

A provision for impairment of trade debtors is established when there is objective evidence that the amounts due will not be collected according to the original term of the contract. Impairment losses are recognised in the statement of financial activities for the excess of the carrying value of the trade debtor over the present value of the future cash flows discounted using the original effective interest rate. Subsequent reversals of an impairment loss that objectively relate to an event occurring after the impairment loss was recognised, are recognised immediately in the statement of financial activities.

2.14 Cash at bank and in hand

Cash at bank and in hand include cash and short term highly liquid investments with a short maturity of three months or less from the date of acquisition or opening of the deposit.

2.15 Creditors

Creditors and provisions are normally recognised at their settlement amount after allowing for any trade discounts due.

2.16 Holiday pay accruals

A liability is recognised to the extent of any unused holiday pay entitlement which has accrued at the balance sheet date and carried forward to future periods. This is measured at the undiscounted salary cost of the future holiday entitlement so accrued at the balance sheet date.

2 ACCOUNTING POLICIES *(continued)*

2.17 Pension contributions

The Institution operates a non-contributory pension scheme providing benefits based on final pensionable salary. The assets of the scheme are invested with an insurance company and are totally separate from those of the Institution. This scheme was closed to new members in 1999. The Institution has fully adopted the disclosures set out in section 28 of FRS 102. The difference between the fair value of the assets held in the Institution's defined benefit pension scheme and the scheme's liabilities measured on an actuarial basis using the projected unit method are recognised in the Institution's Balance Sheet as a pension scheme asset or liability as appropriate. The carrying value of any resulting pension scheme asset is restricted to the extent that the Institution is able to recover the surplus either through reduced contributions in the future or through refunds from the scheme.

Changes in the defined benefit pension scheme asset or liability arising from factors other than cash contributions by the Institution are charged to the Statement of Financial Activities in accordance with section 28 of FRS 102. The Institution contributes to a stakeholder pension scheme operated by Aviva and is open to all employees. The annual contribution payments are charged to the Statement of Financial Activities.

2.18 Taxation

The Institution is registered as a charity, registration number 278104, and in consequence it is exempt from taxation on income arising from and expended on its charitable activities.

2.19 Foreign currencies

Transactions in foreign currency are recorded at the rate ruling at the date of the transaction. Monetary assets and liabilities are translated at the rate of exchange ruling at the balance sheet date. All differences are taken to the Statement of Financial Activities.

2.20 Judgements and key sources of estimation uncertainty

Estimates and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. There are no estimates and assumptions that are considered to have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year.

3 DONATIONS INCOME AND CHARITABLE SERVICES INCOME

Donation income receivable in the year is derived from:

	Unrestricted funds	Restricted funds	Total 2022	Unrestricted funds	Restricted funds	Total 2021
	£	£	£	£	£	£
Donations receivable	39,000	-	39,000	93,525	-	93,525
	-----	-----	-----	-----	-----	-----
	39,000	-	39,000	93,525	-	93,525
	-----	-----	-----	-----	-----	-----

During the year, a donation of £39,000 was received from the late Liz Peck, to be used for to inspire and educate young adults and those at the earlier stages of their lighting career. The Trustees have agreed to transfer the full donation into a Designated Fund in the name of Liz Peck, to be managed by the Society of Light and Lighting.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

3 DONATIONS INCOME AND CHARITABLE SERVICES INCOME (*continued*)

Fees receivable for charitable services for the year is derived from:

	Unrestricted funds	Restricted funds	Total 2022	Unrestricted funds	Restricted funds	Total 2021
	£	£	£	£	£	£
Training delegate fees	39,342	14,525	53,867	59,234	-	59,234
Publications	11,406	-	11,406	15,155	-	15,155
Societies sponsorship fees	159,199	-	159,199	7,000	-	7,000
Grants and royalties	121,326	-	121,326	134,761	-	134,761
Sundry	198,029	-	198,029	167,875	-	167,875
	-----	-----	-----	-----	-----	-----
	529,302	14,525	543,827	384,025	-	384,025
	-----	-----	-----	-----	-----	-----

4 INVESTMENT INCOME

Investment income for the year is derived from:

	Unrestricted funds	Restricted funds	Total 2022	Unrestricted funds	Restricted funds	Total 2021
	£	£	£	£	£	£
Listed investments	65,539	-	65,539	62,871	-	62,871
Cash deposits	6,000	-	6,000	162	-	162
	-----	-----	-----	-----	-----	-----
	71,539	-	71,539	63,033	-	63,033
	-----	-----	-----	-----	-----	-----

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

5 EXPENDITURE

	Staff Direct Costs £	Other Direct Costs £	Staff Support Cost £	Other Support Cost £	2022 Total £	2021 Total £
Expenditure on raising funds						
Trading subsidiary companies	1,363,340	2,027,614	-	-	3,390,954	2,581,518
Expenditure on charitable activities						
Membership	635,274	224,395	631,731	445,746	1,937,146	1,826,466
Technical	147,048	72,472	146,227	103,177	468,924	547,502
Regional & special interest groups	291,585	607,426	289,959	204,593	1,393,563	1,154,469
Research	153,303	99,941	152,448	107,566	513,258	502,206
	-----	-----	-----	-----	-----	-----
	2,590,550	3,031,848	1,220,365	861,082	7,703,847	6,612,161
	-----	-----	-----	-----	-----	-----

6 SUPPORT COSTS

The support costs have been allocated on the following basis:

Support cost	Basis of allocation	2022 £	2021 £
Administration staff and welfare	Staff costs	1,220,366	1,179,228
Temporary staff, recruitment & consultants	Direct allocation to projects	55,304	42,380
Meeting costs	Direct allocation to projects	52,498	2,310
Office costs	Total number of employees	104,296	97,245
Premises	Area occupied basis	67,746	62,828
IT	Direct allocation to projects	339,867	270,503
Legal & professional fees	Direct allocations to projects	86,354	128,489
Depreciation	Direct allocation to projects	57,945	69,443
Bad debt	Actual	4,871	3,978
Marketing	Direct allocation to projects	38,999	42,614
		-----	-----
		2,028,246	1,899,018
		-----	-----
Governance costs	Basis of allocation		
Auditor's remuneration - statutory audit	Direct allocation to projects	25,000	20,000
AGM & annual report cost	Direct allocation to projects	13,232	12,374
Trustees expenses	Direct allocation to projects	14,968	15,832
		-----	-----
		53,200	48,206
		-----	-----

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

7 STAFF COSTS

	2022	2021
	£	£
Wages and salaries	3,050,474	2,951,311
Temporary staff and agency fees	21,895	13,465
Social security costs	358,905	325,401
Pension costs:	-	-
Defined contribution pensions	189,584	155,313
Defined benefit pensions	22,366	14,000
	<u>3,643,224</u>	<u>3,459,490</u>

The average number of employees during the year, who were all engaged in the activities of the Institution and its subsidiaries, was:

61 62

The key management personnel of the parent charity, the Institution, comprise the Trustees, the Chief Executive Officer and the senior management team. Total employee benefits of key management personnel for the year under review were £1,022,962 (2021: £934,264). No Trustee received remuneration in 2022 or 2021.

None of the Institution's wholly-owned subsidiaries employ staff directly. As a result, the key management personnel and their aggregate employee benefits for the group is the same as the Institution as disclosed above.

The number of employees earning total emoluments of £60,000 or more:

£60,001 to £70,000	5	3
£70,001 to £80,000	3	4
£80,001 to £90,000	1	3
£90,001 to £100,000	1	1
£100,001 to £110,000	-	1
£120,001 to £130,000	1	-
£140,001 to £150,000	-	1
£180,001 to £190,000	1	-
£220,001 to £230,000	1	-

Contributions in the year for provision of the pension schemes in respect of key senior management personnel amounted to £74,263 for 8 staff (2021: £43,363 for 8 staff).

During the year, termination payments were made to two non-director employees upon ceasing employment with the Institution. Payments amounted to £11,696 (2021: one non-director employee termination payment of £26,000.)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

8 TANGIBLE FIXED ASSETS

Group	Freehold Property	Computer Equipment	Furniture & Equipment	Total
	£	£	£	£
Cost				
Balance at 1 January 2022	426,000	1,260,786	297,760	1,984,546
Additions	39,179	149,534	502	189,215
Disposals	-	(171,250)	(3,527)	(174,777)
	-----	-----	-----	-----
Balance at 31 December 2022	465,179	1,239,070	294,735	1,998,984
	-----	-----	-----	-----
Accumulated depreciation				
Balance at 1 January 2022	162,414	898,162	258,896	1,319,472
Charge for the year	4,324	114,150	4,792	123,266
Disposals	-	(171,250)	(3,529)	(174,779)
	-----	-----	-----	-----
Balance at 31 December 2022	166,738	841,062	260,159	1,267,959
	-----	-----	-----	-----
Net book value				
At 31 December 2022	298,441	398,008	34,576	731,025
	-----	-----	-----	-----
At 31 December 2021	263,586	362,624	38,864	665,074
	-----	-----	-----	-----

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

9 TANGIBLE FIXED ASSETS (*continued*)

Institution	Freehold Property £	Computer Equipment £	Furniture & Equipment £	Total £
Cost				
Balance at 1 January 2022	426,000	582,838	293,580	1,302,418
Additions	39,179	111,873	-	151,052
Disposals	-	(102,985)	(3,527)	(106,512)
	-----	-----	-----	-----
Balance at 31 December 2022	465,179	591,726	290,053	1,346,958
	-----	-----	-----	-----
Accumulated depreciation				
Balance at 1 January 2022	162,414	392,446	255,148	810,008
Charge for the year	4,324	52,410	4,792	61,526
Disposals	-	(102,985)	(3,527)	(106,512)
	-----	-----	-----	-----
Balance at 31 December 2022	166,738	341,871	256,413	765,022
	-----	-----	-----	-----
Net book value				
At 31 December 2022	298,441	249,855	33,640	581,936
	-----	-----	-----	-----
At 31 December 2021	263,586	190,392	38,432	492,411
	-----	-----	-----	-----

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

10 FIXED ASSETS INVESTMENTS

	Group		The Institution	
	2022	2021	2022	2021
	£	£	£	£
Balance as at 1 January	2,382,242	2,088,999	2,382,246	2,089,003
Purchase of units	-	2,243,476	-	2,243,476
Sale of units	-	(2,243,476)	-	(2,243,476)
Net gains on investments				
Gains on sale of investments	-	154,477	-	154,477
Net (loss)/ gain on revaluation at 31 December	(295,953)	138,766	(295,953)	138,766
Balance as at 31 December	2,086,289	2,382,242	2,086,293	2,382,246

Investments are made up of:

Listed investments	2,086,288	2,382,242	2,086,288	2,382,242
<u>Trading subsidiaries:</u>				
100% interest in CIBSE Services Limited	-	-	2	2
100% interest in CIBSE Certification Limited	-	-	2	2
100% interest (100% Group / 50% The Institution) in The Chartered Institution of Building Services Engineers Hong Kong Limited	-	-	-	-
	2,086,288	2,382,242	2,086,292	2,382,246

The historical cost of listed investments are:

Listed Investments cost at 1 January	2,243,476	1,117,199	2,243,476	1,117,199
Less: sale of units	(2,243,476)	(1,117,199)	(2,243,476)	(1,117,199)
Add: Purchase of units	2,243,476	2,243,476	2,243,476	2,243,476
Listed Investments cost at 31 December	2,243,476	2,243,476	2,243,476	2,243,476

The listed investments are managed on behalf of the Institution by CCLA Investment Management Limited.

The significance of financial instruments to the ongoing financial sustainability of the Institution is considered in the investment powers section of the Trustees' Annual Report. The basis of fair value for listed investments is equivalent to the market value, using the mid-market price.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

11 TRANSACTIONS WITH TRUSTEES AND RELATED PARTY TRANSACTIONS

The Trustees of the Institution are the members of Board, who are drawn, from time to time, from the membership of the Institution. No member of Board received any remuneration or benefits-in-kind for their duties as Trustees (2021: Nil).

Members of the Board of Trustees are reimbursed for travelling and other expenses whilst engaged on the activities of the Institution.

	2022	2021
	£	£
Reimbursements were made as follows:		
Reimbursed to 11 Trustees (2021: 2 Trustees)	14,968	382
	-----	-----

Under the terms of the Royal Charter & Bylaws, the Institution is empowered to make reasonable and proper payments to members for services actually rendered to the Institution. This power includes Trustees, in their capacity as members of the Institution. In their capacity as members of the Institution, Trustees are obliged to pay annual subscriptions due to the Institution and are entitled to take advantage of the services offered by the Institution and its subsidiary company, on the same terms offered to all members, or to the general public. Where members or their connections provide services to, or utilise any other services or facilities of the Institution, the amounts paid to or charged by the Institution are based on either:

- Standard rates paid by the Institution to members and non-members alike, for services such as lecturing or interviewing of candidates; or
- Rates negotiated on behalf of the Institution, independently of the member involved, by the Board, or their delegated committee, based on competitive tenders or general commercial rates.

During the year, the Institution is aware that payments have been made by the Institution for commercial services provided to it, or charges made by the Institution for utilising other services or facilities of the Institution, by certain Members of the Board of Trustees, or their connections, as follows:

During 2022, there was £4,875 paid to a Trustee, Vince Arnold, for speaker fees in relation to training on the Building Safety Act (2021: £Nil).

As at 31 December 2022, CIBSE owed £28,631 to the CIBSE Benevolent Fund Trust (2021: CIBSE owed £15,582), a related party by virtue of the Fund's objectives to provide support to members or former members of CIBSE and their immediate dependants of such persons. The following transactions took place during the year:

	2022	2021
	£	£
Administration fee charged to the Benevolent Fund	1,750	1,750
Payments made on behalf of the Benevolent Fund		
Expenses	1,116	-
Grants	1,600	1,650
Amounts received on behalf of the Benevolent Fund		
Donations	19,051	23,641

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

11 TRANSACTIONS WITH TRUSTEES AND RELATED PARTY TRANSACTIONS CONTINUED

As at 31 December 2022, CIBSE owed £334,445 to CIBSE Services Ltd (2021: CIBSE was owed £61,441), a related party as a wholly owned subsidiary. The following transactions took place during the year:

	2022 £	2021 £
Amount received under gift aid from Services	211,415	20,481
Overheads recharged to Services	130,975	110,473
Amount paid to Services for development and content of the Knowledge Portal	173,216	166,773
Amount received for staff costs	951,722	749,568

As at 31 December 2022, CIBSE was owed £56,251 from CIBSE Certification Ltd (2021: CIBSE was owed £19,317), a related party as a wholly owned subsidiary. The following transactions took place during the year:

	2022 £	2021 £
Amount received under gift aid from Certification	32,394	-
Overheads recharged to Certification	43,658	36,824
Amount received for staff costs	385,394	376,735

As at 31 December 2022, there was no outstanding balance with CIBSE Hong Kong Ltd (2021: balance was also Nil), a related party as the Institution is an ultimate controlling party. The following transaction took place between the parties during the year:

	2022 £	2021 £
Annual regional grant paid to CIBSE Hong Kong Limited	65,971	50,561

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

12 DEBTORS

	Group		The Institution	
	2022	2021	2022	2021
	£	£	£	£
Trade debtors	596,184	321,747	336,234	57,792
Amounts owed by group undertakings	-	-	132,303	80,758
Prepayments and accrued income	411,253	326,957	140,931	118,816
Other debtors	131,315	100,195	99,070	69,189
	-----	-----	-----	-----
	1,138,752	748,899	708,538	326,555
	-----	-----	-----	-----

13 CREDITORS: AMOUNTS DUE WITHIN ONE YEAR

	Group		The Institution	
	2022	2021	2022	2021
	£	£	£	£
Bank loan (Note 14)	-	58,333	-	58,333
Trade creditors	225,292	137,971	141,778	63,012
Amounts owed to group undertakings	-	-	334,446	-
Accruals	250,486	264,340	137,531	188,258
Deferred income: amounts received in advance for subscriptions & services	1,332,142	1,206,898	1,063,014	912,263
Taxation and social security	182,112	200,617	95,531	136,111
Other creditors	382,094	415,427	308,215	299,368
	-----	-----	-----	-----
	2,372,126	2,283,587	2,080,515	1,657,345
	-----	-----	-----	-----
Deferred income				
At 1 January	1,206,898	1,169,697	912,263	918,131
Amounts released to income	(1,206,898)	(1,169,697)	(912,263)	(918,131)
Amount deferred in the year	1,332,142	1,206,898	1,063,014	912,263
	-----	-----	-----	-----
At 31 December	1,332,142	1,206,898	1,063,014	912,263
	-----	-----	-----	-----

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

14 CREDITORS: AMOUNTS DUE OVER ONE YEAR

	Group		The Institution	
	2022	2021	2022	2021
	£	£	£	£
Bank loan	-	441,667	-	441,667
	-----	-----	-----	-----
	-	441,667	-	441,667
	-----	-----	-----	-----

15 RESTRICTED FUNDS – Group

Current Year	Movement in Funds				Balance at 31 December 2022
	Balance at 1 January 2022	Income	Expenditure	Transfers	
	£	£	£	£	
Patrons Fund	132,326	69,327	(48,124)	-	153,529
	-----	-----	-----	-----	-----
	132,326	69,327	(48,124)	-	153,529
	-----	-----	-----	-----	-----

Prior Year	Movement in Funds				Balance at 31 December 2021
	Balance at 1 January 2021	Income	Expenditure	Transfers	
	£	£	£	£	
Patrons Fund	102,258	47,703	(17,635)	-	132,326
	-----	-----	-----	-----	-----
	102,258	47,703	(17,635)	-	132,326
	-----	-----	-----	-----	-----

See Note 2.4 for description of funds

THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

16 UNRESTRICTED AND DESIGNATED FUNDS – Group

Current Year

	Movement In Funds				Balance at 31 December 2022
	Balance at 1 January 2022	Income	Expenditure	Net of investments gain & pension scheme movement	
	£	£	£	£	£
Research Fund	273,937	271,535	(253,244)	-	292,228
Education Fund	62,439	1,265	(431)	-	63,273
Richard Tully Family Publication Fund	144,899	2,957	-	-	147,856
Domestic Building Services Panel Fund	277,578	63,017	(25,495)	-	315,100
Society of Light and Lighting	372,399	199,823	(169,952)	-	402,270
Ken Dale Fund	109,232	2,148	(4,015)	-	107,365
Graham Manly Fund	-	95,323	(5,455)	-	89,868
Liz Peck Fund	-	39,796	-	-	39,796
	-----	-----	-----	-----	-----
Designated Funds	1,240,484	675,864	(458,592)	-	1,457,756
General Fund	1,643,099	7,895,180	(7,366,378)	(493,953)	1,677,948
	-----	-----	-----	-----	-----
Unrestricted Funds	2,883,583	8,571,044	(7,824,970)	(493,953)	3,135,704
	-----	-----	-----	-----	-----

See Note 2.4 for description of funds

Prior Year

	Movement In Funds				Balance at 31 December 2021
	Balance at 1 January 2021	Income	Expenditure	Net of investments gain & pension scheme movement	
	£	£	£	£	£
Research Fund	300,262	261,962	(288,287)	-	273,937
Education Fund	60,542	2,328	(431)	-	62,439
Richard Tully Family Publication Fund	139,534	5,365	-	-	144,899
Domestic Building Services Panel Fund	244,875	56,465	(23,762)	-	277,578
Society of Light and Lighting	339,392	195,891	(162,884)	-	372,399
Ken Dale Fund	108,288	4,164	(3,220)	-	109,232
	-----	-----	-----	-----	-----
Designated Funds	1,192,893	526,175	(478,584)	-	1,240,483
General Fund	1,278,354	6,024,201	(5,822,699)	163,243	1,643,099
	-----	-----	-----	-----	-----
Unrestricted Funds	2,471,247	6,550,376	(6,301,283)	163,243	2,883,582
	-----	-----	-----	-----	-----

See Note 2.4 for description of funds

17 RESULTS OF THE INSTITUTION

	2022	2021
	£	£
Total income	4,680,423	4,133,714
Total expenditure	(4,378,864)	(4,081,204)
	-----	-----
Net income before gains on investments	301,559	52,510
Net gains on investments	(295,953)	293,243
	-----	-----
Net income after gains on investments	5,606	345,753
	-----	-----
Actuarial loss on defined benefit pension scheme	(198,000)	(130,000)
	-----	-----
Net movement in funds	(192,394)	215,753
	-----	-----

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

18 TRADING SUBSIDIARIES

The Group has three wholly owned subsidiaries, CIBSE Services Limited (company registered no. 03645473) and CIBSE Certification Limited (company registered no. 06083016), which are both incorporated in the UK and The Chartered Institution of Building Services Engineers Hong Kong Limited, which is incorporated in Hong Kong. CIBSE Services Limited and CIBSE Certification Limited carry out various activities in pursuance of the charitable aims of the Institution and operates various commercial activities. CIBSE Services Limited and CIBSE Certification Limited donate their taxable profit to the Institution. The principal activities of The Chartered Institution of Building Services Engineers Hong Kong Limited are the provision of conferences and exhibition services.

A summary of the trading results and net assets of the subsidiaries for the reporting year are shown below. Audited accounts for all of the subsidiaries are filed with their respective Registrars.

	CIBSE Services Limited	CIBSE Certification Limited	CIBSE HK Limited
	£	£	£
Turnover	3,417,464	777,745	74,105
Cost of sales	(2,035,384)	(585,001)	(82,492)
Administration expenses	(728,167)	(133,943)	-
Operating profit	653,913	58,801	(8,387)
Interest receivable	1,042	-	-
Net profit/(loss) before gift aid	654,955	58,801	(8,387)

The aggregate of the assets, liabilities and funds was:

Fixed assets	122,008	26,376	706
Net current assets/(liabilities)	618,930	20,862	96,284
Net assets	740,938	47,238	96,990
Funds			
Called up share capital	2	2	-
Reserves	740,936	47,236	96,990
	740,938	47,238	96,990

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

19 ANALYSIS OF CONSOLIDATED NET ASSETS BETWEEN FUNDS

Current Year

	General Funds	Designated Funds	Restricted Funds	Total 2022
	£	£	£	£
Fund balances				
Fixed assets	731,025	-	-	731,025
Investments	2,086,288	-	-	2,086,288
Net current assets/(liabilities)	(1,139,365)	1,457,756	153,529	471,920
	-----	-----	-----	-----
Net assets excluding pension scheme asset	1,677,948	1,457,756	153,529	3,289,233
Defined benefit pension scheme asset	-	-	-	-
	-----	-----	-----	-----
Net assets including pension scheme asset	1,677,948	1,457,756	153,529	3,289,233
	-----	-----	-----	-----

Prior Year

	General Funds	Designated Funds	Restricted Funds	Total 2021
	£	£	£	£
Fund balances				
Fixed assets	665,075	-	-	665,075
Investments	2,382,242	-	-	2,382,242
Net current (liabilities)/assets	(971,551)	1,240,483	132,326	401,258
	-----	-----	-----	-----
Net Assets excluding pension scheme liability	2,075,766	1,240,483	132,326	3,448,575
Creditors due after more than one year	(441,667)	-	-	(441,667)
Defined benefit pension scheme liability	9,000	-	-	9,000
	-----	-----	-----	-----
Net assets including pension scheme liability	1,643,099	1,240,483	132,326	3,015,908
	-----	-----	-----	-----

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

20 CIBSE PENSION SCHEMES

CIBSE operates both a defined contribution and a defined benefit pension scheme which require contributions to be made separately to administered funds for the benefit of the employees. The defined contribution scheme was opened in November 2001 and employer contribution commenced in April 2007.

Final salary pension scheme

The defined benefit scheme has been reported under section 28 of FRS 102. The most recent actuarial valuation was at 1 April 2020 and it showed that the market value of the scheme's assets was £4,258,000.

Based on the current schedule of contributions the estimated contribution to be paid over to the scheme is at least 57.2% p.a (2021: 57.2% p.a) of the pensionable salary roll, on a monthly basis. However as there are no longer any active members these contributions will no longer be due.

The Trustees and the employer agreed to additional employer contributions of £150,000 p.a. until the Funding Valuation shortfall is addressed. The actuarial valuation calculated the Funding Valuation shortfall is expected to be addressed until 28 February 2026. The payments are payable by the last day of February each year and are due to remain the same over the period.

The number of employees in the scheme at the year end were:

	2022	2021
Active employees	-	1
Deferred pensioners	14	15
Pensioners	27	25

The financial assumptions used by the actuary to calculate the scheme liabilities under FRS 102 were as follows:

	2022	2021
Rate of increase in salaries	n/a	4.8%
Rate of increase in pensions in payments accrued before 6 April 1997	3.0%	3.0%
Rate of increase in pensions in payments accrued after 6 April 1997	3.0%	3.0%
Discount rate	5.1%	1.9%
Retail price inflation	3.3%	3.6%

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

20 CIBSE PENSION SCHEMES (*continued*)

	2022 £'000	2021 £'000
<i>Analysis of the amount charged to expenditure</i>		
Current service cost	(11)	(19)
Total service cost	(11)	(19)
<i>Net interest costs</i>		
Interest income on plan assets	103	58
Interest expense on defined benefit obligation	(75)	(53)
Net return	28	5
Total pension costs charged to the Statement of Financial Activities	17	(14)
<i>Analysis of the actuarial loss recognised in the Statement of Financial Activities</i>		
Actual return on plan assets, excluding interest income	(608)	616
Experience gains and losses arising on the scheme liabilities	(186)	(35)
Changes in assumptions underlying the present value of the scheme liabilities	1,195	358
Effect of asset ceiling	(599)	(1,069)
Total actuarial loss recognised in the Statement of Financial Activities	(198)	(130)
<i>Analysis of the pension accounting information under FRS 102 is shown below</i>		
<i>Amount recognised in the Balance Sheet</i>		
Present value of defined benefit obligation	(2,907)	(4,087)
Fair value of plan assets	4,833	5,423
Net defined benefit asset	1,926	1,336
Effect of asset ceiling	(1,926)	(1,327)
Recognised defined benefit asset	-	9
<i>Change in defined benefit obligation</i>		
Defined benefit obligation at beginning of period	(4,087)	(4,544)
Current service costs	(11)	(19)
Interest expenses	(75)	(53)
Remeasurement arising from changes in assumptions	1,195	358
Remeasurements arising from experience	(186)	(35)
Benefits paid	257	206
	(2,907)	(4,087)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2022

20 CIBSE PENSION SCHEMES (*continued*)

	2022 £'000	2021 £'000
<i>Change in plan assets</i>		
Assets at beginning of year	5,423	4,826
Interest income	103	58
Actual return on plan assets, excluding interest income	(608)	616
Employer contributions	172	129
Benefits paid	(257)	(206)
	-----	-----
Assets at end of year	4,833	5,423
	-----	-----
Actual return on assets	(505)	674
Asset class split		
	2022	2021
Equities	65%	62%
Property	13%	11%
Corporate Bonds	6%	6%
Gilts	12%	14%
Cash	0%	2%
Annuities	4%	5%
	-----	-----
	100%	100%
	-----	-----