

Representing the Scottish  
electrotechnical industry

# cabletalk

JUNE/JULY 2022 | £4.50

 SELECT



## Taking the lead

Donald W Orr hands over to new SELECT  
President Alistair Grant as Members finally  
meet in person again at our AGM

→ **Toolbox Talks are  
back on the road**  
Our popular free event  
returns to reach Members  
across the country

**Ready for the  
green revolution**  
What you need to know  
about the future of more  
eco-friendly technology

**Stay up to date  
on Amendment 2**  
Discover what's changed  
on overvoltage protection  
and location of fire risks

# PURPOSE BUILT SWITCHGEAR




Proteus Switchgear can offer a dedicated service of factory-built switchgear assemblies incorporating:

- Bespoke manufactured enclosures
- SPDs
- MCBs
- RCDs
- RCBOs
- AFDDs
- Metering
- EV Distribution
- Contactors
- Timers

If a standard consumer unit doesn't quite meet the demands of your next project, why not utilise our in-house manufacture service and experience a completely bespoke solution to your projects requirements.



FOR MORE INFORMATION VISIT: [WWW.PROTEUSSWITCHGEAR.CO.UK](http://WWW.PROTEUSSWITCHGEAR.CO.UK)

 [www.proteusswitchgear.co.uk](http://www.proteusswitchgear.co.uk)



**Installation Materials Division**  
...the name behind the brands





**SELECT**  
The Walled Garden,  
Bush Estate,  
Midlothian  
EH26 0SB  
t: 0131 445 5577  
f: 0131 445 5548  
e: admin@select.org.uk

**MANAGING EDITOR**  
Iain Mason  
iain.mason@select.org.uk

**cabletalk**  
Published on behalf of SELECT by  
Connect Publications (Scotland) Ltd,  
Studio 2001, Mile End,  
Paisley, PA1 1JS  
t: +44 (0)141 561 0300  
e: info@connectcommunications.co.uk

**EDITOR**  
Sarah Wolstencroft  
sarah.w@connectcommunications.co.uk

**DESIGN & PRODUCTION**  
Ryan Swinney

**ADVERTISING**  
David Hughes  
davidh@connectcommunications.co.uk  
0131 561 0022

Please phone our membership team on 0131 445 5577 to apply to become a Member of SELECT or if you would like more information about joining. Alternatively you can email us on memberservices@select.org.uk or submit an online enquiry. cabletalk is the official magazine of SELECT and is distributed free to qualifying readers. ISSN 1365-3288. SELECT is the trading style of the Electrical Contractors' Association of Scotland. The SELECT logo is a registered Collective Mark.

# Contents

**JUNE/JULY 2022**

## Regulars

- 05** OPINION                      **06** NEWS
- 64** PROZONE                    **70** DIARY

## Features

- 20** Member firm DTGen steps up to help people in war-torn Ukraine
- 26** APD marks 35th anniversary and 25 years with SELECT
- 28** Advice on getting ready for the green technology revolution
- 32** Putting safety first in plans for the homes of tomorrow
- 34** All the action from the annual President's Cup golf contest
- 38** Generous Members boost our adventurer's charity trek fund
- 39** Minister's call for more women to join the electrical industry
- 40** The benefits that private medical insurance can bring your business

**"THE SELECT PRESIDENCY WILL BE IN A VERY SAFE PAIR OF HANDS WITH ALISTAIR GRANT" // PAGE 18**



## TOOLBOX TALKS GET BACK ON THE ROAD

### Technical

- 42** Eight-page special shining a spotlight on Amendment 2

### Training

- 50** Explore the latest courses and training to top up your skills

### Industry Insight

- 52** Rudi Klein on payment performance and project bank accounts
- 54** Practical advice on tax matters that could affect your business
- 55** Expert Len Bunton examines the Conflict Avoidance Process
- 57** Answering common questions about the law and contracts

### SJIB Bulletin

- 58** Making sure you get your new ECS Card application right first time

### SECTT Update

- 60** Free tool gift helps lecturers train the industry's next generation



## NEWS AND VIEWS FROM SELECT'S AGM



The European Market Leader  
in Home Life Safety



# City & Guilds Assured Qualification DOMESTIC FIRE & CO ALARM SYSTEMS

Our brand-new course on Domestic Fire and Carbon Monoxide Alarm Systems is a City & Guilds Assured qualification - a global quality benchmark that recognises excellence in training and learning.

Gain a detailed understanding of the design, installation, maintenance, interconnection, siting, and electrical connection of Aico domestic alarm systems.

### Are you eligible?

To be eligible to participate in the course you must be:

- An **Expert Installer**
- Be a member of the **Aico Installer Community**

For more details visit:

[www.aico.co.uk/expert-installer](http://www.aico.co.uk/expert-installer)

[www.aico.co.uk](http://www.aico.co.uk) | 01691 664100 | [enquiries@aico.co.uk](mailto:enquiries@aico.co.uk)

Register  
your interest



an  Company

“

## This is a classic example of an unintended consequence of a political decision which could have devastating results for everyone in our sector

”

**F**ROM 1 January next year, the UK Government proposes to introduce a new UK Conformity Assessed (UKCA) mark for goods which will be “placed” on the market in Great Britain. As it currently stands, UK ministers are seeking new powers to end the recognition of CE marking in favour of UKCA marking in the recently-passed Building Safety Act.

At present, there is no route to accepting historic test data and reports from EU Notified Bodies for use in complying with UKCA marking.

UK-based testing houses have now stopped offering certain tests (or never did) because such tests were widely available in Europe, which has led to gaps in the British market. The catch is that manufacturers are obliged to have goods tested to a standard that may no longer be accredited by UKAS, the national accreditation body, or by firms that no longer offer tests for various reasons – e.g. retirement of key staff not yet replaced. In effect, Whitehall will have (unwittingly) banned the sale of some goods that simply cannot be tested in the UK through no fault of the manufacturer.

The upshot now is that because of continued uncertainty about as-yet-unknown future regulations,

large capital costs for SMEs to invest in more or new equipment and facilities, and next to no time available to find and train specialist staff, there is little appetite for businesses to take the plunge.

With six months to go, those affected are exasperated that uncertainty, instability and confusion prevails. This is wholly unacceptable and adds to the specification, compliance and familiarisation costs that manufacturers face – notably the money being wasted on double-testing of goods.

Whitehall has told businesses to prepare for the end of CE marking on 31 December 2022. Legislation is required but Westminster cannot give a firm date for this. The risk is that – faced with ongoing difficulties like higher costs – businesses do not bother, hoping somebody will come up with answers in time.

There are reports of distributors notifying manufacturers that unless goods supplied are UKCA marked, they will refuse CE marked goods.

This “stock cleansing” prior to 31 December is unwise and likely to be destabilising for everybody concerned.

The obvious solutions to this issue are:

- the UK Government defers the 31 December date to allow time to work through the outstanding issues –

notably to allow EU test reports to be used for a defined period after 1 January 2023.

- the Scottish and/or UK Governments find ways to support the fledging British testing market and encourage participants to boost overall capacity and capability.
- London and Brussels negotiate a UK-EU mutual recognition agreement where (for example) historic test results are accepted in both jurisdictions. This is politically difficult, and the European Commission refuses to contemplate this.

UKCA marking also applies to machinery and equipment. Worn or damaged parts needing replacement will be CE marked – and, in many cases, they will no longer be in production or not supplied in sufficient numbers to make it economical feasible to obtain UKCA marking. This has serious implications for routine maintenance or breakdowns. The solution is to allow replacement parts to meet the rules as they applied when the machinery or equipment was originally installed and put into service.

What is clear is that every business in the construction sector is facing a cliff-edge moment and only UK Government ministers can resolve this. The more members who can raise the issue with their own Westminster politicians the better.

No matter your views on the rights or wrongs of Brexit, this is a classic example of an unintended consequence of a political decision which could have devastating results for everyone in our sector. ■

**ALAN WILSON**  
Managing Director, SELECT



# News

+ PAGE 8 /  
Getting a glimpse of the future  
at the Built Environment –  
Smart Transformation centre

+ PAGE 10 /  
SNP minister Ivan McKee joins  
special guests for SELECT's  
President's Lunch celebration

+ PAGE 11 /  
Meet the new faces at The  
Walled Garden as we also  
say goodbye to an old friend

+ PAGE 13 /  
Our Alarm Ambassadors  
protect even more homes  
thanks to our campaign

**A** VISIT by a prominent Westminster politician has added further support to the long-running campaign for the regulation of the electrical industry being spearheaded by SELECT.

The association recently hosted Owen Thompson, MP for Midlothian and SNP Chief Whip, at The Walled Garden outside Edinburgh.

During his visit, Mr Thompson said he would raise the issue of protection of title for electricians in the House of Commons and would add his name to SELECT's Wall of Support. Meeting with SELECT Managing Director Alan Wilson, Director of Employment and Skills Fiona Harper and Specifier and Client Relations Manager Yvonne Wilson, Mr Thompson discussed a number of construction sector issues, including procurement and payment.

Afterwards, he said: "I am very happy to lend my name to the campaign for regulation of the electrical industry. It is an idea whose time has come, since it can only be common sense to assure the public that anyone who presents themselves as an electrician is appropriately qualified and registered and that those who work in the industry do so in a safe and competent manner.

"I fully agree that seeking to regulate electricians could have a significant positive



↑ Mr Thompson was happy to add his name to our Wall of Support

## MP Owen backs call for regulation

SNP politician says he will raise the issue of protection of title at Westminster during visit to The Walled Garden. Issue of late payments is also discussed during meeting with leading SELECT officials

economic impact, as well as helping to reduce the numbers of deaths and injuries caused each year by fires or electric shocks."

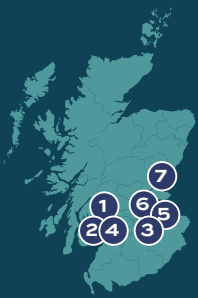
During his visit on April 13, Mr Thompson also engaged with SELECT on the importance of a collaborative public sector procurement system and a payment system which made sure that customers pay on time and in full. While taking a tour of the HQ, he also visited the

dedicated SELECT Training Centre, where the Training and Technical departments deliver a huge range of SQA-accredited courses for businesses and organisations across Scotland.

Alan said: "It was our pleasure to welcome Mr Thompson to our HQ and to have meaningful discussions about matters which affect our members, particularly recognition and the ongoing problem of late



↓ Fiona and MP Owen say regulation of the industry can bring huge benefits



## 7 FIRMS HAVE BECOME SELECT MEMBERS SINCE APRIL 2022

1. Greig's Electrical Services, Johnstone
2. Alltech Electrical Systems Ltd, Glasgow
3. E I Electrical Services, Livingston
4. LRE Electrical, Glasgow
5. M Barry & Sons Electrical Ltd, Edinburgh
6. Bain and Sons Joinery Ltd, Kirkcaldy
7. Elmwood Electrical, Dundee

payments. Mr Thompson's interest in our activities is indicative of a continuing groundswell of support for our campaigns, with a number of MSPs and other trade associations putting their names to new bricks on the Wall of Support."

Fiona, who is also The Secretary of the Scottish Joint Industry Board (SJIB), said: "I am sure Mr Thompson appreciated that safety is at the forefront of everything we do as an organisation and we will not rest until protection of title makes the industry as safe as it possibly can be."

Mr Thompson's support comes after four MSPs and two major industry organisations recently added their names to SELECT's Wall of Support, which shows organisations and individuals supporting the call for regulation of the electrical industry.

The Lift and Escalator Industry Association (LEIA) and Federation of Environmental Trade Associations (FETA) both



**"I FULLY AGREE THAT SEEKING TO REGULATE ELECTRICIANS COULD HAVE A SIGNIFICANT POSITIVE ECONOMIC IMPACT, AS WELL AS HELPING TO REDUCE THE NUMBERS OF DEATHS AND INJURIES CAUSED EACH YEAR BY FIRES OR ELECTRIC SHOCKS"**

signed up to the online resource, along with Conservative MSPs Maurice Golden, Tess White, Russell Findlay and Jamie Greene.

As the campaign for recognition of the industry continues to gather pace, we are now planning meetings with other MPs and MSPs in the coming weeks and months so we can add further names to the wall.

↑ Talks between SELECT officials and the MP covered a range of vital issues



## ANNUAL REPORT IS ONLINE

A digital copy of the SELECT Annual Report for 2021-22 is now available to download from our website.

The 20-page document includes reviews of the year from Managing Director Alan Wilson and outgoing President

Donald W Orr, plus a list of major milestones and achievements from across the association. It also includes a financial overview of the past 12 months.

Download it at [bit.ly/AR-2122](https://bit.ly/AR-2122)

© Jenny Woolgar Photography



↑ David (centre) celebrates with his team at the Chamber of Commerce Business Awards

## DRW LTD HANDED AWARD FOR EFFORTS DURING PANDEMIC

SELECT Member firm David White Electrical (DRW Ltd) has been recognised for its work during the COVID-19 pandemic.

The Gretna-based company, which is a member of the Dumfries and Galloway Branch, scooped the Outstanding Small Business Award in the region's Chamber of Commerce Business Awards.

Owner David White and his team collected the award, sponsored by Cunninghame Housing, at Easterbrook Hall in Dumfries.

David said: "We are delighted to receive this award, which recognises the professionalism of the team."

The event saw 32 finalists battle it out in 12 categories.

## UPDATE TO ADDRESS MISSING CERTIFICATES

The search facility in SELECTcerts has been updated to improve efficiency following queries about missing certificates.

All users can now search for certificates by entering any of the following criteria:

- Client/location name
- Certificate number
- Certificate type, i.e. EICR only
- User
- Number of pages.

This will help users locate certificates they thought may not have been synced and were possibly added in a different client or location by mistake.



## STEVE MURRAY TAKES OVER AT TOP OF ECA

The new President of ECA is electrical engineer Steve Murray.

The joint owner of Liverpool-based electrical contractor WT Jenkins Ltd has been an ECA Council member since May 2014, having been a Branch and Regional Chair.

Steve, who takes over from David Lewis, said: “Our industry faces significant challenges, but I am determined to support ECA’s members and the wider industry to maximise every opportunity in the next 12 months.”

ECA CEO Steve Bratt added: “With Steve at the helm, ECA will continue to push the industry towards better skills and competence, safer buildings, and a greener sector as we move towards net zero.”

**“OUR INDUSTRY FACES SIGNIFICANT CHALLENGES, BUT I AM DETERMINED TO SUPPORT ECA’S MEMBERS AND THE WIDER INDUSTRY TO MAXIMIZE EVERY OPPORTUNITY IN THE NEXT 12 MONTHS”**



↑ The use of robotics was showcased for members of the committee

# It's an electrifying glimpse of future

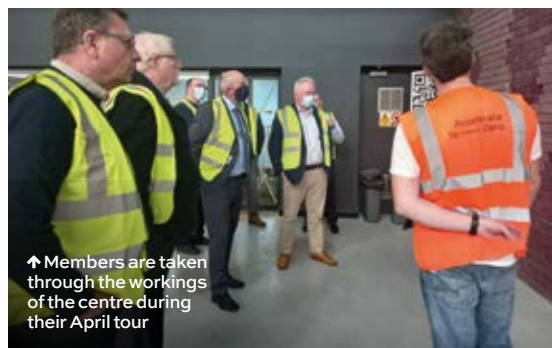
Officials from Electrotechnical Committee got a close-up look at robotics and the vital role it can play in society on a tour of the Built Environment – Smarter Transformation centre near Glasgow

**S** ELECT’S Electrotechnical Committee took a trip into the future when they held a meeting at the headquarters of Built Environment – Smarter Transformation (BE-ST).

Staff and office bearers enjoyed a close-up look at robotics as part of a tour of the facility – formerly known as the Construction Scotland Innovation Centre (CSIC) – in Blantyre, near Glasgow, on Wednesday 20 April.

The demonstration came after a meeting in the centre’s boardroom, which included a presentation on the use of robotics in construction by Matthew Paton, Technical Specialist at BE-ST.

SELECT staff in attendance were Managing Director Alan Wilson, Director of Technical Services Bob Cairney, Technical Adviser Stuart McKelvie and Specifier & Client Relations Manager Yvonne Wilson. They were joined by Aberdeen & North East Scotland Branch



↑ Members are taken through the workings of the centre during their April tour

Vice-Chair Eric Rae, Glasgow & West of Scotland Branch Chair David Harris, Glasgow & West of Scotland Branch 3rd Representative David Smith and Immediate Past President Kevin Griffin.

The visiting party was completed by David Henderson, Manager of the Scottish Electrical Charitable Training Trust (SECTT) Assessment Centre in Cambuslang.

Bob said: “I’d like to thank BE-ST for hosting us and providing an informative demonstration of this vital technology.”

## ALAN SPEAKS AT RELAUNCH

SELECT Managing Director Alan Wilson was a guest speaker at the recent rebranding of the Construction Scotland Innovation Centre.

The association MD was at the ceremony to mark the

facility being relaunched as Built Environment – Smarter Transformation (BE-ST) on Wednesday 27 April. It has been rebranded as part of a focus on the built environment’s transition to zero carbon.





Electrical contractor voted Scottish Championship Player of the Year in his second role as midfielder and fans' favourite at high-flying Arbroath FC

**S** **ELECT** Member Michael McKenna was celebrating a double success recently after winning two awards in his 'other' job – star midfielder for Arbroath FC!

The 31-year-old electrical contractor was voted the Scottish Championship Player of the Year after contributing 15 goals and numerous assists for the part-timers.

He was also voted Player of the Year by Arbroath supporters, who saw their side finish runners-up and qualify for the Premiership play-offs in May, where they lost on penalties to Inverness Caledonian Thistle.

When not playing for the Lichties, sole trader Michael runs Musselburgh-based McKenna Electrical Solutions, which became a SELECT Member firm in October 2020.

Covering Edinburgh and the Lothians, the qualified



↑ Michael contributed 15 goals and a number of assists from midfield last season

## Michael has sparks flying on the pitch

electrician specialises in a range of domestic work including re-wires, kitchen installations, EICRs and lighting upgrades.

An Arbroath source said: "Michael's passion and desire have made him a favourite of so many supporters. We don't know what he eats for breakfast but there aren't

↓ Championship Player of the Season was one of two awards handed to Michael

many players in Scotland who can match his energy week in, week out."

Signed for Arbroath from Berwick Rangers in January 2018, Michael lifted the League One trophy with the club in 2019 and also won the Lichties' goal of the season in the 2020-2021 campaign.

He won Championship Player of the Month in August 2021 and has signed a new contract that will keep him at Gayfield until 2024.

Read an interview with Michael in the next issue of *cabletalk*.



**"MICHAEL'S PASSION AND DESIRE HAVE MADE HIM A FAVOURITE OF SO MANY SUPPORTERS"**

## JOHN'S TV TURN FOR SEVILLE TRIP

Dumfries & Galloway Branch Members spotted a familiar face on their TV screens during the build-up to the Europa League Final in Seville last month.

Branch Vice-Chair John Wilson was interviewed on *Reporting Scotland* on 17 May as he and fellow Rangers fans flew out

from Prestwick the day before the final against Eintracht Frankfurt.

He told reporters: "From where we have been as a club eight years ago to where we are now is a dream."

John was also pictured with the group after touching down in Spain ahead of the game, which the Light Blues lost on penalties.



↑ John (far right) and fellow fans as they arrive in Spain



↑ The event will be held at the luxurious Glasgow Central Hotel

# McKee whets appetite for President's Lunch

Scottish cabinet minister will be star speaker for the high-profile networking event held in Glasgow this September

**G**OVERNMENT minister Ivan McKee will be the headline speaker at a special SELECT President's Lunch, which will be hosted in the spectacular surroundings of the voco® Grand Central Glasgow hotel on Friday 30 September.

This unique event will see around 100 special guests gather for a high-profile networking celebration, during which we will honour a special recipient with our Lifetime Achievement Award.

Guests will include senior political and construction industry figures, along with a number of other representatives from leading UK electrical and construction organisations.

Mr McKee, Minister for Business, Trade, Tourism and Enterprise, will also

be guest speaker at the invite-only event, which is being held in place of the SELECT Awards.

A number of Associate Members have kindly agreed to sponsor the lunch, including:

- **Electrium** as official headline event sponsors
- **MacRoberts** as official drinks sponsors
- **Luceco** as official entertainment sponsors.

SELECT Managing Director Alan Wilson said: "In light of the ongoing impact of the pandemic on events, we have decided not to hold the traditional SELECT Awards this year.

"However, we still wanted to give Central Board and fellow industry bodies the chance to meet and network, and we

look forward to catching up with sector colleagues later this year. Such an event is designed to be reciprocal and ensures that we hold our own among similar

events run by other organisations and industry bodies, maintaining our strong links across the sector."

Alan added: "We are also grateful to Associate Members Electrium, MacRoberts and Luceco for their generosity in sponsoring the event.

"Further sponsorship opportunities still remain, so please contact our team if you are interested in joining us for what promises to be a special occasion."



© Scottish Government

↑ Ivan McKee

**electrium**

**MACROBERTS**  
LLP

**LUCECO**

➔ Further information can be found at [www.selectawards.co.uk](http://www.selectawards.co.uk)



↓ Members' children will be able to enjoy a wide range of fun games at the carnival

## HERE COMES THE SUMMER FUN

We're breaking out the bunting and getting the raffle ready for our annual Summer Carnival, with all Members and their families welcome to join the fun!

This year's charity jamboree will take place on Saturday 25 June, with partygoers raising funds for the Electrical Industries Charity.

Staff, Members and their families will enjoy a day of face

painting, entertainment and games at The Walled Garden in Midlothian, with plenty of prizes to be won too!

Tickets are £3 for adults and £2 per child. To book email [charityevents@select.org.uk](mailto:charityevents@select.org.uk)

Summer  
**CARNIVAL**

# Big changes as staff say hello and goodbye at Walled Garden

It's a fond farewell to Fiona after nearly 20 years of service but there's plenty of new faces joining to freshen up the SELECT team

**S**ELLECT said goodbye to one of its most long-serving colleagues recently, and also welcomed four new members of staff to The Walled Garden.

Employment & Skills Manager Fiona Cornwall retired on Thursday 21 April after almost 20 years at the association.

The popular manager was treated to a hybrid leaving party, during which colleagues wished her well and presented her with a range of gifts, including a special *cabletalk* front page. She then enjoyed lunch with her former colleagues.

Fiona Harper, Director of Employment & Skills at SELECT, said: "Fiona has been an invaluable part of the association for almost two decades and we will miss her.

"She has been a wonderful colleague and I wish her all the very best for a happy retirement."

A number of new faces have also been welcomed to the SELECT team, including Erika Ferguson, who joined SELECT on 2 May as an Employment and Skills Adviser.

After temping with the team for a while, Kirsty Moore also started as a full-time Employment and Skills Administrator on the same date.

In the Technical Services team, Robert McGoogan joined the association from SECTT on 16 May



↑ Kirsty Moore



↑ Fiona was gifted a special *cabletalk* front page as colleagues gave her a big sendoff

as a Technical Adviser, covering Ayrshire, Dumfries and Galloway.

Another new face is Billy McRobert, who will assist with the development and presentation of SELECT technical programmes on a part-time consultative basis from 2 May onwards. Billy recently retired from his role as Curriculum Manager for Engineering at Dumfries and Galloway College.

Bob Cairney, Director of Technical Services, said: "I am delighted to welcome Robert and Billy to the Technical team. They bring with them enormous experience and expertise that I'm sure will prove beneficial to our Members and build on our existing range of services."

👉 Five minutes with...  
Erika Ferguson: Page 70

## THREE NEW ASSOCIATES WELCOMED

Three more market-leading organisations have signed up to become Associate Members of SELECT, bringing our total number of industry partners to 23.

Multinational air conditioning manufacturer **Daikin** have come on board, along with **Hager**, who provide services for residential, commercial and industrial electrical installations.

As *cabletalk* went to press, we'd also been joined by **Heat Mat Ltd**, one of the UK's leading electric underfloor heating specialists.

Launched on 1 January with eight founder members, Associate Membership gives manufacturers and service providers the chance to become part of SELECT and build beneficial relationships with Member businesses.

👉 Associate Members flock to Toolbox Talks: Pages 24-27

👉 Associate Member news: Pages 64-69



## KEVIN GETS HIS MEDAL AT LAST

Office Bearer Kevin Griffin finally received his Immediate Past President's medal recently, after the original presentation was delayed due to lockdown.

The commemorative gong was handed over by President Donald W Orr during a meeting of the SELECT Office Bearers at Dalmahoy Hotel and Country Club on 20 May.

Donald – who took over from Kevin in September 2020 – said: "Kevin deserves our enormous gratitude for helping to steer the SELECT ship through some choppy waters during the pandemic.

"He led from the front and was instrumental in a number of activities to help Members during very uncertain times."



↑ Donald presents Kevin with his gong at the Dalmahoy Hotel and Country Club

## CICV CALLS ON GOVERNMENT TO INTERVENE ON TIMING OF UKCA MARK

The CICV is calling on the Scottish Government to intervene and help address concerns raised by Scottish construction businesses over the introduction of the new UK Conformity Assessed (UKCA) mark.

The collective's Post-Brexit and Trade sub-group has written to Business Minister Ivan McKee requesting assistance as CICV businesses grapple with new UKCA conformity assessment and certification arrangements that replace CE marking after 31 December this year.

CICV has highlighted the deep frustration among manufacturers and importers that there is at present no route to accept historic test data and reports from EU Notified Bodies for use in complying with UKCA marking.

It also argues that there is insufficient testing capacity and capability for manufacturers to have their goods assessed and certified for the British market, using UK-based Approved Bodies, by the end of this calendar year.

The letter says: "There are simply not enough approved companies or qualified people to conduct the huge number of assessments and certifications required to gain UKCA marking in time.

"Whitehall has told businesses to prepare for the end of CE marking on 31 December 2022. Legislation is required but the Department for Levelling Up, Housing and Communities cannot give a firm date for this. The risk is that faced with ongoing difficulties businesses do not bother, hoping somebody will come up with answers in time."

It continues: "CICV says the situation is fast becoming serious for British manufacturers who are already spending hundreds of thousands of pounds on testing to both UK and EU standards. With eight months to go, there are too many unresolved questions."

The letter concludes with the CICV asking the Scottish Government to recognise the concerns expressed and to see if there is scope within devolved powers to assist.

"Any representations you can make to the UK Government on our behalf would be gratefully appreciated," it finishes.



# Reassurance for clients as prices surge globally

CICV says there is no profiteering after concerns raised over steep rise in costs fuelled by a perfect storm of world events, with the construction industry having to shoulder the burden

**T**HE Construction Industry Collective Voice (CICV) has reassured clients that ongoing price rises for projects are caused by global events not "profiteering" – and says any increases only reflect the spiralling costs that are affecting the whole construction industry. Clients have voiced concerns at the increasing costs of construction work, but the body – of which SELECT is a key member – insists this is due only to ongoing global events sparking a rise in fuel costs and shortages of raw materials and labour.

Iain McIlwee, Chief Executive of CICV member the Finishes and Interiors Sector (FIS), said: "The war in Ukraine, energy price hikes, impact of Brexit and fallout from COVID-19 have all created a 'perfect storm' just as there is a surge in demand, with price increases being imposed on the industry as a result.

"Construction professionals are increasingly being forced to shoulder these ongoing rises,

↑ Costs have been rising in all sectors over the past few months with no end in sight

UK  
CA

## TALKS OVER PAY ISSUES

SELECT Managing Director Alan Wilson joined fellow members of the CICV to discuss payment and cashflow problems with representatives from the Office of

the Small Business Commissioner. Small Business Commissioner Liz Barclay and Casework Manager Jacquie Moore were guests at the online meeting

## LET RUDI HELP YOU OUT

A reminder that SELECT TV offers advice on fluctuating costs and material price increases, courtesy of a video by SELECT consultant Professor Rudi Klein. Our in-house expert gives an overview of the risks associated with existing contracts, addressing potential issues in future contracts, fluctuations clauses, and identifying problem clauses in your SBCC and NEC contracts. Watch it now at [bit.ly/STV-matcon](https://bit.ly/STV-matcon)

particularly when it comes to materials, and are having no option but to pass these increases on to clients. But it is not profiteering – it is a necessity for these businesses to survive.”

The CICV’s Post-Brexit and Trade sub-group met in April to discuss the higher costs for raw materials, energy, labour and transport being faced by construction businesses of all sizes in Scotland, with particular focus on inflationary pressures for SMEs caused by external factors.

Mr McIlwee added: “This is a really challenging time for all in the construction supply chain with costs rising, often at short notice. The critical thing now is that we work together as a supply chain.”



↑ Iain McIlwee

**“THE WAR IN UKRAINE, ENERGY PRICE HIKES, IMPACT OF BREXIT AND FALLOUT FROM COVID-19 HAVE ALL CREATED A ‘PERFECT STORM’ JUST AS THERE IS A SURGE IN DEMAND, WITH PRICE INCREASES BEING IMPOSED ON THE INDUSTRY AS A RESULT”**

on Thursday 28 April, during which they debated a range of ongoing financial issues in the sector.

SELECT consultant Professor Rudi Klein also contributed to the debate.

Alan said: “Firms

recovering and taking back people made redundant are struggling to get materials for their products and funding to change course, so getting paid fast is key to survival.”

## Alarm Ambassadors keep stepping up for fire safety

Our campaign protects more vulnerable households thanks to generous Members and support from Aico

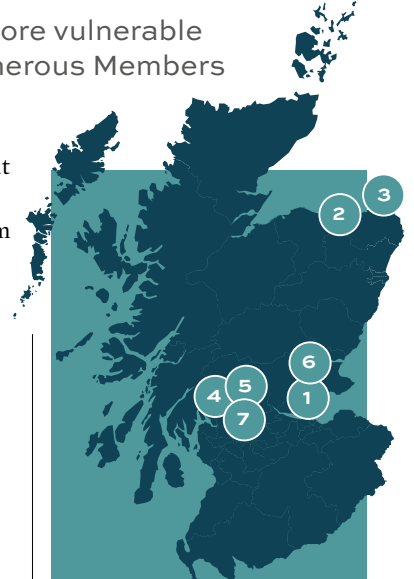
SELECT Members have carried out further installations for residents across Scotland as part of our Alarm Ambassadors campaign, sponsored by Aico.

Free heat, smoke and carbon monoxide alarms were fitted for a number of vulnerable householders who had been identified by the Care and Repair charity.

In Aberdeenshire, Ernie Shaw from Member firm Marnoch Electrical Ltd went above and beyond, carrying out two installations in Huntly and Longside.

Member Paul Rice from Paul Rice Electrical in Penicuik, Midlothian, carried out an installation in nearby Ratho, while Michael Devoy from Glasgow-based Alger Electrics & Alarms Ltd fitted a system for residents in Dumbarton.

Fellow Glasgow firm A&W Electrical Co also carried out an installation in the city on 9 May and ensured the householders understood how to operate their new system.



- 1. Paul Rice Electrical, Ratho, Midlothian, 1 March
- 2. Marnoch Electrical Ltd, Huntly, 11 March
- 3. Marnoch Electrical Ltd, Longside, 18 March
- 4. Alger Electrics & Alarms Ltd, Glasgow, 8 April
- 5. A&W Electrical Co (Glasgow) Ltd, Glasgow, 9 May
- 6. ETO Electrical, Glenrothes, installation pending
- 7. Marluk Electrical Ltd, Hamilton, installation pending

As *cabletalk* went to press, the final Alarm Ambassador installations were due to take place in Fife and Lanarkshire.

Iain Mason, Director of Membership & Communications, said: “The Alarm Ambassadors campaign has helped raise the profile of SELECT and its Members across Scotland thanks to extensive coverage in the national, local and trade press.

“This coverage has also reinforced the message that householders should only use a qualified electrician and compliant products to protect their homes.”



↑ Michael Devoy of Alger Electrics during install

# A welcome return to normality



This year’s Annual General Meeting was the first in person since 2019, with Members gathering beside the Firth of Forth to receive business and technical updates and see confirmation of the new Presidential Team

**A** **MENDMENT 2** and the impact it is having on Members was the main topic of conversation at this year’s SELECT Annual General Meeting, which returned in person after a break of three years.

Members, staff and office bearers gathered at the Doubletree Edinburgh North Queensferry on 1 June for the 110th AGM, which saw Alistair Grant from Elgin elected as SELECT President and Edinburgh’s Mike Stark confirmed as Vice-President.

**WORDS**  
**AIN MASON**  
Director of  
Membership &  
Communications



The event also featured a technical update by Bob Cairney, Director of Technical Services, who provided an overview of some of the main changes to Amendment 2 of the Wiring Regulations, before answering questions from delegates.

After handing over to Alistair, new Immediate Past President Donald W Orr told the delegates: “I have been honoured to have played my part in helping SELECT’s work during this time.

“It’s been a very unusual term of office, as most events have been online, but I have enjoyed it thoroughly. I also appreciate the work which has been conducted by my fellow office-bearers, Branch Members and

↑ Bob Cairney gave an update on the changes to Amendment 2

**“AFTER TWO YEARS OF ONLINE MEETINGS AND VIRTUAL EVENTS, IT WAS GREAT TO FINALLY MEET UP FACE-TO-FACE AGAIN”**



↑ Members listened to a technical update during the meeting

**"WE HAVE RISEN TO ALL THE CHALLENGES AND CAN LOOK BACK – AND FORWARD – WITH MUCH SATISFACTION AND CONFIDENCE"**

staff to keep our association progressing in such a positive way?"

The event also featured tributes to former association President Richard 'Dick' Allan and SELECT Technical Adviser Malcolm Duncan, who passed away in August 2021 and January 2022 respectively.

Association Secretary John McGhee said: "After two years of online meetings and virtual events, it was great to finally meet up face-to-face again and discuss the association's many achievements and our plans for the future.

"The pandemic and Brexit have brought many challenges to SELECT and its Members. But, as the AGM demonstrates, we have risen to them all and can look back – and forward – with much satisfaction and confidence." ■

- ➔ Up close with new SELECT President Alistair: **Pages 16-17**
- ➔ Donald looks back at his two eventful years: **Pages 18-19**



↑ Members David Smith (left) and John Chambers catch up at the get-together



↑ New Immediate Past President Donald W Orr addresses Members



↑ The AGM was a chance to catch up in person again following the virtual meetings



New SELECT President Alistair Grant reveals his priorities for helping Members over the next two years and looks back on more than four decades in the industry – including some surprising stints as a football coach and a local rock star

**TELL US A BIT ABOUT YOUR BUSINESS**

Alistair Grant Electrical is a small family-run business based in Lhanbryde, Moray, that prides itself on its great reputation for quality work. We take on a wide range of domestic work for new builds, renovations and extensions as well as electrical contracting for light industrial and agricultural projects.

My son Stephen works with me as an electrician and my wife Pauline looks after our books. We've also got Kieran, a young journeyman who has just passed his FICA qualification, and Greg, an apprentice who is well into his first year of work.

**WHAT INTERESTED YOU ORIGINALLY IN A CAREER AS AN ELECTRICIAN?**

I was always interested in doing something practical and my older brother had done an apprenticeship in joinery and told me that an electrical contractor he was working with on a project was looking to take on an apprentice. I had turned 15 in February 1972, and when I finished my O Levels at school in May I immediately signed up for the apprenticeship. I was the last of the 15-year-old apprentices, as the next year they changed the age to 16 before you could join a scheme. However, this

WORDS  
TIM POWER

# This time I'll take stage for SELECT





worked against me as when I turned 16 the boss said that was when my apprenticeship started and not when I joined! I got my grade card in 1976 and then my approved card in 1979.

### **WHEN DID YOU DECIDE TO GO IT ALONE WITH YOUR OWN COMPANY?**

My brother's joinery business often used the company I worked for on the electrical side of his projects. As I was getting a good reputation, his clients often asked specifically for me on their projects so my brother suggested I could go it alone and he would work for me while I got established. It was 1982 when I started my company and the economy seemed to be at rock bottom. I remember going to my accountant and

**"I REMEMBER GOING TO MY ACCOUNTANT AND HE SAID: 'DON'T WORRY IT CAN'T GET ANY WORSE, THE ONLY WAY IS UP!' I TOOK THE PLUNGE AND MORE THAN 40 YEARS LATER I'M STILL GOING"**

↑ Alistair has a clear vision of what he wants to achieve during his two years as President

he said: "Don't worry it can't get any worse, the only way is up!" I took the plunge and more than 40 years later I'm still going.

### **WHAT HAVE YOU ENJOYED ABOUT YOUR CAREER?**

I would say that I'm motivated more by doing a great job for my customers rather than the money; of course, the money helps, but I'm very proud of the good reputation we have built that brings customers back and new customers in. We also won the SELECT Best Delivery of Customer Service Award in 2016 – quite a coup for a wee business in the North East.

### **HOW DID YOU GET INVOLVED WITH SELECT?**

When I started my company, I joined one organisation and they used to send a real old-school stickler-for-the-rules engineer who used to scare me every time he came to check my work. But when he retired, the new engineer wasn't really able to answer my technical questions with any degree of confidence. When a representative from SELECT called me to explain what they did, and about their technical helpline in particular, then I was really interested. I joined in 1999 and it was honestly the best move I ever made.

I went to the local SELECT meetings in Inverness regularly as it was a great way of networking with other electricians and discussing issues about work – it was terrific. After a few years they suggested I run for Chairman of the Inverness and North of Scotland Branch, which I was initially not keen on just because I was running my own business, but after a while I became Vice Chair and then eventually became Chair for three years.

Then one day Managing Director Alan Wilson phoned me to say they were looking for new people to come through the ranks, particularly for the Depute Vice President roles.

I spoke to my wife and son about this and they said go for it. I took up the role as one of the two Depute Vice Presidents and moved up to Vice President in 2020 and now take on the Presidency for two years.

### **WHAT ARE YOU HOPING TO DO AS PRESIDENT?**

One of my main ambitions is to push

forward the campaign for protection of title for electricians. We've got lots of politicians signed up, agreeing with us that it's not safe to undertake electrical work if you are not a qualified electrician, but there seems to be some foot dragging on the Scottish Government's side of things, so we need to keep pushing.

I'm also interested in working with the colleges to promote apprenticeships as I've had 15 apprentices through my company in my time and it is so important to nurture new talent for our industry. I would also like to get more involved with the various SELECT committees that look at changes in regulations. I don't like to sit still so I'm happy to do whatever's needed.

### **HOW DO YOU UNWIND FROM THE PRESSURES OF RUNNING A BUSINESS?**

I used to play guitar and sing in a four-piece band called Tequila Sunrise for 15 years. We were pretty popular in the local area playing all kinds of gigs from weddings and parties to social events of local clubs

I stopped it about 25 years ago as I was getting more involved in football training. It started with my son at school when he was playing in the youth team in the North of Scotland league and they wanted a hand with coaching. We were pretty successful, winning three cups in four years, and then Elgin City FC asked if I could help them with their youth team. I worked with them for three years and when we got into the Scottish League I stayed for another three years.

I was going to retire from coaching but Buckie Thistle FC approached me and I worked with their youth team for six years. Just when I was about to stop, Elgin City persuaded me to help them again. In the end, I was a youth team coach for 18 years.

I still love my football and I recently joined the over-50s walking football. As a lifelong Chelsea fan, I've also brainwashed my wee five-year-old granddaughter into following the Blues! As I said before, I don't like to be sitting still too long! ■

🕒 Donald W Orr reflects on his time as SELECT President and the COVID-19 challenges  
**Pages 18&19**

# Progress amid the turmoil

Outgoing President Donald W Orr looks back on his time in office, during which the industry responded with creativity and resilience to the many unprecedented challenges created by COVID-19

**IN** APRIL 6, 2022 something unusual happened: I travelled to Paris to attend, in person, a meeting of EuropeOn, the European association of the electrical contracting industry.

It was the first time since taking over as SELECT President in September 2020 that I was able to meet people outside SELECT face-to-face and it demonstrated how my time in office has been dominated by both COVID-19 and our response to the pandemic.

Although I have been a member of SELECT for 33 years, I must admit that being President has given me a new perspective on the fantastic work carried out by our staff and the readiness of Members to respond to challenges and opportunities. That has been particularly apparent during COVID-19.

Throughout the pandemic, SELECT has been at the forefront of the construction sector response. Our Managing Director, Alan Wilson, is chairman of the Construction Industry Collective Voice (CICV), which began life as the Construction Industry Coronavirus (CICV) Forum in March 2020. In its new form, the CICV will continue the cross-industry collaboration that has been established and tackle areas of mutual interest as we adapt to a world that is now learning to live with COVID-19.

Part of this collaboration is the wealth of useful material that has been made available online, not just for our Members and electrical contractors but for other associations and trades.

The successful delivery of this essential material showed how our website and social media presence have become even more important over the past two years and were a vital lifeline for people working from home at the height of lockdown.

These developments have allowed us to better engage with Members and provide a more effective

service, and the pandemic has only increased our appetite for new campaigns and new ways to help people.

In early 2022, we launched our Alarm Ambassadors initiative, set up in response to the Scottish Government's ruling that every home must have interlinked smoke and heat alarms, and, if appropriate, a carbon monoxide (CO) detector.

After the legislation took effect on 1 February, the Alarm Ambassadors campaign saw SELECT Members give up their time to install smoke and heat alarms and CO detectors for vulnerable people, in collaboration with Aico and the charity Care and Repair Scotland.

This is a campaign that's close to my heart since my background is in fire protection, and I'm pleased that we've helped keep people and their homes safe, as well as raising the profile of the association and the legislation.

Equally important is our training programme, which has increased in scope over the past 12 months, including the addition of a course in fire emergency security systems for experienced workers. I can vouch for its validity and quality since several board members and officials, past and present, were involved in its development.

During the pandemic we quickly made many of our training courses available online and I believe a blend of online and in-person courses will continue in the future. While there will always be practical courses that have to be done in person, we know e-learning is more convenient for Members in places such as Shetland, Aberdeen and Inverness, who no longer have to travel all day or book an overnight stay to take part in a two-hour course.

Looking ahead, it's clear that rising costs will cause anxiety for our Members in the immediate future. Although the media often highlights areas such as domestic utility costs, the industry also faces spiralling increases for essential materials. At the moment, there

WORDS  
DONALD W ORR

**"BEING PRESIDENT HAS GIVEN ME A NEW PERSPECTIVE ON THE FANTASTIC WORK CARRIED OUT BY OUR STAFF"**

## **"ALISTAIR GRANT HAS SHOWN THAT HE HAS ALL THE QUALITIES NEEDED TO TAKE THE ASSOCIATION FORWARD"**

seems no end to price volatility and the only certainty is that margins will continue to be eroded, which is not sustainable in the long run. SELECT will maintain its close conversation with government and work hard behind the scenes on behalf of Members to help guide them through these pressures.

On a positive note, I am more than certain that the SELECT presidency is being taken up by a very safe pair of hands. Alistair Grant, who will succeed me, has shown during his time as Vice President that he has all the qualities needed to take the association forward. As Immediate Past President, I will continue to support him and Central Board in any way I can and as they see fit.

I am truly privileged to have served as President over the past two years. Although it has been an extraordinary – and on occasion frustrating – period, it also has been extremely rewarding. I've had the chance to meet some amazing people virtually, if not face-to-face, and been at the helm of the association during one of the most difficult periods the world has faced for many years.

Each one of our Members has had to cope with this turbulent time, but we've helped them as best we can while developing new ideas and initiatives and providing the regular services that they rely on.

Finally, I would like to thank all the Members, staff, Central Board and branches and committees at SELECT for the invaluable help they have provided during my time as President and would also like to take this chance to wish all our Members a safe and prosperous future.

Stay safe and well. ■



# The power of giving

Member firm DTGen has teamed up with a Scottish voluntary organisation to donate a generator and essential supplies to the front line in war-torn Ukraine

**WORDS**  
**IAIN MASON**  
Director of  
Membership &  
Communications

**T**HE generous team at DTGen have mobilised their own army of kind-hearted volunteers to bring much-needed heat, light and power to Ukraine in its darkest hour.

The Glasgow-based specialist has been working with the team at Opir to send a 250kVA generator to Eastern Europe as part of the worldwide humanitarian appeal.

The vital unit – which has been donated by DTGen along with more than 30

boxes of other essential items – is currently being transported to Ukraine by Finnie Heavy Haulage.

It was due to arrive in the country as *cabletalk* went to press and will be taken straight to the war zone to provide essential power to a medical facility in Lviv.

Before its departure, the generator was given a thorough overhaul and extensive testing by the DTGen technical team, with the firm’s apprentices lending a hand to help get it ready in time.

As well as electrical hardware, the humanitarian aid from the company includes toothbrushes and toothpaste, sanitary products, nappies, formula milk, children’s underwear,

dummies and medicine.

David Oates, Managing Director at DTGen, said: “Like the rest of the country, we’ve watched in horror as the situation in Ukraine has unfolded and have been eager to show support for the people affected by the war.

“As always, our team has really pulled together, and we’re thankful to everyone involved that we can make this happen.”

DTGen has been a SELECT Member firm since April 2013 and its Head of Technical, Kenny Berrie, is Vice-Chair of the Glasgow and West of Scotland Branch.

The firm has carried out its humanitarian mission in partnership with Opir, a Dumfries-based volunteer group which has already distributed 10.5 tonnes of aid to Ukraine, and is now making its second trip to the country with DTGen’s generator and supplies.

Julie Joseph OBE, a volunteer with Opir, said: “We’ve been

## QUICK FACTS

**DTGen**  
**BRANCH:**  
Glasgow  
and West of  
Scotland

**BASED:**  
Milngavie,  
Glasgow

**PHONE:**  
0141 956 7764

**WEBSITE:**  
[www.dtgen.co.uk](http://www.dtgen.co.uk)



↑ Proud DTGen staff (left to right) Kevin Hill (Application Sales), Shauneen Curran (Sales Co-ordinator), Reuben Elliott (Solutions & Product Manager), Brian Muirie (Sales Director) and Donna Blackhall (Head of Admin/HR)

Milngavie,  
SCOTLAND

1,612  
mile journey

27  
hours  
driven

Lviv,  
UKRAINE

overwhelmed by the generosity of everyone involved, with a special mention for DTGen for gifting the generator and Finnie for providing the transportation to get the equipment to where it is needed.

“Working with iCare Ukraine to support with local intelligence and delivery is proving very efficient and by working together we are ensuring aid is reaching those most in need. It’s just extraordinary what can be achieved when we all pull together.”

DTGen supplies, installs and maintains diesel and gas generators, providing customers with products, support and advice throughout the life cycle



of their generator set. The company’s 6.3-acre HQ in the north of Glasgow accommodates workshops, a parts distribution depot, the UK’s largest stock of generators and the biggest load test cell in the country.

An 80,000 sq ft warehouse also holds

↑ DTGen apprentice Daniel Coll was among the technical team who helped prepare the generator for its journey

more than £1million worth of generators, from six to 3,000kVA, providing customers with the right solution for all their power needs.

DTGen also operates from premises in Bristol and Rugby, with its team of experts providing comprehensive support across a range of sectors including commercial, construction, retail, data centres, education, health and government.

Since 2010, it has been supported by equity partner, Nevis Capital LLP, which continues to support the company growth. ■

**“IT’S JUST EXTRAORDINARY WHAT CAN BE ACHIEVED WHEN WE ALL PULL TOGETHER”**

# Miles better to be on the road again

After a three-year hiatus, our Toolbox Talks made a welcome return in May and June, with Members flocking to the first event at The Walled Garden to mingle with staff and exhibitors and hear essential updates on Amendment 2

**WORDS**  
**LINDA ROLFE**  
Events, Marketing & Communications Coordinator



**T**HE past six weeks have been a whirlwind of activity as our Toolbox Talks finally hit the road again – but I've loved every minute!

After two years of lockdown it's been great to finally get out and about and meet so many Members, Associate Members and exhibitors face-to-face.

As it was my first Toolbox Talks, it was daunting to get behind the wheel and criss-cross the country in the van supplied by our fleet partners, Pike + Bambridge, so thank you to everyone who's said hello and helped settle the nerves at each of the eight sessions so far.

Our first event at The Walled Garden outside Edinburgh on 3 May was certainly a fantastic way get



↑ Members took the opportunity to discuss latest industry developments

the ball rolling, with plenty going on...

## UPDATING MEMBERS ON AMENDMENT 2

The main events of the day at Edinburgh saw Technical Advisers Keith Hagen and Stuart McKelvie deliver two presentations on the impact of Amendment 2 to BS 7671:2018.

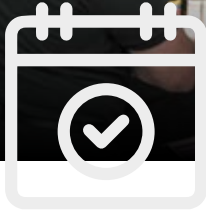
Keith talked Members

**917**  
miles travelled



↑ Members were able to engage with a wide and varied range of exhibitors and below right, Donald W Orr shares a laugh with TCW





# 8 events held

through an overview of the main changes, including arc fault detection devices, overvoltage protection and prosumer's low voltage electrical installation.

Stuart then took the floor and went through certification changes in Appendix 6 of Amendment 2, with both presenters answering Member questions afterwards. Fellow technical experts



↑ David Henderson of SECTT was among those who signed up to our Wall of Support



↑ Stuart McKelvie covered changes to certification and answered questions

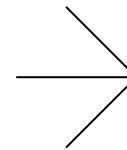
Bob Cairney, Neil Sim and Mark McLaughlin have delivered the presentations at subsequent events, and the feedback from audiences has been excellent so far.

### SPREADING THE REGULATION MESSAGE

Our roadshows have also given us the opportunity

to spread the word about our ongoing regulation campaign and ask more Members to sign up to the Wall of Support.

Edinburgh was the first event where delegates were urged by Managing Director Alan Wilson



**"DOZENS OF NAMES WERE ADDED TO THE WALL ON THE FIRST DAY AND HAVE SUBSEQUENTLY BEEN JOINED BY DOZENS MORE FROM THE OTHER TOOLBOX TALK EVENTS AROUND THE COUNTRY"**



↓ Alan Wilson spoke to delegates at our HQ

## Our 2022 exhibitors



↓ Paul Erasmuson was among those who tackled the buzzer game



## Beat the Buzzer leaderboard

- **29.68 seconds**  
John Ramsey, GSB Electrical Services (Dundee event)
- **33.20**  
Paul Cameron, G-Force Electrical Services (Inverness)
- **34.16**  
Kieron Craig, KC Electrical (Ayrshire)
- **35.00**  
Brodie Nisbet, Gauld Electrical Ltd (Aberdeen)
- **36.40**  
David Forster Jnr, David C Forster Ltd (Edinburgh)
- **43.28**  
Darren Paterson, Ryan Johnstone Electrical (Dumfries & Galloway)
- **45.87**  
Iain Revel, D Charters Electrical Services Ltd (Borders)
- **50.43** – Ryan McCulloch, JK Electrical (Glasgow)

↓ John Ramsey with Linda in Dundee



↑ Beat the Buzzer provided a fun challenge for Members

to add their voice to the growing push for protection of title – and they didn't disappoint.

Dozens of names were added to the wall on the first day, and have subsequently been joined by dozens more from the other Toolbox Talk events around the country.

See more pictures at [cabletalkmagazine.com](http://cabletalkmagazine.com)

### HANDING OUT PRIZES GALORE

As well as advice, we've also delivered great prizes at each event, including a draw

Images: © Mark Jackson



↑ Donald W Orr chats with AKD staff

with Luceco in which three Members each scooped a BG Fortress 12-way RCBO board with SPD, BG 30W Type C fast charge USB and six FType Compact LED downlights.

Another draw at each event saw one lucky Member take home two IET books – *Guidance Note 3: Inspection & Testing* and *On-Site Guide: BS7671-2018+A2:2022*.

And Members also battled

# 461

## Members and guests attended



↑ The talks attracted a large number of interested Members





↓ Members got their questions answered at the presentations

it out against the clock in our Beat the Buzzer game to win prizes donated by Megger. The fastest competitor at each event won a VF5 voltage pen, with the overall champion scooping a TPT420 two-pole voltage tester and MPU690 proving unit.

It was great to see so many Members taking part and being so competitive, while also helping to raise funds for the Electrical Industries Charity.

As *cabletalk* went to press, the SELECT team was packing its bags and preparing for

# 13 Associate Members exhibited



the final four events in Oban, Orkney, Shetland and Islay.

Once they're complete, we'll be compiling feedback, comparing notes and starting work to ensure next year's events are even bigger and better. Roll on 2023!

📄 Eight-page Amendment 2 special: Pages 42-49

**"IT WAS GREAT TO SEE SO MANY MEMBERS TAKING PART AND BEING SO COMPETITIVE, WHILE ALSO HELPING TO RAISE FUNDS FOR THE ELECTRICAL INDUSTRIES CHARITY"**

**1,347**  
cups of tea brewed

**903**  
bacon rolls served

**£340**  
raised on our Beat the Buzzer game

**77**  
new Members signed up to our Wall of Support



↑ The SELECT team was on hand to help out and meet our Members



↓ Keith Hagen gave the first presentation

# And they're off.. for a celebration!

The industrial solutions specialists at APD recently enjoyed a day at the races as they marked two significant landmarks – 35 years in business and 25 years as a Member of SELECT

**A**MBER Programmable Design (APD) has been saddling up for celebration recently as it marks becoming an industry thoroughbred with 35 years of success under its belt.

The firm, which is based near Annan in Dumfrireshire, has certainly come a long way from its humble beginnings in a garage in the small village of Eastriggs in 1987.

The past decades have seen an office relocation, expansion into Aberdeen, multiple re-brandings, a cabinet-full of awards and a host of successful partnerships – with SELECT by its side for quarter of a century.

Today, APD is responsible for the design, manufacture

**WORDS**  
**FIONA SMITH**  
Membership Representative



and installation of more than 8,000 complex control systems and turnkey packages across 22 countries worldwide. From water treatment plants and nuclear and hydro power sites to oil platforms, ships and submarines, APD's skills are also utilised in factories across a wide range of sectors including automotive, food, distilling, laundry and pharmaceuticals.

This expertise means it has worked on some fascinating and ground-breaking projects in conjunction with some of the world's best known brands, including Nestlé, Nissan, Pirelli, McVitie's, Aker, British Gypsum, William Grant & Sons, Helix, Magnox and Scottish Water.

Jim Main, Technical Director at APD, said: "When we first started out, the equipment used in control systems dated back to the industrial revolution and computerised systems were in their infancy.

"However, the developments over the last 35 years have provided a seismic shift in the options and capabilities available for us to design, build, programme and install systems.

"But of course, none of this would have been possible

without our talented and hard-working colleagues, some of whom have been with the company for more than 30 years."

To show their appreciation for this loyalty, Jim and fellow director Elliot Graham marked the firm's 35th birthday with a day out for staff at Carlisle Racecourse in May.

As well as laying on first-class spread of food and drinks, the company sponsored the most



↑ Elliot, far right, and John Strong (retired director) receiving Panel Builder of the Year award in 1995

**"WE'D JUST LIKE TO THANK EVERYONE FOR ALL THEIR HARD WORK AND DEDICATION OVER THE LAST 35 YEARS – HERE'S TO THE NEXT 35!"**



↓ Directors Jim, left, and Elliot at Carlisle races for APD's 35th celebrations

prestigious race of the day – the two-mile APD 35th Anniversary Handicap Chase.

Staff were among the cheering crowds as Miss Amelia, a nine-year old bay mare ridden by Tom Midgley and trained by Mark



Walford, crossed the line and was then presented with the winner's prize.

APD now has its eye on the prize too, and is looking forward to a future that will include this year's launch of APD Energy, a sub-division focused on providing cutting-edge solutions to commercial and industrial energy problems.

Using innovative technology for smart energy generation, storage and distribution, the company aims to provide businesses of all sizes with realistic future-

proof options for reducing energy costs and lowering their carbon footprint. This may be a relatively new chapter in APD's story but Jim says customers will still be able to rely on the core principles of innovation, quality and value on which the company has built its reputation.

He revealed: "One of the primary reasons APD has thrived is our approach to innovation – we've never shied away from pushing the boat out with new ideas, technologies and how we approach a project.

"There's no sense of this approach slowing.

"In fact, the technology performance is accelerating so quickly it's difficult to predict what will be possible in the decades to come.

"Whatever the future brings, we'd just like to thank everyone for all their hard work and dedication over the last 35 years – here's to the next 35!" ■

### QUICK FACTS

APD

BRANCH:  
Dumfries & Galloway

PHONE:  
01461 206000

WEBSITE:  
www.controlwithpower.com



**"THE PAST DECADES HAVE SEEN EXPANSION, A CABINET FULL OF AWARDS AND A HOST OF SUCCESSFUL PARTNERSHIPS"**

### A VITAL SOURCE OF SUPPORT

APD Director Elliot Graham knows first-hand what it means to be a Member of SELECT and play a key role in the association.

He said: "I was Chair of the Dumfries & Galloway Branch for a number of years and it was an absolute privilege and pleasure to represent the fellow electrical contractors in my area.

"Being a Member of SELECT brings many benefits, not least enabling firms like us to be recognised as a well-run and organised business, providing a quality service to a very high standard, which in turn improves the reputation of the industry as a whole across Scotland.

"Other benefits that we've enjoyed over the years include technical help of the highest level, employment and health and

safety advice, guidance on insurance, training and apprenticeships, and being kept up to date with things like wage agreements.

"As well as providing an invaluable source of support for companies, SELECT also helps reassure their clients, who benefit from a quality contractor, backed by a contract completion guarantee which ensures all work is completed in the event of any issues."

With renewables advancing at a rapid rate, the experts at Nesta have identified what electricians should know about the future of green tech – and where the sweet spots lie when it comes to home heating

# Getting fit for the green revolution



WORDS  
**KARLIS KANDERS**  
Senior Data Foresight  
Lead, Nesta



**nesta**

**C**LIMATE change is the biggest challenge

of our era. To stop our buildings contributing, we need to stop burning gas and oil to heat them.

New 'green' technology is coming to the fore. Research projects on low-carbon heating, batteries, energy efficiency and other innovations are booming, and the sector attracted US\$220 billion in investment from 2013-2021.

The most promising alternatives are highly efficient electric heating devices such as heat pumps. Household heating is likely to

be electrified in future, which will have a profound impact on the way electricians work.

Below, we've picked out four green tech trends from our research that we think could shape electricians' work around household heating for the rest of the decade.

## NEW WAYS TO PAY FOR HOME HEATING

The Heat in Buildings Strategy for Scotland proposes a timeline in which all new buildings will

**"BRITISH GAS IS OFFERING 0% INTEREST ON HEAT PUMP INSTALLATIONS AND OTHERS ARE LIKELY TO FOLLOW"**

be required to install low-carbon heating systems from 2024, followed by the phase-out of fossil-fuelled boilers in off-gas areas from 2025 and all properties by 2030.

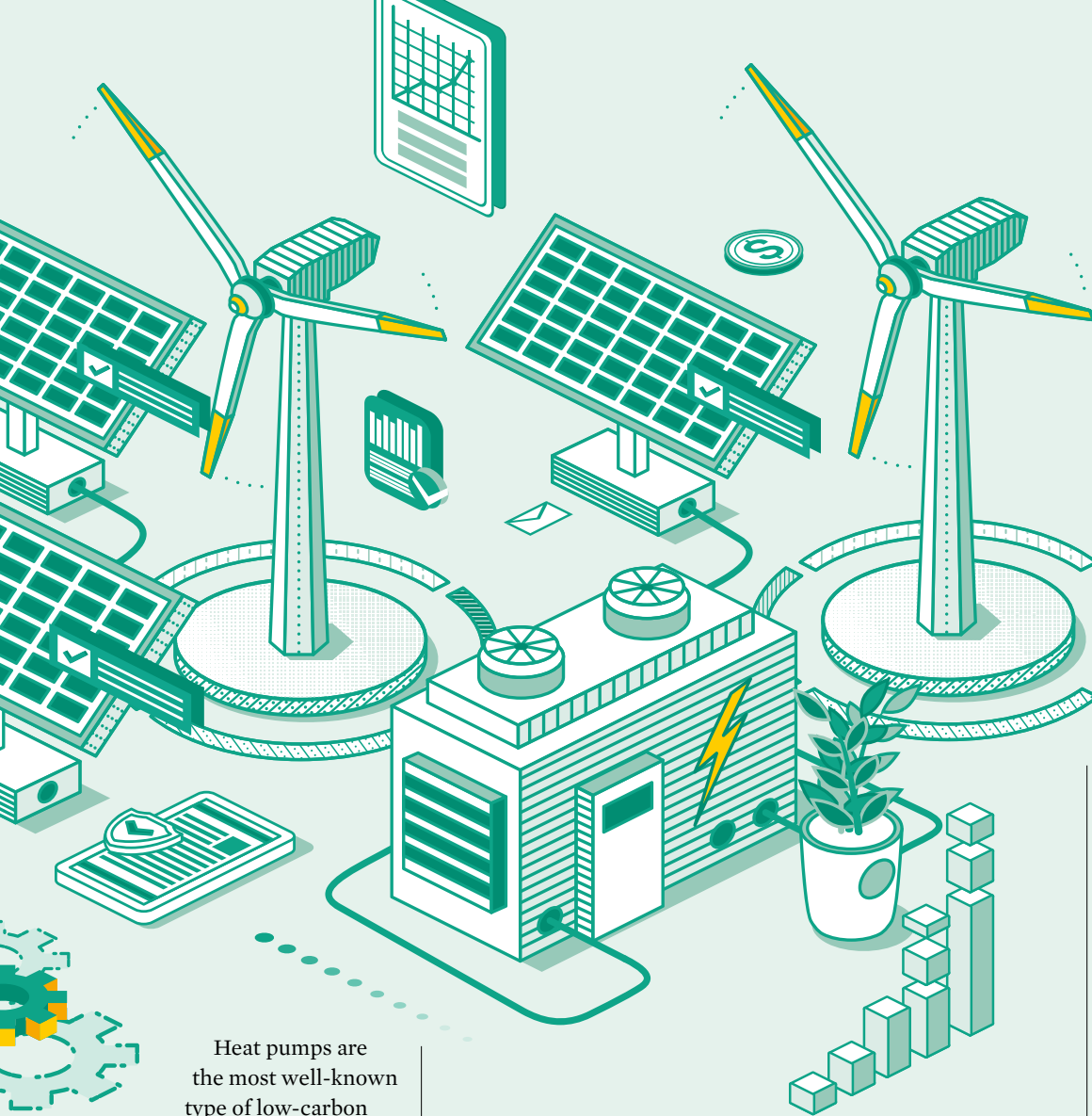
Sector attracted

**US\$220 billion**

in investment from 2013-2021



↑ Gas boilers will be less common



£12 million

We estimate research projects involving heat pumps are receiving more than £12 million in new funding each year from UK Research and Innovation

Heat pumps are the most well-known type of low-carbon heating, so it follows that we'll see installations soar over the next decade.

Our research shows that heat pumps are being discussed more in the public; we've seen mentions on the rise in UK parliament and in newspapers such as the *Guardian*.

But they are expensive, setting consumers back by £10,500 on average. Even with the Home Energy Scotland loan and cashback offer, this is

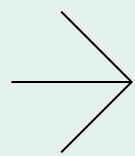
still more expensive than a boiler in most homes.

We may see new business models emerge in future that allow homeowners to install heat pumps without the high upfront cost. Energy Systems Catapult, a technology and innovation centre, has trialled the idea of 'heat as a service', where people paid a fixed amount to keep their homes warm for a certain number of hours each day.

This could affect electricians' relationships with clients. These models will likely be organised via a third party, so you may not deal with customers directly, and jobs could be scheduled by large companies that bring together electricians, plumbers and other skilled trades.

New financing options may

also come into play, changing the way customers pay for your work. British Gas is offering 0% interest on heat pump installations and others are likely to follow. This could boost demand for heat pumps and we may see new tools that improve productivity, for example by making time-consuming tasks like



**"ENERGY SYSTEMS CATAPULT, A TECHNOLOGY AND INNOVATION CENTRE, HAS TRIALLED THE IDEA OF 'HEAT AS A SERVICE', WHERE PEOPLE PAID A FIXED AMOUNT TO KEEP THEIR HOMES WARM FOR A CERTAIN NUMBER OF HOURS EACH DAY"**

## FINDING THE GREEN TECH 'SWEET SPOTS'

Nesta identified these four trends by using data science to track the growth of climate innovations, looking at research funding, investment and mentions in the news and in the UK parliament. This approach let them cut through the hype and develop a clearer picture of which innovations can make the leap to large-scale impact.

filling forms, doing heat loss surveys and buying equipment quicker and less painful.

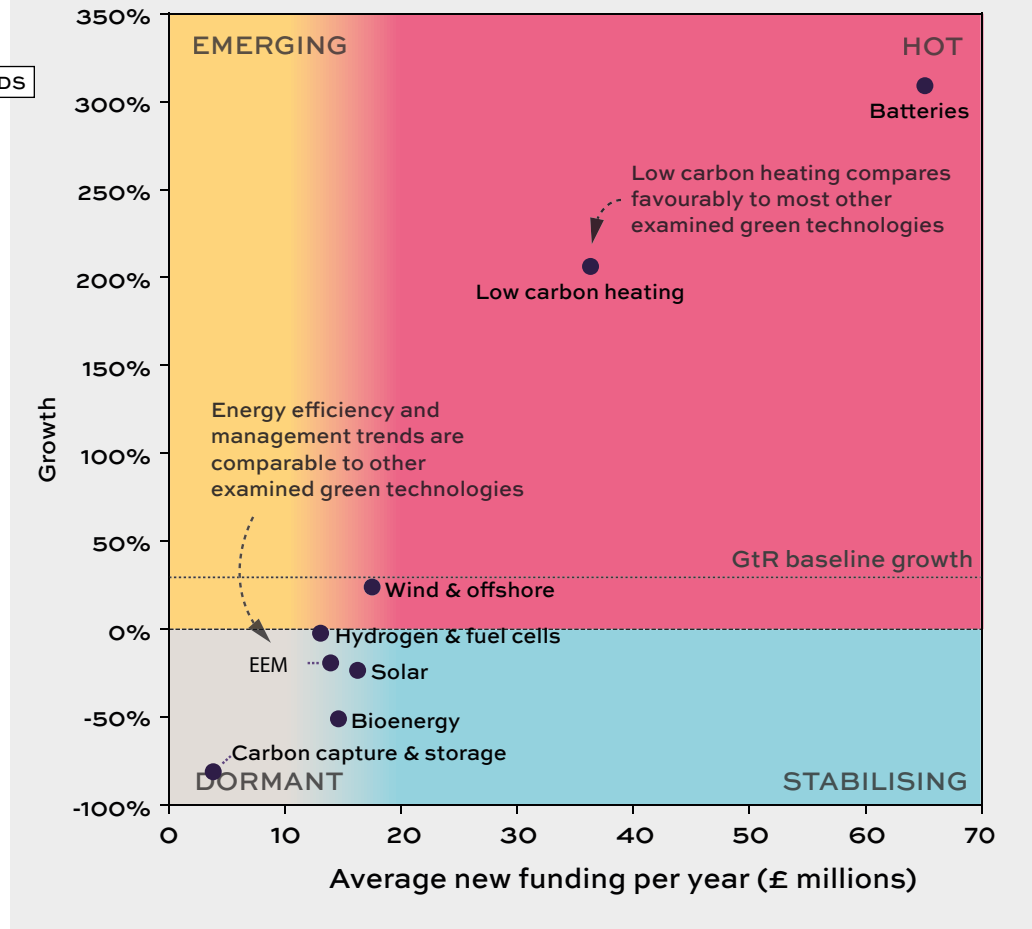
**LOW-CARBON HEATING SKILLS NEEDED**

There is plenty of research under way on heat pumps and heat storage – we estimate that research projects involving heat pumps are receiving over £12 million in new research funding each year from UK Research and Innovation.

We compared research trends for different types of low-carbon heating technologies, and found that research into heat pumps and heat storage is currently ‘hot’, meaning there is a large amount of new funding and that growth in this area is high.

One example is the ReFlex Orkney project which secured £15 million in funding to install and operate heat pumps, hydrogen fuel cells for heating and heat storage systems in Orkney. Scottish heat battery company Sunamp also raised £4.5 million venture capital funding in 2020 to support its international expansion.

So what does this mean for electricians and other trades? Many will need to train up to install heat pumps and energy storage devices. At Nesta, we have called on the UK Government to develop a skills plan that will allow large numbers of tradespeople to

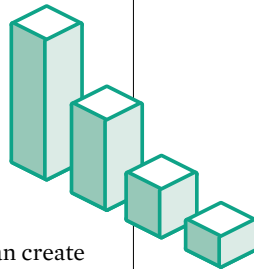


upskill quickly to keep up with demand.

“Developing a highly trained and competent workforce is critical to our net zero ambitions,” Douglas Morrison, Impact Director for the Construction Scotland Innovation Centre has said in response to our research.

“Supported by a national framework for competency development, we can create a workforce that can specify, design, install and maintain low-carbon heating and energy efficiency technologies to the highest standards.”

Heat pump installation will



↑ Research funding trends for decarbonising heating. Average magnitude and growth between 2016 and 2020, based on analysis of the UKRI’s Gateway to Research (GtR) portal data.

also require closer working with other professionals: each job will require heating engineers, plumbers and electricians. Our research has also shown large research funding support and growing venture capital investment for technologies to retrofit buildings to maximise energy

**WHO IS NESTA?**

As the UK’s innovation agency for social good, Nesta designs, scales and tests new solutions to society’s biggest problems, changing millions of lives for the better. It is committed to creating a sustainable future by accelerating the decarbonisation of household activities in the UK. Find out more at [www.nesta.org.uk](http://www.nesta.org.uk)

**“REALISTICALLY, HYDROGEN WON’T BE HEATING OUR HOMES WITHIN THE NEXT NINE YEARS, DURING WHICH TIME WE NEED TO REDUCE EMISSIONS BY 70% TO MEET OUR TARGETS”**



efficiency, as well as for energy management measures like smart home tech, so it is likely that skills will be needed in these areas too.

### THE FUTURE OF HEATING IS ELECTRIC, NOT HYDROGEN

The use of hydrogen as a form of energy is expected to grow. The Scottish Government's Hydrogen Action Plan has set an ambition of five gigawatts installed hydrogen production capacity by 2030 and 25 gigawatts by 2045.

It has also provided £6.9 million support towards the cost of the H100 project in Fife, a world-first demonstration of a 100% hydrogen energy system.

But our analysis finds that this could be early-stage hype, and hydrogen may not become adopted as a heating method. In fact, the Oxford Institute for Energy Studies has said that it will be "particularly challenging to convert a large number of small domestic consumers to hydrogen", and that it is more likely to be used for industrial applications such

as iron and steel production, as well as transport.

Kyle Usher, Nesta's Mission Manager in Scotland, says: "Even if hydrogen could become a realistic and scalable solution for the majority of the population at some time in the future, that is not the case now. Realistically, hydrogen won't be heating our homes within the next nine years, during which time we need to reduce emissions by 70% to meet our targets."

### A FAIR HEATING REVOLUTION

Fuel poverty costs lives – cold homes cause as many deaths as breast or prostate cancer. In 2019, an estimated one in four households in Scotland was in fuel poverty. With the cost of living crisis dominating headlines in 2022, we are likely to see these figures rise.

Scotland's Fuel Poverty Strategy aims to decarbonise the heating in one million homes by 2030 and remove poor energy



↓ Rising energy bills are likely to see the already high figures for those living in fuel poverty soar

efficiency as a driver of fuel poverty. Schemes such as Warmer Homes Scotland and the Home Energy Scotland service provide support to households on how they can improve the energy efficiency of their home, as well as financial support to install insulation and improve central heating systems.

It is likely we'll see even more innovative approaches over the next decade. Our analysis identified some research projects into low-carbon heating and energy efficiency and management that specifically mention fuel poverty. One example is the development of an energy efficiency investment optimisation system by CoControl for social landlords, or a new business model for community energy generation developed by Energy Local.

### CONCLUSION

In summary, these four trends highlight an appetite for low-carbon heating. We've seen that research and development into low-carbon heating and energy efficiency is growing and we'll see the heat pump industry flourish over the next few years. Our research has shown that the direction of travel in green tech is clear – the future will be electrified. Electricians and the wider construction sector will be vital in the effort to deploy green tech across the nation. ■

➔ To find out more about the research that informed these trends, you can access our full green tech report at [nesta.org.uk/green-tech-sweet-spots](https://www.nesta.org.uk/green-tech-sweet-spots)

Additional content: Laurie Smith, Head Of Foresight Research, Nesta and Siobhan Chan, Content Editor, Nesta.



# Home safety for tomorrow

Scotland's path to net zero requires fundamental changes to our homes and how we use energy, but it mustn't come at the cost of consumer safety. Here, our guest columnist explains how an upcoming report by the Electrical Safety First charity will consider the many issues surrounding Scotland's homes of the future, including the opportunities for installers and the policy gap around electrical safety

**S** **COTLAND** has been taking the lead in its commitment to addressing climate change, with a legally required objective of net zero gas emissions by 2045 – five years before the rest of the UK.

This major transition will transform the homes we live in, with modern technologies creating a complex web of interconnected challenges and risks, made more problematic by Scotland's ageing housing stock.

Yet in our increasingly electric world, the critical importance of electrical safety is rarely fully acknowledged in strategies for our low carbon future.

Our upcoming report, *Future Homes Scotland – Electrical Safety in the Net Zero Home*, addresses this deficit. Due to be launched this summer, it reviews some of the key technologies and themes of the home of the future and offers a range of recommendations to enhance electrical safety.

The route to net zero is complex, so the report takes an integrated approach, reviewing key areas incorporating housing infrastructure, the electrification of heat, electric vehicles (EVs), product safety, growing the installer base,



**40%**

of homes in Scotland, were built before 1944

and consumer education. Addressing these interrelated elements now will help ensure the future home is not only low carbon and smart but also safer.

**HOUSING CHALLENGE**

As our homes and vehicles

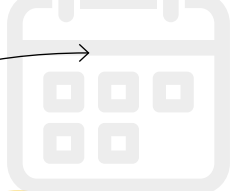
are responsible for a sizeable proportion of Scotland's emissions, it's not surprising that both are at the forefront of our energy transition – and also open up an array of opportunities for the 21st century electrician.

From 2024, all new homes in Scotland must be future-proofed with low-carbon heating. A net zero home is also likely to be highly insulated and incorporate a range of technologies, such

**WORDS**  
**LESLEY RUDD**  
Chief Executive,  
Electrical  
Safety First







# 19%

## of Scottish flats and terraces built pre-1919



↑ Environmental friendly measures such as electric panels and heat pumps (right) will be more and more prevalent in the homes of the future



19% established pre-1919. The situation is also made more complex due to 40% of Scotland's housing stock being flats. The mix of owner occupancy, privately rented and social housing, within the same apartment block, adds to the difficulty of retrofitting.

### INVESTMENT SURGE

The huge increase in electrical appliances such as heat pumps, electric boilers and heaters, together with a shortage of trained installers and a lack of familiarity with electrical heating will all (inevitably) impact on electrical safety and highlight the need for properly trained, competent professionals.

The Scottish Government estimates an additional 16,400 jobs will be supported across the economy in 2030 from investment in the deployment of zero emissions heat. So our report also recommends the Scottish Government introduce a clear and consistent policy framework, to provide industry with long-term certainty of demand and encourage investment in upskilling.

as on-site renewable electricity generation, EV home charging points and various smart products and services. So electricity, now increasingly produced from renewable sources, is set to play a key role in new builds.

Existing housing stock however, will prove more problematic, particularly older housing with outdated electrical installations.

In Scotland, 40% of homes were built before 1944, with

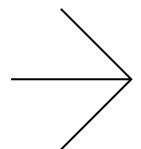
# 60%

of Scottish homes are flats, tenements and terraced housing



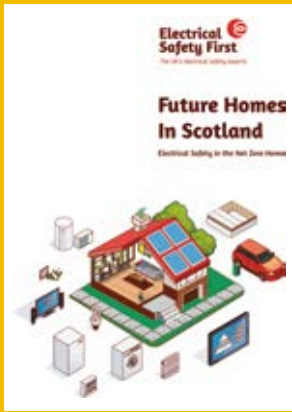
However, while Scotland's Heat in Buildings Strategy recognises how the move to net zero will dramatically expand the role of electricity in heating our homes, regulatory proposals have not explained how prepared current domestic electrical installations are for this transition.

To ensure effective policies we need the right information. So among our report's recommendations is a call for the national Scottish House Condition Survey to be updated, to better assess the preparedness of domestic electrical installations and potential capacity constraints. This will provide essential data on how Scotland's current housing stock can be made ready for a low-



## "ADDRESSING THESE INTERRELATED ELEMENTS NOW WILL HELP ENSURE THE FUTURE HOME IS NOT ONLY LOW CARBON AND SMART BUT ALSO SAFER"

↓ The need for electric car charging points is rising



## HOW TO FIND OUT MORE ABOUT THE HOMES OF TOMORROW

Electrical Safety First's report, *Future Homes Scotland – Electrical Safety in the Net Zero Home*, will be launched this summer. For more information, please email Karter Kane on [karter.kane@electricalsafetyfirst.org.uk](mailto:karter.kane@electricalsafetyfirst.org.uk) or you can call her on **07812 059 889**

→ carbon future – and where electrical risk may arise. We are also campaigning for the Scottish Government to introduce a common, cross-tenure standard for electrical safety, which includes mandatory five-yearly electrical safety checks. As with Energy Performance Certificates, such checks could be required on the sale of a property.

**TRANSPORT NEEDS**  
EVs are another fundamental



# 25,000

## licensed EVs in Scotland

in Scotland's move to net zero which offers further opportunities for forward-thinking installers.

While public charging points are being established across the country, research indicates that charging an EV at home is much preferred. As well as being convenient, using a dedicated home-based EV charging point is usually cheaper than a public one – and safer and quicker than using a domestic plug socket.

Our research shows that, without convenient access, drivers often charge EVs in a risky fashion. We found 74% of those charging EVs via a household domestic socket

blamed a lack of easy access to public charging points.

In 2020, there were approximately 25,000 licensed EVs in Scotland, with just over 2,000 publicly available charging points and in 2021 it was estimated that home EV chargers numbered just 11,500.

This significant 'gap' in accessible charging point provision will be a pressing problem – particularly with around 60% of Scottish homes being comprised of flats, tenements and terraced housing, with limited parking options.

So we are also calling for a charging point mapping exercise, to help focus

support and collaboration and provide a clear route for private renters to install an EV home charging point, as they currently need landlord permission before installing.

Other key recommendations in our report emphasise the need for consumer education and a requirement for the Scottish Government to promote the use of authorised installer registration platforms.

Difficulty in finding suitably qualified, competent contractors could lead to households using rogue or unqualified installers to undertake work – or, worse still, do it themselves. This could not only breach regulatory guidelines but also be potentially dangerous.

To make the changes needed to achieve net zero objectives, first and foremost we need the professionals who can do the job. Because the future is definitely electric. ■

# 2,000+

## publicly available charging points

➔ To find out more about Electrical Safety First's policies in Scotland, please visit [www.electricalsafetyfirst.org.uk/what-we-do/our-policies/scotland](http://www.electricalsafetyfirst.org.uk/what-we-do/our-policies/scotland)

# WHO'S the caddie!

This year's President's Cup was a family affair, with the winning captain being presented with the famous trophy by the SELECT Vice-President – who also happened to be his dad and bagman for the day!

WORDS  
**IAIN MASON**  
Director of  
Membership &  
Communications

**S**TEPHEN Grant proved he was a chip off the old block when he lifted the President's Cup at SELECT's annual golf competition.

The East team captain was handed the silver trophy by dad Alistair, who had spent the previous few hours carrying his bag round the rain-soaked fairways. As well as acting as

caddie, Alistair was also kept busy in his capacity as SELECT Vice-President, handing out prizes at the end of a competitive event at Dunblane New Golf Club in Perthshire.

After a three-year break, golfers had been eager to get back in the swing of things, and 18 hardy souls from across Scotland duly braved the elements during a drizzly contest on Monday 16 May. However, the rain was never going to dampen the spirits of SELECT

Members and guests as they battled it out for the famous silver trophy.

Split into the traditional East and West teams, the Stableford competition saw prizes for the longest drive and nearest the pin.

A special 'endeavour' award was also handed out to the player with the highest round.

After an extremely narrow contest, the East team triumphed by 164 points to



**"THE PRESIDENT'S CUP IS ALWAYS AN EXCELLENT DAY, AND IT WAS GOOD TO SEE SO MANY MEMBERS AND GUESTS RETURN TO THE FAIRWAYS"**

↑ That's my boy!  
Alistair presents the trophy to Stephen



↑ Teeing off in the soggy conditions



↑ Top notch iron play on the Dunblane course



↑ Members got in the swing of things on a damp day in Dunblane



→ 162, with Stephen being presented with the cup after high tea in the clubhouse. Stephen, who works for his dad's firm in Elgin, also received a bottle of malt whisky and engraved glass to mark the victory, with the three best performers on each team also taking home various prizes.

Managing Director Alan Wilson said: "The President's Cup is always an excellent day, and it was good to see so many Members and guests return to the fairways in Dunblane after our enforced break due to COVID-19.

"The competition was as fierce as ever and I'm sure the West team will be looking for revenge when the competition returns in 2023." ■



↑ Alistair with the winning players and the trophy

Images: © Mark Jackson



See more pictures at [www.cabletalkmagazine.com](http://www.cabletalkmagazine.com)



↑ Concentraion while stroking home a putt

↑ Giving a putt plenty of attention

↑ Tackling a five footer while rivals look on



### Celebrating the 2022 winners

- President's Cup –**  
East team
- Top 3 East –** Darren Fortnum (38 points), Allan Beveridge Jnr (33), Glen McGregor (31)
- Top 3 West –** Garry Hackett (32 points), Gordon Hamilton (31), James Kelly (31)
- Longest drive –** Stuart Widdowson (West)
- Nearest the pin –** Adam Graham (East)
- President's Award for endeavour –** Graham Douglas (East)
- Best guest score –** Steve Conn (Luceco Group)

**"THE COMPETITION WAS AS FIERCE AS EVER AND I'M SURE THE WEST TEAM WILL BE LOOKING FOR REVENGE WHEN THE COMPETITION RETURNS IN 2023"**



**DURING** our recent roadshows I've been bowled over by the generosity of delegates, who have helped boost my fundraising target in aid of the Electrical Industries Charity.

From the first event in Edinburgh on 3 May, SELECT Members have dug deep to have a go on our Beat the Buzzer game, with all proceeds going towards my epic challenge in September.

I've been so delighted by the response, I've even let some of the competitors borrow my special Lindiana Jones hat to bring them luck!

It's also been great to see Associate Members and other Toolbox Talk exhibitors digging deep and throwing money into the pot, which is now well over the half-way point to my £5,000 target.

I've been making sure I keep up my training for the five-day Inca Trail, which will culminate in a 2,430m climb to Machu Picchu.

One Member who's a keen hillwalker has even offered to accompany me on a Munro climb to ensure I get some high-altitude training before the trek itself.

Can't wait!

As *cabletalk* went to press, I was preparing to host plenty more events that I hope will bring in more much-needed funds for charity.

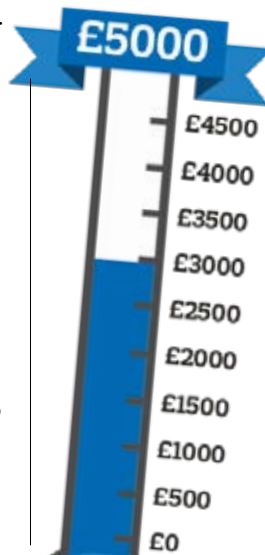
The upcoming SELECT Summer Carnival at The Walled Garden on 25 June will also add a

↑ Iain Revel pitched in at the Borders event

# Members dig deep for Peru climb

The current Toolbox Talks have seen Members, exhibitors and guests chipping in to help our adventurer raise funds for her charity trek to South America, which is now only a few months away

**WORDS**  
**LINDA ROLFE**  
Events, Marketing & Communications Coordinator



↑ Beat the Buzzer has drummed up funds

few more pennies to the pot and provide another chance to meet Members and their families.

Plus I'll be kept busy doing plenty more nail painting, cake baking and whatever else

I can think of to help push up the total and get it as high as

possible before I pack my bags and jet off to South America later this year.

Once again, thank you so much to everyone who's pledged, donated and sponsored me so far.

Your contributions will ensure that the Electrical Industries Charity can continue its fantastic work and support those in our industry who need it most. ■

➔ To sponsor Linda and help electricians via the EIC, please go to [bit.ly/Linda-Inca](https://bit.ly/Linda-Inca)

# Let's switch on to girl power

Scottish Government Minister Lorna Slater used a SELECT video to urge more women to join the construction industry and use their skills to build a greener future

**W**OMEN have a vital role to play in the engineering sector and should be proactively recruited into renewables and emergent technologies to help build a net zero society.

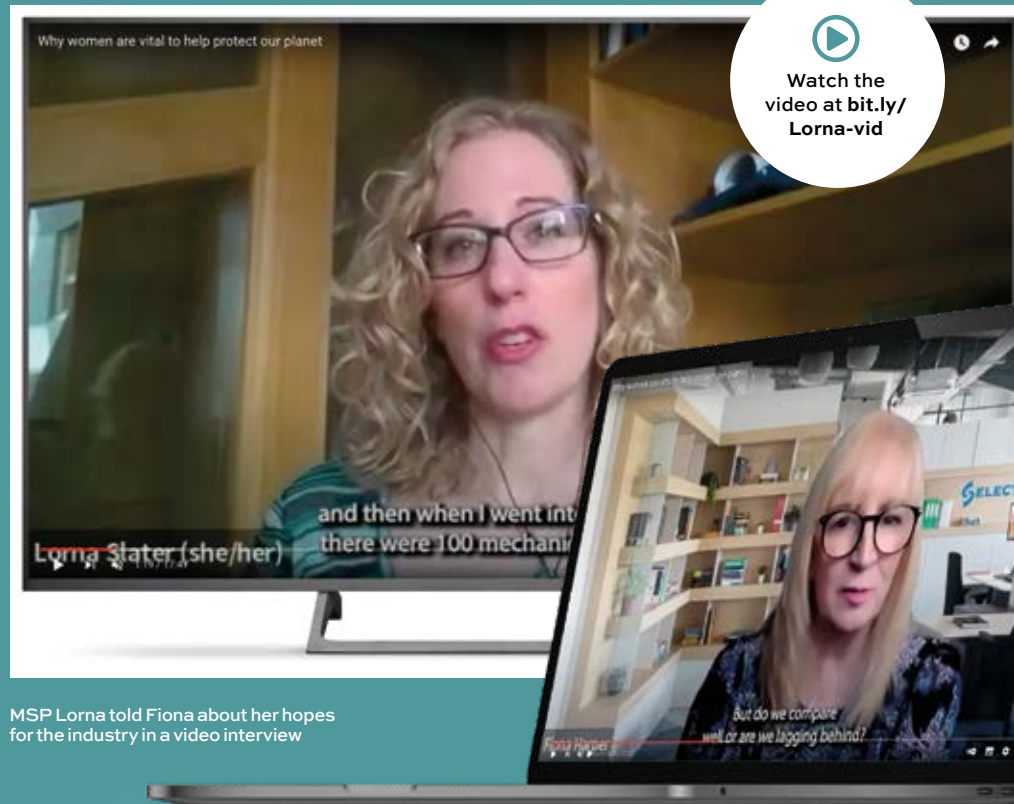
That's the message from Lorna Slater, Minister for Green Skills, Circular Economy and Biodiversity, who called for more women in the industry during an exclusive video interview with Fiona Harper, our Director of Employment and Skills.

Ms Slater gained a degree in electro-mechanical engineering in her native Canada before moving to Scotland – and said any women mulling over a similar job in construction should “dive in”.

She said: “When I was considering engineering as a career, the main pathways into it were maths and physics, both subjects in which girls are historically under-represented, so we have to make these subjects more accessible to young women.

“By the time I started working, it was really normal for me to be the only woman in the room, and I got used to that – but we shouldn't. We shouldn't allow that to be normal.

“We need to proactively tell girls what great careers they can have in the emergent industries. So we have to go out, encourage them and encourage them to stay.”



MSP Lorna told Fiona about her hopes for the industry in a video interview



**“WE NEED TO PROACTIVELY TELL GIRLS WHAT GREAT CAREERS THEY CAN HAVE IN THE EMERGENT INDUSTRIES”**

Ms Slater, who is co-leader of the Scottish Green Party, said she had a simple message for girls who might want to take part: “Don't hesitate, dive in, take that big step. You can help build the world you want to see – and your country needs you. These are good jobs where you get to collaborate, work together and problem solve.”

Fiona said: “We are grateful to the Minister for delivering this important message. Women have a vital role to play in our sector and it is vital that we seek out female talent to help us develop the technology of tomorrow.” ■

# Enjoying strength in numbers

As well as many exclusive benefits, our Associate Member explains how its private medical insurance scheme is designed to be sustainable and keep your balance sheet healthy too

WORDS  
**VICKI LESLIE**  
Client Relationship  
Manager, EC  
Insurance Services



**A**S we outlined in a previous edition of *cabletalk*, an increasing number of employers are finding that offering private medical insurance (PMI) can help to keep their employees – and their business – healthy and productive.

Construction sector skills shortages and increasing NHS waiting times mean that the benefits of offering private medical cover to your employees have never been clearer.

However, value is about both cost **AND** benefit, so it's important to make sure that the solution you choose is one that is sustainable for your business.

## EXCLUSIVE COVER FOR SELECT MEMBERS

The ECIS PMI scheme with Bupa is a large group arrangement, available exclusively for Members of SELECT.

The size of the scheme offers Members protection from premium increases related to large individual

claims and helps keep the pricing of the scheme sustainable.

Simon Morgan is Director of Wessex Group, a longstanding ECIS client from the electrotechnical sector.

He said: “When you compare [ECIS] in the market, the level of benefits you get is excellent value for money.

“Obviously, there are options that provide lower benefits and underwriting so the cost is less but, when comparing like for like, the value is outstanding.”

## ADDITIONAL BENEFITS AND SERVICES

The ECIS PMI scheme includes additional services which go beyond access to just hospital treatment.

For example, the Babylon Digital GP service provides access to a GP 24 hours a day, seven days a week and appointments are usually available within two hours. Babylon can also provide prescriptions





## HOW CAN WE HELP?

ECIS has been helping people get the best healthcare cover for their needs since 1980 and is committed to helping SELECT Members and their business.

Its independence means it's not tied to just one insurer. So, for example, if the Bupa scheme isn't the right fit for you and your staff, it will find a PMI product that is.

So if you're thinking of a PMI policy for your employees, or if you would like ECIS to review your current arrangement, speak to the team on 0330 221 0241 or visit them at [www.ecins.co.uk](http://www.ecins.co.uk)

and, if necessary, referral letters can be issued within minutes and used with Bupa and some NHS pathways.

Whether it's concerns over cancer, mental health or muscle, bone and joint conditions, ECIS PMI scheme members can also call Bupa without the need for a GP referral.

SELECT Members on the ECIS scheme who have any worrying heart symptoms can access the Bupa specialist cardiac team who will ask a series of questions about the condition to determine the right course of action.

If required, the team can provide referral for a video consultation with a cardiologist. And if the cardiologist requires further tests to support the diagnosis, the latest diagnostic tests, such as an ECG monitor or a blood test kit, can be sent to the Member's home.

The ECIS scheme also provides SELECT Members with access to Bupa's dermatology team who can organise a remote skin assessment for any concerns around moles or skin lesions. Bupa will send a home test kit that allows high-resolution photos of the mole or skin lesion before sending them to a dermatologist for review.

## ABSORBING THE IMPACT OF LARGE CLAIMS ON PREMIUMS

Private medical premiums are mainly affected by claims experience and inflation. However, the volatility of smaller schemes means premium increases can be significant.

In recent years the ECIS Scheme has seen individual claims costing as much as £240,000. The impact of a claim of this scale on a small policy's future premiums would be significant.

ECIS can help protect policyholders from large year-on-year increases which are driven by high value individual claims by pooling Members into a single scheme.

As a result, ECIS scheme members have benefited from 10 years of premium stability relative to the wider market, helping to ensure that the cost of providing this valuable benefit remains sustainable. ■

**"VALUE IS ABOUT BOTH COST AND BENEFIT SO IT'S IMPORTANT TO MAKE SURE THAT THE SOLUTION YOU CHOOSE IS ONE THAT IS SUSTAINABLE FOR YOUR BUSINESS"**



→ **AMENDMENT 2 SPECIAL**

# Overvoltage protection: What's new?

WORDS  
**DAVID ENEFER**

Product Manager,  
Circuit Protection  
Systems



**electrium**

With Amendment 2 including several changes to overvoltage protection requirements, our Associate Member outlines the most significant impact on AFDDs, RCBOs and RCDs

**A**S you would expect with a new amendment, there have been a number of changes to existing regulations, with several new requirements also added.

One significant change has seen Section 443 simplified, with overvoltage protection or surge protection devices (SPDs) now a requirement for **ALL** installations. There are now no exceptions permitted where overvoltage could result in:

- serious injury to, or loss of, human life

– i.e. tells the installer not to fit it – and accepts all the risks of excluding such protection.

There is also a new requirement for installers to provide an information notice – i.e. a label, at or near to the distribution board or consumer unit, indicating that the installation contains overvoltage protective devices.

*Note: Information on the types of SPD installed and confirmation of their*

*operational status should also now be recorded on the model Schedule of Circuit Details and Schedule of Test results*

## **AFDDs MANDATED REGULATION 421.1.7**

Arc fault detection devices (AFDDs) are now mandated on final circuits for socket-outlets rated 32A or less in four building types:

- Higher risk residential buildings (HRRBs)

## **"DESIGNERS AND INSTALLERS SHOULD NOTE THAT THE USE OF AFDDs IS IN ADDITION TO OTHER EXISTING REQUIREMENTS"**

- failure of a safety service, as defined in Part 2
- significant financial or data loss.

For all other cases, overvoltage must be provided unless the owner of the installation specifically opts out



- Purpose-built student accommodation
- Care homes
- Homes in multiple occupation (HMOs).

Circuits that supply socket-outlets include radial circuits, ring final circuits and cooker control circuits where there is an integrated socket within the cooker control. It also includes sockets in common areas, indoor and outside. AFDDs shall be placed at the origin of the circuit being protected, i.e. in the consumer unit or distributions board.

AFDDs are also recommended on final circuits for socket-outlets rated 32A or less in all other buildings too. The term “recommendation” is clarified on page 18 in the notes on Amendment 2 as meaning “should”.

Designers and installers should note that the use of AFDDs is in addition to other existing requirements – e.g. in almost all cases final circuits supplying socket-outlets also require additional protection by use of a 30mA device. Therefore combined AFDDs/RCBOs would be required.



**RCBOs AVOID UNWANTED TRIPPING**

Wider use of RCBOs in residential premises is encouraged and fortunately many installers already use RCBOs within installations in residential premises.

There is a clear and accelerating move away from dual RCD-style consumer units because this type of unit does not always make adequate provision for Chapters 31 or 53 – i.e. division of the installation or for DC influences.

Chapter 31 requires the installation to be divided into as many circuits as necessary to avoid unwanted tripping of RCDs. In other words, maintaining power to healthy circuits and disconnecting the faulty circuit only.

Grouping circuits on one or two 30mA RCDs cannot maintain power to healthy circuits when one circuit in the group becomes faulty. Regulation 531.3.2, *Unwanted Tripping*, now points out the use of RCBOs for individual final circuits in residential premises as a method to prevent unwanted tripping.

In addition, Regulation 531.3.3, *Types of RCD*, now states that RCD Type AC shall only be used to serve fixed equipment, where it is known that the load current contains no DC components, e.g. on simple electric heating

↑ The changes should help in eliminating causes of short circuits

appliances or filament lighting. Such applications are now rare.

Regulation 411.3.3, which requires additional protection by means of a 30mA RCD for sockets-outlets and mobile equipment rated 32A or less, has also been redrafted.

It now takes account of types of users as the primary decisive factor for inclusion of 30mA protection. There is no option to omit RCD protection where socket-outlets and mobile equipment may be used by ordinary persons, disabled persons or children.

**RCDS AND OUTDOOR LIGHTING INSTALLATIONS**

Section 714, which deals with outdoor lighting installations, now includes regulation 714.411.3.4.

This states that outdoor lighting which is accessible to the public shall have additional protection by an earth leakage protection device. The characteristics are specified in Regulation 415.1.1, which requires protection by 30mA device, either RCBO or RCD.

Examples where this requirement applies includes gardens and public spaces.

**TESTING OF RCDS AND RCBOs**

The requirements for RCD testing have been revised. Table 3A in Appendix 3 – which had trip times for a variety of RCDs and RCBOs – has been deleted and replaced with simplified requirements, i.e. regardless of RCD Type, an alternating current test at rated residual operating current (I<sub>Δn</sub>) is used to verify the effectiveness of the device to disconnect within the required times. ■

↓ Details can be found in the new *Requirements for Electrical Installations*



➡ SPD risk assessment process: Pages 44-46



↓ Adjusting the requirements is aimed at making homes safer for everyone

# Getting wired into the detail of changes

Our latest Associate Member takes a closer look at the new elements of Section 443 of the updated wiring regulations and explains why they're not as simple as you might think

**WORDS**  
**ROBIN EARL TMIET**  
Market Development  
Manager



**I**F YOU have your copy of the new regulations, you'll notice that the risk assessment process for SPDs in Section 443 has changed.

Gone is the ground flash density map, CRL risk assessment calculation and choice of environmental factor, replaced by three simple idents that determine if a structure requires SPDs.

But why are there other pages in Section 443? And what are they all about? Let me explain...

**REGULATION 443.1.1: DECISION MAKING**

Let's start at the beginning with Regulation 443.1.1, where there is a decision-making process to be undertaken.

Does the structure have a fitted lightning protection system (LPS) to BS EN 62305, or is it otherwise protected from the effects of a direct lightning strike?

If it is, we need to go to the lightning protection standard BS EN 62305 and also Section 534 in BS 7671 to roll out the installation of SPDs.

The protection of structures from direct strikes is not in the scope of BS 7671.

Next, we see that if no transient overvoltage



protection against disturbances of atmospheric origin is installed, protection against switching overvoltages may need to be provided.

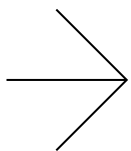
This acknowledges that within an electrical installation there may be possible sources of overvoltage and protective measures that need to be taken into account, more of which later.

If there is no fitted LPS we move to regulation 443.4.1, where we see the





**"WE SEE THAT IF NO TRANSIENT OVERVOLTAGE PROTECTION AGAINST DISTURBANCES OF ATMOSPHERIC ORIGIN IS INSTALLED, PROTECTION AGAINST SWITCHING OVERVOLTAGES MAY NEED TO BE PROVIDED"**



three consequences to requiring SPDs outlined in the article on the previous pages, i.e. injury or loss of life, failure of a safety device, or financial or data loss.

Those indents apply only to structures that don't have a fitted LPS and there is no need to apply the requirements to structures like high-risk tower blocks, data centres, schools or areas with an ATEX zone. The structures to be covered will all be smaller, e.g. a dwelling converted to a surgery or small business unit.

The inclusion of safety circuits may introduce SPDs into all installations that have mains-powered smoke alarms or fire detection and fire alarm panels or emergency lights as they're supplied by a safety circuit meeting the definition in Part 2. So the inclusion of a safety circuit makes SPDs in domestic installations very likely.

Some additional text in the regulation goes on to say: "For all other cases, protection against transient overvoltages shall be provided unless the owner of the installation declares it is not required due to any loss or damage being tolerable and they accept the risk of damage to equipment and any consequential loss."

There is no other part of BS 7671 that promotes the idea of consent with the owner for the inclusion of a device. Given how the cost of SPDs has been driven down with increased uptake of the units, it would be the smallest installations of no consequence that will have no SPDs fitted.

That would appear to be the end of the risk assessment – but Section 443 has many more regulations to be explained and followed.

**REGULATION 443.4.2:  
TRANSIENT OVERVOLTAGES**

We turn our attention to the next regulation, which deals with transient overvoltages caused by equipment where protection against overvoltages shall be considered in the case of equipment likely to produce switching overvoltages or disturbances exceeding the applicable rated impulse voltage of equipment.

Examples of this include where inductive or capacitive equipment, such as motors, transformers, capacitor banks, storage units or high current loads are installed.

This is a common situation for anyone who's fitted LED lights which don't last as long as described because other installed equipment, e.g. lifts or machinery, is inducing surge voltages beyond the level tolerated by the drivers, i.e. the rated impulse voltage.

It is therefore important to understand the technical specification of the drivers and the standard to show that the driver has the required "resilience" is BS EN 61000-4-5. This is specifically mentioned in BS 7671 in regulation 443.6.1,

This standard for the surge immunity of the equipment under test (EUT) shows the voltage impulse



ratings that the EUT will withstand. Other parts of the BE EN 61000 series can also appear in the technical specification of drivers but those test conditions are less onerous and the corresponding withstand voltage is lower, hence higher failure rates being flagged up in certain installations.

One of the test conditions in other parts of the BS EN 61000 series is to test to just 2kV. The target value we need to meet in BS 7671 is not more than 2.5kV for category 2 appliances in Table 443.2.

The result of this means that the LED drivers rated at 2kV would require a local Type 3 SPD to provide the additional level of protection to ensure a long life in the installation with resilience from over voltages.

Type 3 SPDs mounted within lighting circuits would have a voltage protection level (Up) of approx. 1.5kV so the lower impulse withstand voltage of 2kV (Uw) is not exceeded.

**SUMMING UP**

Section 443 is a risk assessment only for structures that have no fitted LPS. Those structures with the fitted LPS have had a risk assessment undertaken in BS EN 62305 and SPDs shall be fitted as part of the measures to mitigate the damage from lightning strikes.

If any of the three indents in the list of consequences of not offering SPDs are met then SPDs shall be fitted. For all applications, the designer and installer also need to be aware of the impulse withstand voltage of the most sensitive piece of equipment and install SPDs to protect it not just from lightning surges but also other equipment in the structure.

The installation of the SPDs as a result of following the requirements in Section 443 shall be erected as per the requirements in Section 534. ■

🔔 Fire risk changes to section 422 and Appendix 13  
Pages 47-49

Our industry expert takes a closer look at the many changes introduced to Section 422 and Appendix 13 by Amendment 2, relating to locations where a particular risk of fire exists

WORDS  
TIM BENSTEAD  
Chair, JPEL64/B



**S**ECTION 422 of Amendment 1 of BS 7671: 2018 was considered by the relevant JPEL

committee to be inadequate to meet the particular fire risks that exist.

For example, the ‘Conditions for evacuation in an emergency’ codes BD2, BD3 and BD4 (422.2) were difficult to interpret and apply. Indeed, most if not all relevant stakeholders did not use any BD codes, and rather applied other fire safety guidance found in standards such as BS 9999.

#### BS 9999

To provide an adequate understanding of the changes introduced into Section 422, it is important to understand that BS 7671 is not a Standard that can be referenced without a broader understanding of other related standards.

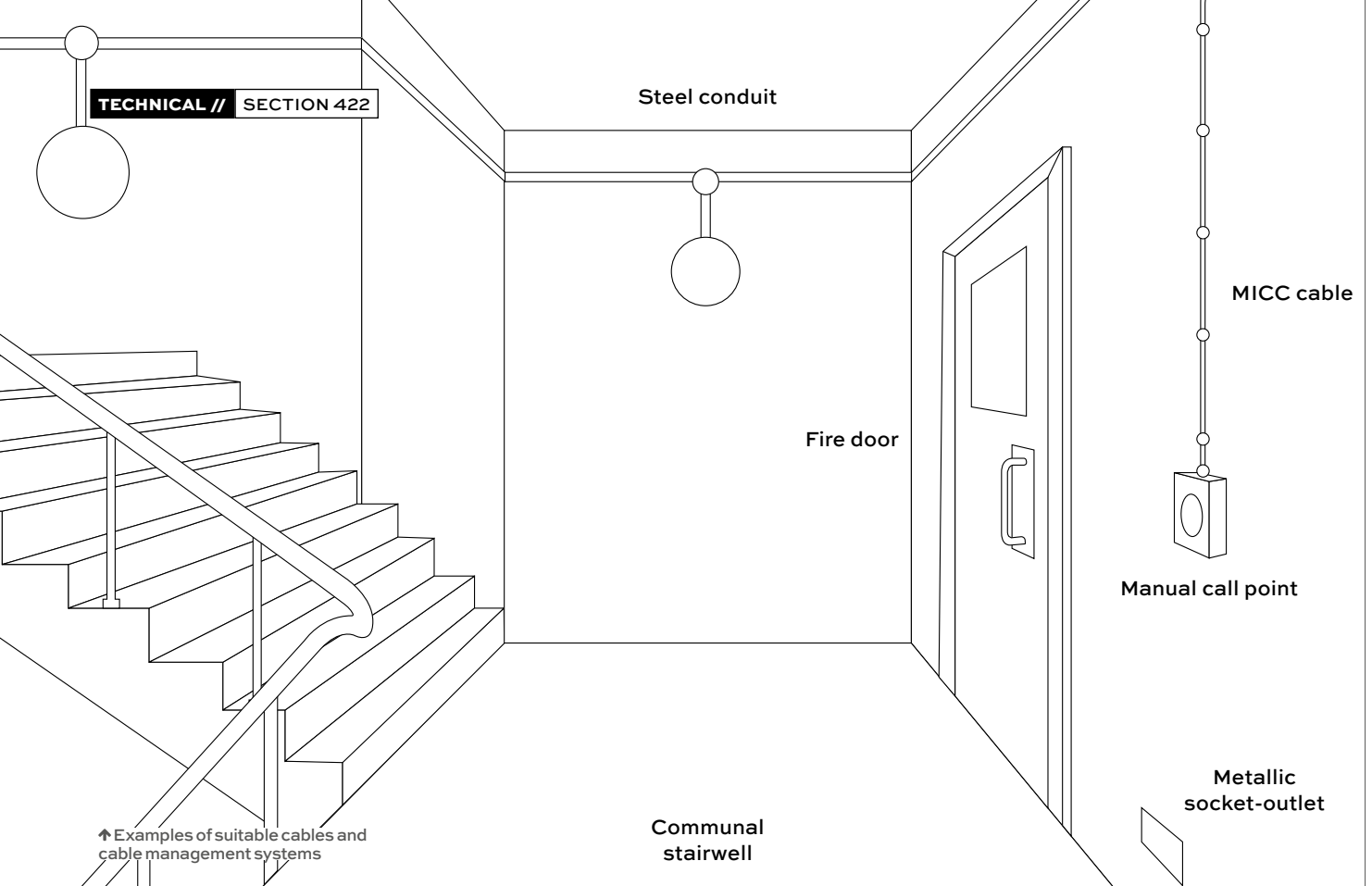
BS 9999 is referenced in Regulation 422.1 where it is recommended that the fire safety design of the building should be documented and that such information be included in a fire safety manual produced by, or for, the person responsible for the building. BS 9991 is a similar standard referencing residential buildings.

*BS 9999: 2017 Fire safety in the design, management and use of buildings – Code of practice* is designed as “a coordinated package covering the four main areas that influence fire safety measures”. These are:

- Fire safety management
- Provision of means of escape
- Structural protection

→ AMENDMENT 2 SPECIAL

# Smoking out the issues over blaze risk



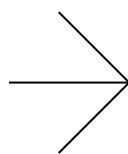
## SAVE 25% on guide to fire alarm systems

SELECT Members are being offered an exclusive discount on The Practical Guide to Grade D Fire Alarm Systems by Tim Benstead.

Available at the special price of £14.96 – a saving of 25% – the book helps ensure that Grade D1/D2 fire detection and fire alarm systems are suitably designed, installed, commissioned and maintained, providing guidance for the working electrician on:

- Fire risk assessment
- Selecting appropriate grade/category of system
- Maintenance and servicing
- Situations requiring a logbook.

The book gives a clear understanding of roles and responsibilities, whether as a contractor, designer, landlord or housing manager, and provides a suitable context in which all such work should be carried out. To order the book, please go to [bit.ly/fire-book-offer](http://bit.ly/fire-book-offer)



of escape facilities and structural stability of the building in the event of a fire

- Provision of access and facilities for fire-fighting.

It is necessary, therefore, for the designer of the electrical installation to take full account of those standards or the advice of those key stakeholders responsible for defining, for example, what a protected escape route is and whether such a route exists at all.

### PROTECTED ESCAPE ROUTE

The introduction in BS 7671 of a new term of “protected escape route” is important in creating that connection between the requirements of Regulation Group 422.2 and those parts of Standards such as BS 9999 and BS 9991 that describe actual protected escape routes.

It is not normally the case that the

electrical installation designer is competent to define where a protected escape route exists within a building. However, there is clear guidance available.

For example, BS 9991 defines protected corridor/lobby and protected entrance hall/protected landing in terms of locations “enclosed with fire-resisting construction”. BS 9999 defines “protected” as “enclosed (other

↓ An example of a protected escape route



**“A PROTECTED ESCAPE ROUTE CAN BE FORMED OF A PROTECTED LOBBY, CORRIDOR OR STAIRWAY”**



## **"IT IS NOT NORMALLY THE CASE THAT THE ELECTRICAL INSTALLATION DESIGNER IS COMPETENT TO DEFINE WHERE A PROTECTED ESCAPE ROUTE EXISTS WITHIN A BUILDING. HOWEVER, THERE IS CLEAR GUIDANCE AVAILABLE"**

than any part which is an external wall of a building) with fire-resisting construction". Further guidance on protected areas may also be found in the Building Standards technical handbook.

The new informative annex, Appendix 13, helpfully explains that for safe escape it is essential that a protected escape route is in essential elements a fire sterile environment. This precludes the use of any combustible material which could cause a hazard to any escaping occupants. A protected escape route can be formed of a protected lobby, corridor or stairway.

What is clear is that Regulation 422.2 requires that cables or other electrical equipment are not to be installed in a protected escape route except for:

- An essential fire safety or related safety system. Such a related safety system might include, for example, automatic door closers
- General needs lighting
- Socket-outlets provided for cleaning or maintenance.

Again, Appendix 13 gives guidance on how socket-outlets might be installed to meet the requirements of Regulation 422.2. Regulation 422.2.3 specifically

excludes the use of any electrical equipment which contains flammable liquids in a protected escape route. Any switchgear or controlgear installed in a protected escape route must be enclosed in a cabinet or enclosure constructed of non-combustible or not readily combustible material. Any such equipment must only be accessible to authorised persons (422.2.2).

Manual call points installed in protected escape routes are not included in the requirement to enclose switchgear/controlgear.

### **CABLES**

Any cables that are installed within fire-resisting enclosures do not form part of the protected escape route and the requirements of Regulation 422.2.1 (Appendix 13) do not apply.

Where cables are to be installed within a protected escape route (stair/lobby/corridor) they must conform to the following:

- Cables meeting the requirements of Regulation 560.8.1. These include:
  - MI cable systems conforming to BS EN 60702-1 and 2 and BS EN 60332-1-2
  - Fire-resistant cables conforming to BS EN 60331-1, BS EN 60331-2 or 3 and BS EN 60332-1-2
  - Fire-resistant cables conforming to BS EN 50200, BS 8434 or BS 8491 and BS EN 60332-1-2
  - A wiring system maintaining the necessary fire and mechanical properties.
- Cables with resistance to flame propagation according to the recommended requirements of BS EN 60332-3 series, or where cable management systems such as conduit systems and cable trunking systems are used, the recommended requirements of BS EN 60332-1-2
- Cables having a minimum of 60% light transmittance when tested in accordance with BS EN 61034-2

- Any cables within the protected escape route must be as short as possible. Any cables that encroach on escape routes must be installed beyond arm's reach. Arm's reach is defined in Part 2. Figure 417 in BS 7671 provides helpful clarity on the extent of arm's reach.

### **CABLE MANAGEMENT SYSTEMS**

Where cable management systems are to be installed in protected escape routes, they shall have limited smoke production (422.2.1).

Note 2 helpfully explains that ferrous metal is deemed to be an example of a material having limited smoke production.

The clear implication here is that plastic or similar material should not be used.

The cable management system must be one of the following:

- Conduit systems classified as non-flame propagating according to BS EN 61386
- Cable trunking/ducting systems classified as non-flame propagating according to BS EN 50085
- Cable tray/ladder systems classified as non-flame propagating according to BS EN 61537
- Powertrack systems meeting the requirements of BS EN 61537.

Any safety services must conform to the requirements of the specific standard for that safety service. Where there is no such standard the cable must have a resistance to fire rating of at least one hour.

### **CONCLUSION**

The many changes to Section 422 will need careful consideration by designers of electrical installations. The change in design philosophy will require interested parties to cooperate to ensure that protected escape routes are suitably defined and that appropriate wiring systems are selected and erected. ■

👤 Tim Benstead is the former Principal Technical Author of the NICEIC, a member of JPEL64, Chair of JPEL64/B and a member of FSH12/1, the BSI committee responsible for BS 5839-1 and BS 5839-6 for 15 years. He writes with authority and understands the concerns of the contractor and those responsible for domestic premises.



THE LATEST IN-PERSON AND E-LEARNING COURSES TO BOOST YOUR SKILLS AND KEEP YOUR KNOWLEDGE UP TO DATE

# Training

## MORE INFORMATION

To inquire about SELECT's range of training courses, please call 0131 445 5577 or email [training@select.org.uk](mailto:training@select.org.uk)



## Asbestos awareness (course number 310)

This United Kingdom Asbestos Training Association (UKATA) course is designed to offer guidance to operatives who could come into contact with materials containing asbestos as part of their day-to-day working duties.

As well as alerting delegates to the dangers of asbestos, the course advises on the procedures to be followed if working in the vicinity of asbestos containing materials (ACMs) as stated in Regulation 10 of the control of asbestos regulations 2012 (CAR 2012). Other topics covered include:

- Identifying asbestos and understanding the associated health hazards
- Where asbestos can be found and the CAR 2012 regulation
- Legal duty and how to meet it when managing ACMs
- Types, uses and likely occurrence of ACMs and asbestos in plants and buildings
- Implementing emergency procedures in the event of the uncontrolled release of asbestos dust in the workplace.

The cost for SELECT Members is **£85 + VAT (£102) per person.**

# Getting you up to speed on safety

To help keep Members and their staff free from harm, we now offer a wide range of health and safety courses in partnership with our external training provider, Training Plus

**Training Plus**

## Emergency first aid at work (course number 101)

WORDS  
**JENNY CRIVANS**  
Training Manager



If you need a qualified first aider in the workplace, this one-day course provides all the training required, along with a certificate recognised by the Health and Safety Executive (HSE) that is valid for three years.

The course will equip you with the knowledge, skills and confidence to handle a wide range of emergency situations, from minor injuries to life-threatening conditions,

so you'll be able to administer the right treatment swiftly and decisively during a crucial emergency.

The course combines theory and practical instruction, including:

- The role of the first aider communicating with a casualty
- Contents of first aid kits and avoidance of cross infection
- Recording of incidents and accidents



## Manual handling awareness

All employers are required to carry out training for staff who lift or carry loads, so this half-day course allows delegates to appreciate the consequences of poor manual handling and enable them to plan and use approved lifting techniques.

As well as gaining an understanding of regulations, delegates will receive training in lifting and moving safely,

identifying potential hazards and risks, and determining the safest method of manual handling. Other areas covered include:

- Accident statistics and the spine and muscular system
- Typical injuries and how to recognise and avoid problems
- Tasks, loads and working environments
- Individual capabilities and correct handling techniques
- Practical exercises and tuition in how to avoid injury and strain.

**The cost for SELECT Members is £80 + VAT (£96) per person.**



Visiting The Walled Garden for a training course? Watch our video beforehand at [bit.ly/twg-visit](https://bit.ly/twg-visit)

## Working at height and in harness

This half-day theory-based course will help you and your operative learn how to supervise working at height and use the necessary safety equipment to carry out any work safely.

The session covers safe and unsafe working practices for mobile elevated work platforms (MEWPS), suspended platforms, roofs, ladders, personal protective equipment, scaffold and mobile access towers.

It also deals with the following:

- Competent person and legislation
- Work at height regulations
- Prevention and protection
- What and why of inspections
- Delegate assessment of understanding.

There will be a short written assessment at the end of the course, with successful delegates receiving an approved supplier certificate.

**The cost for SELECT Members is £80 + VAT (£96) per person.**

- Assessing situations in order to act safely, promptly and effectively.

This means you'll be able to administer first aid to a casualty who is unconscious, requires cardio pulmonary resuscitation (CPR), is choking, in shock, wounded or bleeding, or has minor conditions such as cuts, grazes, bruises, splinters, burns and scalds.

**The cost for SELECT Members is £100 + VAT (£120) per person.**

### HOW TO BOOK

For further information about any of the above courses, please visit the Training section on the SELECT website at [www.select.org.uk](http://www.select.org.uk) and go to 'External training providers and courses'.

If you would like to find out what dates are available for any of the courses, please contact SELECT Training on 0131 445 5577 or e-mail [training@select.org.uk](mailto:training@select.org.uk)



# Industry insight

## Changes in public sector pay scheme

Our expert reviews two recent developments relating to payment performance and project bank accounts

WORDS  
PROFESSOR  
RUDI KLEIN  
Barrister &  
SELECT Consultant



**T**HE Scottish Government has recently published updated guidance on embedding prompt payment performance in public sector supply chains.

Issued in May, this new policy note stresses that ensuring timely payments to sub-contractors is “critical” to the sustainability and resilience of the supply chain.

All suppliers to the public sector must now adopt the seven elements in the Scottish Government’s policy statement, *Fair Work First*, which are shown on this page.

In addition, Procurement Policy Note 6/2021 says

public bodies must ensure contracts are **ONLY** awarded to those with a good payment history and must put in place mechanisms to assess and monitor payment performance.

Tier 1 contractors must also demonstrate they are paying at least 95% of valid invoices/applications on time. If not, they must provide an improvement plan with their bids if they wish to be selected.

In addition, bidders must ensure payment to sub-contractors within a **MAXIMUM** of 30 days from receipt of a valid invoice/application, as defined in the contract. A clause to this effect must be inserted in sub-contracts. The above

*Main contractor and sub-contractors paid simultaneously from PBA within 15-20 days*



will not be necessary where project bank accounts (PBAs) are used.

### SO WILL IT BE ENFORCED?

Unfortunately, enforcement of this is rather weak, with late payments reported to the client who will then intercede with the main contractor.

If there’s no resolution, advice can then be obtained from the Single Point of Enquiry (SPOE) service for public sector supplies.

However, I doubt that many sub-contractors will bother to avail themselves of this service.

### UPDATED PBA SUPPLEMENT

Members should also keep an eye out for an updated PBA

### WHAT ARE PBAs?

- The Scottish Government mandated the use of PBAs by public bodies in respect of government funding in 2016.
- The threshold was initially £4million, subsequently reduced to £2million after campaigning by SELECT and other bodies.

- The use of PBAs is now widespread, with some local authorities including Edinburgh City Council using them.
- PBAs act as a safe receptacle for your cash, so if you’re a sub-contractor, you receive your monies directly from the client via a PBA.

- While in the account, the monies are ring-fenced by a trust agreement. In the event of the main contractor becoming insolvent you are still paid the monies from PBA.
- In most cases, payments are made well within 20 days.



## THE FAIR WORK FIRST SEVEN ELEMENTS

- **01** Appropriate channels for effective voice, e.g. trade union recognition
- **02** Investment in workforce development
- **03** No inappropriate use of zero-hours
- **04** Action to tackle the gender pay gap to create a more diverse and inclusive workplace
- **05** Providing fair pay for workers, e.g. payment of the real Living Wage
- **06** Flexible and family-friendly working practices for all workers from day one
- **07** Opposition to fire-and-rehire practices

supplement published by the Joint Contractors Tribunal (JCT) for its standard main contracts and associated sub-contracts, which will be “kilted” by the Scottish Building Contracts Committee (SBCC).

This supplement preserves the overriding principle that payments are to be discharged to the main contractor and sub-contractors at the same time.

On each occasion that monies become due, the main contractor is to provide the client with a payment schedule setting out the amounts due to itself and each sub-contractor. This must be done in time

to enable the client to make payments into the PBA by the final dates for payment under the main contract.

The sub-contract payment timelines are:

- The due date for interim payment is the date 10 days from the interim valuation date
- The time period for issuing pay less notices is no less than three days before the final date for payment
- The final for payment for interim payments is 11 days after the due date.

However, there is one rather irksome provision, which applies where the client has deposited monies in the PBA which are less than the

amounts agreed with the main contractor.

In this case, the monies payable to the main contractor and sub-contractors are reduced pro rata in proportion to the total amount due to them, as set out in the instructions to the bank.

A PBA is not a pay-when-paid arrangement. The main contractor remains liable to discharge the payments due to its sub-contractors. ■

📧 If you have a query or are experiencing poor payment practices on public sector projects, please email [memberservices@select.org.uk](mailto:memberservices@select.org.uk)

**“TIER I CONTRACTORS MUST ALSO DEMONSTRATE THEY ARE PAYING AT LEAST 95% OF VALID INVOICES/APPLICATIONS ON TIME”**

In our new financial column, an industry expert shines a light on recent tax-related issues that could have implications for Member firms

# COVID easing sees end to home benefits

WORDS  
WENDY BRADLEY  
Tax Writer

**THE** COVID-related relaxation to the rules on claiming expenses for working from home has now been abolished. This means that if your employees **CAN** work from home if they choose, but you have not **REQUIRED** them to do so then they can no longer claim home office expenses. They should also check their 2022-23 notice of coding.

There is a clear statement from HMRC that “you cannot claim tax relief if you choose to work from home”. More details about this can be found at [bit.ly/tax-home](https://bit.ly/tax-home)

There is also a “check your status” tool that employees can complete for themselves and which can be found at [bit.ly/tax-claim](https://bit.ly/tax-claim)

## CIS SCHEME

Members should be aware that there has been a small change to HMRC’s internal instructions on the Construction Industry Scheme (CIS).

A non-construction business can be “deemed” to be within CIS if they spend more than £3 million on construction in

**“A NON-CONSTRUCTION BUSINESS CAN BE ‘DEEMED’ TO BE WITHIN CIS IF THEY SPEND MORE THAN £3 MILLION ON CONSTRUCTION IN ANY ROLLING 12-MONTH PERIOD”**

any rolling 12-month period. However, a change to this means that HMRC now considers VAT as part of this threshold.

This is, of course, quite different to the other CIS measurements of construction operations such as the turnover test for CIS gross payment status which continue to exclude VAT.

Find out more at [bit.ly/cis-new](https://bit.ly/cis-new)

## FUEL CHARGES

Among the many recent deadlines for businesses, the VAT fuel scale charges were updated on 1 May. These charges should be used on your VAT return to account for private consumption of fuel on a business vehicle.

Find out about the new charges

at [bit.ly/vat-fuel](https://bit.ly/vat-fuel) ■



## WARNING OVER THE SCHEMES TO STAY AWAY FROM

HMRC acquired new powers in the 2022 Finance Act that allow them to publish information about tax avoidance schemes much

earlier than before. They exercised this power for the first time on 7 April when they issued a statement naming two schemes and their

promoters which involved avoidance of income tax and national insurance for contractors.

Needless to say, you shouldn’t be involved

in any such schemes in the first place and if any “tax mitigation” you’re offered looks too good to be true it almost certainly is!

# Putting conflict avoidance under the microscope

The state of disputes in the industry, the importance of CAP and the tools used to implement it were all discussed by experts in an informative webinar as interest in the process grows

## MAKE LINK TO GREATER HARMONY

I'd like to remind you to join a LinkedIn group which encourages businesses to work collaboratively and manage disputes at an early stage.

Created by the Royal Institution of Chartered Surveyors (RICS), the Conflict Avoidance Community is an open group for current and potential signatories of the Conflict Avoidance Pledge.

More than 450 individuals and organisations have joined the group, which the RICS hopes will build a strong community who can support each other.

Find out more and sign up at [bit.ly/CAC-LI](https://bit.ly/CAC-LI)



**WORDS**  
**LEN BUNTON**  
FRICS FCI Arb,  
HON FRIAS  
Contract Expert



**W**ITH interest in the Conflict Avoidance

Process (CAP) gathering pace, SELECT Members have the chance to watch an informative webinar covering the topic, in which I was a guest speaker.

The session, held on 28 April by Barton Legal, saw me join Martin Burns of the Royal Institution of Chartered Surveyors (RICS) and Paul Cacchioli, Director of HKA.

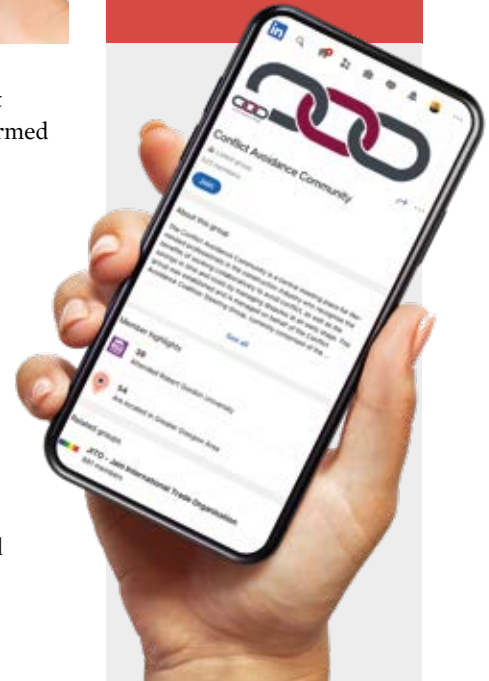
Paul discussed the current state of disputes in the industry, with reference to the HKA's integrated research programme. Martin and

I then shared how the Conflict Avoidance Community was formed and the aims of the Conflict Avoidance Pledge.

The session ended with a review of the tools used by the community and the importance of implementing CAP in business culture and supply chains.

You can watch it again at [bit.ly/barton-cap](https://bit.ly/barton-cap)

I also spoke in a second webinar, hosted by RICS on 1 June, which gave a high-level overview of CAP and was watched by hundreds of delegates from across the UK construction industry.



## NEW ACCOUNT BOOSTS £72M HEALTH HUB

I was delighted to play a part in creating a project bank account (PBA) that will be used in the

construction of a new £72 million healthcare facility in Glasgow.

The project, due for completion in 2024, is being delivered by hub West Scotland on behalf of their partners NHS Greater Glasgow and Clyde

(NHSGGC), along with Glasgow City Health and Social Care Partnership, Glasgow Life and Glasgow City Council.

NHSGGC, hub West Scotland and BAM worked with me, Scottish Futures Trust and Royal Bank of

Scotland to establish the PBA, which will act as a learning ground for future projects.

As the first hub project to fully adopt a PBA, it marks a significant step forward in ensuring timely payment for the supply chain involved.



# Summer CARNIVAL

Saturday 25 June, 12–4pm

The Walled Garden, Bush Estate,  
Midlothian EH 26 0SB

Adults £3 • Children £2

*Raffle, tombola, face painting, children's entertainer,  
hook-a-duck, coconut shy and so much more!*



Raising money for the  
Electrical Industries Charity

For tickets, email: [charityevents@select.org.uk](mailto:charityevents@select.org.uk)





Our legal experts answer some of the most common queries about contractors

# A question of contracts

WORDS  
DAVID WILSON  
Partner



MACROBERTS  
LLP

**I**N THE UK, construction law is made up of several bodies of law, making it a complex area of practice. This is the second in a series of articles which seek to provide a brief overview of some frequently asked questions in the industry and in relation to the laws which govern it. Specifically, we take a look at queries from the point of view of a contractor here:

## Does the contractor lose their entitlement to an 'extension of time' if they fail to submit the appropriate notices required under the contract?

Generally, if the contractor fails to serve an adequate delay notice this will not result in the loss of rights to an extension of time unless the contract expressly stipulates a notice must be served to access such a right (which some do).

## Is there an automatic right to the recovery of loss and expense where a contractor is granted an 'extension of time'?

It is a common misconception that where an extension of time has been granted, there will be an automatic right to the recovery of loss and expense. Under most standard form contracts, a contractor is generally not entitled to the recovery of loss and expense where an extension of time has been granted. Often the entitlement to loss and expense is found under a separate contractual provision and must be separately complied with.

## Is a contractor entitled to payment for 'loss of profit' as part of a monetary claim?

A contractor will normally be entitled to payment for loss of profit where they can demonstrate that they were prevented from earning profit elsewhere, in the normal course of business, and where it can be shown that the lost opportunity derived from the circumstances which gave rise to the claim. There are exceptions to this general approach however, as some standard form contracts specifically exclude profit from monetary claims.

## What is the difference between liquidated damages and penalty clauses, and what impact does their presence have on a contractor?

The terms "liquidated damages" and "penalty" are often incorrectly used interchangeably. As a starting point, one is enforceable, and one is not.

Liquidated damages are intended to be a reasonable and genuine pre-estimate of the losses the employer is likely to incur if the work is completed late. Liquidated damages become enforceable at the point which the contractor completes work late due to their own default. Where correctly incorporated into construction contracts, liquidated damages are enforceable.

Alternatively, a penalty is a sum included within the contract which is intended to penalise the contractor and is far greater than the employer's estimated loss. Such a sum is unenforceable.

The enforceability of liquidated damages (and the unenforceability of penalty clauses) protects contractors from having to unfairly recompense an employer excessively beyond that which is a reasonable estimate of loss.

As with any construction project, the precise facts and circumstances are important when considering many of the foregoing issues, so it is always important to involve your solicitor early in the process.

For any advice on your contractual rights/obligations, or alternatively for any advice in relation to dispute resolution, please feel free to get in touch with a member of our construction department. ■

**"IT IS A COMMON MISCONCEPTION THAT WHERE AN EXTENSION OF TIME HAS BEEN GRANTED, THERE WILL BE AN AUTOMATIC RIGHT TO THE RECOVERY OF LOSS AND EXPENSE"**



**LEGAL  
HELPLINE  
0141 303 1111**

As a Member of SELECT, you have access to the Legal Helpline operated by MacRoberts LLP. This helpline covers advice and assistance on commercial, contractual and employment matters under Scots law which concern your business.

# SJIB Bulletin



↑ The portal is quick and easy to use

## OUR ONLINE PORTAL IS THE WAY AHEAD

From 1 January 2022, almost 50% of card renewal applications had been completed online using our ECS Portal.

This is the quickest and easiest way to apply for a new card, with details automatically entered into our system. Using it also means you can upload a photo and any training certificates instantly, without posting them to us.

Applications for an initial electrician's card upon completion of an apprenticeship are still currently accepted via paper only, but we're looking to update this very soon.

In the meantime, if you're looking for a new ECS Card, please visit the portal at [select.org.uk/SJIB](http://select.org.uk/SJIB)

## Getting it right first time with your new ECS Card application

**W**E'RE using this first column to remind

you that the health and safety requirements have changed for the following new cards:

- Electrical Labourer or Operative
- ECS Related Discipline
- ECS Site Support
- ECS Manager.

You must provide evidence of appropriate health and safety training and the ECS Health, Safety and Environmental (HS&E) Assessment **WON'T** be accepted.

As the criteria for these cards have changed, even if you've had one in the past you should complete an initial application and ensure you meet the new criteria, especially the health and safety requirements.

Applying to complete the

ECS HS&E Assessment won't be accepted and will delay applications.

If you're applying for a new **Electrical Labourer or Operative card**, you must provide evidence that you've completed one

↓ Health and safety training is a vital part of our profession



## CARDS ARE A SMART MOVE FOR SITE MANAGERS

All ECS Cards issued from 4 May onwards are now smart cards, complete with a QR code that contains the holder's identity, qualifications and training.

Site managers can scan the code using a phone or tablet and instantly read this information to ensure the cardholder is qualified for the job.

Smart cards won't be scanned in Scotland, and are currently only for use in England, Wales and Northern Ireland, but all SJIB-issued ECS Cards WILL contain the QR code, in case the holder does any work south of the border.



## "THE CRITERIA FOR THESE CARDS HAVE CHANGED, SO EVEN IF YOU'VE HAD ONE IN THE PAST YOU SHOULD COMPLETE AN INITIAL APPLICATION AND ENSURE YOU MEET THE NEW CRITERIA, ESPECIALLY THE HEALTH AND SAFETY REQUIREMENTS"

of the following in the past three years:

- SELECT Electrotechnical Site Safety Assessment (TESSA) course
- CCNSG Safety Passport – National or Renewal course
- CITB Health and Safety Awareness: Site Safety Plus
- IOSH Working Safely (IOSH approved centre classroom invigilated exam only)
- IOSH Safety, Health and Environmental for Construction Site Workers (IOSH approved centre classroom invigilated

exam only)

- Safety Passport Alliance (SPA) Core Health and Safety course.

Applying for a new **ECS Related Discipline card?** You'll need evidence that you've completed the SELECT TESSA course within the last three years.

And if you want a new **ECS Site Support card**, you must prove that you've completed one of the following in the past three years:

- SELECT TESSA course
- CCNSG Safety Passport – National or Renewal course
- CITB Health and Safety Awareness: Site Safety Plus
- IOSH Working Safely (IOSH Approved centre classroom invigilated exam only)
- IOSH Safety, Health and Environmental for Construction Site Managers (IOSH approved centre classroom invigilated exam only)
- Safety Passport Alliance (SPA) Core Health and Safety course.

Finally, if you're applying for a new **ECS Manager card**, you must provide evidence that

**REMEMBER!**

Our small team is still extremely busy and receiving a high volume of calls every day, but we'll always try our hardest to answer queries as quickly as possible. The best way to get in touch with us is the 'Contact Us' form at [sjib.org.uk](http://sjib.org.uk) which ensures your query goes directly to the team member responsible.



↑ A variety of courses is on offer to enhance your skills

you've completed one of the following in the past three years:

- CCNSG Safety Passport – Supervising/Leading a Team Safety course
- CITB Site Management Safety Training Scheme (SMSTS)
- CITB Site Supervisor Safety Training Scheme (SSSTS)
- IOSH Safety for Directors
- IOSH Safety, Health and Environmental for Construction Site Managers
- NEBOSH Diploma in Occupational Safety
- UK Degree level Health and Safety qualification.

In all of the above, the ECS HS&E Assessment **WON'T** be accepted when applying.

To find out more and apply for a card online, visit the ECS Portal at [www.select.org.uk/SJIB](http://www.select.org.uk/SJIB)

Copies of all relevant certificates and documentation must be uploaded or the application and card issue will be delayed.



### WATCH OUT FOR GUIDANCE VIDEO COMING SOON

We're currently putting the finishing touches to a new guidance video about ECS Cards, which we hope to launch soon. Developed with the SELECT Membership and Communications team, the tutorial offers a step-by-step demonstration of how to apply for a card and answers some common questions from Members. Watch this space!



**ABOUT SJIB**

SJIB regulates relations between employers and employees engaged in the Scottish electrotechnical industry. To find out more about SJIB and its work, call **0131 445 9216**, or visit [www.sjib.org.uk](http://www.sjib.org.uk)



# SECTT Update



↑ Barry (right) from TIS hands over the new safety gear to David

## SIMPLY THE TEST AS ASSESSMENT CENTRES GIVEN TOP SAFETY KIT

SECTT's assessment centres recently received a generous donation of voltage tester, proving unit and safety lockout kits courtesy of SELECT Associate Member Test Instrument Solutions (TIS).

David Henderson, SECTT Assessment Centre Manager, received the TIS 851 SIKIT kits from TIS Area Manager Barry McKenzie during a visit to the centre at Edinburgh College.

David said: "Thanks to TIS, we will be able to continue stressing the importance of safe isolation to all learners and I'm sure the equipment's quality, design, robustness and ease of use will be welcomed by everyone who uses it."

## Lecturers' toolkits are Klein gesture



**K**LEIN Tools have teamed up with SECTT to donate toolkits to approved centres to help lecturers demonstrate best practice to apprentices during workshop studies.

More than 30 of the kits, which are worth up to £600 each, are currently being distributed throughout Scotland by the market-leading manufacturer.

Malcolm Duncan, UK Managing Director of Klein Tools, said: "We're proud to support both SECTT and the inspirational lecturers that are vital to the continued development of our industry."

"If you deliver the best training you should be using the best tools and this kit has everything

that a lecturer needs to show apprentices the high standard they should aspire to during their career."

Barrie McKay, SECTT Training and Development Manager, said: "The support from Klein Tools over the last few years has been brilliant and we really appreciate this latest venture."

"We are currently reminding apprentices of the importance of maintaining a quality toolkit, as we all know that having the right tool for the job makes it easier."

↑ West College Scotland receive their Klein kits

**"THE SUPPORT FROM KLEIN TOOLS OVER THE LAST FEW YEARS HAS BEEN BRILLIANT AND WE REALLY APPRECIATE THIS LATEST VENTURE"**

## FOCUS ON TRAINING AT COLLEGE CONSORTIUMS

SECTT has been holding college consortiums around Scotland for the first time since the pandemic, helping staff discuss training and the development of coursework. Local employers were also invited along to ensure a fresh

outlook on training matters, with Andy Mair (CHES Group), Neil Jones (HF Electrical), Martin Gemmell (Magnus Electrical) and Graeme Lawson (CableCom Electrical) among those who attended. In addition, representatives

from Aico discussed their apprentice training partnership with SECTT, with Gregor Morrison and Dave Richmond outlining the invaluable support they provide in training the next generation on home safety.

↓ The talks were the first since the pandemic began more than two years ago



## Best practice is on show again as college workshops take delivery of safe isolation posters

SECTT is continuing to hand out SELECT's safe isolation posters to college workshops and classrooms across Scotland to encourage good working practices.

Training officers have also been busy delivering the special toolbox cards to apprentices and encouraging them to keep them on site to refer to.

In addition, SECTT is working with colleges to put forward a standardised procedure for apprentices to follow when isolating circuits to help make the industry safer.



↑ Showing off SELECT'S posters

### UPGRADES CATER FOR TRAINEES

West Lothian College is among the SECTT training centres currently upgrading their facilities to accommodate the increasing number of electrical apprentices and adult trainees.

The Livingston-based facility has installed a number of dedicated booths as part of a newly constructed electrical installation workshop to equip learners with the most up-to-date technology.

Steven Morrison, Learning and Skills Manager at the college, said: "The new set-up will allow us to continue to grow



↑ The college's workshop

and meet industry demand and will be kitted out for the new groups in August."

Barrie McKay, Training and Development Manager at SECTT, said: "This is an excellent resource and it's great to see colleges stepping up to accommodate the high numbers now coming into the trade."

### ABOUT SECTT

SECTT manages high-quality training on behalf of the SJIB. To find out more about SECTT and its work, call 0131 445 5659, email [admin@sectt.org.uk](mailto:admin@sectt.org.uk) or visit [www.sectt.org.uk](http://www.sectt.org.uk)

## THE TALENT OF TOMORROW

### Jack Anderson

AGE: 20

POSITION: 2nd Stage Apprentice Electrician

WORKS: Paul Hickey Electrical Ltd

STUDIES AT: West College Scotland

HOBBIES: Loves to go and watch the football with his friends

#### WHAT MADE YOU THINK OF BECOMING AN ELECTRICIAN?

I wasn't really an academic person, so I left school when I was in fifth year and studied electrical engineering at college. I was quite interested in physics and things like that, so I was led by that and eventually ended up getting an apprenticeship.

#### WAS IT DIFFICULT TO GET AN APPRENTICESHIP?

I was looking about quite a bit before I found one. It was actually someone who already knew me and knew my boss who then ended up getting me my apprenticeship.

#### HOW HAVE YOU FOUND IT?

At the start it's a lot more difficult, but as you get into it it's not too bad. My advice to others would be

that when you first start, it might be really tough because you don't know everything but just persist and push through it and

it'll get better. I've actually won the college's Apprentice of the Year award two years in a row. I hadn't expected it at all, so I'm delighted.

#### WAS THE COLLEGE TRAINING WHAT YOU EXPECTED? WHAT DO YOU ENJOY THE MOST AND WHAT'S THE MOST CHALLENGING?

It was a bit easier than I expected. I was quite fortunate because the company I work for tends to do a lot of hands-on work. I like being in the college with the boys because I get on well with everyone. The most challenging part is probably when it's a day of just looking at slideshows. It can go on quite a bit!

#### HOW ABOUT WORKING ON SITE?

I really enjoy working on site - it's where I enjoy being the most.

#### IS THERE ANYTHING ABOUT THE JOB THAT'S SURPRISED YOU?

Not really - I expected it to be what it was. My dad's a fitter and he told me what the workload was like.

#### HOW HELPFUL HAVE SECTT AND YOUR TRAINING OFFICERS BEEN?

My training officer, Frankie Greg, has been really helpful. Frankie helps out when I'm struggling with anything and if I message him he gets back to me as soon as he can.

#### WHAT DOES THE FUTURE HOLD?

Ideally I'd want to stay with Paul Hickey Electrical Ltd because I'm enjoying it. I think there's a lot to be said for working for Paul. He's a great boss. I really enjoy the industry and hope I've got many more good years in it.





# TECHTALKS

In Partnership With **IET** The Institution of Engineering and Technology

**18<sup>TH</sup> EDITION – 2<sup>ND</sup> AMENDMENT**  
**FIND OUT WHAT'S CHANGED AND HOW IT WILL AFFECT YOU**



**FREE** to attend



**FREE** 10% Online discount



**FREE** parking



**FREE** 18<sup>th</sup> Edition TechCards



**FREE** breakfast roll



**FREE** prize draw



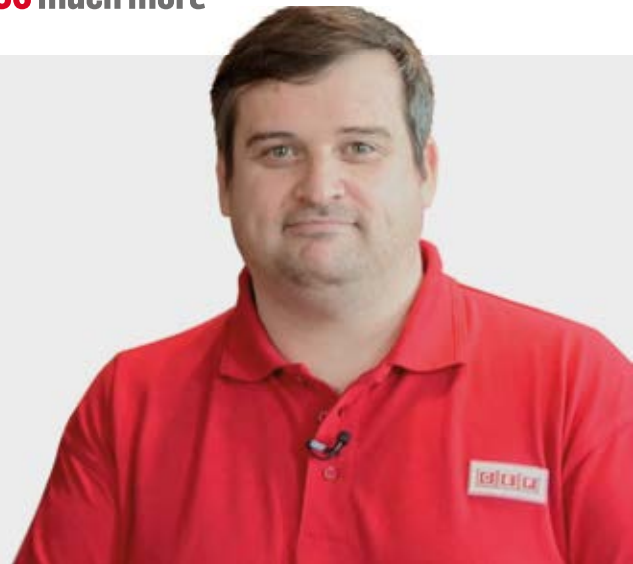
**CPD** accredited



**PLUS** much more

**PRESENTED BY**

**DARREN  
STANIFORTH**

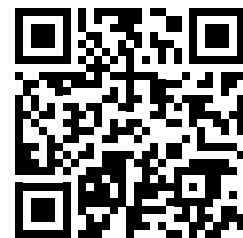


YOUR ELECTRICAL EXPERTS



# Book your place today

## [cef.co.uk/tech-talks](http://cef.co.uk/tech-talks)



|            |                                  |
|------------|----------------------------------|
| Aberdeen   | Wednesday 29 <sup>th</sup> June  |
| Belfast    | Wednesday 6 <sup>th</sup> July   |
| Cardiff    | Tuesday 10 <sup>th</sup> May     |
| Chelmsford | Tuesday 24 <sup>th</sup> May     |
| Cheltenham | Tuesday 21 <sup>st</sup> June    |
| Dundee     | Monday 27 <sup>th</sup> June     |
| Edgware    | Wednesday 13 <sup>th</sup> April |
| Edinburgh  | Thursday 30 <sup>th</sup> June   |
| Exeter     | Wednesday 11 <sup>th</sup> May   |
| Glasgow    | Friday 1 <sup>st</sup> July      |
| Guernsey   | Wednesday 20 <sup>th</sup> July  |
| Hull       | Thursday 9 <sup>th</sup> June    |
| Inverness  | Tuesday 28 <sup>th</sup> June    |

|            |                                 |
|------------|---------------------------------|
| Jersey     | Tuesday 19 <sup>th</sup> July   |
| Kettering  | Thursday 26 <sup>th</sup> May   |
| Leeds      | Wednesday 1 <sup>st</sup> June  |
| Liverpool  | Wednesday 15 <sup>th</sup> June |
| Maidstone  | Wednesday 18 <sup>th</sup> May  |
| Newcastle  | Wednesday 8 <sup>th</sup> June  |
| Newmarket  | Wednesday 25 <sup>th</sup> May  |
| Nottingham | Tuesday 31 <sup>st</sup> May    |
| Portsmouth | Thursday 19 <sup>th</sup> May   |
| Preston    | Tuesday 7 <sup>th</sup> June    |
| Reading    | Wednesday 22 <sup>nd</sup> June |
| Rotherham  | Thursday 16 <sup>th</sup> June  |

**PLUS**

# OUT NOW

The latest deals & special offers now available at CEF



Grab your copy in-store or visit [cef.co.uk/deals](http://cef.co.uk/deals)



# ProZone



## FORT – THE COMPLETE SMART SECURITY RANGE FROM ESP

Leading security solutions supplier ESP is enjoying continued success with its Fort smart security range.

Fort is a complete range of smart security products, which includes intruder alarms, video doorbell, video security light, sensors and a selection of 1080p cameras. They will all operate under a single app – the Click Smart+ app – which will be subscription-free. Users will have control of a raft of connected home and security products all from one secure, easy to access platform.

➔ ESP has produced an A4 brochure showcasing the whole range which can be downloaded at [www.espuke.com](http://www.espuke.com). A video can be viewed at [youtu.be/3vy3N1unvHI](https://youtu.be/3vy3N1unvHI)



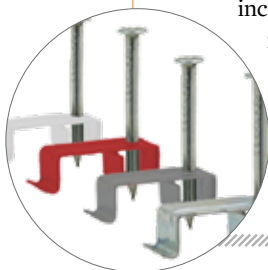
## UNICRIMP INTRODUCES NEW RED AND WHITE FIRE-SAFE METAL CABLE CLIPS

Unicrimp, part of the Scolmore Group of companies, offers an extensive range of cable accessories.

The company has just extended its range of 18th Edition compliant fire-rated metal twin and earth cable clips to include red and white options.

The clips are made of zinc plated carbon steel and are available in two sizes – 1-2.5mm and 4-6mm – and in a choice of uncoated or with a grey PPA LSF coating.

➔ For further information contact Unicrimp on 01827 300600, [sales@unicrimp.com](mailto:sales@unicrimp.com) or visit [www.unicrimp.com](http://www.unicrimp.com)



➔ The Novaline Style can be suspended with an elegant rod or wire suspension pendant



## Thorn's Novaline makes style simple

**T**HORN Lighting is pleased to introduce the new Novaline Style, a chic luminaire that can be wall or ceiling mounted, or suspended with an elegant rod or wire suspension pendant.

Novaline Style has an IP54 water splash resistance and an IK08 for a high degree of protection to deliver efficient lighting, even in outdoor covered walkways.

Easy to optimise, its functionality can be increased from a simple switchable range to a fully adaptable one with wireless controls.

Integrated wireless communication allows for Bluetooth control and commissioning and it is also

available with an emergency lighting mode via a self-contained or central battery.

The slim, circular Novaline Style luminaire comes in three dimensions, 320mm, 400mm and 500 mm, with a frame depth of just 37mm.

High-quality housing comes in three different colour options – black, white and silver – with outputs ranging from 1400 lm to 5000 lm. An opal optic provides comfort, and a 10% indirect backlight washes surfaces with the best effects when surface mounted.

Another attractive feature is its quick fix mounting system, which reduces installation time, making the process fast and simple.

➔ For further information, go to [bit.ly/thorn-nov](https://bit.ly/thorn-nov)

## APP MOVE IS HELPING BSG HUB PUT SAFETY FIRST

The Building Safety Group's innovative BSG Hub is now available to use as a mobile app, which SELECT Members

can access via tablets, smartphones and other mobile devices.

Users can complete risk assessments, method statements and COSHH assessments by logging in with the same username and password currently used for desktop devices.

Health and safety documents, toolbox talk

videos, HSE Blitz notices and safety alerts are also available to view through the app.

The app is available to download on the Android platform through Google Play and on Apple devices via the App Store.

➔ Find out more at [bsgltd.co.uk](http://bsgltd.co.uk)



**CONTACT OUR TEAM TO SHOWCASE YOUR GREAT NEW PRODUCTS HERE**

David Hughes: 07767 407 402  
davidh@connectcommunications.co.uk

**BECOME AN ASSOCIATE MEMBER**

To inquire about becoming an Associate Member, email  
memberservices@select.org.uk

# Thermostat is Flexel's hot offering

**FLEXEL** has launched the MCD3 full-featured digital thermostat, designed to the highest standards for control of electric underfloor heating (UFH).

Meeting all requirements of the European Eco-design Directive, the thermostat helps lower the environmental impact by eliminating power wastage, as well as reducing energy consumption and cost of heating.

The flexible built-in 4 Event Heating Schedule lets customers tailor the heating to their specific needs for the day and week, intuitively and hassle-free. And if plans change, the Manually Override function allows them to change the heating to match their actual needs with the push of a button.

The unit also offers an intelligent Adaptive Start function which automatically adjusts the heating to a specific environment, ensuring the right temperature at the right time. With the



built-in Open Window function activated, the MCD3 also helps save energy by pausing the heating when a sudden temperature drop happens, e.g. when a window is opened.

The MCD3 unit comes with a floor sensor probe for use with Flexel's UFH products and air sensing option for use with its infrared heaters.

↑ The MCD3 device is eco friendly and reduces the cost of heating

➔ Find out more at [www.flexel.co.uk](http://www.flexel.co.uk)

## SNICKERS' NEW LIGHTWEIGHT WORK SHORTS PROVIDE COOL COMFORT ON SITE THIS SUMMER

Snickers' lightweight work shorts are designed to deliver superior comfort and freedom of movement.

Great for summer working on site, these shorts have a street-smart fit with a cool working comfort in warm conditions. They're made of quick-drying



↑ The LITEwork Work Shorts have a street-smart fit and are made of a special high-tech fabric

37.5° technology fabric that delivers efficient moisture transport, ventilation and UPF40

sun protection in sunny weather. They're packed with comfort and functionality and specially designed for the fast-paced professional who's always on the go and always delivering top class work on site. For professionals who rely on their gear in demanding environments, they're a must for everyone who wants the ultimate in cool comfort this summer.

➔ For more information on Snickers Workwear's LITEWork range and its sustainability philosophy you can call the helpline on 01484 854788, check out [www.snickersworkwear.co.uk](http://www.snickersworkwear.co.uk) or email [sales@hultaforsgroup.co.uk](mailto:sales@hultaforsgroup.co.uk)

## SIMPRO GUIDES PUT A FOCUS ON EFFICIENCY

Software firm simPRO has begun releasing business guides to help you run your business more efficiently, with a range of sales

and operations guides now available.

➔ To find out more and optimise your processes, go to [bit.ly/simpro-guide](http://bit.ly/simpro-guide)

### OUR ASSOCIATE MEMBERS



# How to ease your cashflow headache

Getting paid on time is one of the most problematic parts of running a business. But a raft of new software solutions mean it's easier than ever to invoice customers and keep track of your bills

**D** ID you know that a study from a US bank found that 82% of businesses cite poor cash flow management as a reason for failure?

Here are three tips to ensure that your electrical business runs smoothly and maintains proper cash flow.

## ENSURE CLARITY WITH CENTRALISED DATA

Do you dream of being able to deep dive into each job, look at dispatch times, track how long invoices take and measure how often you receive payments? Well, dream no more! Job management software allows you to gain clarity by organising all business information in one place. Gone are the days of searching aimlessly through piles of spreadsheets for the answers you need to make business decisions.

Having multiple systems that do not link well is inefficient. Even worse, paperwork could be outdated in your systems yet still in use.

With business data in one location, you can achieve better clarity on where cash is coming and going.

## SPEED UP INVOICING WITH SOFTWARE

Implementation of all-in-one software is the first step to greatness. Next, you can make it easier to invoice customers and collect payments.

With invoicing software, you can set up automatic invoicing for recurring jobs and even integrate it with your accountancy package to access the most accurate financial data from your business.

Some software tools even give your engineers the power to create and send invoices on-site. A process like this will



## "GONE ARE THE DAYS OF SEARCHING AIMLESSLY THROUGH PILES OF SPREADSHEETS FOR THE ANSWERS YOU NEED TO MAKE BUSINESS DECISIONS"

save your staff time and ensure invoices are sent to customers as soon as possible, which in turn helps speed up payment.

## OFFER FLEXIBLE PAYMENT OPTIONS

National Australia Bank's *Supporting Economic Recovery* report highlights that 53% of small businesses aren't being paid on time.

The solution? Offer customers multiple ways to pay so that they can choose which

payment option works best for them. For example, this could include accepting credit cards in the field through systems such as Square or taking payment over the phone.

simPRO is a leading field service management software solution for service, project and maintenance contractors. simPRO helps your business connect the office to the field, deliver exceptional customer service and gain valuable insights with automated processes, streamlined workflows and in-depth business reporting. Achieve complete business visibility with this comprehensive end-to-end solution.

➔ Visit [www.simprogroup.com/select](http://www.simprogroup.com/select) to learn more.





↑ The qualification is a one-day course and is part of Aico's FIA CPD-accredited Expert Installer training

# Aico fires up new alarm system qualification

**A**ICO has expanded its educational offering with the launch of their City & Guilds Assured qualification on domestic fire and carbon monoxide (CO) alarm systems.

The qualification is a continuation of Aico's FIA CPD-accredited Expert Installer

training, which provides installers with the essential knowledge to correctly install Aico fire and CO alarm systems and environmental sensors.

The one-day course focuses on the design, installation, maintenance, interconnection, siting, and electrical connection of Aico domestic alarm systems.

The qualification has a mixture of theory-based

and practical sessions and concludes with a multiple-choice assessment, that must be successfully completed to earn the City & Guilds qualification.

To be eligible, participants must have completed Aico's Expert Installer training and be a member of the Aico Installer Community.

➔ To find out more and sign-up, visit [bit.ly/aico-city](http://bit.ly/aico-city)

## OUR ASSOCIATE MEMBERS



## SCOLMORE STEPS UP WITH AFDDS BOOST FOR THE ELUCIAN BY CLICK COLLECTION

Among the significant changes included in the Amendment 2 to BS 7671:2018 (18th Edition of the IET Wiring Regulations) is a new requirement for arc fault detection devices (AFDDs) in AC final circuits supplying socket-outlets in some types of higher risk residential buildings.

Scolmore is pleased to announce that it has added a comprehensive range of AFDDs to its Elucian by Click consumer unit and protective

devices collection. The new range comprises Type A 1 Pole + Neutral True 6 kA B Curve and C Curve 30 mA Trip AFDDs with integral RCBOs, which are available in 6 A, 10 A, 16 A, 20 A, 32 A and 40 A, with 450 mm neutral out tails.

Some key features and benefits of the Elucian AFDDs with integral RCBOs are:

- Arc fault detection – providing a form of protection that pre-existing devices that are mandatory as part

of the 18th Edition wiring regulations cannot provide.

- Fault reporting – report five different types of fault conditions. Each fault condition has its own unique LED flashing sequence pattern that signifies the reason why the AFDD has tripped.
- Self-test – in-built self-test function to ensure the device is fully operational.
- Green LED indication – for a clear, visual representation.



➔ Full details of the Elucian by Click consumer units range can be viewed on the Scolmore website [www.scolmore.com/products/elucian/](http://www.scolmore.com/products/elucian/). The Elucian brochure can be downloaded at [www.scolmore.com/\\_pdfs/elucian-brochure.pdf](http://www.scolmore.com/_pdfs/elucian-brochure.pdf)

## ALL SET FOR SUMMER WITH OVIA'S GARDEN LIGHTING RANGE



As we approach the warmer days and longer evenings, Ovia has a range of garden lighting products to help your clients get their outdoors summer ready.

A collection of wall lights, spike lights and bollards make up the range, ensuring all areas of the garden can benefit from a new lease of light. The majority of the range is available in cool white 4000k and warm white 3000k colour options.

The range sits within Ovia's Amenity Lighting category. There are seven different wall light designs in the range, including:

- Twist – an innovative IP65 11W up and down wall light with integrated cool

white LED output.

- Verta – an IP54 cylindrical up or down LED wall light.
- Centuri – 7W IP54 boxed LED wall light.
- Orna – 7W IP54 square, up and down LED wall light.
- Quadra – 10W IP54 rectangular LED wall light.
- Avori – 15W max, IP54 boxed wall light.
- Spear – a 7W IP65 LED spike light.
- Tribus – a 7W IP54 LED bollard available in 350mm or 750mm height.

➔ Ovia's Amenity/Garden Lighting collection can be viewed in full on the Ovia website – [www.oviauk.com](http://www.oviauk.com) or download the latest Ovia issue 3 catalogue at [bit.ly/ovia\\_catalogue](http://bit.ly/ovia_catalogue)

## Put TIS's award winning EVSE kit to the test

**THANKS** to its quality electrical and environmental test and measurement apparatus, TIS is witnessing substantial growth, particularly in its award-winning EVSE equipment.

The TIS portfolio now includes multi-string solar PV testers, irradiance meters and power quality analysers, along with voltage and current logging equipment.

All-important safe isolation kits, multimeters, clampmeters, lightmeters, test leads, certificate pads, PATs, MFTs, calibration checkboxes, thermometers, thermal imaging

cameras, inspection cameras and data testing products are also available.

New items of note are a CO2 meter which allows the monitoring of fresh air quality in enclosed spaces, plus a leakage clampmeter that measures DC and AC leakage current – important for use in solar PV, EV and battery storage applications.

TIS also employs seven full-time technical sales professionals, all of whom are on hand for site visits.

➔ To find out more, visit [www.testinstrumentsolutions.co.uk](http://www.testinstrumentsolutions.co.uk)



➔ The EVSE equipment range has seen strong growth in sales

## POWER UP FASTER WITH THE 30W TYPE C USB WALL SOCKET FROM BG ELECTRICAL

BG Electrical has developed a 30W Type C USB wall socket, one of the most powerful of its kind.

This latest innovation is a true fast-charging wall socket with integrated fast-charge ports for both USB-C and USB-A.

Delivering true fast-charging of mobile phones, small laptops and tablets, BG's superior solution can deliver a 50% charge in just 30 minutes for mobile devices and 60 minutes for tablets – 70% faster than standard



5W charging. Integrated smart charging automatically switches the socket to standby mode once the device is fully charged, eliminating any potential damage caused by overcharging.

➔ Find out more at [www.bg-type-c.uk](http://www.bg-type-c.uk)

## CPNI CUDIS

Meet the latest wiring regulations with Cudis

We offer a wide range of products to support compliance to Amendment 2 of the 18th Edition regulations



sales@cudis.co.uk

0161 989 5636

[www.cudis.co.uk](http://www.cudis.co.uk)

↓ The new Pacific LED gen5 is ideal for factory environments with its robust architecture



# Get up and glow with Signify's Pacific LED

**S**IGNIFY has launched the latest generation of its Pacific LED gen5 waterproof luminaire, designed for optimal performance in demanding environments.

Suitable for a wide range of industrial applications, the luminaires have a robust and compact product architecture, with high water and dust protection (IP66) and a high degree of mechanical protection (IK08).

Due to its robust architecture, and compliance with industry regulations, the Pacific LED is ideal for warehouses and distribution centres, food processing and pharmaceutical manufacturing, discrete manufacturing, and chemicals and heavy industry. It's also perfect for undercover parking projects.

The Pacific LED portfolio is highly energy-efficient and offers luminaires with a long lifetime; up to 160 lm/W and a lifetime up to 100,000 hours L80. Integration to the Interact Industry system also means the luminaire opens up additional opportunities for optimised efficiency, energy



↓ The luminaire can also be used for undercover parking

saving, connectivity, productivity and safety. Simon Greenwood, Sales Director Trade and Specification, Signify UK&I, said: "The Pacific LED gen5 is an innovative and best-in-class LED luminaire. Designed with a circular approach, they are fully serviceable and can be upgraded to extend their overall lifecycle, making them future-proof in every aspect."

→ For more details visit [bit.ly/pacific-lum](http://bit.ly/pacific-lum)

## EVOLVING CHOICE IN DECORATIVE WIRING ACCESSORIES

Designed with a slim and screwless profile, the new Evolve range from BG complements any modern interior with a stylish appearance.

Available in traditional and contemporary stocked finishes, including pearlescent white,

brushed steel, matt black, matt grey, dark blue, black chrome, satin brass and copper, a wide range of extended finishes is also available.

The Evolve range offers a portfolio of decorative wiring accessories suitable for any domestic or commercial application.

→ For more information, visit [www.bg-evolve.uk](http://www.bg-evolve.uk)



## OUR ASSOCIATE MEMBERS



## FIVE MINUTES WITH...

ERIKA  
FERGUSON

EMPLOYMENT AND SKILLS ADVISER

## HELLO ERIKA. HOW LONG HAVE YOU BEEN AT SELECT?

I started at The Walled Garden around five weeks ago, so not long at all! I'm relatively new to the industry, although I've been in HR for years.

## TELL US A BIT ABOUT YOUR WORK LIFE SO FAR AND HOW YOU ENDED UP AT THE WALLED GARDEN.

Most recently I was a member of senior management for an events venue in Edinburgh, having worked there for 17 years. I was drawn to HR through a love of working with people. Through policy and training programmes I allowed staff to develop their potential and to see their part in the business's goals. Moving to SELECT allows me to help every Member understand what can be a complex aspect to their business.

## WHAT DOES YOUR JOB ENTAIL? TELL US MORE ABOUT WHAT YOU DO.

I look after employment enquiries submitted by Members and will guide them through the required paperwork and legislation determined by employment law. As SELECT are co-founders of the SJIB, I will also advise SJIB members on the National Working Rules and on the Apprenticeship and Adult Training Schemes.

## WHAT'S A TYPICAL DAY LIKE FOR YOU SO FAR?

I believe I'm yet to experience a typical day, which is what makes employment law and this industry so interesting to work in – no two days are the same!

## HAVE YOU HAD THE CHANCE TO MEET SELECT MEMBERS?

I've spoken with a number of Members over the phone, and had the opportunity to meet with a few at the first Toolbox Talk of 2022 at The Walled Garden. This was a fantastic opportunity to see how SELECT supports its Members.

## WHAT HAVE YOU MOST ENJOYED ABOUT YOUR JOB SO FAR?

It's been great to see how Members respond to the guidance and assistance SELECT provides. It's clear Members take their role as employers seriously and are committed to the part they play in the working experience for their employees.

## Quickfire questions:

## Cheese or chocolate?

Chocolate (although that IS a hard one)

## Dog or cat person? Cat!

## First car owned?

Peugeot 2008

Favourite film? *Aliens*

## Favourite TV show?

*Masterchef Australia*

## Favourite holiday spot?

Dubrovnik, Croatia

## Dream date? Any with good food, good wine and strictly adult company!

## One thing people might not know about you? I'm sure it's a secret.....



## Your Branch Officers:

ABERDEEN & NORTH  
EAST OF SCOTLAND

STEWART ANDERSON, Chair  
ERIC RAE, Vice-Chair  
ALICK J SMITH,  
3rd Representative

## AYRSHIRE

JAMES COOPER, Chair  
CHARLES DOBBIE,  
Vice-Chair

DUMFRIES &  
GALLOWAY

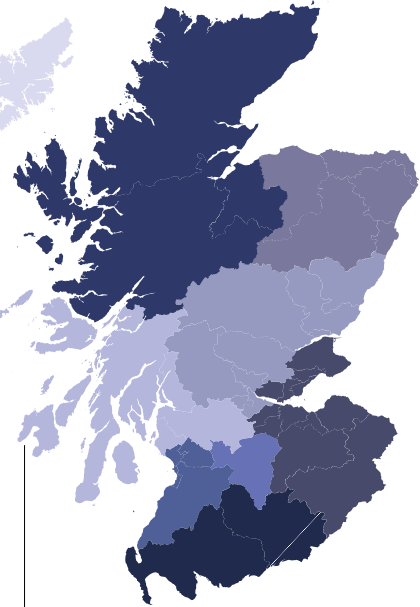
GORDON PATERSON, Chair  
JOHN WILSON,  
Vice-Chair

EDINBURGH & SOUTH  
EAST OF SCOTLAND

GRAEME ANDERSON, Chair  
PAUL ERASMUSON,  
Vice-Chair  
ALASDAIR NOBLE,  
3rd Representative  
CRAIG NEISH,  
4th Representative

GLASGOW & WEST  
OF SCOTLAND

DAVID HARRIS, Chair  
KENNY BERRIE,  
Vice-Chair  
DAVID W H SMITH,  
3rd Representative  
IAN YOUNG,  
4th Representative

INVERNESS & NORTH  
OF SCOTLAND

DONNIE CALDER, Chair  
ALISTAIR GRANT,  
Vice-Chair

## LANARKSHIRE

CRAIG MCGOWAN, Chair  
PAUL SMITH, Vice-Chair  
CHRISTOPHER LIDDELL,  
3rd Representative

## TAYSIDE

TONY HARVEY, Chair  
KEITH SMITH, Vice-Chair  
GRAHAM LYALL,  
3rd Representative

Upcoming  
SELECT  
events:

## CHARITY

25 June – Summer Carnival,  
The Walled Garden

## MEETING

7 September – SELECT  
Central Board, venue TBC

## DINNER EVENT

30 September – President's  
Lunch, Grand Central Hotel,  
Glasgow

## BRANCH UPDATE

3 October onwards –  
SELECT Branch Updates,  
dates and venues TBC

## MEETING

7 December – SELECT  
Central Board, venue TBC

## DINNER EVENT

December – Past  
President's Lunch, venue  
and date TBC

For information about these  
and any other events, please  
email [memberservices@  
select.org.uk](mailto:memberservices@select.org.uk)

**"I'M YET TO EXPERIENCE  
A TYPICAL DAY, WHICH IS  
WHAT MAKES EMPLOYMENT  
LAW AND THIS INDUSTRY SO  
INTERESTING TO WORK IN –  
NO TWO DAYS ARE THE SAME!"**

# Competition

## Carnival wordsearch

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | C | L | S | X | G | N | I | T | N | U | B | F | T | T | W | Q | H |
| C | D | E | U | P | V | S | W | E | E | T | S | D | I | W | F | W | Z |
| L | C | U | P | C | A | K | E | S | Y | D | R | W | C | K | J | C | K |
| O | Z | R | E | L | G | G | U | J | L | K | Q | E | K | G | J | Z | X |
| W | N | N | H | O | T | D | O | G | S | R | I | D | E | S | M | P | S |
| N | C | I | S | U | M | A | W | T | G | B | N | Q | T | L | V | O | W |
| S | D | N | B | X | W | F | A | C | E | P | A | I | N | T | I | N | G |
| R | E | N | I | A | T | R | E | T | N | E | G | G | T | T | P | J | Q |
| C | S | V | J | X | O | A | Y | N | G | L | E | X | F | O | U | T | K |
| O | S | R | F | H | D | S | E | M | A | G | T | N | U | M | M | J | Q |
| C | O | H | N | K | C | U | D | A | K | O | O | H | K | B | C | B | U |
| O | L | V | W | O | G | P | Q | O | I | D | M | N | S | O | A | B | Y |
| N | F | S | S | O | T | G | N | I | R | Z | R | E | Q | L | N | R | O |
| U | Y | J | C | E | L | C | X | D | I | O | Z | M | L | A | T | A | Y |
| T | D | Z | L | K | F | V | D | F | C | I | Q | O | R | T | O | F | U |
| S | N | Q | S | S | Y | E | U | P | R | I | O | G | N | S | S | F | X |
| H | A | A | B | B | K | N | O | P | M | N | E | V | X | Y | S | L | D |
| Y | C | Y | X | D | N | P | V | L | S | L | L | A | T | S | Q | E | Y |

- Balloons
- Bunting
- Candy Floss
- Can Toss
- Clowns
- Coconut Shy
- Cupcakes
- Entertainer
- Face painting
- Fun
- Games
- Hook a Duck
- Hot dogs
- Juggler
- Music
- Popcorn
- Prizes
- Raffle
- Rides
- Ring Toss
- Stalls
- Sweets
- Ticket
- Tombola

Keep up to date with SELECT

Follow SELECT online at:

**Twitter**

@Updates\_SELECT  
@Training\_SELECT  
@Regulate\_SELECT

**Facebook**

SELECT.TheECAofS

**Instagram**

@SELECT\_Trade\_Association

**YouTube**

Visit our websites at:

[select.org.uk](http://select.org.uk)  
[cabletalkmagazine.com](http://cabletalkmagazine.com)  
[selectawards.co.uk](http://selectawards.co.uk)

### Membership Enquiries:

Please phone our membership team on 0131 445 5577 to apply to become a Member of SELECT or if you would like more information about joining. Alternatively you can email us on [memberservices@select.org.uk](mailto:memberservices@select.org.uk) or submit an online enquiry.

### April/May 2022 Answers

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | V | R | O | R | K | N | E | Y | I | E | I | K | G | D | S | S |   |
| V | H | F | E | H | F | T | N | C | Y | X | Q | A | A | T | J | T | M |
| N | Y | T | E | L | C | P | K | S | T | O | B | B | C | V | Y | D | M |
| O | Y | L | D | C | H | V | B | O | N | L | O | X | H | S | Y | M | S |
| X | Q | S | N | U | O | O | P | F | F | I | O | S | E | B | E | C | E |
| Q | N | W | U | V | J | Z | R | F | M | I | K | Y | B | E | B | B | I |
| M | Z | B | B | N | E | T | D | C | J | T | D | W | A | N | P | I | R |
| P | B | O | B | X | N | E | C | D | R | E | B | A | W | R | Q | C | F |
| B | O | D | F | G | G | P | R | N | O | C | J | Y | E | D | B | M |   |
| O | L | K | R | C | V | Y | S | Z | R | H | N | Y | S | V | A | E | U |
| Y | S | H | E | T | L | A | N | O | F | D | M | V | V | N | W | R | D |
| K | I | O | T | T | M | N | U | M | U | X | F | E | T | O | I | X |   |
| U | T | O | C | C | P | A | E | D | I | N | B | U | R | G | H | N |   |
| V | Q | X | X | E | S | B | W | Y | C | X | E | U | C | S | S | E |   |
| F | N | O | P | Z | H | O | O | F | T | A | R | C | A | R | N |   |   |
| F | B | M | A | Y | K | T | C | H | W | J | K | Z | L | L | Y | C |   |
| Y | A | L | S | I | Y | V | V | A | Q | I | E | O | S | G | A | C |   |
| D | I | A | Z | H | Y | L | U | O | S | D | M | Z | H | Z | U | A |   |

Here's your chance to win £50 of Amazon vouchers with our prize wordsearch about carnival treats compiled by SELECT Training Administrator Laurie Burns.

Find the words, take a pic of your finished grid and email it to [memberservices@select.org.uk](mailto:memberservices@select.org.uk) by **15 July**. The winner will be drawn at random. T&Cs are online. Congratulations to April/May 2022 winner **Garry Bloice** from **GSB Electrical Services**.

### Showing now on SELECT TV:

#### EICR CODING

Three-part tutorial on Electrical Inspection Condition Reports (EICRs), and use of classification codes in accordance with BS 7671:2018. Watch Part 1 at [bit.ly/STV-EICR1](http://bit.ly/STV-EICR1) Watch Part 2 at [bit.ly/STV-EICR2](http://bit.ly/STV-EICR2) Watch Part 3 at [bit.ly/STV-EICR3](http://bit.ly/STV-EICR3)

#### CABLE SIZING

This easy-to-follow session demonstrates a method of

calculation in line with the requirements of BS 7671. Watch at [bit.ly/STV-cable](http://bit.ly/STV-cable)

#### HOME OFFICES AND HOT TUBS

This special online Toolbox Talk was held on 7 July 2021, and saw Bob Cairney discuss the rise of hot tubs and home offices during lockdown. Watch now at [bit.ly/TTalk-3](http://bit.ly/TTalk-3)

#### READING THE SMALL PRINT

Professor Rudi Klein explains why it's vital to

check supplier T&Cs, Watch now at [bit.ly/STV-TCs](http://bit.ly/STV-TCs)

#### BIDDING STRATEGIES

In this useful film, we offer exclusive guidance on bidding strategies. Watch now at [bit.ly/STV-matbid](http://bit.ly/STV-matbid)

#### CONFLICT AVOIDANCE PLEDGE

Len Bunton on the benefits of signing the Pledge as part of the Conflict Avoidance Process (CAP), and how it saves money. Watch now at [bit.ly/STV-CAP](http://bit.ly/STV-CAP)

#### TOP TIPS FOR GETTING PAID

Len has some invaluable advice for Members, offering practical pointers including payment schedules, detailed applications and agreeing matters beforehand. Watch now at [bit.ly/STV-paid](http://bit.ly/STV-paid)

#### PROBLEM CLAUSES

Len discusses the pitfalls of hidden clauses, including contract amends, retention issues and payment provisions. He also explains extensions of time. Watch now at [bit.ly/STV-clauses](http://bit.ly/STV-clauses)

# MET1000

ALL IN ONE  
TRUE RMS ELECTRICAL TESTER

# Megger<sup>®</sup>

## MET1000

True RMS Electrical Tester

- LED & LCD Display with self-test
- Detachable Test Probes
- AC/DC Voltage to 1000V
- 200A AC measurement
- True RMS on ACV/ACA
- Phase Rotation
- Single pole test
- Data Hold
- Measures voltage without batteries
- Complies with IEC/EN 61243-3:2014
- IP65

All in One  
True RMS  
Electrical  
Tester

Why  
carry more?

Replace your  
2-pole tester  
with the  
MET1000 and  
do more!

[uk.megger.com](http://uk.megger.com)  
[uksales@megger.com](mailto:uksales@megger.com)

