

# Legislation and Standards

**Presenter: Tony Byrne**

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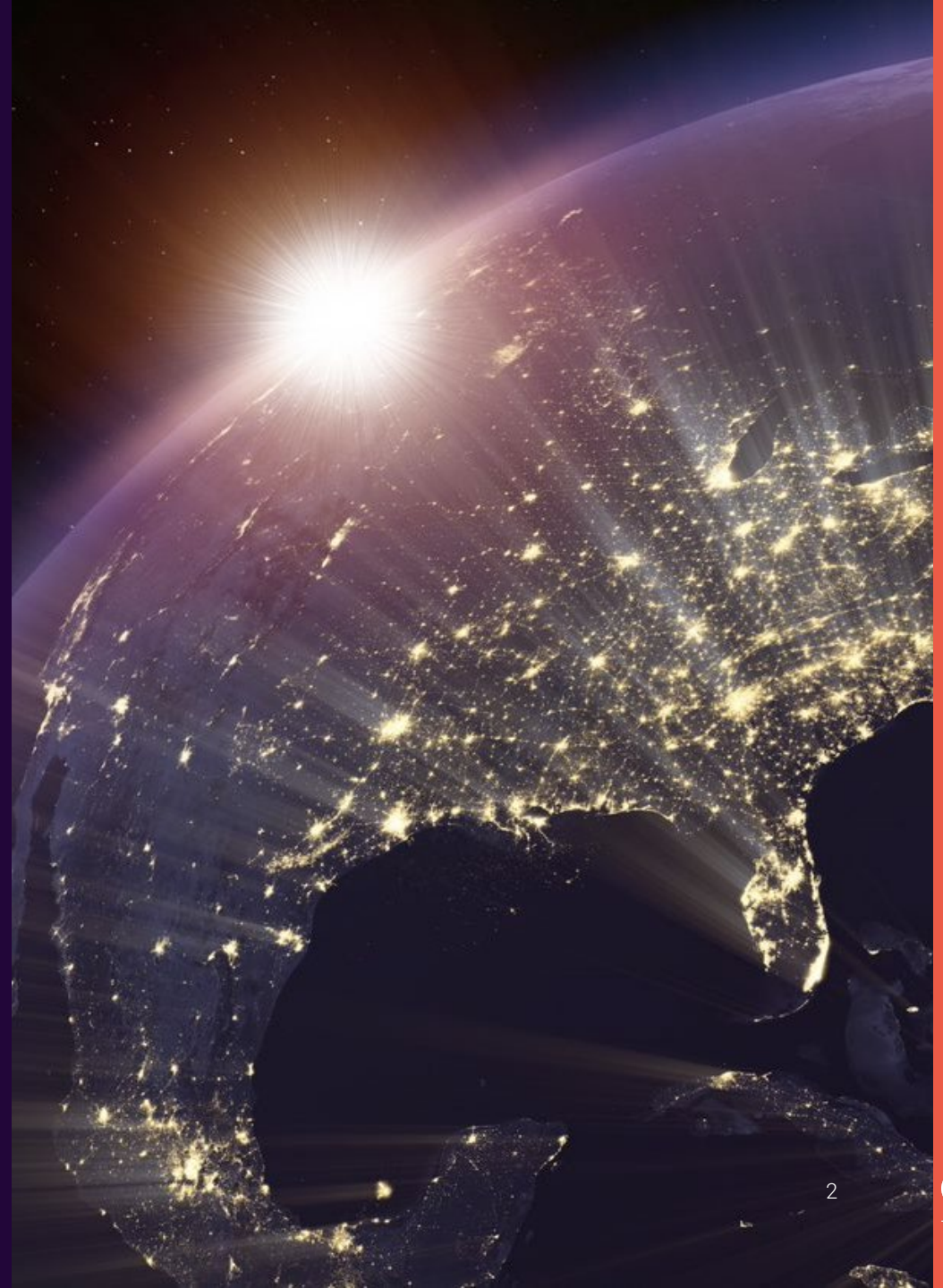
# With you today



**Tony Byrne**

## Lead/Principal Consultant

Tony is a leading expert and a Principal Consultant with EA Technology and works with industrial, utility and generation companies covering a range of competencies.



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# Legislation and Standards

- Documents issued since the last meeting covering HV/LV electrical networks and equipment
    - Regulations (Statutory Instruments)
    - Standards (BS, EN, IEC)
    - HSE Guidance documents
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- Other documents that may be of interest to members
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- Highlight the issue of documents
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- Cannot produce summaries of changes

# Legislation

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# UK Acts of Parliament (1)

- **European Union (Withdrawal) Act 2018**

- An Act to repeal the European Communities Act 1972 and make other provision in connection with the withdrawal of the United Kingdom from the EU
- Came into force 26 June 2018

[http://www.legislation.gov.uk/ukpga/2018/16/pdfs/ukpga\\_20180016\\_en.pdf](http://www.legislation.gov.uk/ukpga/2018/16/pdfs/ukpga_20180016_en.pdf)

- Allows for issue of Statutory Instruments (Regulations) to modify UK legislation
- 191 SIs issued to date
- Search “EU Exit” on <http://www.legislation.gov.uk/>

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# UK Acts of Parliament (2)

- **Nuclear Safeguards Act 2018**
  - An Act to make provision about nuclear safeguards; and for connected purposes.
  - Allows for issue of Statutory Instruments (Regulations) to modify UK legislation
  - Came into force 26 June 2018

[http://www.legislation.gov.uk/ukpga/2018/15/pdfs/ukpga\\_20180015\\_en.pdf](http://www.legislation.gov.uk/ukpga/2018/15/pdfs/ukpga_20180015_en.pdf)

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# UK Statutory Instruments (1)

- **Fluorinated Greenhouse Gases (Amendment) Regulations (Northern Ireland) 2018 (SI 2018 No 206)**
  - These Regulations make updates to existing Regulations on fluorinated greenhouse gases (“F-gases”).
  - Come into force 17 January 2019

[http://www.legislation.gov.uk/nisr/2018/206/pdfs/nisr\\_20180206\\_en.pdf](http://www.legislation.gov.uk/nisr/2018/206/pdfs/nisr_20180206_en.pdf)

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# UK Statutory Instruments (2)

- **The Health and Safety (Amendment) (EU Exit) Regulations 2018 (SI 2018 No 1370)**
  - These Regulations are made in exercise of the powers in section 8(1) of the European Union (Withdrawal) Act 2018 (c.16) in order to address failures of retained EU law to operate effectively and other deficiencies arising from the withdrawal of the United Kingdom from the European Union. They relate to categories of deficiencies in retained EU law specified in section 8(2)(b), (d) and (g) of that Act.
  - Come into force “on exit day”
  - 191 issued to date

[http://www.legislation.gov.uk/ukxi/2018/1370/pdfs/ukxi\\_20181370\\_en.pdf](http://www.legislation.gov.uk/ukxi/2018/1370/pdfs/ukxi_20181370_en.pdf)



# Standards and Other Documents

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# Standards (1)

- **BS 7671:2018** Requirements for Electrical Installations. IET Wiring Regulations
- **BS 2223:2018** On-site guide for BS 7671:2018
- **BS EN 50588-3:2018** Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV. Transformers with cable boxes on the high-voltage and/or low-voltage side. Cable boxes type 1 for use on transformers meeting the requirements of EN 50588-2
- **BS IEC 60076-21:2018** Power transformers. Standard requirements, terminology, and test code for step-voltage regulators
- **BS EN 60076-11:2018** Power transformers . Dry-type transformers

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## Standards (2)

- **BS EN 62271-102:2018** High-voltage switchgear and controlgear. Alternating current disconnectors and earthing switches
- **PD IEC/TR 62271-306:2012+A1:2018:2018** High-voltage switchgear and controlgear. Guide to IEC 62271-100, IEC 62271-1 and other IEC standards related to alternating current circuit-breakers
- **BS EN IEC 60204-11:2019** Safety of machinery. Electrical equipment of machines. Requirements for equipment for voltages above 1 000 V AC or 1 500 V DC and not exceeding 36 kV
- **BS EN 60079-0:2018** Explosive atmospheres. Equipment. General requirements
- **PC C:C/TR 60079-32-1:2018** Explosive atmospheres. Electrostatic hazards, guidance

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## Standards (3)

- **BS EN 358:2018** Personal protective equipment for work positioning and prevention of falls from a height. Belts and lanyards for work positioning or restraint
- **BS EN IEC 60900:2018** Live working. Hand tools for use up to 1 000 V AC and 1 500 V DC
- **BS EN IEC 63000:2018** Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
- **PAS 280:2018** Through-life engineering services – Adding business value through a common framework – Guide

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## Standards (4)

- **BS ISO 55002:2018** Asset management. Management systems. Guidelines for the application of ISO 55001
- **BS 45002-0:2018** Occupational health and safety management systems. General guidelines for the application of ISO 45001
- **BS 45002-1:2018** Occupational health and safety management systems. General guidelines for the application of ISO 45001. Guidance on managing occupational health
- **BS 45002-3:2018** Occupational health and safety management systems. General guidelines for the application of ISO 45001. Guidance on incident investigation

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# Useful websites

- **Legislation (UK):** <http://www.legislation.gov.uk/>
- **Legislation (EU):** [http://europa.eu/index\\_en.htm](http://europa.eu/index_en.htm)
- **HSE Guidance:** <http://www.hse.gov.uk/guidance/index.htm>
  - Search by topic, industry or resources
- **HSE Publications:** <http://www.hse.gov.uk/pubns/index.htm>
- **BSI Standards:** <http://www.bsigroup.com/en-GB/standards/>
- **International Electrotechnical Vocabulary:** <http://www.electropedia.org/>
  - Online free access version of the IEC 60050 series

Thank you.