

Session 3 SHE Priorities & Challenges

SHE Management Conference 2022 presentations

she
safety, health
& environment
management
conference

29-30 June 2022 Brighton

Hosted by

**UK
Power
Networks**
Delivering your electricity

The Safety, Health and Environment Management Conference is an ENA event

Mark Patterson

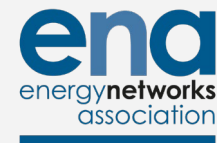
Director of Safety, Health and Environment

SSE

(Powering Improvement Champion 2021)



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Powering Improvement will support the UK electricity industry in its drive to have...

No life changing injuries (zero RIDDOR reportable) or major incidents and to have an engaged and healthier workforce by 2025.

<https://www.poweringimprovement.org/>



Phase 3 – Story so far / what's happening now / what's next

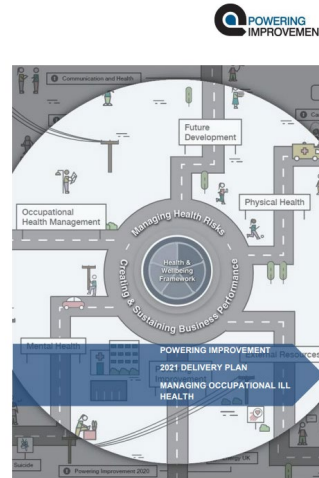
Occupational Health Committee (OHC)

(A joint ENA/EUK group)

- Healthy Workplaces Framework developed
- 3 Year OHC workplan
- Data survey output in PI 2021 SHE Review.

Six priority areas

- COVID-19; Inc D&I – supporting vulnerable staff
- Mental health;
- Occupational health management;
- Communications;
- Health and wellbeing; &
- Fatigue management.



Managing Occupational Ill Health
(and COVID19)

2020

2021

Promoting a positive H&S Culture

2022

2023

Review of progress &
develop next phase

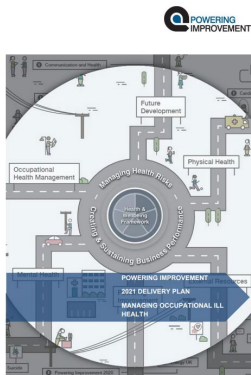
2024

Phase 3 – Story so far / what’s happening now / what’s next



Occupational Health Committee

Six priority areas



Leadership

Improved communication and engagement

Process

Promote Human Factors techniques

Behaviours

Promote fair and just Culture

Equip employees to manage H&S

Managing Occupational Ill Health (and COVID19)

Promoting a positive Health and Safety Culture

Review of progress & develop next phase

2020

2021

2022

2023

2024

Home Safe



If it's not **safe**,
we don't do it



Home Safe

Leadership

Process

Behaviours



Home Safe

Leadership

Process

Behaviours



Home Safe

- Leadership**
- No gap between what we say, and what we do
 - Making the uncomfortable comfortable

Process

Behaviours



Home Safe

- Leadership**
- No gap between what we say, and what we do
 - Making the uncomfortable comfortable

Process

Behaviours



Even the best
people make
mistakes



Home Safe

- Leadership - No gap between what we say, and what we do
- Making the uncomfortable comfortable
- Process - **Make it easy for people to do the right thing**

Behaviours



Even the best
people make
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Home Safe

- Leadership - No gap between what we say, and what we do
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Even the best people make mistakes

Behaviours



Home Safe

Leadership - No gap between what we say, and what we do

Process - Make it easy for people to do the right thing

Behaviours - Understand the skillset, mind-set and toolset



Even the best people make mistakes



Home Safe

Leadership - No gap between what we say, and what we do

Process - Make it easy for people to do the right thing

Behaviours - Understand the skillset, mind-set and toolset



Even the best people make mistakes



PCB Free Networks:

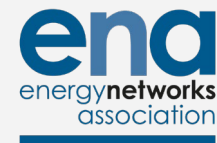
Saving the environment and our customer's money
through creative collaboration

Andy Martyr-Icke

Western Power Distribution Environment Team



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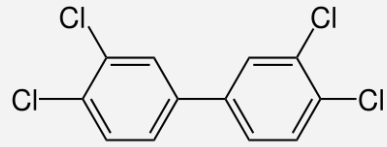


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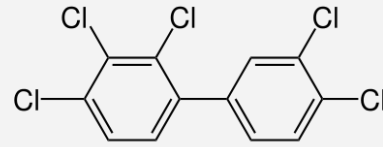


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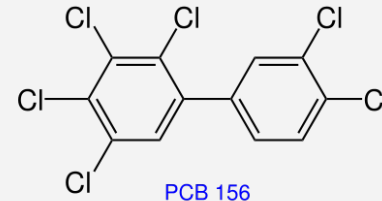
WHAT ARE PCBs & WHY ARE THEY A PROBLEM?



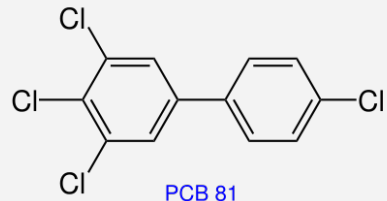
PCB 77



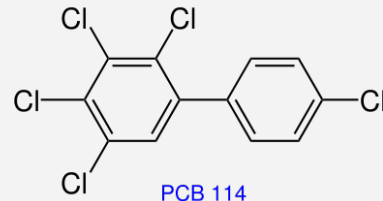
PCB 105



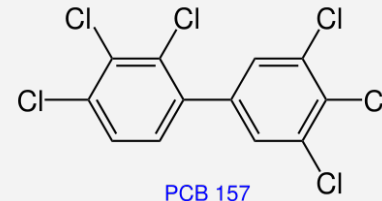
PCB 156



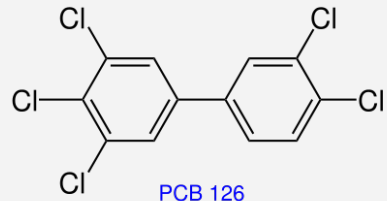
PCB 81



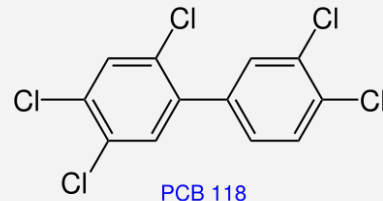
PCB 114



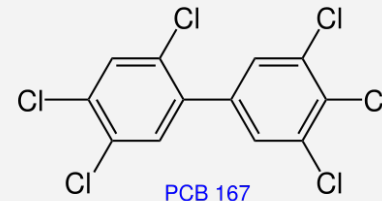
PCB 157



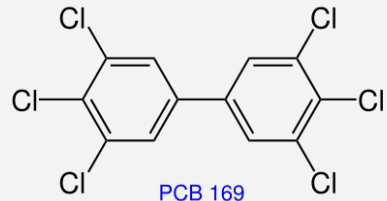
PCB 126



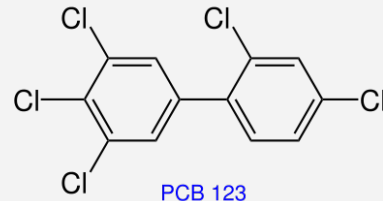
PCB 118



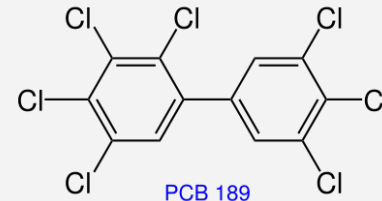
PCB 167



PCB 169



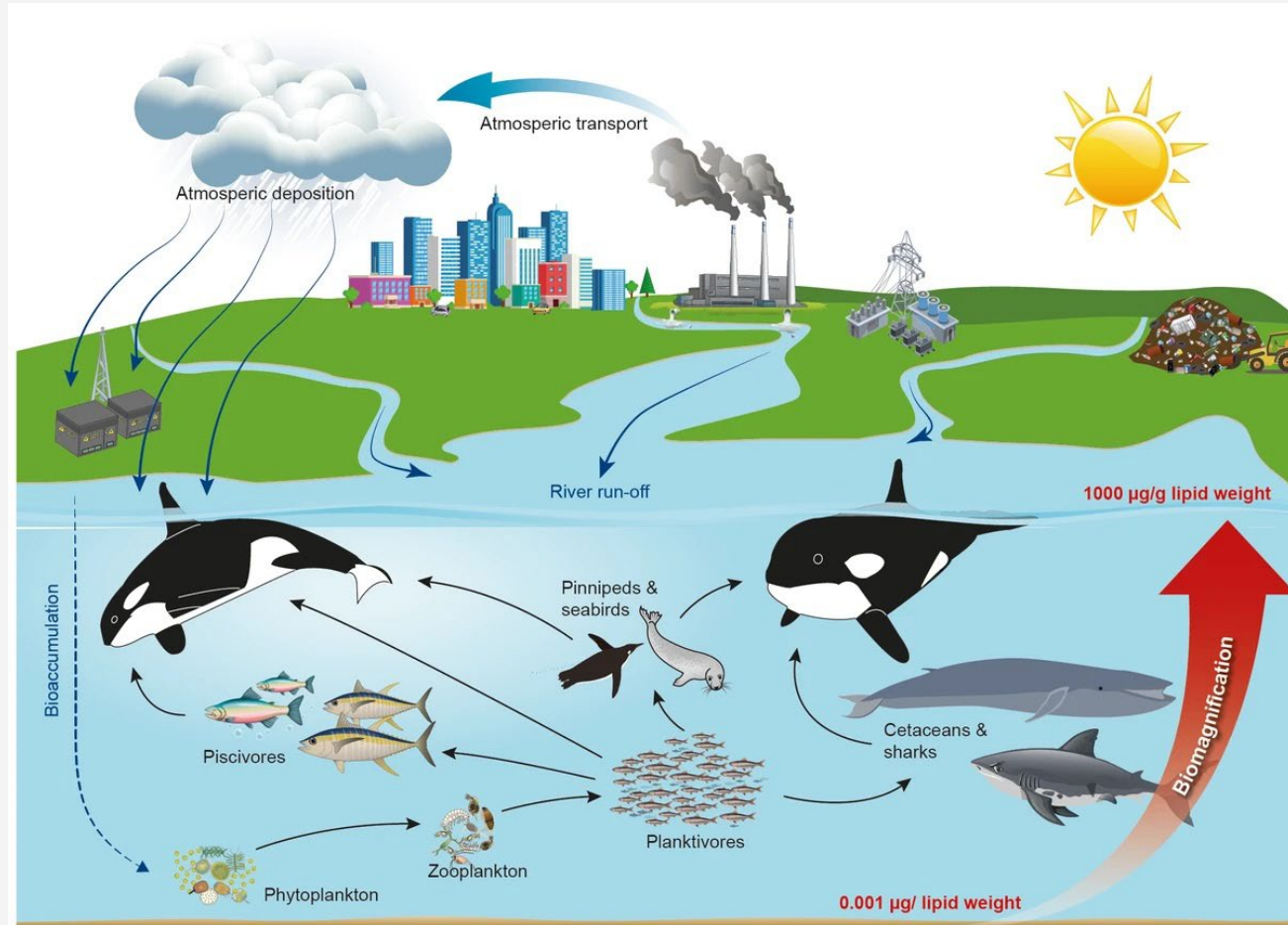
PCB 123



PCB 189

Source: Wikipedia

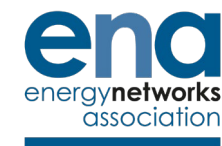
WHAT ARE PCBs & WHY ARE THEY A PROBLEM?



Source: Deforges et al. 2018



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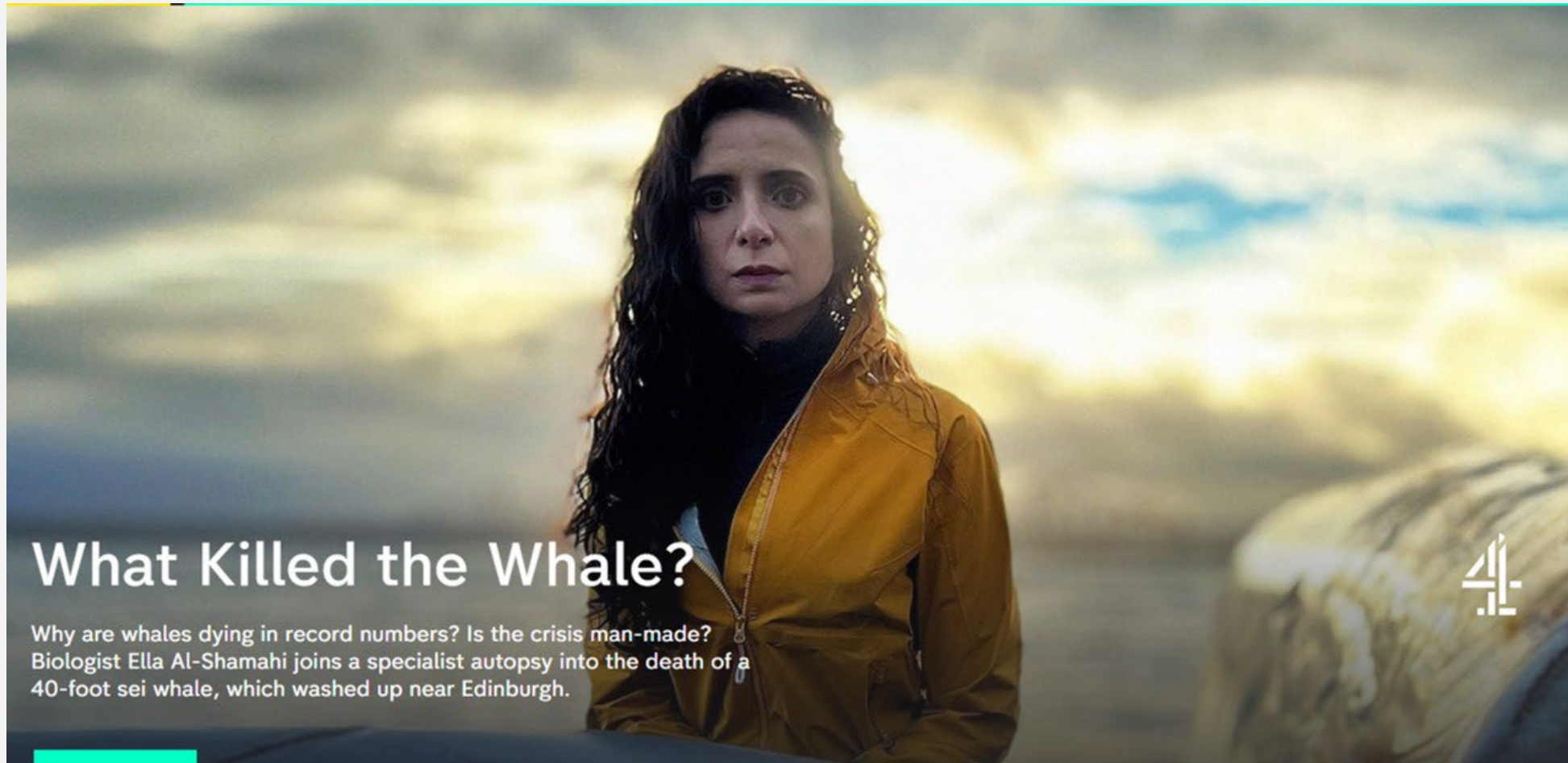


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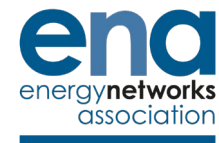
WHAT ARE PCBs & WHY ARE THEY A PROBLEM?



Source:
channel4.com



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PCBs Banned in new equipment in the UK

EA announce Reg changes inc 2025 complete >50ppm ban

1929 - 1987

2000

1987

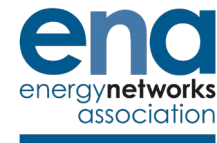
2018

PCBs unwittingly contaminate mineral insulating oil across energy industry

PCB Regs introduced in UK with end of life derogation for DNO assets with PCBs 50-500ppm



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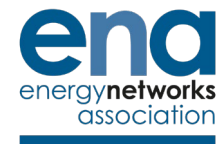
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- >250,000 transformers and other assets with original oil
- ≈£1.7BN replacement costs
- Huge customer interruptions and inconvenience
- Demand far in excess of supply chain capacity
- Divert resources from Net Zero transition



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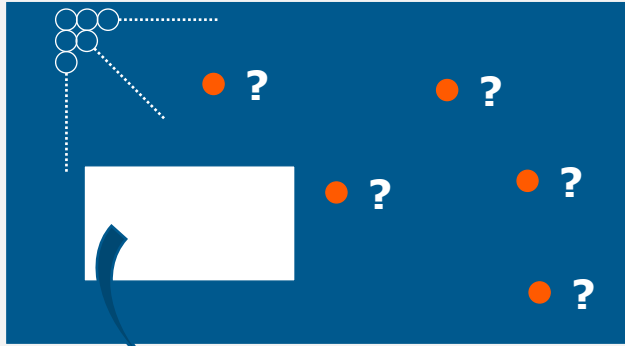
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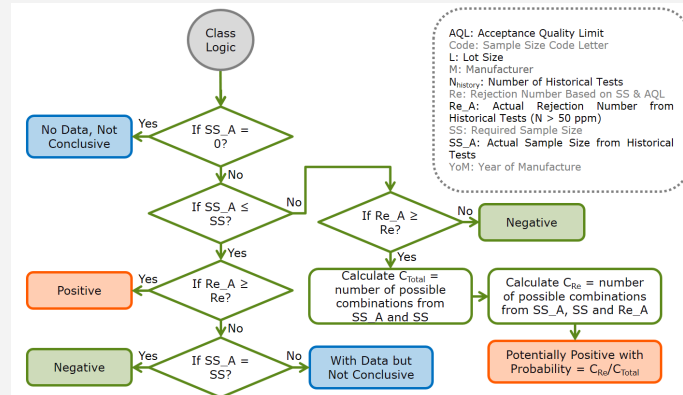
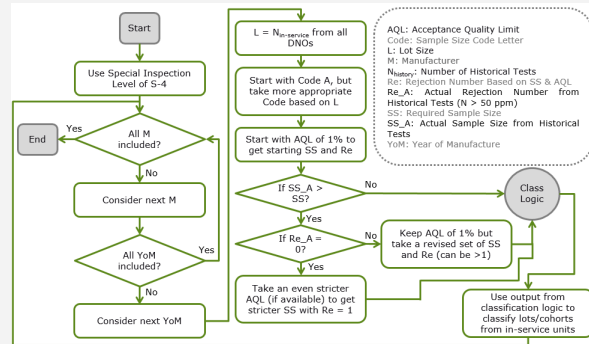
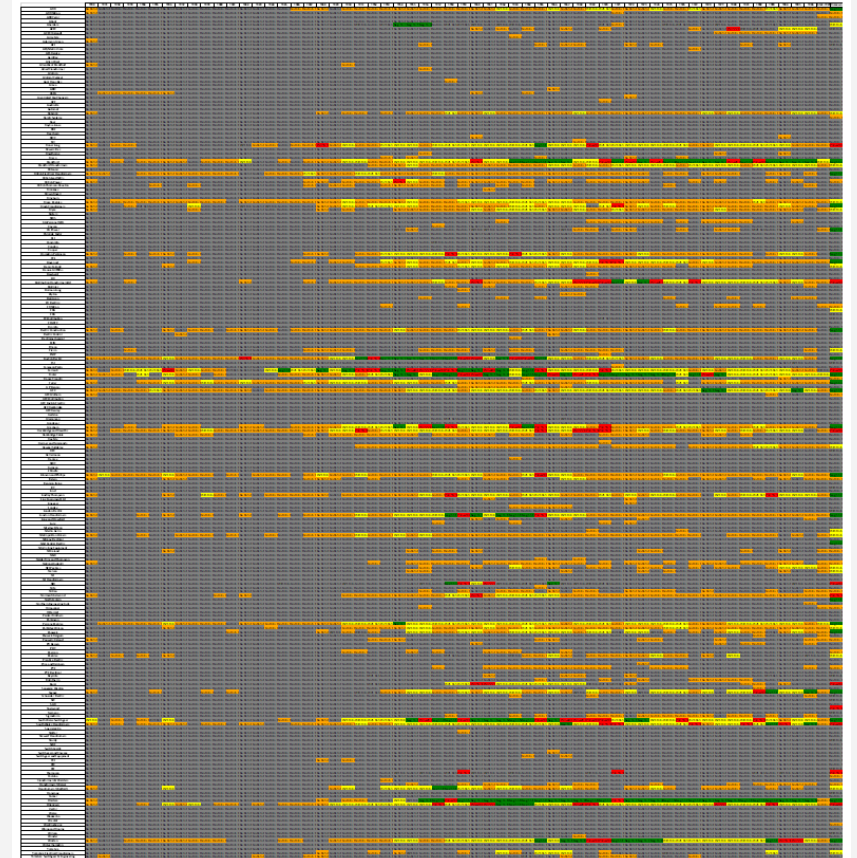
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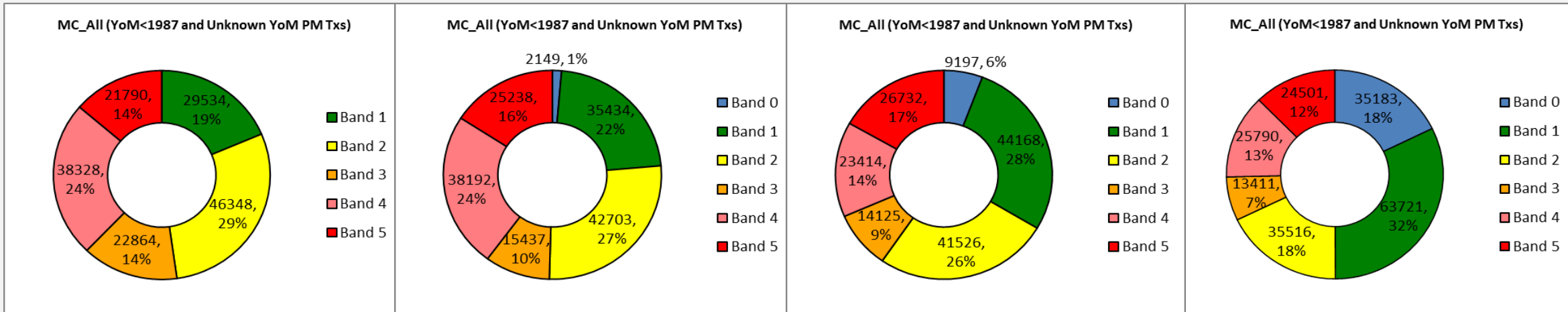


Lot size	Special inspection levels				General inspection levels		
	S-1	S-2	S-3	S-4	I	II	III
2 to 8	A	A	A	A	A	A	B
9 to 15	A	A	A	A	A	B	C
16 to 25	A	A	B	B	B	C	D
26 to 50	A	B	B	C	C	D	E
51 to 90	B	B	C	C	C	E	F
91 to 150	B	B	C	D	D	F	G
151 to 280	B	C	D	E	E	G	H
281 to 500	B	C	D	E	F	H	J
501 to 1 200	C	C	E	F	G	J	K
1 201 to 3 200	C	D	E	G	H	K	L
3 201 to 10 000	C	D	F	G	J	L	M
10 001 to 35 000	C	D	F	H	K	M	N
35 001 to 150 000	D	E	G	J	L	N	P
150 001 to 500 000	D	E	G	J	M	P	Q
500 001 and over	D	E	H	K	N	Q	R

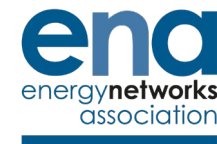


- ENA Statistical model updated in June 2022 for the ninth time.

- Potential replacement savings across all DNOs > £500,000,000



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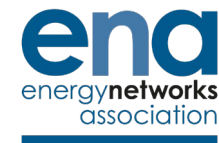
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ONGOING WORK & NEXT STEPS

- Continue to explore innovative solutions to in situ testing
- Continue to understand historical contamination
- Complete testing of “easy to access assets”
- Targeted replacement of assets with greatest statistical benefit
- Continue to update model until only replacement is only option
- Continue to work in closely in collaboration with EA, NRW, NIEA, SEPA
- Continue to save time, resources, money and accelerate transition to Net Zero



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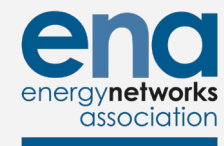
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Thank you

See you in Dublin for SHE Management Conference 2023

The logo for the SHE Management Conference is a teal square containing the word "she" in a large, white, lowercase sans-serif font. Below "she", the words "safety, health & environment management conference" are written in a smaller, white, lowercase sans-serif font, arranged in four lines.

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safety, health
& environment
management
conference

29-30 June 2022 Brighton

Hosted by



The Safety, Health and Environment Management Conference is an ENA event