

Problem of waste incineration residues - Geneva 2015

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Front end of the waste incinerators



Back end of the waste incinerators



Dioxins balance (PCDD/Fs)

Liberec MW Incinerator

3% to AIR

97% to RESIDUES (BOTTOM ASH and FLY ASH - for FLY ASH it is 94%)

TOTAL PCDD/Fs/year

8 - 10 g TEQ/ year

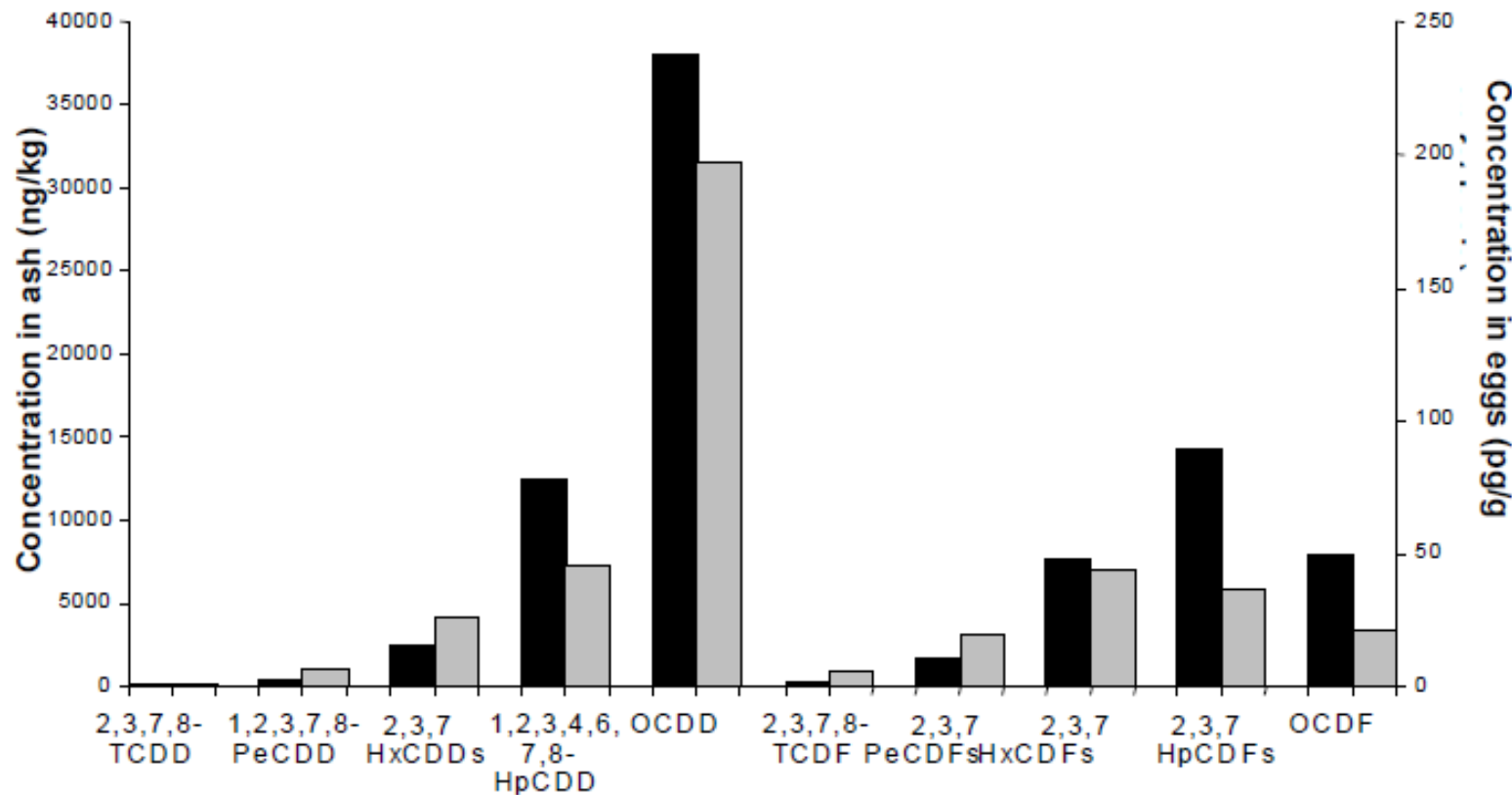
FLY ASH = 0.36 - 12 ppb PCDD/Fs

100,000 tonns waste/year

35,000 tonns residues (ashes)/year

data (Czech Republic)





Fingerprints of dioxins (PCDD/Fs) in fly ash from Byker waste incinerator and chicken eggs from allotments in Newcastle, where free range chicken were raised near the paths paved with fly ash.

PCDD/Fs in ASH = 4.2 ppb; chicken eggs = up to 56 ppt (3 ppt EU limit at that time)



quantity POP
waste
[kt/year]

2,255

368

170

86

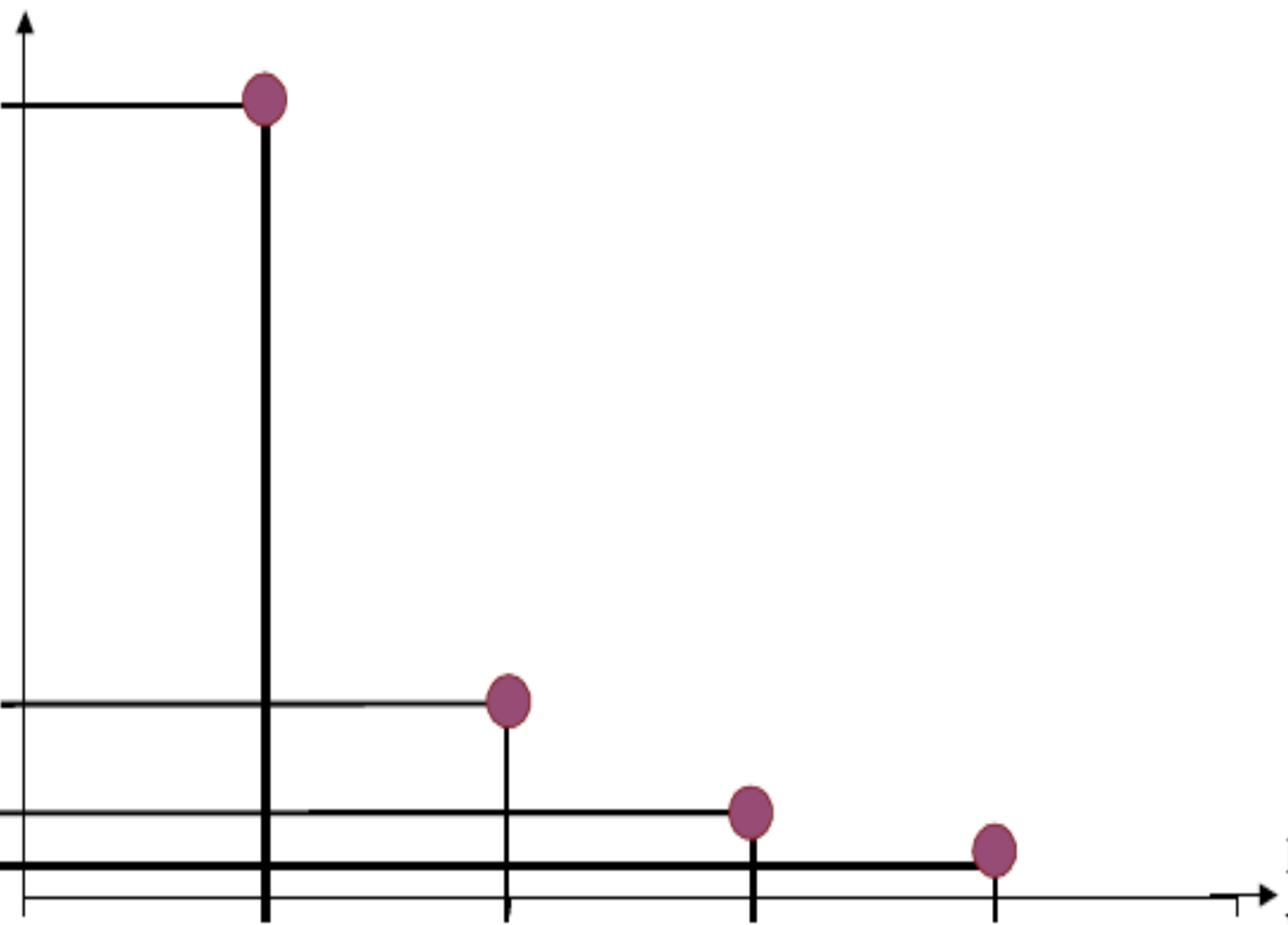
1 ppb

5 ppb

10 ppb

15 ppb

limit
valu



Toxic Recycling



& Reuse

