

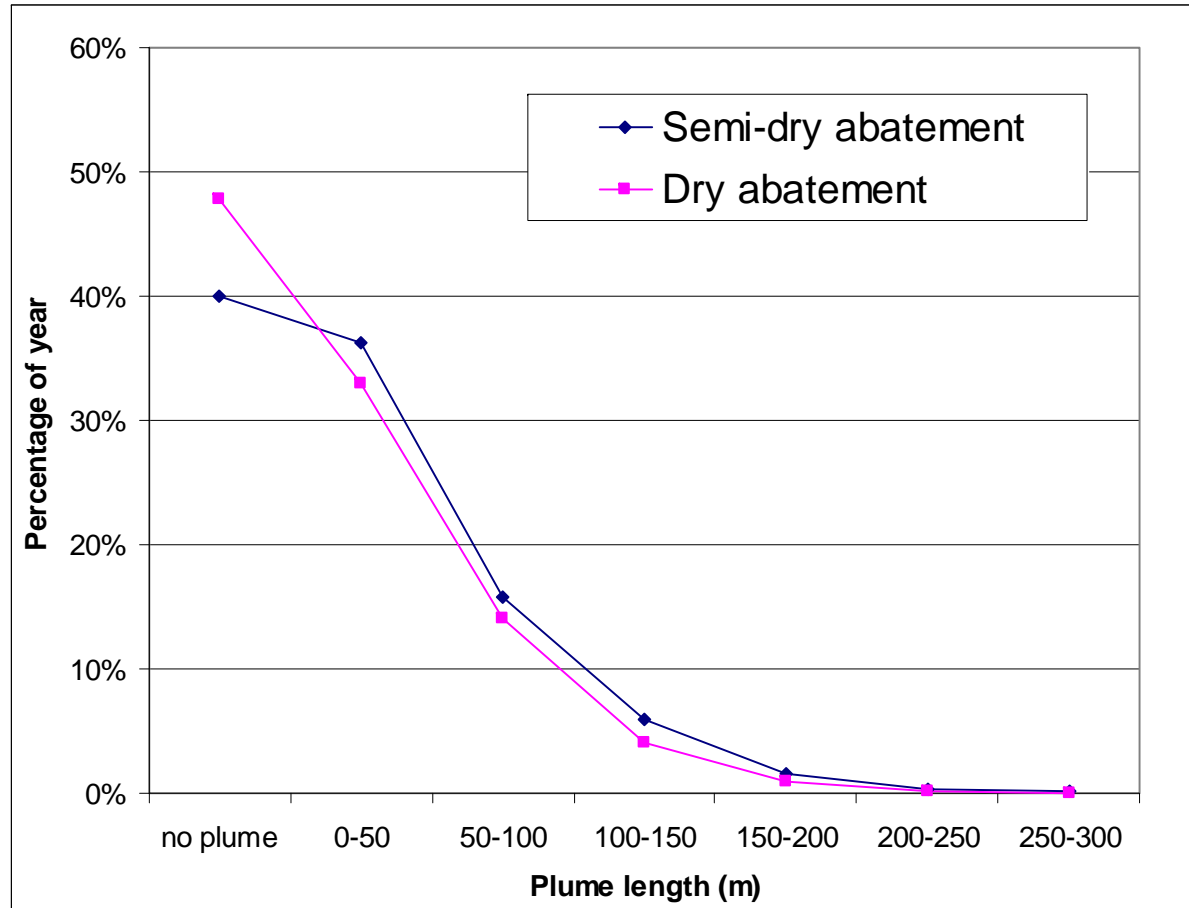
Plume visibility

Occurrence and appearance of visible emissions from the proposed facility

Why are there visible emissions?

- **Combustion (of anything) produces water vapour as a combustion product; this is emitted from the stack**
- **Under some weather conditions the water vapour will condense and be visible as a white or light grey plume:**
 - Cold, clear conditions (occur mainly at night)
 - Days with high relative humidity (ie wet and damp weather)
- **Visible plumes are not due to particles – particles are emitted at too low concentration to be visible**

How often will the plume be visible?



Key points:

Covanta chose dry abatement technology for the facility to minimise visible plumes

No plume for 48% of the year

No plume longer than 300m

**Plume is:
<150m from >98.5% of the year
<50m for 80% of the year**

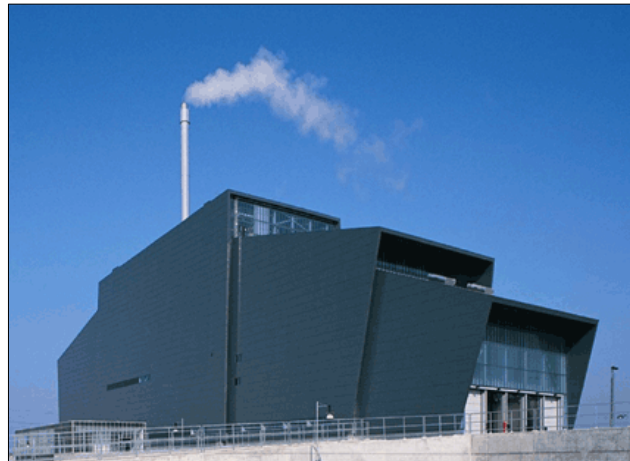
What will the plume look like?



Isle of Man
(for reference,
the stack is
70m high)



Paris



**Rugenburger
Damm, Germany**