

WHAT COMES OUT OF THE CHIMNEY?

The table below is from NEDL's application to Planning: [the volume flow is wrong - it is actually 10.4 cubic metres **per second** - not per hour]

Table 4: CHP plant emission parameters

Parameter		Value
Stack heights (m)		24, 27, 30
Stack diameter (m)		1.05
Gas exit temperature (°C)		155
Gas flow velocity (m/s)		12
Volume flow (m ³ /hr) (actual)		10.4
Mass H ₂ O (kg/kg)		0.45
Measured concentrations (mg/m ³)	NO _x	250
	CO	250
	PM ₁₀	30
	PM _{2.5}	30
Emission rates (g/s)	NO _x	4.07
	CO	4.07
	PM ₁₀	0.49
	PM _{2.5}	0.49

ON BURNING WOOD...

This plant will burn 60,000 tons a year

That's 180 tons of wood per day,

What will this mean?

Out of the chimney EVERY DAY will come

CO₂ 100 TONS
 WATER..... 163 TONS
 NITRATES 292 TONS
 PM₁₀ AND PM_{2.5}..... 2.28 TONS

LEAVING ASH..... 3.6 TONS

THIS IS THE STUFF THAT WILL MAKE THE STEAM CLOUD AND BE IN THE CLOUD.....AND WILL SOMETIMES HANG IN THE VALLEY ALL DAY.

(all above calculations based on figures from NEDL and done by a professional chemist)

And at 155 degrees C, the temperature at emission, there is little interaction of these products. But as the steam cools, damaging acid rain will be produced over an area near the plant...

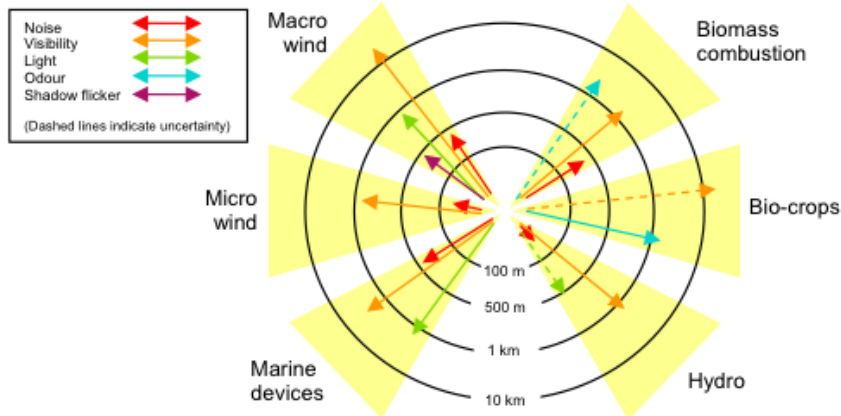
HOW CLOSE TO HOUSES SHOULD AN ENORMOUS NOISY 24/7 PLANT LIKE THIS BE SITED?

Here is advice on that and it comes from Highland Renewable Energy Strategy and Planning Guidelines May 2006 (hresmay2006) published by The Highland Council Planning and Development Service - Page 26.

Health Impact of Air Pollution

- Air pollution is currently estimated to reduce the life expectancy of every person in the UK by an average of 7-8 months with estimated equivalent health costs of up to £20 billion each year.
- PM₁₀ and PM_{2.5} are consistently associated with respiratory and cardiovascular illness

Figure 8.2.2 : Typical near neighbour interactions for different types of renewable energy projects



P S.3 The positioning of devices should also reflect the aesthetics of particular views. Developments should not take place in widely acknowledged and particularly important views, i.e. those generally valued by residents for their lack of other development influences such as wires, poles, signs, buildings, vehicles, or commercial forestry. *Policy/strategy*

Minimum advised distance for Biomass is 500 Metres to 1 kilometre - not 179 metres.