

WEBVTT

1 00:00:16.400 --> 00:00:20.059 Over 90 percent of the world's population  
breathes toxic

2 00:00:20.259 --> 00:00:23.276 air. But what are we talking about when we say  
toxic air?

3 00:00:23.930 --> 00:00:26.990 One of the most critical air pollutants is partic-  
ulate matter

4 00:00:27.320 --> 00:00:30.560 or PM. PM Is a complex mixture

5 00:00:30.890 --> 00:00:31.850 of solids.

6 00:00:34.190 --> 00:00:35.020 Gases.

7 00:00:37.290 --> 00:00:38.130 Liquids.

8 00:00:44.710 --> 00:00:48.070 [blender] But where exactly does PM come from?

9 00:00:49.600 --> 00:00:53.109 Some PM is directly admitted from human ac-  
tivities like industrial

10 00:00:53.309 --> 00:00:55.720 processes power plants and fossil fuel combus-  
tion.

11 00:00:56.500 --> 00:00:59.590 Others formed from natural sources including  
windblown dust

12 00:00:59.790 --> 00:01:03.580 and wildfires. PM2.5 can penetrate deep into  
the lungs,

13 00:01:03.820 --> 00:01:05.900 respiratory tract and bloodstream.

14 00:01:06.460 --> 00:01:10.269 On a global scale the simple act of breathing  
is killing seven

15 00:01:10.469 --> 00:01:13.809 million people a year and harming billions more  
due

16 00:01:14.009 --> 00:01:15.130 to declining smoking rates.

17 00:01:15.490 --> 00:01:19.830 Air pollution now causes more deaths annually  
than