Sewage to replace agri as top source of nitrogen pollution

plans to clean it up. Edited excerpts: reduce nitrogen pollution, speaks to Ankur Paliwal about how severe nitrogen pollution is and his International Nitrogen Initiative (INI), an international body of scientists working to understand and NANDULA RAGHURAM, professor at Indraprastha University, who recently took over as the next chair of the

What is nitrogen pollution?

compounds collected over dust particles pollutant, is actually reactive nitrogen PM 2.5, which is a popular air much of the particulate matter or of algae and pollutes water. And, oxide is 300 times more powerful repair in the environment. Nitrous pollution. This reactive nitrogen is building dioxide. Nitrogen boosts the growth greenhouse gas than carbon over-exceeded the rate of natural alarming is that its accumulation rate has up fast in the environment. What's nitrous oxides flow as nutrients through air, compounds such as nitrate, ammonia, and inactive and reactive. Reactive nitrogen water, and soil, but their excess causes Nitrogen is present in two forms in nature:

Is it harmful for human health?

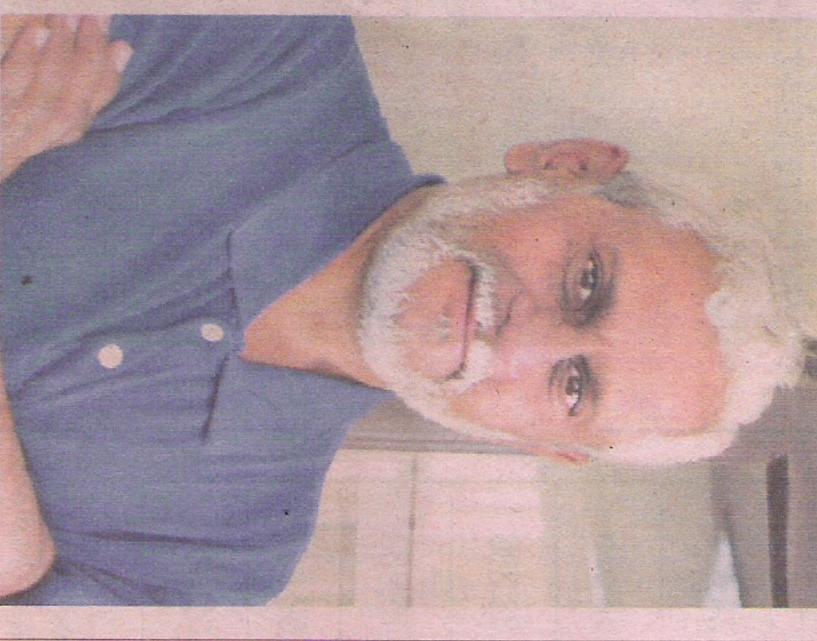
infants. Their haemoglobin binds more with nitrogen can be harmful, especially to strongly with nitrogen than oxygen, which problem. Evidence is building up that compounds in PM 2.5 causes what kind of causes respiratory disorders, but we need to studies to directly link nitrogen to health consistent exposure of water contaminated do more research on which nitrogen disorders. Studies have shown that PM 2.5 models, but not enough population-level There is scientific evidence from animal sewage can replace agriculture as

health problem as it is an environment one. leads to lack of oxygen in their bodies and be fatal. Nitrogen pollution is as much a causes the blue baby syndrome. That could

pollution in India? What are the main sources of nitrogen

as 70 per cent of the nitrogen pollution is The data collected by us shows that as much environment. India uses goes waste and pollutes the the nitrogen from the urea, the rest only take up about 25-30 per cent of fertilisers, specifically urea. Crops due to the excessive use o million tonnes of urea every year, from agriculture, and most of it is about 27

of nitrogen pollution, is growing almost 10 sewage, which is the second-largest source the contribution of agriculture to nitrogen utilise most of the nitrogen. So, probably market, less nitrogen is getting wasted pollution is not going to grow. because neem-coated urea ensures plants coated urea has been brought into the environment. But we are told (we of urea cost. What's interesting is and the government subsidises 75 per cent times faster than agriculture. At this rate, However, the contribution of untreated the figures though) that since the neemthe same percentage is lost to the don't have that about



GETTING CARBON TALKS TO WORK, HOW DOES ONE EVEN OPEN NITROGEN?" ANOTHER DISCUSSION ON

largest contributor in the next five years. finding that nobody has known This is more worrisome - an important

term for the next three years? What are your goals as INI chair during your

the

where governments tell you what to do. nitrogen pollution in Europe. I will also focus may not be the second-largest contributor of and in which sector. For example, sewage interventions. This is important in of nitrogen pollution because that helps in My first goal is to collect robust regional data government, and not the other way round on building scientific engagement as the commit how much pollution they will reduce international negotiations building a clearer global picture of nitrogen main driver of talks with the public and the design and advocate for targeted pollution. That is crucial to where countries

nitrogen. Why? imagination and little attention is paid to You say carbon has taken over people's

support if a single intergovernmental body on nitrogen can come up. attention it deserves. We will be happy to There are other international conventions component, but it needs to be given the conventions, which also have nitrogen such as biodiversity and desertification oxides, that is not the only reactive nitrogen negotiators give importance to nitrous another discussion on nitrogen? And even if So, with so much time lost oxides. Understandably, dealing with the list of greenhouse gases to reach nitrous and negotiators haven't really gone down compound causing nitrogen pollution. talks to work, how does one even open carbon emissions itself has taken decades International climate change negotiations There is excessive focus on carbon in the in getting carbon