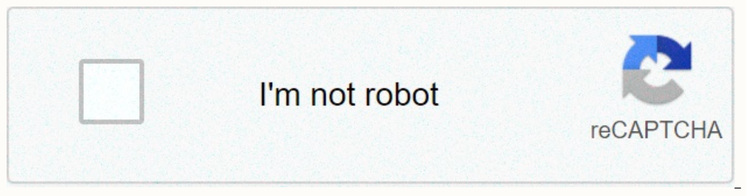


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Before we studied what is acid rain and how it is measured, however, it is necessary to know what causes it originates in order to avoid those for which people are responsible. In this article, we will share some of the reasons for the acid rain. Causes of acid rains: what causes it? Sulphur dioxide and nitric oxide The causes of acid rains are associated with two compounds: sulphur dioxide and nitric oxide. If accumulated in the air, they can reach high concentration levels in contact with water or oxygen, causing a form of environmental pollution. The environmental problem that arises from their high concentration is that both are substances that dissolve easily in water and can spread with wind. In this way, large areas are affected by a single focus on pollution. Natural disasters It should also be noted that acid rains can be caused by natural causes, such as volcanic eruptions or earthquakes. These disasters emit a large amount of polluting particles into the atmosphere, which causes so-called air pollution. Human activities Another cause of acid rain is human activity, such as industries or the widespread use of fossil fuels transport. These activities also generate the release of particles that contribute to the formation of this type of rain. Moreover, this is a worrying problem, as most of this type of pollution usually occurs in urban or industrial areas where the majority of the population is concentrated. Factories or industrial plants that use fossil fuels as a source of energy often have high chimneys to release their waste. This reduces local air pollution, but increases in other areas due to wind. In the process, primary pollutants (which are transported by winds) form secondary pollutants (such as nitrogen vapor, drops of syric acid and sulphate particles) that eventually return to earth in the following forms: Such as rain, snow or acid mists and steam storage clouds (known as wet sedimentation) such as acidic particles (also called dry sludge) Knowing the causes of acid, the social awareness of this problem facilitates the social consciousness of this problem in the environment so that we

can contribute to its prevention. If you are interested in learning more about it, we invite you to read the effects of acid rain, which affect not only the ecosystem, but also people. Acid rains contaminated by its chemical composition Last time, they become more common in public, media, as well as personal issues related to climate change, its consequences, and among them the so-called acid rains. But what is acid rain? How does it shape up? What are the reasons for this? In this article, we clarify some doubts. We always talk about the consequences of man's actions on the common home, the planet. For a long time, with a desire to develop technological and industrial, for example, environmental issues have been set aside, which are otherwise important even for economic growth. In fact, a few years ago, climate change was considered alien to humans, in the future and as a matter of great world powers. From deforestation or degreasing glaciers, for example, you can see that climate change is a reality. Fortunately, societies have been aware of these problems in recent times. But how do you associate all this with acid rain? It is human activity that is also one of the main causes of this phenomenon, for example from the release of polluting gases by burning fossil fuels. Acid rain: definition Precipitation includes the beginning of a hydrological cycle that provides water for aquatic organisms influencing all ecosystems. Therefore, it is important to know the chemical composition of rains, since this determines the level of environmental pollution that occurs and changes the atmosphere. Acid rain is then any form of precipitation, including snow or fog caused by a chemical reaction, which begins when compounds such as sulphur dioxide and nitrogen oxides reach high levels of the atmosphere and when mixed with water and oxygen, for example, form acidic pollutants. They are responsible, in turn, for acidification of rainfall. Acid rain: causes of the phenomenonAs mentioned, industrial and urban development has led to an increase in gas emissions, forming what is known as acid rains in Argentina and the world and the impact of air quality. Chemicals that are separated from the activities of different people, such as burning fossil fuels, exhausting cars, etc., change the mixture of gases existing in the atmosphere. As mentioned, precipitation is part of the water cycle, so acid rains directly affect the bodies of water of the world, both in lakes, lagoons, rivers, streams, oceans, seas and marshes, increasing in acidic level and toxicity. Thus, logically, it affects the flora and fauna that live there, but also on species that are no longer aquatic short or long term through the food chain. Acid rain affects wildlife in the food chain. Another negative factor is that acid rains pollute the soil by releasing aluminum and absorbing nutrients, making it difficult to absorb them from trees. This phenomenon has even been proven to have destroyed millions of hectares of forests. On the other hand, it also affects the respiratory system of people by entering acid into the lungs, so it has a negative effect on people's health. Acid rain has a negative impact on the world at unthinkable levels, even worsening the domes of large buildings. This is really a worrying thing, as the rains are extremely necessary for life and also for the economic growth of the country. It is therefore essential to take actions that contribute to their detention and to join forces to prevent such phenomena. In this case, emissions of polluting gases should in principle be reduced, the use of fossil fuels on time and the use of renewable energy sources should be encouraged. While it is a moment when we work in different countries, from solar panels or by encouraging the use of public transport or bicycles to avoid the mass use of cars, for example, it is necessary to increase these efforts and replace them up to 100%. On the other hand, the conscience of all citizens is necessary for energy saving. By using less energy, supply-producing companies will also emit less gas. This also has a double benefit for people, not only the environment, but also economically. Sources: ConicetNational Geographic SEE INFOGRAPHIC: Causes and consequences of acid rains [PDF] EFFECTS OF ACID RAIN RN on rain when combined with syric acid and nitric acid, so when it falls on soil and water, it changes its chemical characteristics and threatens the balance of ecosystems. It is known as environmental acidification, a phenomenon that has serious consequences: Oceans can lose biodiversity and productivity. Reducing the pH of marine waters damages phytoplankton, a food source of various organisms and animals that can modify the trófic chain and lead to the extinction of various marine species. Inland waters are also oxidized at a very fast rate, especially alarming fact when you consider that although only 1% of the planet's water is sweet, 40% of the fish live in it. This acidification increases the concentration of metal ions – mainly aluminium ions – which can lead to the death of a large number of fish, amphibians and aquatic plants on the acidified lakes. In addition, heavy metals are moved to groundwater that is no longer suitable for consumption. In forests, the low pH of the soil and the concentration of metals such as aluminum prevent the natural absorption of the water and nutrients it needs. This damages the roots, reduces growth and makes plants weaker and vulnerable to diseases and pests. Acid rains also affect artistic, historical and cultural heritage. In addition to corrosion of the metal elements of buildings and infrastructures, it aggravates the appearance of monuments by disposing of them. The greatest damage occurs on limestone structures, such as marble, which gradually dissolve from the effect of acids and water. HOW TO AVOID ACID RAIN? Since this is the main reason for this, the solution to the problem of acidification of the environment is in the hands of man: for mitigating acid rains is essential for reducing polluting emissions. Something the government and business level must be committed to that drives a series of measures: Filter and detoxify the water used by factories before returning it to rivers. Reducing emissions of polluting gases from industry. Promoting the production and use of clean energy to the detriment of fossil fuels. Reducing energy consumption in factories and companies. To improve innovation and new technologies aimed at optimising energy consumption and developing clean energy. Plant the trees to absorb contaminated air. Raising public awareness of the importance of reducing energy consumption in households. Promoting the use of electric cars and other vehicles that do not pollute the environment, such as bicycles. The Iberdrola Group is fully in line with this commitment to reduce emissions of polluting gases into the atmosphere. In this respect, it has been proposed to have a virtually zero emission intensity in Europe from its 2007 levels by 2030 and to be carbon neutral by 2050 globally. Energy transition and decarbonization Iberdrola and water use SDP 6: Clean water and sanitation Uses: Recommended habits Commitment to climate change of the Iberdrola Iberdrola Group