

Editorial

Green Tech: developing a new future

Environmental care is a topic that has aroused special interest in the process of technological development. There is a great concern about the environmental impact of the non-sustainable projects and the interest in green research is growing to create a resilient global society. It is contradictory that while the impact of technology and industrialization has been highly negative on the environment, green technology has contributed to saving the planet.

Nowadays, researchers are trying to understand the lifecycle of products, from the extraction of materials, through manufacturing, transportation, and stores, with the aim to introduce “green” solutions in each of these stages. The studies related to environmental care have increased knowledge of the conditions under which a product might be considered “sustainable”.

Green technology is a young and multidisciplinary field of research related to the use of science, technology, and innovation to generate products or services that are environmentally friendly [1]. Green technology includes developments and research to protect the environment, improving the performance of the technology in a “green” manner, restoring the damage to the Earth, and optimizing processes conducive to environmental care.

Contrary to popular belief, green tech isn’t just about the alternative power generation [2], but rather the areas of its application extend to waste management [3], use of sustainable materials [4], devices to use our scarce resources like electricity efficiently [5], sustainable agriculture [6], [7] and everything refers to any technology intended to reduce the impact of humans on the environment. These technological developments are necessary to achieve the global goal of saving the planet and living in a sustainable world, besides, people’s behavioral changes are also urgently required for achieving sustainability [8].

Regarding the quality attributes that a product or service must have, in addition to its functional requirements, a *sustainability* requirement should also be considered that includes certain metrics of its impact on the consumption or efficiency of resources. This would make us think of solutions that not only give an answer to a problem but also do not cause a negative environmental impact.

The concern of preserving our planet green should be a priority, as this factor affects our health, lifestyle, economy, feeding and, in general, all our environment. The actions of researchers, engineers, scientists, and companies are crucial to defining our future. There are many challenges to finding a balance between our needs and the use of limited resources, but the research and technology are in favor of sustainability, making great efforts to preserve the environment and humanity.

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