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Significance of Green Computing

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ABSTRACT:

Green Computing is an emerging and significant topic to protect the environment from the high usage of computing and internet services. Green computing is responsible for eco-friendly computers and the resources of todays computing world. The major goal of this emerging topic is to preserve environment from the harm caused by the computer resources. In detail Green computing is the study of developing, manufacturing, usage and dismantling of computing devices in such a way that causes the less impact on environment. A large number of corporate companies are taking the initiative to go green to reduce the harm for the environment. This paper is a scrutiny of importance of the green computing and the different organizations which are using green computing for the protection of environment.

Keywords: Green Computing, Green Energy, Energy star.

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I. INTRODUCTION:

In present-time going green is the major goal for almost each and every top tech-savvy in the world.

The technical companies has notice that going green is very important aspect not only increase the social responsibility but also balances the operations and decrease the energy cost. Going green can be achieved with the help of Cloud ubiquity, it will derive the global cloud adoption and Industry cloud, edge computing can modernize Business environments. Most of all Virtualization will reduce the IT's energy foot print.

Top companies that are using green computing

Intel is one of the leading, reputed and reliable computer processor manufacturing company. It welcolead the way to use of green energy of 3,100,000000 kwhyearly. Green energy can be making out from the natural resources such as wind, solar, Hydro and Bio-mass. Moreover this tech has 18 on site solar panels which can bring out 7100 kw.

Apple, one of the highly regarded Computers and Mobiles manufacturing company in the world. This company also uses the green energy about 635,000,000 kwh as well as Intel. To power their necessary electric operations and produce its technology products the Apple tech uses the green energy. This tech uses the green energy by the inspiration of Neutral carbon foot print. With the help and usage of green energy the tech works regarding making its product energy efficient.

Google is a well-known, reliable company. Google search engine is used by worldwide. There are numerous products of Google such as Gmail, Google meet etc. Since 2007, it has been a 735,000,000kwh of green energy per year. Currently Google researching for the novel ways of employing green energy in enhancing, sustainability and efficient operations for industries which are highly dependent on intensive power use.

The major goal of Cisco system is to demonstrate that the green energy plays a crucial role in generating a sustainable power use strategy over the IT industry to the world. The initial aim of this Cisco system is to reduce greenhouse gas emission and to welcome a greener business out look.

In all respect of Green energy the Energy star is an organization that is assist by government to help people to save their money and to bring down the greenhouse gas emission by recognizing the organizations, Offices, home appliances and equipment that have the greatest energy efficiency. Over the last few years Energy star ranking have been expanded to new areas. In the year of 1992 Energy star has been a joint program with U.S Environmental protection agency (EPAM) and the US department of Energy (DOE). After that European union has adopted Energy star in the year 2007. Thenceforth Australia and New Zealand adopted the program, in result Energy star establishes as the International symbol of Energy efficiency.

Energy star rates the computer devices initially. Normally the energy consumptions by computers can be decreased by in two ways. By using the less power required components and by using power management

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software to modulate the energy consumption of these components. Energy star rankings are obtainable for Desktops, Laptops, Gaming consoles, workstations, Smart phones, Thin clients and blade servers.

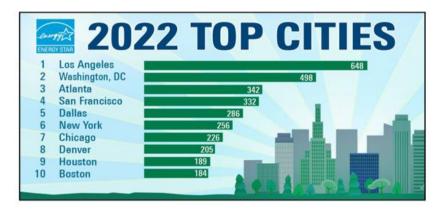
As stated by their website 80+ performance specifications be in need of power supplies in computers and servers. Energy star enable online assessment tools that can authorize the business and end users to rate the efficiency of industrial and home facilities. Energy star rating has become the essential part in purchasing decision for both the business and end users. Adopting energy efficient practices is an most essential unit for green computing movement in terms of both lower operating costs and to bringing down the pressure on the energy grid.











The products which are rated by energy star helps in reduce the energy emission and saves the energy. For exampleRoom air conditioner, Refrigerator, Dryers and light bulbs etc. These certification make it easy for the end users and business organizations to save their money and to preserve the environment.

II. CONCLUSION

Over the next few years there may be a lot of research about green computing. Research could be focused on energy consumption and efficiency. Each and every corporate company should take the green computing movement. Every one responsible for greener world. Each every end user and business organizations have to work together to make the world greener. Energy star helps in making the green world and the rating of energy star have been a great help for consumers and business organizations in green computing. In the coming years it is expected that lot energy saving ways can be evaluated.

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