

GREEN COMPUTING



INTRODUCTION

- **Green computing is the environmentally responsible and eco-friendly use of computers and their resources.**
- **In broader terms, it is also defined as the study of designing, manufacturing/engineering, using and disposing of computing devices in a way that reduces their environmental impact.**
- **It is also called as Green IT**



HISTORY

- ▶ Green computing was Originated in 1992 at the U.S Environmental Protection Agency that launched Energy Star program.
- ▶ Shortly after that the term “Green Computing” was coined.



WHY IS GREEN COMPUTING REQUIRED?

- ▶ **Impact of Electricity to the Environment**
- ▶ **Uses lot of electricity**
- ▶ **Impact of Toxic waste to the Environment**

WAYS FOR GREEN COMPUTING

- ▶ **Turn off monitor**
- ▶ **Turn off hard disks**
- ▶ **System Standby / Sleep**
- ▶ **Hibernate**

METHODS TO IMPLEMENT GREEN COMPUTING

Solar computing



Carbon free computing



METHODS CONTD...

1. SOLAR COMPUTING

- ❑ Computers working with the help of solar technology are called solar computing

2. CARBONFREE COMPUTING

- ❑ Carbon free computing is a set of programs and products designed to help individuals and organizations reduce their impact on the environment

REGULATIONS AND INDUSTRY INITIATIVES

- The organization of economic co-operation and development (OECD) has published a survey of over 90 government and industry initiatives on green computing.
- The report concludes that initiatives tend to concentrate on the green computing themselves rather than actual implementation to tackle global warming and environmental degradation.
- In general, only 20% of initiatives have measurable targets, with government programs tending to include targets more frequently than business associations.

- ❑ Many governmental agencies have continued to implement standards and regulations that encourage green computing.
- ❑ The energy star program was revised in October 2006 to include stricter efficiency requirements for computer equipment, along with a tiered ranking system for approved products.

INDUSTRIES

- ▶ **CLIMATE SAVERS COMPUTING INITIATIVES (CSCI)** is an effort to reduce the electric power consumption Of PCs In active and inactive states.
- ▶ The **GREEN ELECTRONICS COUNCIL** offers **THE ELECTRONIC PRODUCT ENVIRONMENTAL ASSESSMENT TOOL (EPEAT)** to assist in the purchase of “greener” computing systems.
- ▶ **GREEN COMM CHALLENGE** is an organization that promotes the development of energy conservation technology and practices in the field of information and communications technology.

BENEFITS

- ▶ Improve the savings
- ▶ Eco-friendly and environment friendly

SOME ADVICES

- ▶ When you must print, do it double sided.
- ▶ Edit on screen, not on paper
- ▶ Save to disk instead on printing on paper

!! THANK YOU !!