

- Potential Solutions and Strategies to Overcome Water Management issues;

Water is one of the most precious resources on the planet. More than 1 billion individuals don't approach a wellspring of clean drinking water, and around 3 billion experience water shortage at any rate one month of the year. Water scarcity, is the absence of adequate accessible water resources to fulfill the needs within an area. There are so many countries around the world where water is unequally distributed, polluted and unsustainably managed. To prevent water scarcity and save water from misuse there are some ways and strategies through which we can overcome water wastage issues.

1. Sustainable water management:

For the better sustainable water management, tools like desalination and smart irrigation system will definitely help water efficiency and control, the largest consumer of water agriculture and farming can also apply these technologies so that it will be helpful in better sustainable water management. The water management infrastructure must be a priority in order to achieve efficiency and conservation as they are the key components of sustainable water management.

2. Saving water at home:

The first place through which a person can start to save water is from his/her home. At approximately 60% of all the water we consume in households can be saved from toilets and tubs. According to our preliminary research, few of the things that can be installed to save water at our home and to get big savings in water and energies is to install a low flow shower-head as it cut water usage by up to 20,000 gallons per year and save at least 10% on the cost of heating your water. Further, equipment like "Low-flow faucets models" will also help in

saving water smartly, by utilizing sensors, which mainly reduce the wastage of water (Lee et al. 2017). Despite this, there are various equipment's just like "automatic shut-off nozzles", "shower timers", and "rainwater tank", which help in preserving, water. It has been observed that rainwater tank is the way, by which rainwater can be "stored" in roof or outside of the house. It may save the 40% supply of drinking water, which may save "\$200 a year".

We will also educate people and young generations by giving them saving water tips like turning the tap on only as hard as you need, to only use the half flush button on your toilet instead of the full flush, consider installing water efficient appliances at home, report leaking taps, bubblers and toilets. It is important to note that bubbler or tap dripping just one drop a second can waste 7,000 liters a year.

3. Saving water at gardens:

This project will educate Aboriginals and young Australian population about how to use water efficiently in gardens. This is very important part of saving water as it is the part of household. So, while watering your garden we will focus to educate Childrens to use the water only on the base of the plants and not on leaves, the roots of plants will ensure the provide the needs of leaves. Furthermore, we can always place the plants according to our watering and gardening needs. Also, we will educate them to use water trigger nozzles and cans in gardens so that you always water those areas where it is necessary. If you need to wash your cars, you can do it smartly by washing them in the gardens so that you water and fertilize the garden at the same time, this can also be very effective because car shampoos use Phosphates that are like similar to many fertilizers. Additionally, we can always try to

wash our cars and water our garden at the same time early in the morning or in the evening so that we can reduce water loss through evaporation during the day. To clean your driveways always use a broom or a rake rather than using a water hose reel so that we can save water from this way too.

4. Saving water at commercial premises:

The best and effective way of saving water at commercial premises is to keep track of it. Businesses should also make responsible in their staff to keep track of water use so that it can help them to achieve effective results, the person should also be responsible of taking water meter readings to make sure there is no water leak. The other thing that can be done by businesses is to compare their water use with similar businesses in the industry, this will help us to achieve best results.

5. Awareness and Education:

Education is basic to address the water emergency. Truth be told, to adapt to future water shortage, it is important to profoundly change all types of utilization, from singular use to the supply chains of enormous organizations.