



Sustainability and Circular Economy

In general terms sustainability aims to avoid the depletion of our natural resources and maintain a balanced ecosystem and preserve natural capital. Circular Economy model is one of the enablers to achieve sustainability.

What are the Principles of Circular Economy?

The key principals of the circular economy are:

- 1- Reduce: Minimizing the use of resources, energy, and waste production and consumption.
- 2- Reuse: Reusing components whenever possible to extend their lifetime.
- 3- Recycle: Recycle materials at the end of the product life cycle to make new products.
- 4- Regenerate: Shifting to renewable energy and materials and restoring the nature ecosystem.

What is SAWACO Doing?

SAWACO recognizes the importance of moving from linear to circular economy, therefore, its circularity strategy aims to implement solutions and technologies that is based on increasing the life span of its assets, reusing, repairing, and recovery of resources in the production process.

SAWACO continues to explore innovative desalination technologies and IoT solutions to optimize plants efficiency in terms of energy and resources consumption (i.e., RO membranes and chemicals) with an aim to reduce

Its carbon emissions, and environmental impacts.

SAWACO is collaborating with partners in several fronts such as:

- 1- Increase RO desalination plant recovery rate and reducing brine goes back to the environment.
- 2- Implementing AI solutions to optimize the overall performance of SAWACO's desalination plants.
- 3- Monitoring GHGs Scope 1, 2, and 3.
- 5- Enhancing waste management and recycling

Transition from linear to Circular

