



## Introduction

Seawater is heated and vaporized in each stage, condensing the vapor into freshwater using Multi-stage flash distillation (MSF), which also includes anti-corrosive technology. MSF is a widely used desalination process that involves multiple evaporation stages.

Concentrated solar power(CSP) is another widely used process for energy production.

### **USP :**

**Conventionally, MSF uses fossil fuels to heat the water which is  
Expensive, exhaustible and contributes to pollution  
We are integrating the concentrated solar power technique  
which is:**

**Clean, inexhaustible and cheaper, in the long run, and for  
large-scale.**

**MSF also offers**

**high energy efficiency  
suitable for large-scale desalination projects.**

## Tech Stack:

Concentrated solar power(CSP)  
Multi-stage flash distillation(MSF)

## Use case:

CSP-MSF distillation can be used to  
Desalinate seawater or brackish water,  
Providing a source of fresh water for irrigation, industrial processes(like food processing),  
groundwater recharge,  
Potable water for daily consumption in arid regions where freshwater resources are scarce.  
CSP-MSF also has the potential to produce electricity that can be supplied to households.

## Showstopper:

MSF distillation faces  
challenges such as  
dependency on Sun.

