# HACK THE MOUNTAIN

## GREEN QUEEN

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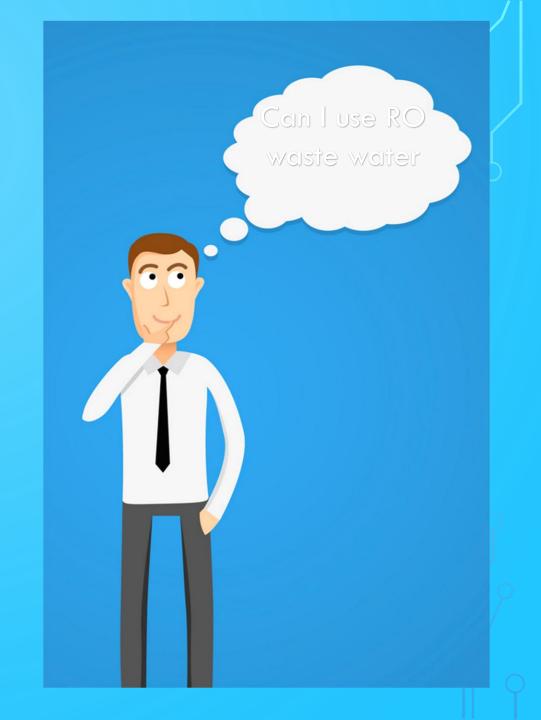
#### NEER SANCHAY

How much water of reverse osmosis system is useable?

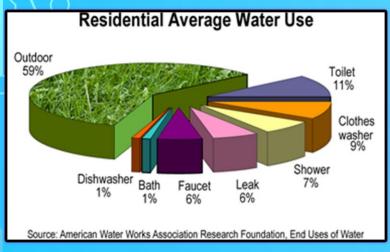
#### PROBLEM STATEMENT

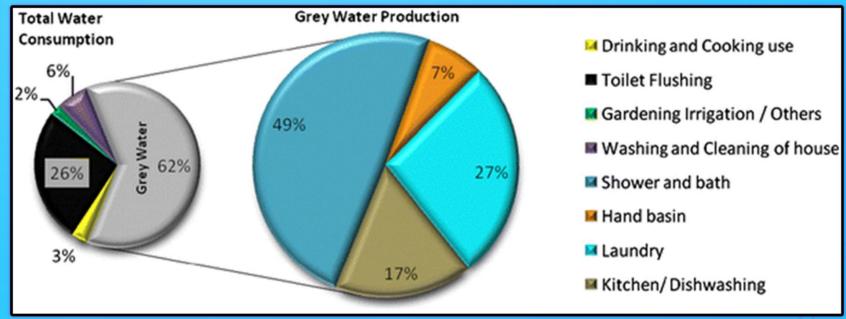
• In Reverse Osmosis (R.O system) each 1L of water that is cleaned discharges about 3L of effluent.

This grey water has high amount of TDS so can be used practically anywhere other than
for drinking .



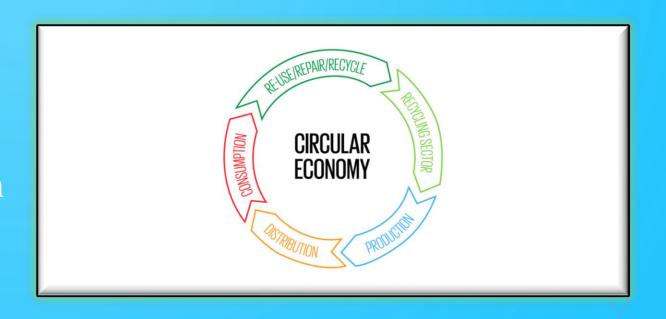
#### STATS - USAGE OF WATER IN DAILY BASIS





#### CIRCULAR ECONOMY

• Through the concept of circular economy which aims at converting waste into new raw material, we can repurpose the grey water for diverse purposes like cleaning, washing and gardening.



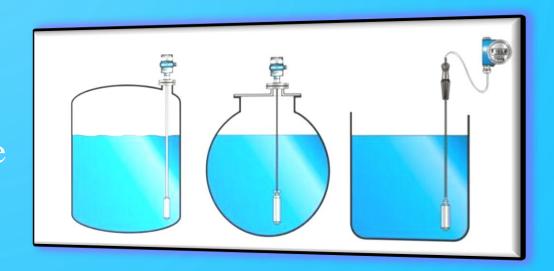
#### NEER-A WAY FORWARD

- We have ideated to develop NEER to minimize the wastage of grey water generated from RO purifiers.
- 10T controlled system equipped with sensors and pipelines.
- It can collect ,store and direct water for various purpose.



## HOW WILL IT WORK?

- The tank will be filled with the ejected waste water upto the red mark.
- As per demands, the outlets valves of pipes(one at a time) will open and release water.
- The automated valves will control the opening and closing of pipes depending on the needs.



## DEALING WITH PRICE CONFLICT

- At the present sensors prices, the bucket would cost less than Rs 1000.
- Every home RO system could be integrated with its compact version.



## LEADING TO SUSTAINABLE FUTURE

- Uses of this bucket will reduce wastage of water and time.
- Minimize human efforts and errors.
- Reduce direct dependence on fresh water.
- Cost effective

# It has tremendous potential to contribute to building a sustainable future