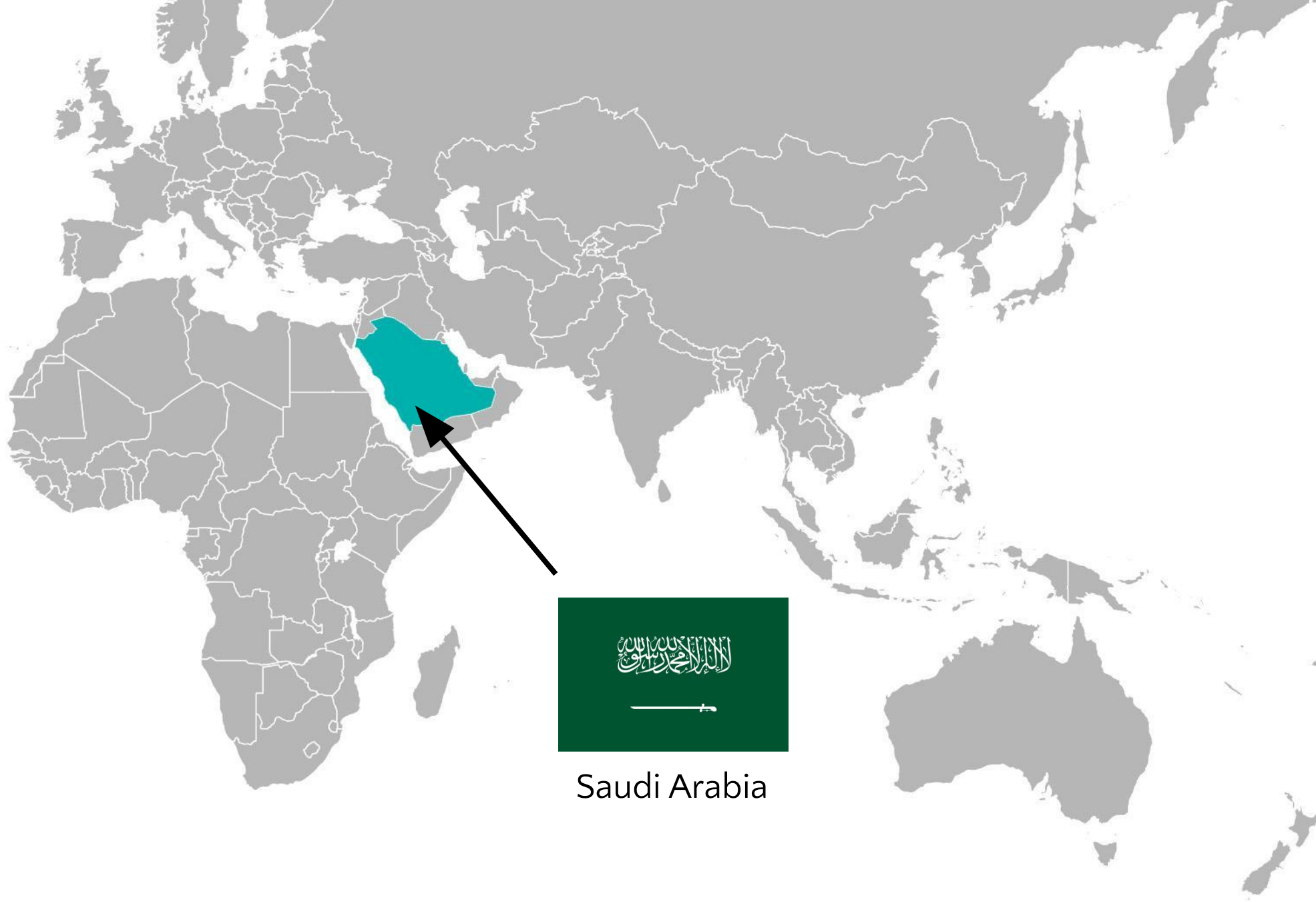




Technology Introduction



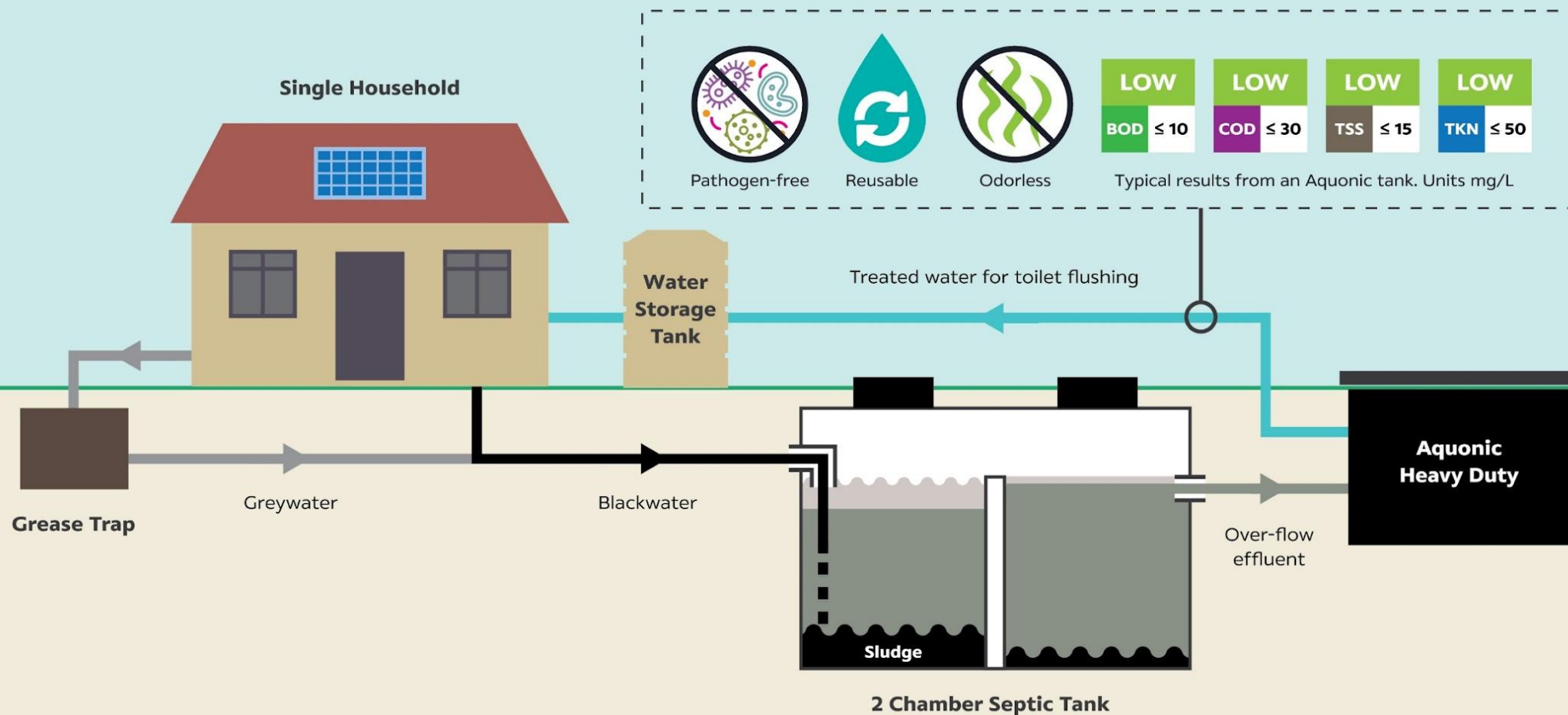
Saudi Arabia

eThekweni, South Africa

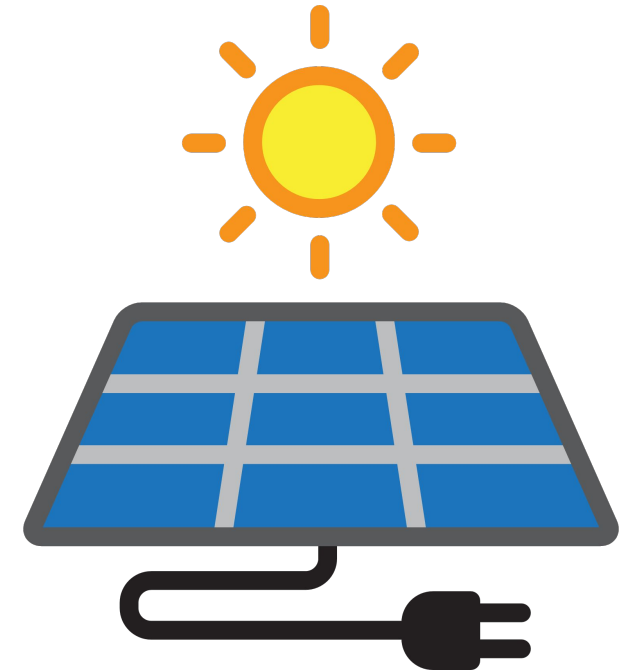




eThekweni, South Africa



eThekweni, South Africa



How to Calculate Number of Required Aquonic

Basic idea - Calculate for the maximum generation of wastewater per site

Info required

- 1) Number of toilet cubicle – e.g. 5
- 2) Volume of the toilet flush or pour – e.g. 6L
- 3) Number of hours per day the toilet is open for use – e.g. 8h
- 4) Number of days per week the toilet is open for use – e.g. 5 days

Assumptions

1. Use assumption that 1 person use toilet for 10min and flushes twice
2. Use assumption that 1 x Aquonic can treat 1000L per day, 7 days per week

Example calculation

Max wastewater per day for 1 toilet cubicle
 $= 6L \times 2 \times 6 \times 8 = 576L$

Max wastewater for toilet block per week
 $= 576L \times 5 \text{ cubicle} = 2,880L \times 5 \text{ days} = 14,400$

Required Aquonic tanks =
 $14,400 \div 7 \text{ days} = 2,057L \text{ per day} \div 1000L = 2 \text{ Aquonic}$

Go Global
Act Local

