

# 100% YEMEN

Transition to 100% wind, water, and solar (WWS) for all purposes  
(electricity, transportation, heating/cooling, industry)



Residential rooftop solar  
**23.1%**



Solar plant  
**44.5%**



Concentrated solar plant  
**13%**



Onshore wind  
**4%**



Offshore wind  
**5%**

## 2050

PROJECTED  
ENERGY MIX



Commercial/govt rooftop solar  
**7%**



Wave energy  
**2%**



Geothermal energy  
**1.2%**



Hydroelectric  
**0%**




Tidal turbine  
**0.2%**



### 40-Year Jobs Created


Number of jobs where a person is employed for 40 consecutive years

Operation jobs: 

**14,400**

Construction jobs: 

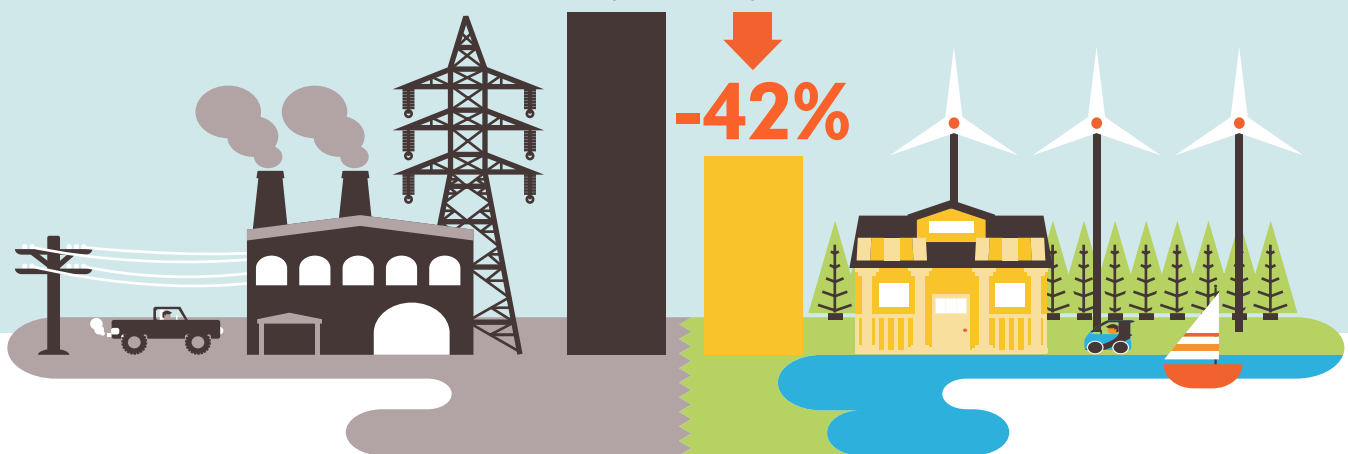
**19,712**

 = 5,000

Using WWS electricity for everything, instead of burning fuel, and improving energy efficiency means you need much less energy.

2050 Demand with BAU

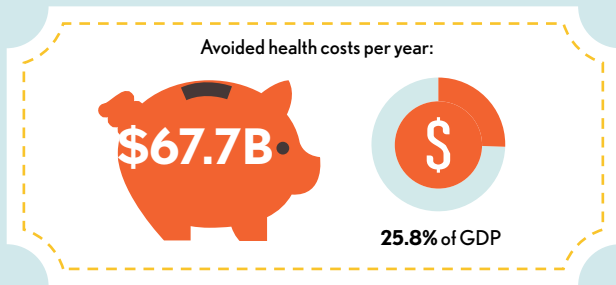
2050 Wind, Water, Solar



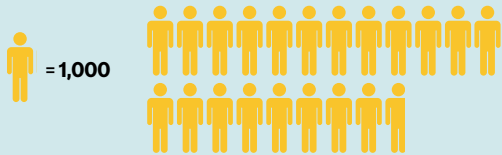
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## Avoided Mortality and Illness Costs



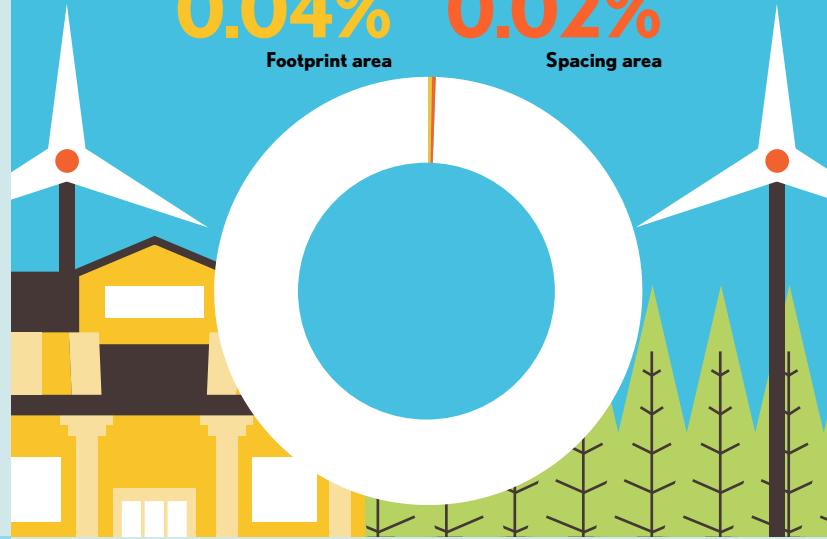
Air pollution deaths avoided every year: **20,522**



Plan pays for itself in as little as **0.7** years from air pollution and climate cost savings alone.

## Percentage of Land Needed for All New WWS Generators

**0.04%** Footprint area  
**0.02%** Spacing area



## Future Energy Costs 2050

● BAU (Business as usual) ● WWS (Wind, water, solar)



Average fossil-fuel energy costs\*

**12.1 c/kWh**

\*Health and climate external costs of fossil fuels are another 5.7c/kWh



Average WWS electricity costs

**8.8 c/kWh**

## Money in Your Pocket

☐ (P) = \$200

Annual energy, health, and climate cost savings per person in 2050: **1,745**



Annual energy cost savings per person in 2050: **\$9**