

100% BAHRAIN

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



Residential rooftop solar
3.3%



Solar plant
60.8%



Concentrated solar plant
20%



Onshore wind
1%



Offshore wind
8%

2050

PROJECTED ENERGY MIX



Commercial/govt rooftop solar
5.4%



Wave energy
1.3%



Geothermal energy
0%



Hydroelectric
0%



Tidal turbine
0.2%



40-Year Jobs Created

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

Operation jobs:



18,340

Construction jobs:



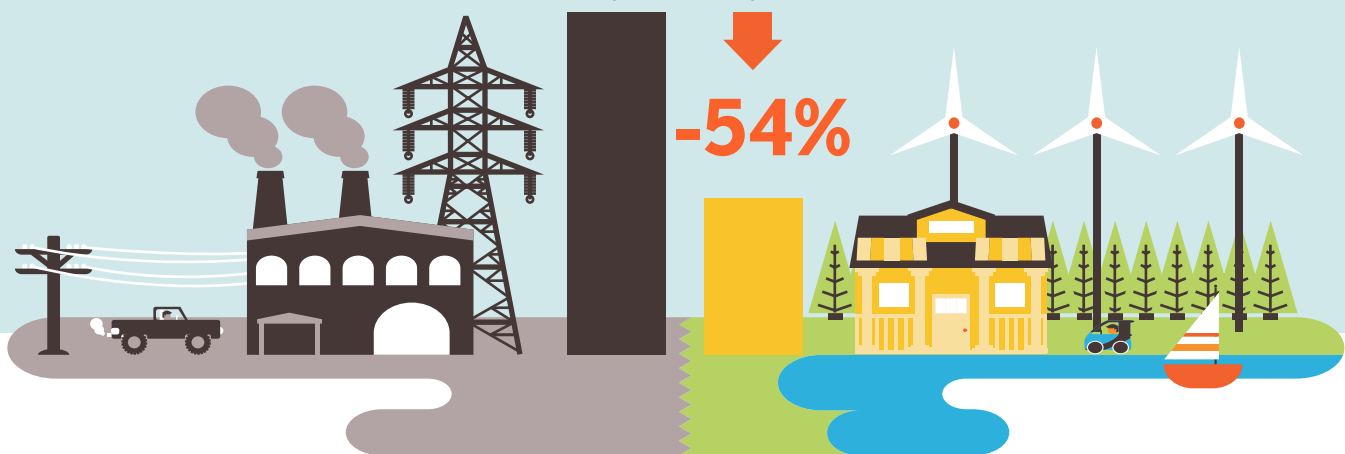
13,458

1 = 1,000

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

2050 Demand with BAU

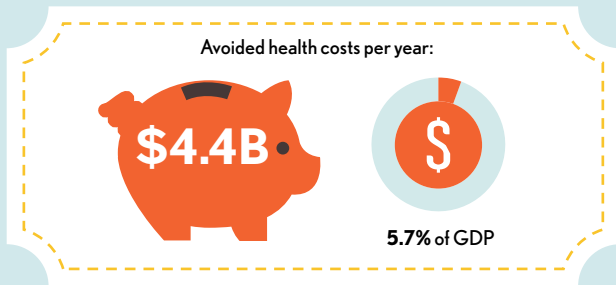
2050 Wind, Water, Solar



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Avoided Mortality and Illness Costs



Air pollution deaths avoided every year: **494**

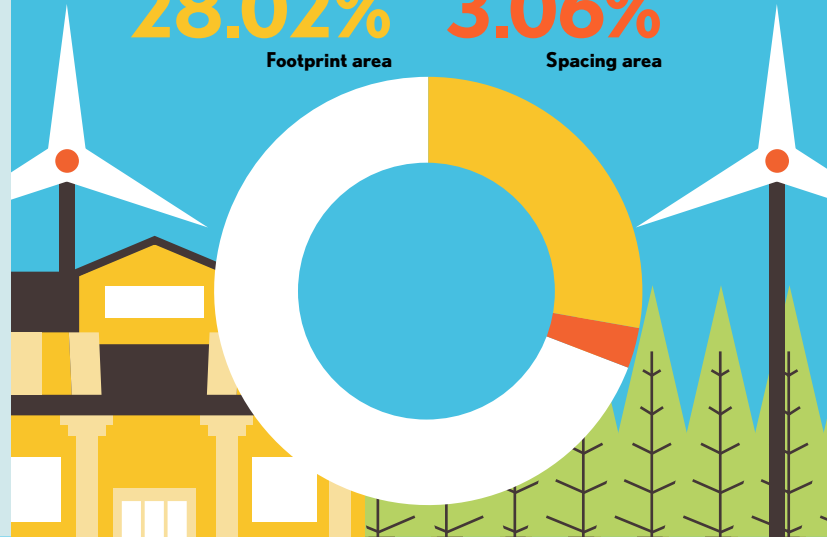


Plan pays for itself in as little as **1.3** years from air pollution and climate cost savings alone.

Percentage of Land Needed for All New WWS Generators

28.02% Footprint area

3.06% 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

7.3 c/kWh

Money in Your Pocket

(P) = \$1,000

Annual energy, health, and climate cost savings per person in 2050: **\$10,521**



Annual energy cost savings per person in 2050: **\$1,419**

