

100% QATAR

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



Residential rooftop solar
1.2%



Solar plant
77.5%



Concentrated solar plant
6.5%



Onshore wind
3.5%



Offshore wind
7.9%

2050

PROJECTED
ENERGY MIX



Commercial/govt rooftop solar
2.8%



Wave energy
0.5%



Geothermal energy
0%



Hydroelectric
0%



Tidal turbine
0.1%



40-Year Jobs Created

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

Operation jobs:



74,198

Construction jobs:



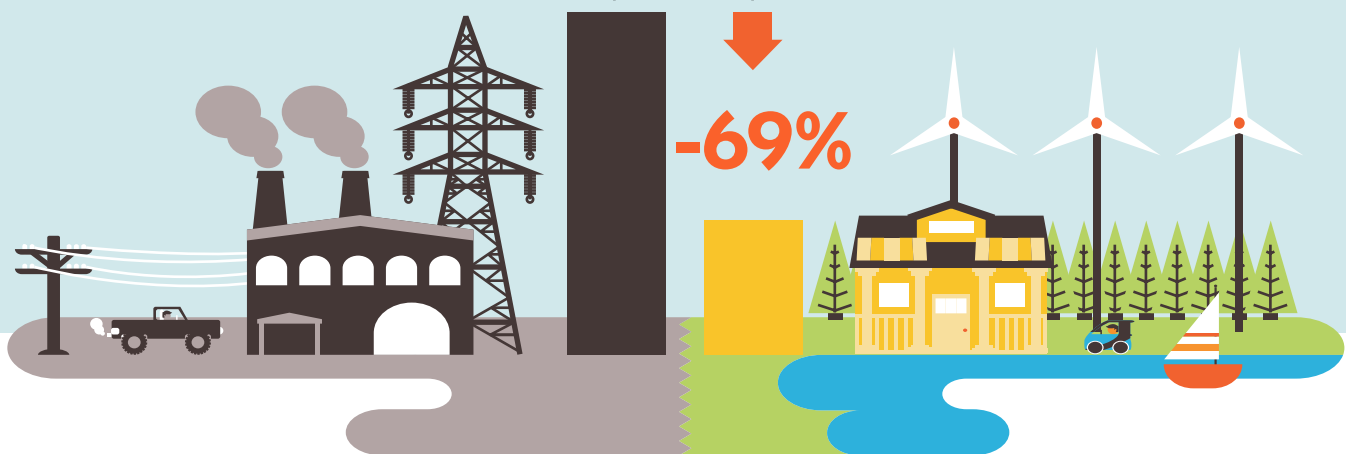
51,961

= 10,000

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

2050 Demand with BAU

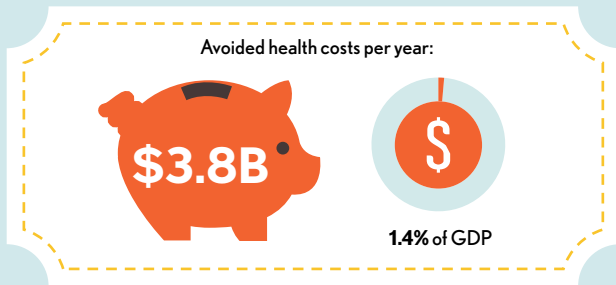
2050 Wind, Water, Solar



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Avoided Mortality and Illness Costs



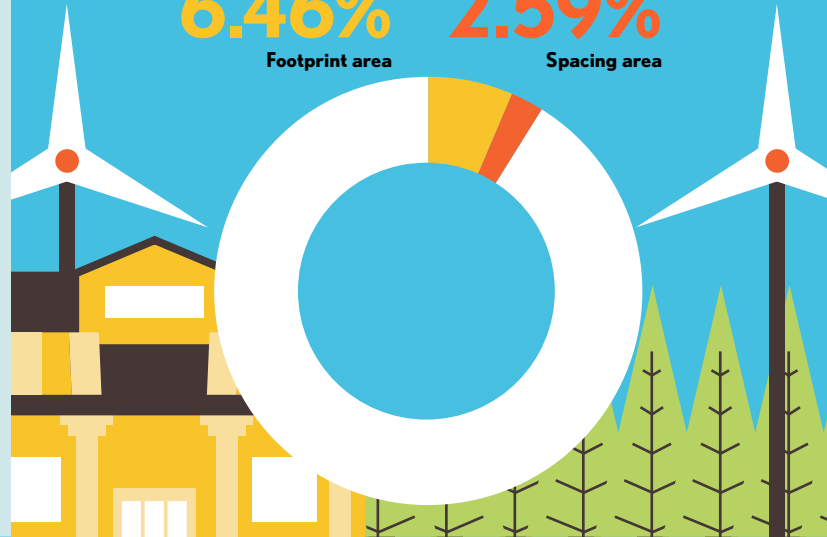
Air pollution deaths avoided every year: **271**



Plan pays for itself in as little as **1.2** years from air pollution and climate cost savings alone.

Percentage of Land Needed for All New WWS Generators

6.46% Footprint area
2.59% 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 c/kWh

Money in Your Pocket

(P) = \$2,000

Annual energy, health, and climate cost savings per person in 2050: **\$19,807**



Annual energy cost savings per person in 2050: **\$1,253**

