

100% RUSSIAN FEDERATION

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



Residential rooftop solar
0.7%



Solar plant
20.6%



Concentrated solar plant
0%



Onshore wind
48.8%



Offshore wind
22%

2050

PROJECTED ENERGY MIX

Commercial/govt rooftop solar
1.4%



Wave energy
2%



Geothermal energy
0.1%



Hydroelectric
4.4%



Tidal turbine
0%



40-Year Jobs Created

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

Operation jobs:



1,274,546

Construction jobs:



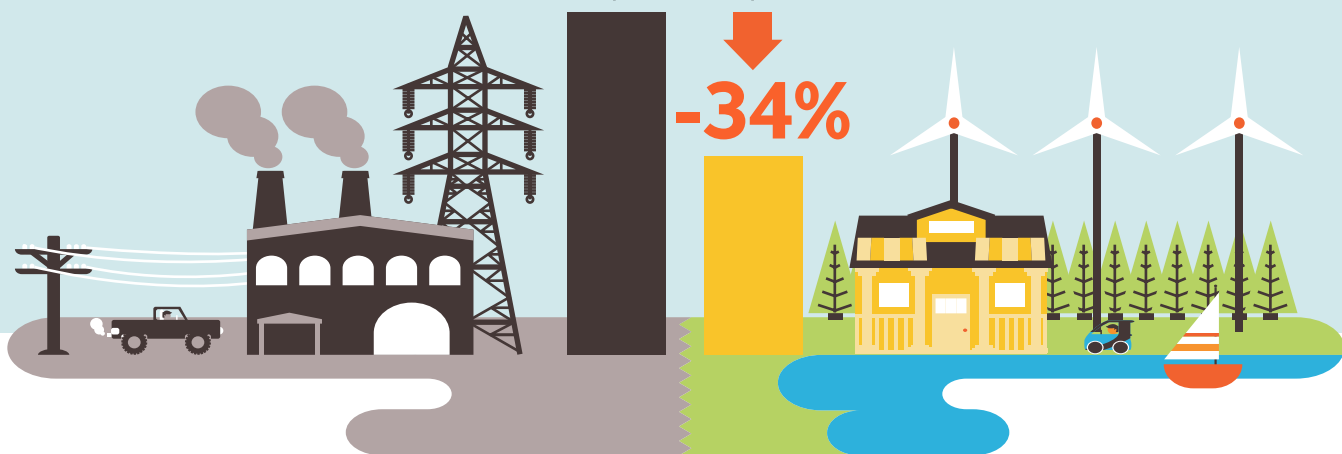
777,976

= 100,000

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

2050 Demand with BAU

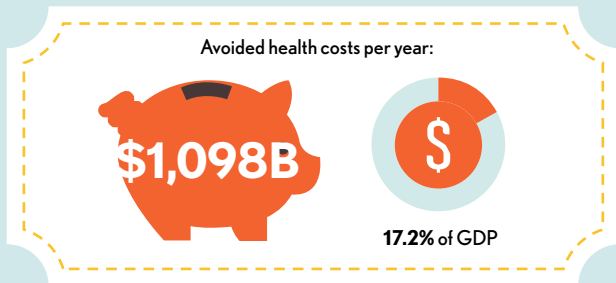
2050 Wind, Water, Solar



100% RUSSIAN FEDERATION

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

Avoided Mortality and Illness Costs



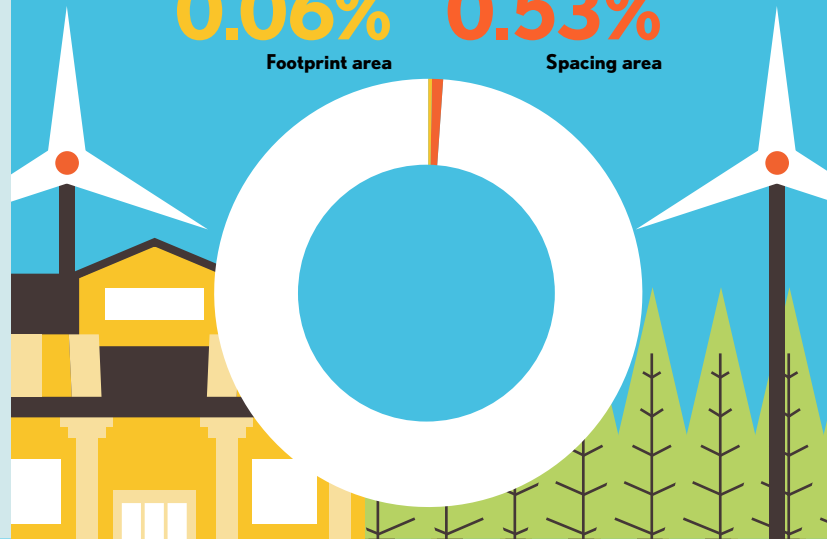
Air pollution deaths avoided every year: **104,097**



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

0.06% Footprint area
0.53% Spacing area



Future Energy Costs 2050

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



Average fossil-fuel energy costs*

10.5 c/kWh

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



Average WWS electricity costs

10.2 c/kWh

Money in Your Pocket

(P) = \$2,000

Annual energy, health, and climate cost savings per person in 2050: **\$18,867**



Annual energy cost savings per person in 2050: **\$522**

