

# 100% GERMANY

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



Residential rooftop solar  
**5.7%**



Solar plant  
**35.5%**



Concentrated solar plant  
**0%**



Onshore wind  
**35%**



Offshore wind  
**17%**

## 2050

PROJECTED ENERGY MIX



Commercial/govt rooftop solar  
**5.5%**



Wave energy  
**0.4%**



Geothermal energy  
**0%**



Hydroelectric  
**0.9%**



Tidal turbine  
**0%**



### 40-Year Jobs Created

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

Operation jobs:



**930,612**

Construction jobs:



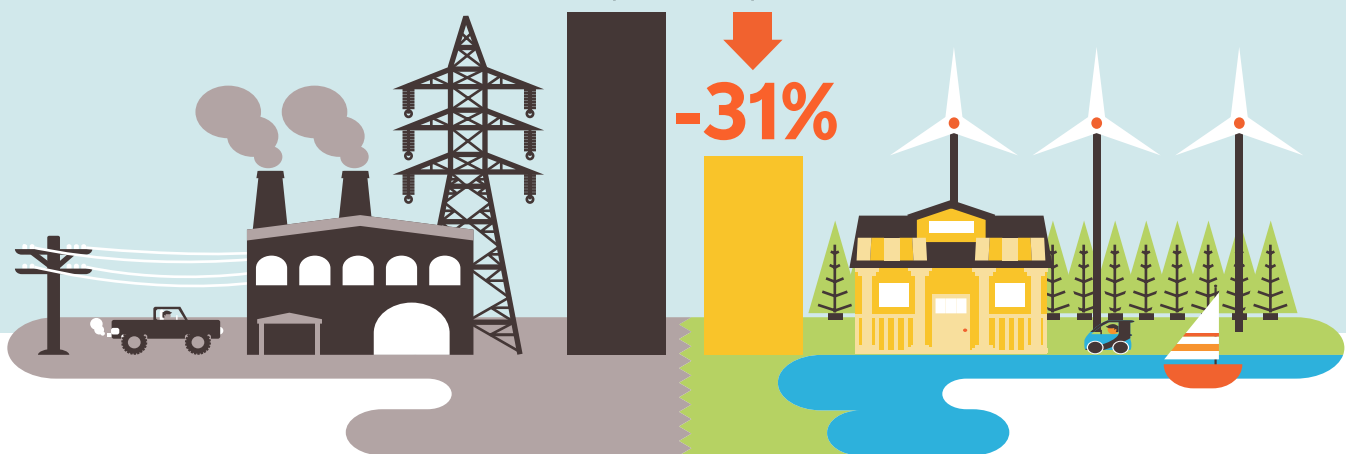
**630,298**

= 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

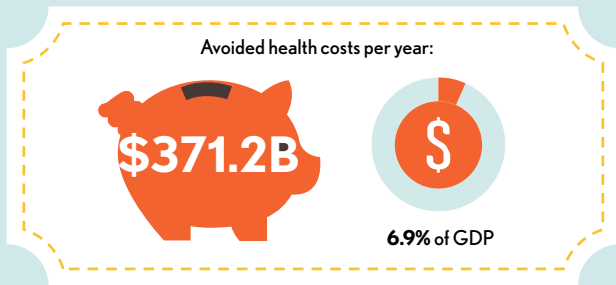
2050 Wind, Water, Solar



# 100% GERMANY

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: **31,132**



Plan pays for itself in as little as **1.6** years from air pollution and climate cost savings alone.

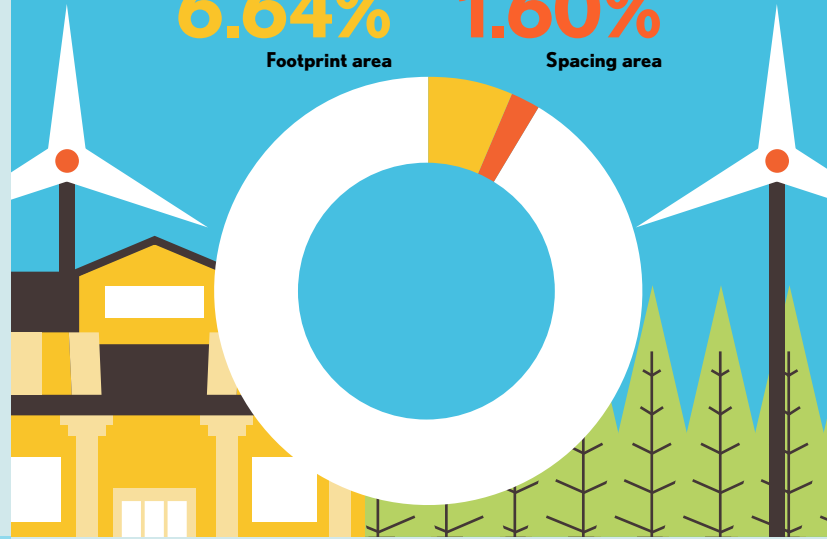
## Percentage of Land Needed for All New WWS Generators

**6.64%**

Footprint area

**1.60%**

Spacing area



## Future Energy Costs 2050

BAU (Business as usual)

WWS (Wind, water, solar)



Average fossil-fuel energy costs\*

**10.9 c/kWh**

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



Average WWS electricity costs

**8.5 c/kWh**

## Money in Your Pocket

**(P) = \$1000**

Annual energy, health, and climate cost savings per person in 2050: **\$11,014**



Annual energy cost savings per person in 2050: **\$529**

