100% SOUTH AFRICA

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

2050

PROJECTED ENERGY MIX

- Residential rooftop solar **1.6%**
- Solar plant **56.7%**
- Concentrated solar plant **10%**
- Onshore wind **20%**
- Offshore wind **7%**
- Commercial/govt rooftop solar **2.6%**
- Wave energy **1%**
- Geothermal energy **0%**
- Hydroelectric **1.1%**
- Tidal turbine **0%**

40-Year Jobs Created

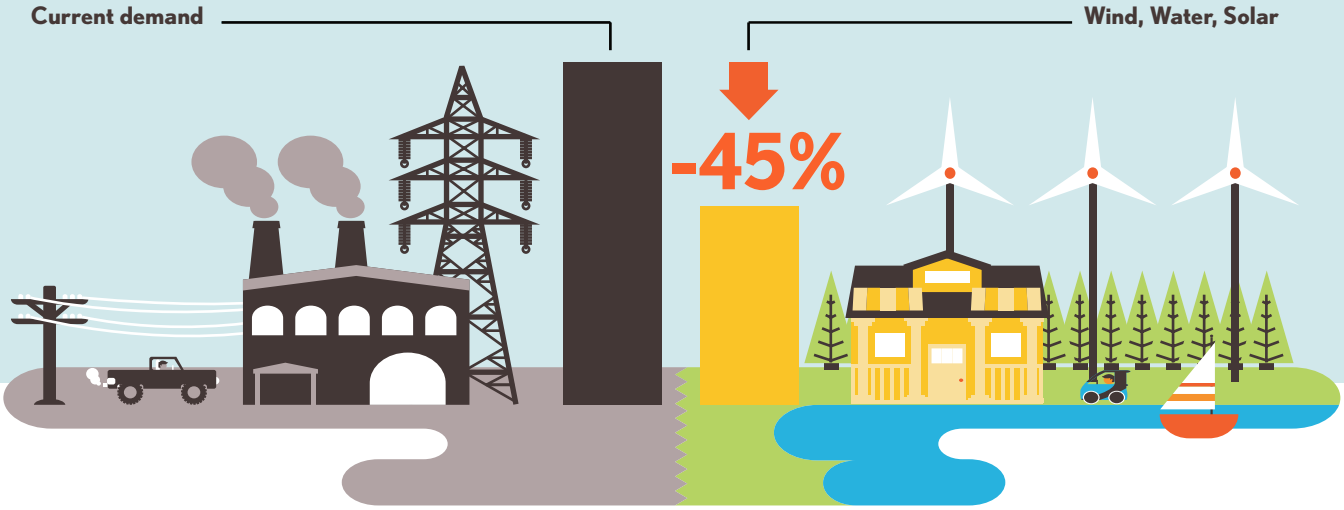
Number of jobs where a person is employed for 40 consecutive years

Operation jobs: **341,308**

Construction jobs: **261,253**

= 50,000

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



THE SOLUTIONS PROJECT

Data from Stanford University

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100% SOUTH AFRICA

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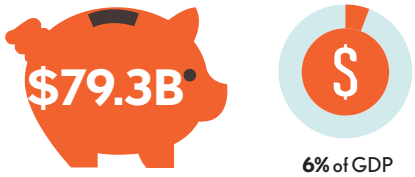
Avoided Mortality and Illness Costs

Avoided health costs per year:



6% of GDP

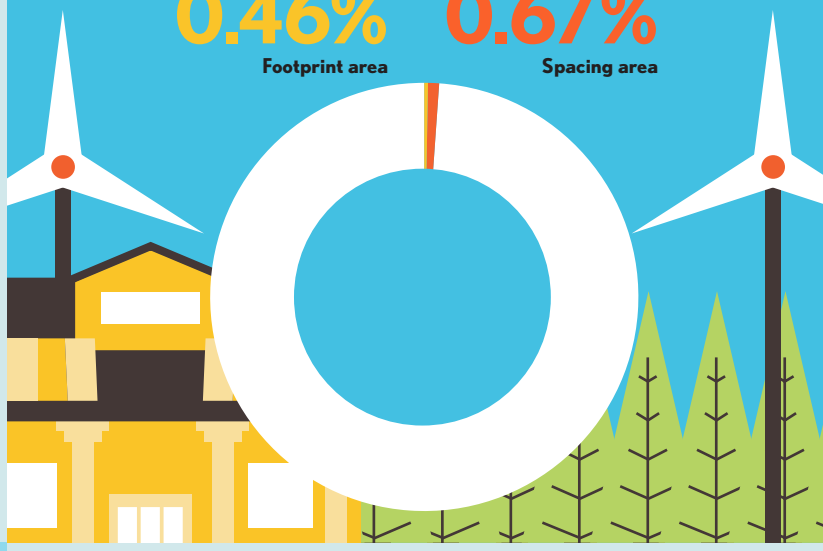
Air pollution deaths avoided every year: **11,129**

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

0.46% Footprint area

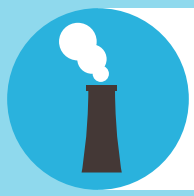
0.67% Spacing area



Future Energy Costs 2050

BAU (Business as usual)

WWS (Wind, water, solar)



Average fossil-fuel energy costs*

9.9 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

= $1,000

Annual energy, health, and climate cost savings per person in 2050: **$6,682**

Annual energy cost savings per person in 2050: **$549**

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