100% SOUTH AFRICA

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

- 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

Using WWS electricity for everything, instead of burning fuel, and improving energy efficiency means you need much less energy. -45%

Data from Stanford University
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Avoided Mortality and Illness Costs

Avoided health costs per year:

$79.3B

6% of GDP

Air pollution deaths avoided every year: 11,129

= 1,000

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

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

0.46% Footprint area

0.67% Spacing area

Percentage of Land Needed for All New WWS Generators

Data from Stanford University