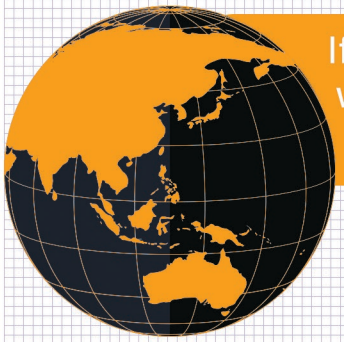
What does the global energy mix look like in the year 2050?

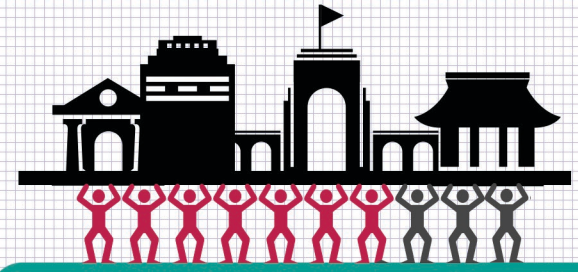
Let us first understand that by the year 2050, there will be 9 Billion people living on Earth!



If you took 9 Billion steps you would be able to go around the world 137 times!

India will be the most populous country in the world

China will be the 2nd largest country



70% of the Earth's population will be living in Megacities and Regions

By the year 2050 the cost of oil and fossil fuel based sources of energy would go up!

Other sources of energy would be cheaper by this time

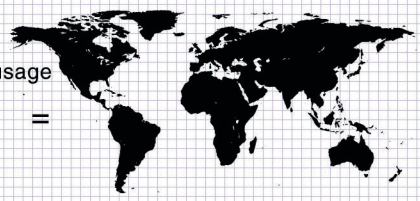
How much will we need in the future?

Global Electricity Demand will reach

16,000 TerraWatt Hours

Equivalent to 4x U.S current usage

=



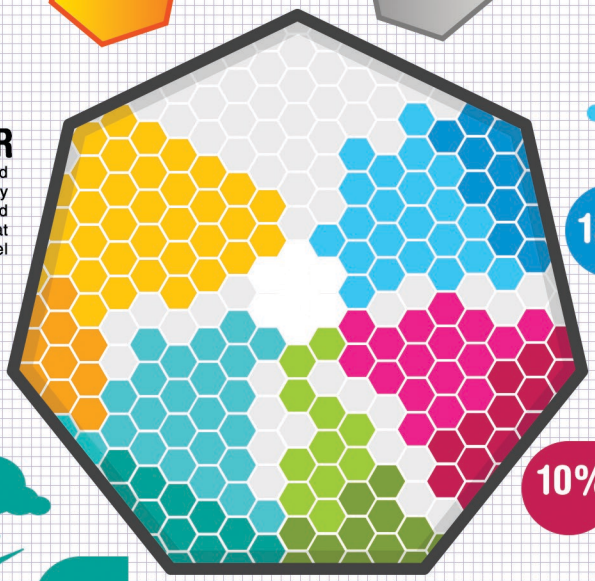
The demand for energy will increase over 85%

Currently over 1.4 Billion people have no access to reliable electricity

With the help of renewable energy sources offer the poetential to transform the qality of life and imporve the economic prospect of billions

Our Global Energy Mix would be mostly made up of renewable resources such as

Although Natural Gases and Oil still play a part in the future mix of Energy sources,they are not as important as renewable options



SOLAR

Energy supplies around half of our total electricity half of our buildings and 15% of our industrial heat and fuel

50%

HYDRO

15%

Harnessing 0.1% of the energy of the ocean we could support the energy needs of 15 billion people

WIND

With current growth rates the energy supplied by wind can meet a quarter of the world's demand

20%

By 2050, 1,000,000 onshore and 100,000 offshore wind turbines will be built

GEOTHERMAL

10%

By 2050 more than a third of building heat could come from geothermal sources

BIO FUEL

5%

Realistic replacement of all motor vehicle fuel with biofuels by utilizing algae that have a natural oil content greater than 50%

http://www.un.org/esa/population/pubsarchive/india/20most.htm#2050
http://www.exxonmobil.com/Corporate/Files/news_pub_eo2013.pdf
http://www.ensaa.eu/index.php/energy/98-energy-demand-in-2050.html
http://wwf.panda.org/what_we_do/footprint/climate_carbon_energy/energy_solutions/renewable_energy/sustainable_energy_report/