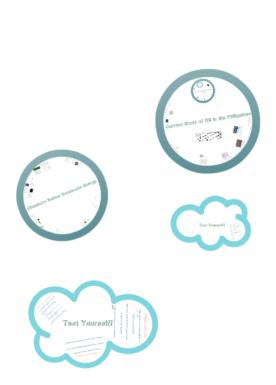
Renewable Energy Co.

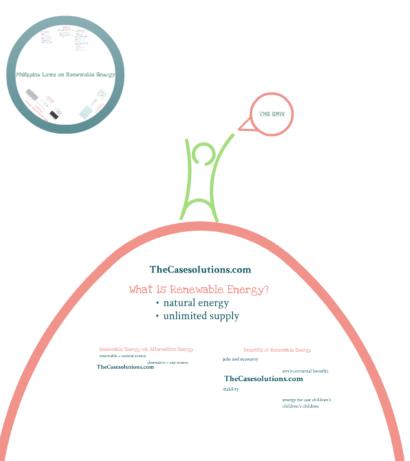






Renewable Energy Co.







The Casesolutions.com

What is Renewable Energy?

- natural energy
- unlimited supply

Renewable Energy vs. Alternative Energy

renewable = natural source

alternative = any source

Benefits of Renewable Energy

jobs and economy

environmental benefits

The Casesolutions.com

stability

energy for our children's children's children

area power suppry (1411 o)

 run-of-the-river hydroelectricity systems -harness energy without large reservoirs

In the Philippines...

multipurpose hydroelectric power system strategy in designing

The Casesolutions.com

SAN ROQUE DAM

- capacity of 85 MW
- surplus power that reduces dependence on imported fuel oil
- lowers the variable operating expenses of other power plants
- offers substantial power benefits



Hydroelectric Power The Casesolutions.com

- flowing water creates energy
- common types: dam on a river to store water in a reservoir
 micro hydro systems used in water rich areas as a remotearea power supply (RAPS)
- run-of-the-river hydroelectricity systems -harness energy without large reservoirs



c power system strategy

eCasesolutions.com

Advantages

• the Philippines is rich in water



In the Philippines...

CEPALCO'S 1MWP PHOTOVOLTAIC POWER PLANT

- -Cagayan de Oro
- -6,500 solar panels and set on a 2 hectares of land
- -ability to supply the energy requirement of not less than
- 900 CEPALCO residential consumers
- -capacity to produce not less than 14,000,000 kWh
- electricity per year

photovaltaics (r v) - method of generating electrical power

-converts solar radiation into direct current

electricity

-uses semiconductors that exhibit the photovaltaic

effect

Advantages

- Philippines' location and being tropical
- inexhaustible fuel source
- no pollution
- often an excellent supplement to other renewable sources
- versatile

Disadvantages

- very diffuse source = low energy production
 - -large number of solar panels
 - large land areas
- limited to only areas with lots of sunlight