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# Sustainability of Technology

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— Sources of Energy —

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# Felix Hermida

- a. Personal/spiritual expectations: Living a long and meaningful life and being able to look back and be proud of what I have achieved when I am on my deathbed.
- b. Social Life: I wish to live with my family in my home country (Dominican Republic) where hopefully my closest friends will be living as well.
- c. Material Life: Own a fairly sized home and own a boat for me and my family.
- d. Work/ occupation: Become a successful civil engineer and become the leader of my own construction company.
- e. Recreation/ avocation: Travel around the world.
- f. Political Life: Be aware of politics but I will not get involved in it.

# Laith Yousif

Personal expectations- Get a college degree/job and live a successful and happy life

Social life-I hope to live near my family/extended family in the midwest and have a close knit group of friends

Material life- Nothing flashy, just a big enough place for me and my family to live comfortably

Work/Occupation- Become a chemical engineer and hopefully do well and move up in a company

Recreation- Coach sports

Political life- Understand politics and vote, but not run for office

# In Kang

Personal expectations: I would like to live a successful life and be a mentor to the youth.

Social life: I want to live near my family and keep the relationship with my friends when I get old.

Material life: I wish to have a pool house and sports cars.

Occupation: Become a chemical engineer and run a business about chemistry.

Recreation: I hope to learn how to fly a plane and steer a boat.

Political life: I would be aware of my perspective on politics and vote accordingly.

# Taylor Connor

Personal expectations- Get a bachelor's degree and possibly extend my education to medical school. Live a long, happy life

Social life- I hope to stay close with my current best friends, along with meeting new people. I also hope to live the rest of my life close to family

Material life- I want to not have to worry about money, but also just live comfortably, nothing too big

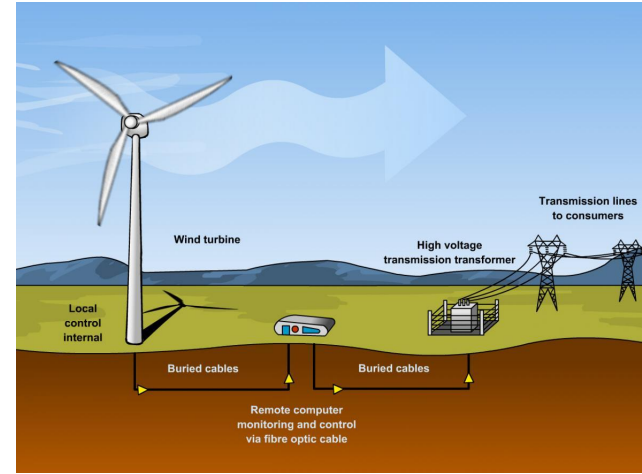
Work/Occupation- Become a biomedical engineer, and possibly a doctor (pediatrician)

Recreation- Art, fitness, sports

Political life- Learned to be more involved in politics, enough to vote, but not run for any type of office

# Wind Power

- Is an alternative to burning fossil fuels, renewable, clean, produces no greenhouse gas emissions during operation, and uses little land.



- The most common sources of wind power are windmills. These turbines turn a generator that creates electrical power from the kinetic energy of the wind.
- The only downside to using the windmills is that it makes some noise (comparable to that of a refrigerator) but it is one of the types of powers that least affect our environment.

# Solar Power

Extremely cost effective (You can receive money for using solar power)

<http://cleantechnica.com/solar-power/>

Work with direct or indirect sunlight

Cleaner

Over a lifespan the average residential system can offset 250k lbs of CO<sub>2</sub>!

It is in abundance

# Hydro power

Using constantly moving water which is evaporated from lakes and oceans

Producing energy constantly

Flowing back down to oceans; water is not wasted

Not producing greenhouse gases

Expensive to construct, but lasts decades

<http://energy.gov/eere/water/water-power-program>



# Nuclear Power

- Does not produce greenhouse gases
- It is the largest clean-air energy source and the only one that can produce large amounts of energy around the clock
- Power plants prevent 700 million metric tons of carbon dioxide from entering the atmosphere each year
- Power plants use water but do not consume it. Nuclear plants use between 26 and 42 gallons of water per household per day. The average American household uses 315 gallons of water per day!



<http://www.go-green.ae/green-column.php?aid=112>