

Name: Spencer Little

Spin Class

My idea for making power is to take the wheel's power in spin classes and convert it to power. Think about it, people will make power and burn fat and calories while doing it. It will be not polluting the air or water from the leftover waste. Not only will this help the environment, but it will help people get into shape. Unlike a windmill it will not need to rely on wind. I would also lower the price to take classes so more people do it and more energy is produced.

My idea for making power by the wheels in spin class will work the same way as a windmill. It will use the turning wheel to make power. The power will be sent straight to a factory and into the building itself. I then can make the price to take spin classes less. If I made enough spin classes around the world that's more power for the world that it makes. This is how it would work.

Using spin classes as a way of power I think is very realistic. I cannot think of any reason why it would not work. The one big problem with my idea is not having enough money to pay for it all. Since all they have to pay is about \$1, it might not be enough money to pay for everything needed. I would also put as many places to go to spin classes as possible around the world so I can get a lot of energy. This is my idea for making power.

Name: Lucas Kehoe

Lucas Charged Ones

Have you ever wondered if you could make energy by walking? Well now you can. We have invented shoes that make energy. When you're walking and your phone runs out of battery, you can charge it in your shoe. For everybody that likes to walk, run and play this is for you. We don't need electrical outlets when you can charge with Lucas Charged ones by walking.

Now that you know what we have created and what its purpose is, we will tell you how it works. In the sole of the shoe there is a charger that you can plug into your phone to charge it. You recharge the shoe by walking. Also, the shoes are waterproof, so you can wear them in the rain or any kind of weather. Additionally, you should buy this product because it will last for years and it is hard to break. The shoes sell for only \$105, that's a good deal. This new technology is made by Under Armour, so you can buy it at their stores.

I hope that our product will be successful in the future and that it will quickly grab the attention of people around the world. We hope to accomplish many things. First, we want many people to buy our product. Then, we want people to like our product so much that they will tell all their friends. Finally, I

want this technology product to become famous, so people will say “wow, that shoe is so cool, I wish I invented it!” This invention helps the world by making people happy and by generating energy in a natural way.

Name: Olivia Goff

Solar Powered Shingles

Have you ever lost power in your house? When that happens it is likely due to an issue with the energy from a power plant near you or your home. A power plant is a place where power is generated for many people to share. We have to use power cautiously. There are many ways people can save energy. For example, a person can turn off the TV when they are not watching it or by simply turning the water off when brushing their teeth or washing their hands. Doing these things can help a local power plant because when people save energy it saves the resources we use to power our homes. Saving energy is so important because we use it in our everyday lives.

The resources people rely on to power their homes are called nonrenewable items. We use oil, coal, and natural gas which are nonrenewable items to power our homes every day. I want to make an invention to save energy and resources like oil, coal, and natural gas. My invention would be shingles that attract energy from the sun like solar panels do.

I know that people want to make an effort to save energy, but some people don't like the way solar panels look on their home. I think my invention would make people think differently. Solar powered shingles would be like any other house

shingle. They would have the same look and the same color, but they would be powered by the sun and conserve energy. They would work like a solar panel, but they would be more attractive so that more people will want to have them on their houses and conserve energy. I know that if I tried to invent solar powered shingles I could make them work well. Solar powered shingles would be very important to our future and I hope that I can materialize this invention some day!

I think solar powered shingles are realistic because I know solar panels work. I think inventing solar powered shingles would encourage people to save energy. It would also make a big change in how many nonrenewable items people use. I hope that people would want to buy solar powered shingles. Solar panels are wonderful objects to use to conserve energy, but imagine if even more people would want to buy them as shingles? Solar powered shingles would work the same, but I think solar powered shingles would attract more customers.

Conserving energy is an amazing thing to do for the earth and it is a great thing to do to save nonrenewable items like oil, coal, and natural gas. I hope that people can make an effort to conserve energy because it is so important!

Name: Ojas Singhvi

Window Energy Saver

I have been learning on how to conserve energy and why this is important to all of us. First, it is important to conserve energy because power plants produce pollutants when they produce energy. This damages the earth and it is important to find ways to save energy and stop further harm to our planet. Second, this is important because you can save lots of money. Third, this is really important because there isn't unlimited energy for all of us to use. We were given an assignment to come up with an invention that conserves energy. You will hear about this invention, how it works, and if it's realistic in this paper.

My invention is called the Window Energy Saver. This invention is a window that has wires inside the window, which are transparent. These wires would stop any sunlight from getting inside the house by absorbing the sunlight. The absorbed sunlight would then be transported through more wires and into a generator that will later supply the house with energy for anything. This will cause less damage to the earth. Also, because my invention stops the sunlight from getting inside, the house will stay nice and cool. This will help save energy and money in the summer, because you won't need to use the AC as much.

My invention is half realistic, because we don't have transparent wires to absorb the energy from the sun and store it in a generator. Although, the other half of the invention is realistic. Instead of absorbing the energy and storing the energy with transparent wires. You could use reflective coatings on the window to prevent the house from getting hotter. But, my invention could work if we had transparent wires. All in all my invention would conserve lots of energy and I hope you invent a machine that will conserve energy too.

Name: Alexandra Baldwin

Dirty Shower Water

Do you know how much water is used every day? Just washing your hands can use over an entire gallon of water! The United States uses about 18% of the entire world's energy! Most people don't think about energy conservation, which leads them to use more energy. Saving energy is important because it reduces the natural resources used.

What if we could take the energy used, and turn it into something else? My invention uses your dirty shower water and runs it through a filter in the water pipes so you can use it to flush your toilet. The filter, will clean the water making it safe and environmentally, friendly to flush. That saves over 17 gallons of water per shower!

Water is used every day, and everyone wastes it unknowingly. We can all conserve energy with my invention just by taking a shower. If we use my product, we can all conserve energy, one flush at a time!

Name: Jane Leras

Personal Energy Meter

Most people don't think about the amount of energy they are using when they turn on the lights, TV, phones, drive their car, or use other electrical devices. People don't know how much energy they actually waste each day because it is hard to understand how much energy each devices uses. Many home appliances quietly use electricity all day and all night – even when they are not in use! Most drivers don't know that driving fast and braking hard wastes a lot of energy. If people knew exactly how much energy they used each day ad whether it came from renewable or nonrenewable sources, they would try to conserve more energy and switch to renewable sources.

To help save energy, I think we should invent a personal energy meter that would tell each person how much energy you used at the end of the day. The personal energy meter might be an application on your cell phone that would track every activity and tell you how much energy was used, how much pollution was created, and whether the energy was renewable or nonrenewable. For example, the personal energy meter would tell you how much energy you use when you turn on

the heater to warm up a room or make a piece of toast. It would let you see how much energy you wasted when you left the lights on in a room and remind you to turn the lights off. The personal energy meter would tell you how much hot water you used in a shower. It would let you see instantly if changing how you did things each day made a difference in how much energy you used.

The personal energy meter could also be connected to the internet so that people could see how much energy they used compared to their friends and family. It could even be designed like a videogame, where people advanced to new levels based on how much energy they saved each day. The electric company could even have contests each month to see who used the least energy. People could also compete with each other to see who could get to school or work using the least energy. We could also have online contests to see who used the least energy in a week and give the winners prizes to encourage people to use less energy. If everyone had a personal energy meter, it would make them more aware of the energy they used each day and help people save energy.

Name: Gabriella Minasian

The Adventures of Energy Girl

There once was a city called Nonrenewable City, dictated by Nonrenewable Man. The city is not conserving their energy and is filling with smoke due to the burning of fossil fuels like oil, natural gas, coal, and uranium. These are nonrenewable so they can only be used once.

Then one day a new superhero came to Nonrenewable City to help the citizens conserve energy and use solar, wind, water, biomass, and geothermal energy because they are renewable energies. They can be used over and over again. Renewable energy also doesn't pollute the earth. Energy Girl had finally tracked down Nonrenewable Man at his evil lair. Energy Girl strongly told Renewable Man, "Stop using nonrenewable energy, it pollutes the earth." Nonrenewable Man responded back, "No, we use nonrenewable energy for generating electricity for homes, to heat houses, dry clothes, and to cook food." "Then I challenge you to a duel at sunrise tomorrow!" Energy Girl remarked bravely. "You're on!" Nonrenewable Man answered back. "Winner rules the city."

The next day at sunrise Energy Girl and Nonrenewable Man met. Nonrenewable Man took the first move and shot carbon dioxide at Energy Girl. However, Energy Girl harnessed the wind from wind turbines. Wind turbines are blades that collect the wind's kinetic energy to generate 4% of the total U.S. energy. She blew the carbon dioxide back at Nonrenewable Man. "Give up!" shouted Energy Girl strongly. "Never" Nonrenewable Man responded back. Energy Girl turned a solar panel towards Nonrenewable Man's eyes blinding him. Meanwhile, Energy Girl harnessed all of the wind from wind turbines and knocked Nonrenewable Man down. "I surrender!" exclaimed Nonrenewable Man sadly. Then Energy Girl replied kindly, "You have a choice Nonrenewable Man. You can stay evil and leave this city or you can become good and stay here and help me teach the citizens how to conserve." "I shall stay here if you can convince me to stay," Nonrenewable Man spoke warily, "Let me explain how to conserve," Energy Girl answered. "By turning your lights off, closing your refrigerator, and turning all appliances off when you are not using them to conserve energy. You can also recycle things like old paper into new paper, glass into new glass bottles, and plastic bottles into carpets and clothes. Composting also helps the environment by recycling kitchen scraps into dark rich soil for gardens." "I will stay here and become Solar Boy," Nonrenewable Man replied.

Energy Girl and Solar Boy have taught the citizens of Nonrenewable City how to use renewable resources by putting up windmill farms. These windmills have blades that are connected to a drive shaft that turns the electric generator which produces electricity. This happens because solar panels absorb the sun's heat energy and P.V. cells change sunlight directly into electricity. When photons strike a P.V. cell, only the absorbed photons provide energy to generate electricity. Also water turbines generate 30% of U.S. energy and are placed on strong waterfalls like Niagara Falls.

Later Nonrenewable City changed its name to Renewable City because of all of its conserving, recycling, composting, and usage of renewable resources. Until this very day Renewable City is learning how to conserve, recycle, compost, and use renewable resources by Energy Girl and Solar Boy.

