

Candidate 1 evidence

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
4	ENERGY	
	<p>In Qatar, Saudi Arabia fossil fuels is extremely high as that's where most of the world oil supply comes from, they have a lot of oil so they use it.</p>	
	<p>Scotland has the highest wind power out of all of these countries this is due to the fact there's been a huge promotion of wind turbines and green energy from the Scottish government. We can also have the weather to host them lots of windy hilltops which is why we use them over other energy supplies compared to the other countries</p>	
	<p>Canada main source of energy comes from hydroelectric power which is because of the terrain steep mountainsides lots of water, so so dams and other hydroelectric plants are built. Utilizing the space they have to create green energy</p>	

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France is a big supporter of nuclear energy and the government fully supports it which is why they have so many plants and it's their biggest producer. It is heavily subsidised.

The highest country for geothermal power is Kenya this could be because it's close to the tectonic plates, meaning there's a build up of magma heating the surface so they take what they've got and use it to get the power from it.

Italy doesn't use any nuclear which is because of their policies which won't allow them to build nuclear power plants. It also has the highest solar use which could be because it's closer to the equator therefore it gets more sun.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
1d	Windpower

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with small blades and ~~and~~ huge turbines with blades that generate enough power for a whole community.

Compared to other ~~and~~ renewable energies they aren't as expensive to make and there is a great benefit to them.

They can be turned on/off to use when they are in demand.

They are always working ^{because of weather.} when the demand is high which is a problem.

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5.	<p>The area will already be flat and ready to build on as it previously was an air field which is an advantage.</p> <p>An advantage is that the whole community seems to be there, everything you need apart from a shop which is a disadvantage as the people would have to commute to Corby to get their shopping.</p> <p>It's close to the main roads which is good for the people living there as there's easy access but also for the workmen who are building it.</p> <p>You would most likely have to travel commute for work which could be a disadvantage.</p> <p>New woodland and green space is good for the environment. Keeping the place green and environmentally friendly it will also absorb some of that 20% of the non renewable energy in the form of CO_2.</p> <p>A hotel there is an advantage as it brings in tourists who add to the economy by also to the sports and leisure facilities as well.</p>

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b) This will be amazing for the environment with 80% of the energy being green. Also by using electric buses and having cycle routes it keeps the cars off the road and not emitting as much CO₂.

There will be a good sense of community with everyone in the same area.

The population is set to rise by Diagram Q5C says it's on the incline so having somewhere else just outside of Corby will be good to house everybody.

There will be all different generations there from your school kids to elders in the retirement homes which will bring the community together everybody helping everyone else out.

Corby would bring in tourists who might want to stay 'out of town' which could send people to the hotel bringing in money to the local community.

By having mostly everything in their own small community it means they travel less.

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meaning, less time waited and less emissions from the transport. It also means their money is being spent locally and not going out to Corby

~~The Area is contained~~

The Area is contained between to woods and roads on either side so it secluded in a way

Candidate 2 evidence

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
①	<p>a) Diagram Q1A shows that the Bamako is right next to the River Niger. This means that it will be prone to flooding. Building a dam will provide protection for Bamako when there is floods.</p> <p>Diagram Q1B shows that from January to June the river doesn't go above 4000 cumecs. Building a dam will mean there is all round navigation of the river so goods can be transported.</p> <p>⑩ generating wealth.</p> <p>Diagram Q1C shows that there is no rain from November to March and during these months the temperature doesn't go below 23°C. This means there will be severe drought during these months. The dam can provide irrigation systems so crops can still be grown during these months.</p> <p>Diagram Q1D shows that the population is expected double by 2050. A dam will be able to provide jobs and water for the growing population</p>

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	<p>Diagram Q1E shows that only 39% of people have access to improved sanitation. The dam will provide a clean and reliable source of water to try and increase this percentage. Also only half of the population have access to electricity. The dam will provide cheap hydroelectric power so more people can have electricity.</p> <p>Also 62% of the population is employed in agriculture. The dam could provide more jobs in this sector because of the irrigation systems.</p> <p>Diagram Q1A also shows that neighbouring countries could benefit from the dam. HEP could be exported to places like Niger which will benefit the economy.</p> <p>b) The town of St Thomas had to be flooded during the creation of Lake Mead.</p>

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People were forced out their homes	
This could have created costly law	
suits and delayed construction.	
Ancient burial sites were also	
destroyed during the creation of	
Lake Mead.	
Building the dam was extremely	
expensive and took years to pay off	
the debts.	
The running and maintenance of the	
dam is also expensive. The dam now	
has to be desilted and desalinated,	
these are two expensive procedures.	
Maintaining the HEP turbines is	
also expensive.	
Transporting the water to near by	
countries costs a lot. The \$6 billion	
Central Arizona project was put in	
place to transport the water	
straight to Phoenix.	
Thousands of animals lost their	
habitats during the creation of	
Lake Mead.	
There is conflict between countries	

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⑤	and states on who has to pay for desilting and desilting of the river as it runs through multiple The construction of lake mead destroyed multiple animal habitats and forced them out of the area. Diagram Q5A shows that the development site is the right next to an A class road. This will make it easy for transporting construction materials. It also shows that the site is a good distance away from the built up areas so there won't be many noise complaints. The diagram also shows that a new link road will be put in place. This could be quite costly.

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Diagram Q5B shows that after development ~~both~~ on both the A427 and the A43 the peak hourly traffic flow will increase. This will create more air and noise pollution which people might complain about.

Diagram Q5C shows that the population of Corby is expected to almost double by 2040. The new development site will be able to provide homes and facilities for the rising population.

Diagram Q5D shows that there is going to be new woodlands/ parkland. This will benefit the environment and create new animal habitats.

On the map it shows that Deenethrope Airfield (958 906) is very close to the building site. This will create a lot of noise pollution for the people living there.

The map also shows that the

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is outside of the city so it will be relatively cheap.

The land is also ~~reason~~ pretty flat where the site would be so will be easy to build on.

However if there was to be expansions made it could be costly as there steep hill next to the development site.

The A427 is right next to the building site. This could raise safety concerns as there will be schools in the development area so parents might worry about having children close to a dual carriage way.

Grange farm (965 895) is close to the site which could cause issues as the construction could disturb animals and the farmer may object to construction on his land as it may ruin it so compensation would have to be payed creating additional costs.

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Paths would have to be closed in
Bocking ham forest as the development
site is meant to be built on them.
Parts of Weldon Park would have
to be cut down to allow construction
This will damage the environment
and destroy animal habitats.
There is an industrial estate on
the outskirts of Corby. This could
attract people to the area as there
could be job opportunities

Candidate 3 evidence

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
(3)	<u>MILANKOVITCH THEORY</u> —
a.	THERE IS A CHANGE IN THE
	EARTH'S TILT/ORBIT WHICH ALTERS
	THE AMOUNT OF ENERGY REACHING
	EARTH.
	EVERY 41,000 YEARS THERE IS A
	CHANGE IN THE TILT.
	THIS EFFECTS HOW MUCH SUNLIGHT
	REACHES POLAR REGIONS.
	EVERY SUNSPOT ACTIVITY ACTIVITY
	FOLLOWS AN 11 YEAR PATTERN IN
	WHICH TEMPERATURES WILL DIFFER
	DURING THESE PERIODS.
	<u>VOLCANIC ERUPTIONS</u> CAUSE DROPS OF
	SULPHUR AND DUST IN THE ATMOSPHERE
	TO REFLECT THE SUN RAYS, MEANING
	THE ENERGY IS NOT GETTING INTO
	EARTH.
	<u>CHANGES IN OCEAN CIRCULATION</u> DUE
	TO THE MELTING OF LARGE GLACIERS
	IN ARCTIC AREAS.

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METHANE IS RELEASED FROM MELTING PERMAFROST.	
b. HOUSEHOLDS ARE ENCOURAGED TO SWITCH OFF LIGHTS AND <u>USE THEIR ENERGY SPAREINCLD.</u>	
MANS ARE SWITCHING TO <u>ELECTRIC OR HYBRID CARS</u> WHICH DON'T RUN ON FUEL AND ARE ENVIRONMENTALLY FRIENDLY.	
THE UK IMPLEMENTED A <u>HOSE PIPE BAN</u> TO SAVE WATER DURING DROUGHT PERIODS.	
↓ <u>EFFECTIVE</u> IN SAVING DURING THIS TIME AS IT HELPS PREVENT PEOPLE FROM WASTING.	
↓ <u>EFFECTIVE</u> BECAUSE MANS DON'T COMPLY AND THUS IT DOESN'T HAVE MUCH EFFECTIVE.	
↓ <u>SOMEWHAT EFFECTIVE</u> AS MANS ARE USING ELECTRIC/HYBRID CARS AS THERE	

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NEW CARS INSTEAD OF PETROL OR DIESEL FUELED CARS, THIS MEANS OVERTIME IT COULD GROW TO BE MORE EFFECTIVE.	
<u>IMPROVEMENTS TO PUBLIC TRANSPORT</u> WHICH HELP ATTRACT PEOPLE INTO USING IT INSTEAD OF THEIR CAR.	
↓	
<u>EFFECTIVE</u> IN REDUCING NUMBER OF CARS ON THE ROAD AND IN TURN REDUCING CARBON EM POLLUTION.	
INCREASING THE <u>COST OF PLASTIC BAGS</u> HELPS INFLUENCE PEOPLE TO BRING / BUY RE-USEABLE BAGS INSTEAD OF PLASTIC.	
↓	
<u>EFFECTIVE</u> AS MAND OPT INTO BUYING THEIR OWN RE-USEABLE BAGS AND THUS REDUCING THEIR PLASTIC USE.	
<u>RENEWABLE ENERGY</u> SUCH AS SOLAR PANELS CAN BE USED IN HOMES	

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	<p>TO SUPPLY ENERGY AND REDUCE THE COST AND EFFECT OF USING FOSSIL-FUELED ENERGY. ↓</p> <p><u>EFFECTIVE</u> AS MANY PEOPLE WANT TO SAVE MONEY AND THUS THEY BUY SOLAR PANELS.</p>	
	<p>(5) NEARBY GRANGE FARM MIGHT BE AFFECTED AT DISTURBANCE CAUSED BY BUILDING PROCESS THAT HAS NEGATIVE EFFECT ON ANIMALS.</p>	
	<p>NEARBY FOREST AT 965907 WILL COST MONEY TO CUT DOWN, AS WELL AS MORE TIME.</p>	
	<p>LAND AT 950908 IS NOT FLAT WHICH WOULD EITHER COST MONEY TO FLATTEN OR MAKE BUILDING THERE AN ADDED STRUGGLE.</p>	
	<p>THERE IS GOOD ACCESS TO MOTORWAY A427 TO THE CITY CENTRE WHICH WILL BE ATTRACTIVE TO RESIDENTS WHO WORK</p>	

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IN THE CITY CENTRE.	
THERE ARE NO RIVERS IN THE AREA WHICH MEANS BUILDING WILL BE BETTER AS THERE WILL BE NO FLOODING.	
AREA BETWEEN ⁴ 959 905 AND 963 915 IS CONSIDERABLY FLAT, MEANING THAT BUILDING HERE WILL BE CHEAPER AS THERE'S NO COST OF FLATTENING AREA.	
↓ THIS AREA IS ALSO EMPTY WHICH MEANS THERE WILL BE NO COSTS OF REMOVING OR CUTTING ANYTHING DOWN.	
THERE ARE NO SHOPPING AREAS AROUND WHICH MEANS RESIDENTS WOULD NEED TO TRAVEL INTO THE CITY CENTRE WHICH IS INCONVENIENT FOR THEM TO DO.	
THERE ARE CONNECTIONS TO DEENE PARK FROM ROAD A43, WHERE FAMILIES COULD GO TO FOR A WALK OR SWIM (LAKE).	

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SKILLS AND TRAINING CENTRE WOULD
IMPROVE PHYSICAL AND MENTAL HEALTH
of NEW RESIDENTS.

SPORTS AND LEISURE CENTRE COULD
HELP BRING ECONOMIC GROWTH TO THE
AREA AS PEOPLE WILL COME TO USE IT.
↓

COULD ALSO HELP INCREASE FITNESS
AND LIFE EXPECTANCY.

MAN AND WOMEN WILL COME TO THE AREA WHICH
WILL IMPROVE AND HELP BUSINESS IN
THE AREA.
↓

TOURISTS WILL BE ABLE TO VISIT AND
STAY IN THE HOTEL.

RENEWABLE ENERGY SOURCES WILL BE
SAFE AND POSITIVE FOR THE ENVIRONMENT.

Candidate 4 evidence

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2.	<p>a) The water-related disease I have studied is Malaria.</p> <p>One impact is decrease in work force. Due to people being sick and not being in work it causes a demand on services, like healthcare or education, because there is a lack of people operating the services. It also leads to lack of income for people.</p> <p>Another impact is food shortages. Due to illness many farmers or food productions will be too sick to work and tend to crops. This will create an unreliable food source and a high demand, resulting in food shortages and starvation.</p> <p>One other impact is on health care. Hospitals and clinics will be of such high demand to</p>

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<p>prevent, diagnose and treat those by malaria. Many hospitals won't have enough space to take in other medical needs like surgeries or elderly care. Another impact is education. Many teachers will be off sick by malaria so cannot provide the basic education to the children. Also children may be missing multiple vital days of school due to being ill. Both these decrease the youth population's basic education and skills needed for future jobs. One other impact is funding. The government will need to make health care their priority so will fund to build new hospitals, vaccination programs and pay for new doctors. This will reduce</p>	

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	<p>funding in other areas such as housing, education or policing.</p> <p>b) i+ii) One strategy is Barefoot doctors. These are local people trained to prevent, diagnose and treat basic health care. They can also educate local people in rural areas on basic health and give them access to health care quicker. This is very effective as rural people trust the Barefoot doctors as they are people they know. It also prevents demand on bigger hospitals and prevents travel to big cities by having the doctors in rural areas.</p> <p>Another strategy is Vaccination programs. This is when</p>

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<p>Vaccines are given out to a population to reduce the spread of a disease, like malaria, or a virus, such as the influenza virus. This can be very effective as it decreases the chances of the people catching and spreading the diseases. Although many developing countries, like Bangladesh, cannot afford to pay for the amount of vaccines needed for their population number.</p> <p>One other strategy is local health clinics. These are small clinics in rural areas which which employ around 3 trained doctors. These can be effective as it gives rural areas access to quality</p>	

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health care and it can educate the people however, due to the lack of doctors and equipment, some patients need to be sent to bigger hospitals anyway for treatment.	
Another strategy is Education talks. These are provided in rural areas to educate people about their diets, sanitation, contraception and how to notice signs of illness. These are effective as it reduces numbers of serious health cases due to being prevented and treated sooner.	
Another strategy is Family contraception education. Many families are provided education on contraception and the health of being	

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5. ^{a)}	

pregnant and the risks.
This is effective as it can help reduce ~~an~~ ~~the~~ fast increase of births but also prevent deaths during birth for both the baby and mother.

Another strategy is education on sanitation. This provides education about how to keep sanitation to a good level and what causes it. This is effective as it reduces disease spread and water related diseases to be an issue. Also increases life expectancy.

One advantage is that it has flat land. This makes it cheaper and easier to build on this area.
Another advantage is the

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A427^{+ A43} main road which will allow access for big machinery to build the area but also access for residents when built.

Another advantage is it has mostly clear land. There isn't much forest or residential areas near by making it cheaper to build on.

A disadvantage is that there is Weldon Park close by at GR 945899. This may mean the foresty area will have to be chopped down to make space, making it more expensive to build.

A disadvantage is that there is already some residential buildings and a Mast at GR 952902. This may create building issues.

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	as it will need taking down, may be costly.	
	An advantage is that there is good scenery. There are hills near by and forests such as Burn Coppice, GR 975915. This may be attractive to families to move there.	
	Another advantage is the of foot paths in the area. This will encourage people to live there but also encourage cyclists for the new cycle path.	

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b)	<p>One impact is road ^{car pollution} congestion. Diagram 5B tells us that traffic flow will increase for both A427 and A43. A427 increases by about 200 and A43 increases by just below 400. This may have an effect on car fossil fuel released being increased but also noise pollution. It can also lead to congestion and road rage. It can also make the area dangerous for children at school ending time but also for wild life in local forests such as GR 946919.</p> <p>Another impact is population. Diagram 5C shows the population is expected to</p>

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<p>increase from around 75 thousand to 170 thousand by 2040. This can cause demand on jobs in the area but it can benefit the village as more homes will be sold and schools provided with children.</p>	
<p>Another impact is the new A43 link road in diagram 5D. This will provide greater access to the village for residents or users of the centres.</p> <p>#####</p>	
<p>Another impact is the sports centres and skills centres, these will provide more jobs and opportunities for locals but also encourage tourists and visitors to the area. It will</p>	

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	generate income for locals and authorities.
	Another impact is community. By providing all levels of education schools and sport entertainment in the area it will bring the village community together.
a)	Another advantage in diagram 5A is that the village is close to the main city of Corby. The village is only around 280 000 kilometres away from the Corby city. This allows more work