

Iceland

THE LAND OF FIRE AND ICE



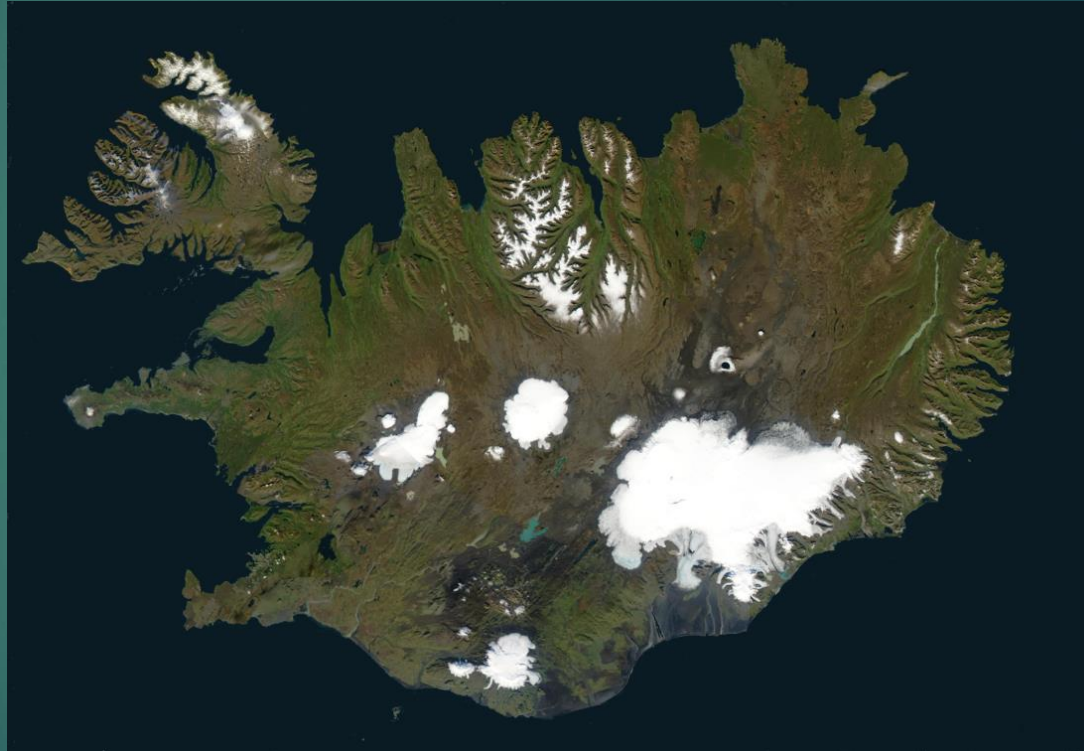
Meaning

- ▶ The airplane wing emerging from an egg symbolizes the way a baby bird comes out of the egg, breaking its shell.
- ▶ This work by Magnús Tómasson was to foster a feeling of new beginnings and adventure in hopes that Iceland would give you a new perspective of the world.

Background

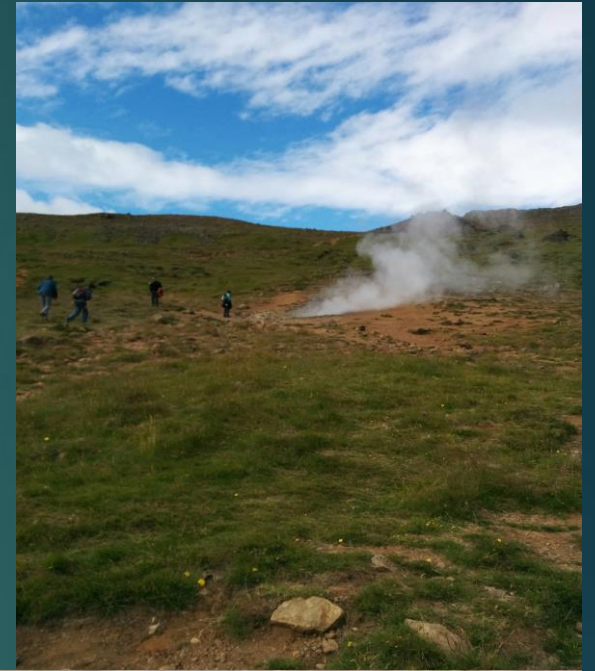
1) Iceland, an island about the size of Kentucky.

2) The most volcanic region in the world. More than 13% is covered by snowfields and glaciers. Most of the people live on the 7% of the island that is made up of fertile coastland.



Geothermal Energy

Geothermal energy refers to the production of energy using the internal heat of the Earth's crust.



Gyser's



How do they do it?

The production of geothermal energy involves drilling wells into the Earth's crust at approximately a depth of 3-10 km.



Fun Fact

The excess hot water from the drilling is used for the famous Spa the *Blue Lagoon*.



Natural Hot Rivers

The Blue Lagoon is not the only place to experience naturally heated hot springs.



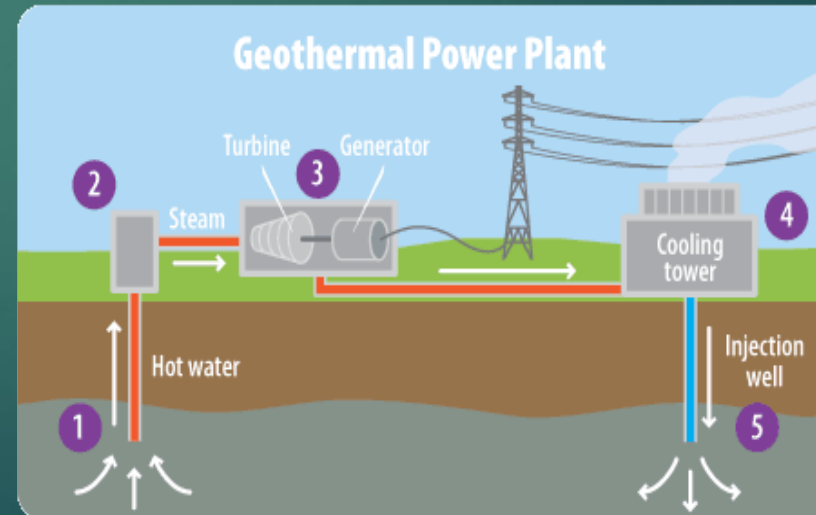
What do they use the energy for?

Hot water from the earth may be extracted to heat homes and buildings.



What do they use the energy for?

Geothermal heat can also be used to produce electricity in a geothermal power plant. Electricity is generated when geothermal heat produces steam that spins turbines on a generator.



Fun Fact

No one in
Iceland pays
for electricity!

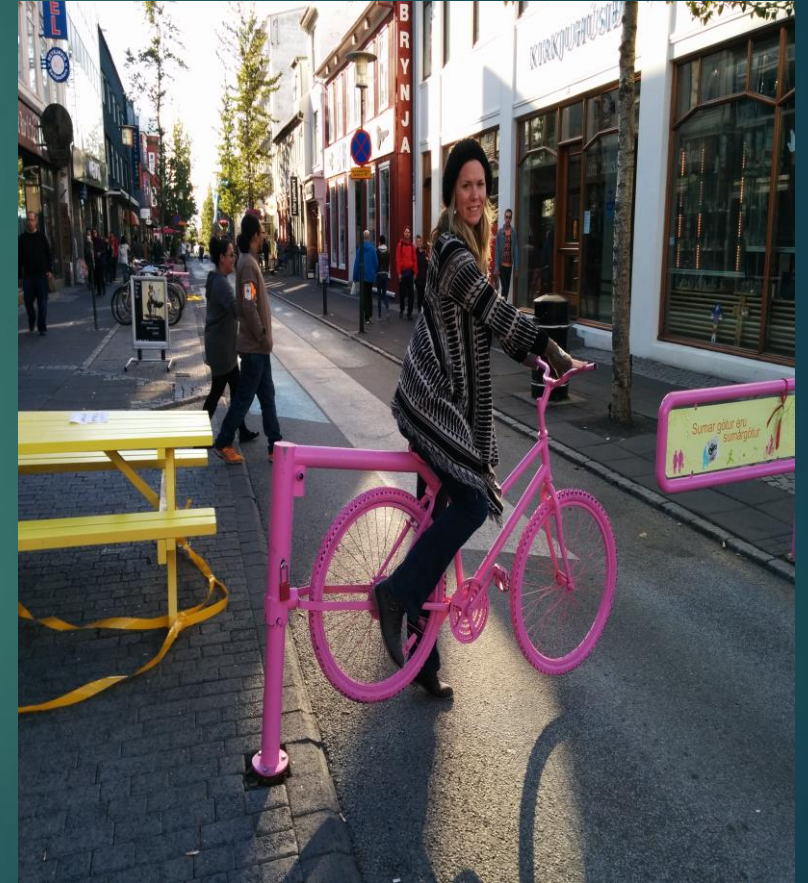


Environmentally Conscious

- ▶ Iceland is one of the most environmentally sound countries in the world.
- ▶ Their natural habitat is very important to them. They only live on 7% of the whole country to protect it.
- ▶ Here are some other things they do to keep their environment safe.

Bike friendly!

At rush hour they close the main roads and make them bike paths.



Conservation Areas

The whole country is pretty much a conservation area. Because of it's landscape no vehicles can travel to the interior of the island. You need to go by foot or by plane.

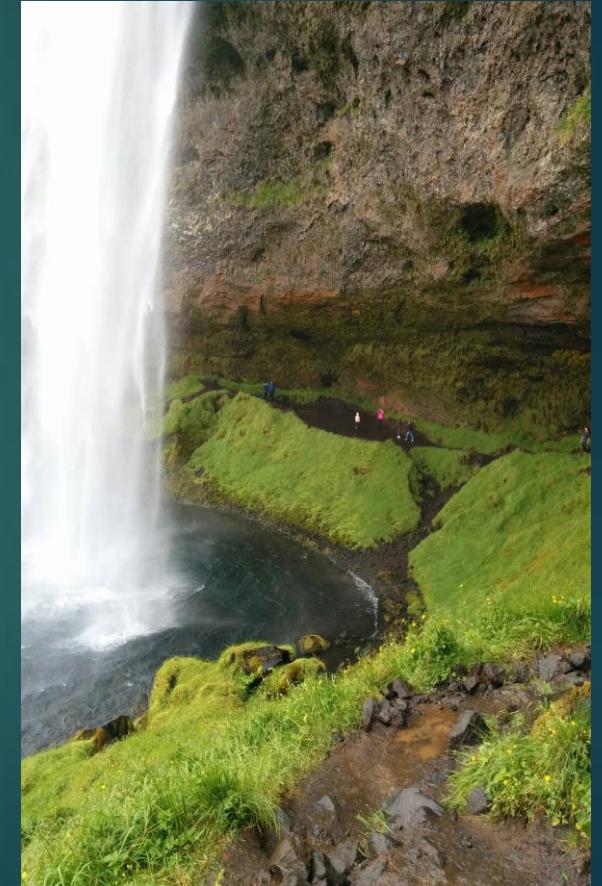


In Iceland there is one main road that goes around the whole country, Ring Road. Other than that there only a few residential streets.



Clean Water!

All water in Iceland is fresh glacier water. Plastic water bottles are not common in Iceland. They only export their water in plastic bottles.



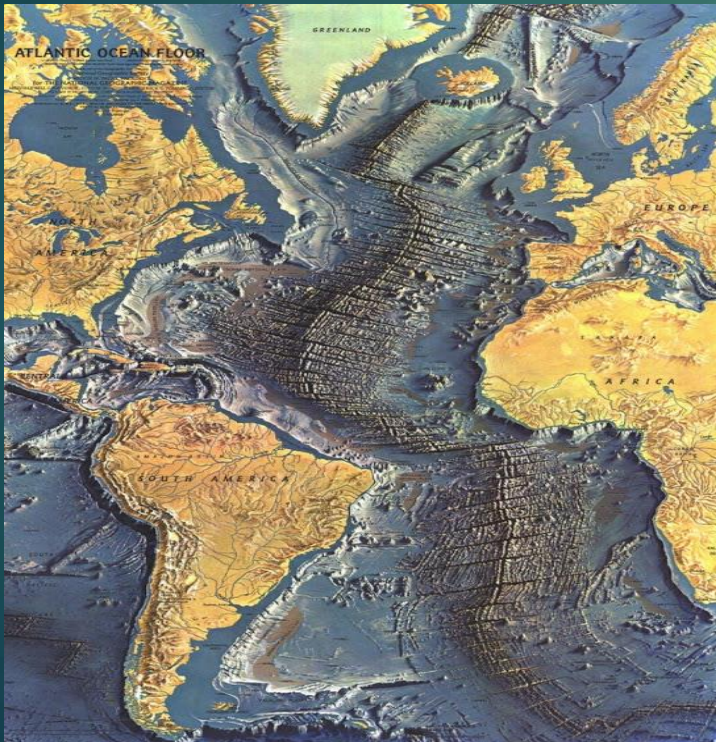
Why is Iceland so Unique

Volcanic activity!

Iceland is the only place in the world where the mid Atlantic ridge can be seen on land.



What is the Mid Atlantic Ridge?



- ▶ It is a chain of volcanoes that runs through the middle of the earth. As they erupt they create new sea floor.
- ▶ That is why the Atlantic Ocean is constantly getting larger and the Pacific is shrinking.

Mid Atlantic Ridge



Volcanoes erupt at least once every 4 years

2010 eruption



- ▶ This eruption stopped air traffic on both sides of the Atlantic for weeks.
- ▶ Volcanic activity is as destructive as it is helpful.
- ▶ Volcanoes not only give rise to geothermal energy, but clean water and fertile land as well.

Natural Consequences of Volcanic Activity!

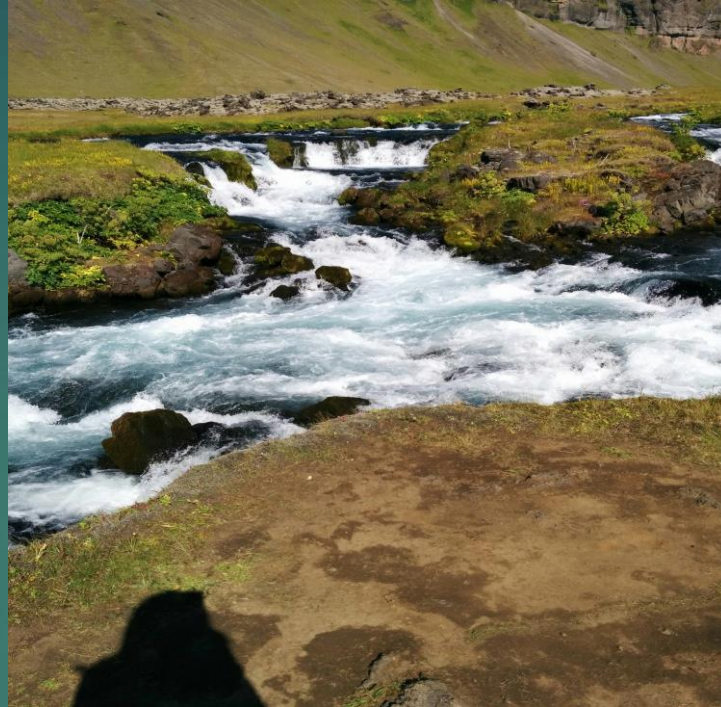
Black Sand Beaches



Glaciers and Waterfalls

Because Iceland is located on the arctic circle , it is cold enough for glaciers to form.

Coupled with volcanic activity, it creates the most beautiful waterfalls and ice formations.



Glaciers



Famous people love
filming music videos
in Iceland.

Cold Water by Justin Bieber

She Wolf by David Guetta

Highlights Kanye West

▶ [Cold water](#)