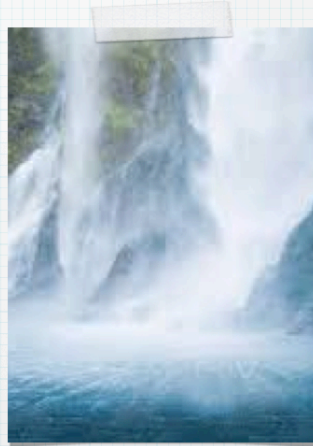


## Flow Resources In-Class Assignment

### Flow Resources

- \* Flow resources are energy supplies like moving water, wind and the sun's rays
- \* Early societies learned how to make energy using windmills and waterwheels
- \* Now, we use advanced technology to collect energy from massive hydroelectric dams and solar radiation
- \* Flow resources provide clean, alternative energy



How do you think our use of flow resources has changed as technology changes?

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### Flow Resources

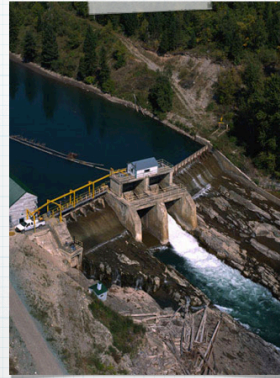


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Running Water

- \* Canada produces more electricity from running water than any other country
- \* Some characteristics that allow this are:
  - \* very large areas of land
  - \* large rivers flowing towards ocean coasts
  - \* rugged area around rivers suitable for dams
  - \* industrializaion

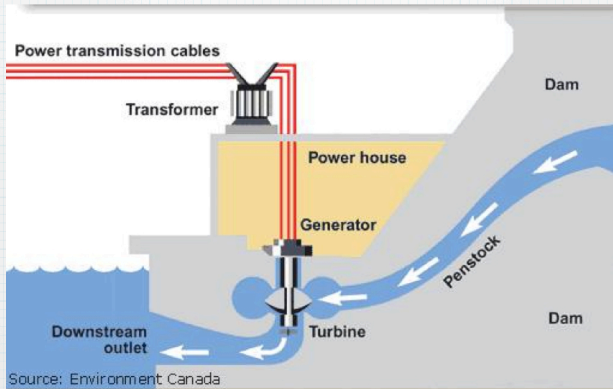


Look at the distribution map above for hydroelectric dams. What do you notice? Where is most of the hydroelectricity in Canada produced? Why do you think that is?

Name: \_\_\_\_\_

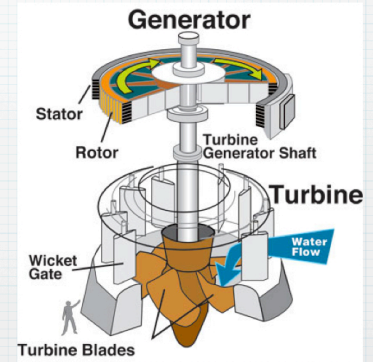
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## Hydroelectric Dams



## Hydroelectric Dams

- \* Dams use running water to make electricity
- \* The running water rotates spinning wheels called turbines, which in turn rotate generators that turn this mechanical energy into electrical energy



## Remember Fort Ware?

- \* Running water can provide clean energy, but it can also cause some problems
- \* Flooding areas behind the dam is a big issue, as is drying up rivers downstream



What are the key parts of a hydroelectric dam? How do they work? Explain in your own words.



Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Aswan High Dam

- \* The Aswan High Dam in Egypt was completed in 1968
- \* Flooding behind the dam created Lake Nasser, which has enough water to irrigate the upper Nile Valley (great for farming!)
- \* But this also means that soil material piles up behind the dam instead of being carried downstream, causing erosion
- \* The slow-moving river downstream is also causing stagnant water that allows snails that carry diseases to breed



Complete the chart below:

Pros of Flow Resources:	Cons of Flow Resources:
My overall feelings on flow resources:	

Name: \_\_\_\_\_

Date: \_\_\_\_\_