*Chernobyl - 30 years later



* The Chernobyl nuclear accident occurred in 26th of April 1986, in the area of current Ukraine, former Soviet Union.







TUESDAY APRIL 29 1986

Alert 1,000 miles away in Sweden after Moscow admits casualties

Huge nuclear leak at Soviet plant

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No 62,443

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FIRE RAGES, CLOUD SPREADS

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6 villages: There

The News and Observer

Soviets battle nuclear disaster

USSR pleads for help fighting fire in core; settlements evacuated

Fire out of control, U.S. officials say



Casualties may be felt for weeks, generations

How a meltdown occurs

SOVIET PLANT SPEWS ATOMIC CLOUD

Western officials fear high death toll



A rare Soviet cry for help

Like Soviet, Wash. plant lacks safety shell



Graphite's a slippery foe for firemen

Help us, USSR pleads

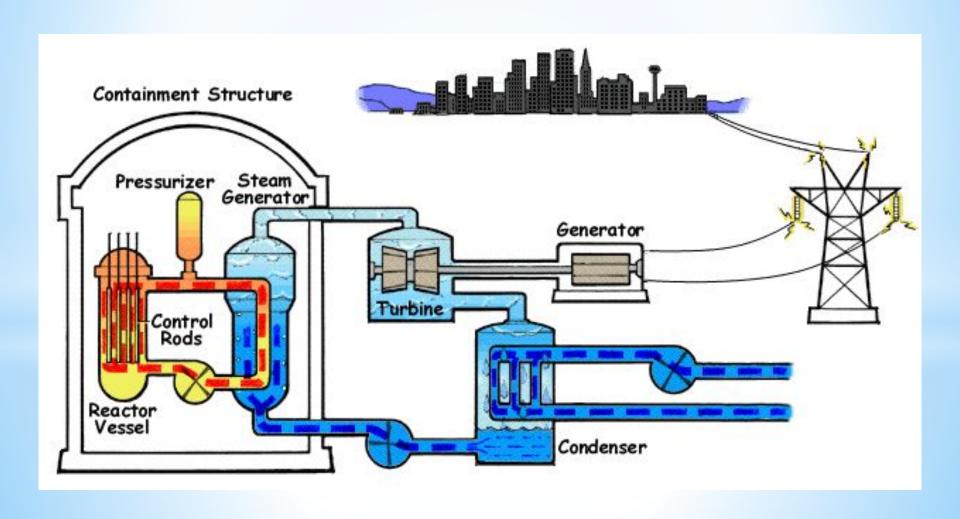
Death toll uncertain

*What happened?

*Chernobyl nuclear power plant included four reactors, that produced energy. The reactors were model RBMK-1000. In the night of 26th of April a system test made in the reactor number 4 went badly wrong, causing the nuclear accident.

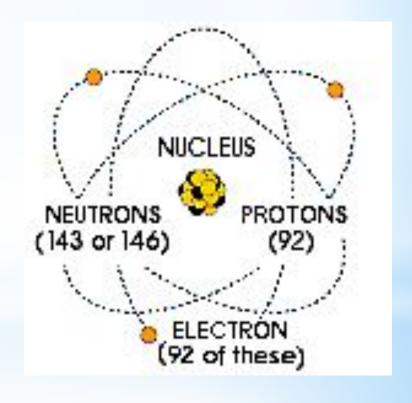


*How does nuclear power work?



*Uranium

 ^{238}U



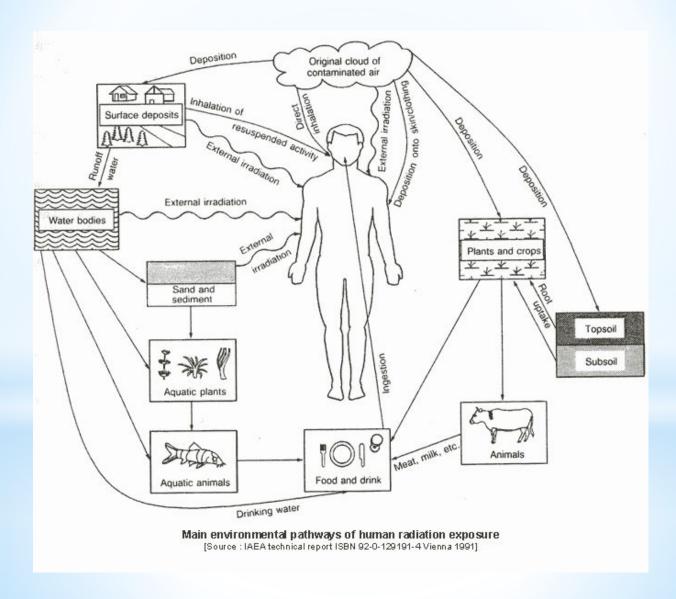
*Consequences of the accident

*The Chernobyl accident had several grave impacts. It released the biggest amount of uncontrolled radioactive gases into the atmosphere in the history.

*1) On humans:



*Pathway of radiation to human body



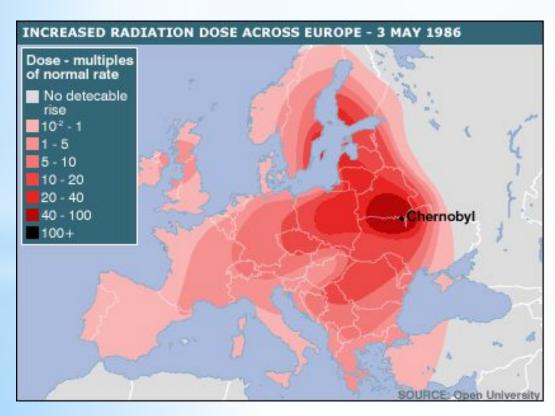
*How does radiation affect human body

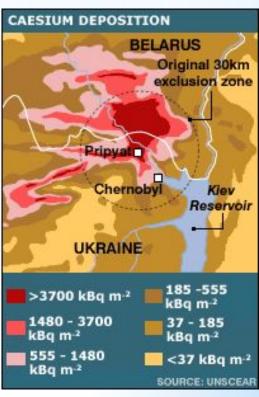
- *The radiation that comes from a nuclear accident is different compared to for example x-ray radiation.
- *It is found to cause cancers, cardiovascular diseases and lower mortality rates.





*Because of the winds, the radiation was carried to several countries.





*Consequences of the accident

*2) On the environment

*Not only humans, but also the environment was affected due to the accident.



* Timeline of the events:

- 26th of April the explosion occurred in the 4th reactor of Chernobyl nuclear power plant.
- 27th of April- helicopters start to drop sand to the reactor to stop the on going fire.
- 27th of April The close town of Pripyat was evacuated.
- 28th of April Moscow TV announces the accident. International medias also acknowledges the event. Radiation levels are high in different parts of Europe.
- 9th of May First firemen at the site die due to exposure to radiation.
- 10th of May the fire in the reactor is extinguished.
- 3th of June Viktor Petrovich Bryukanov, the director of the Chernobyl plant is prisoned.
- 14th of December A sarcophagus is made to cover the reactor 4.
- In 2000 the reactor 3, last functioning reactor of Chernobyl is closed down.
- 2017 New Sarcophaugus for reactor 4 should be ready

*Now - 30 years after the accident

https://vimeo.com/112681885

- *We should remember the disaster, so that an event like that does not occur ever again.
- *Keep in mind the dangers of nuclear.

*Quiz:

- * 1. When did the Chernobyl accident happen?
- * 2. What was the reason for the accident?
- * 3. In what current state did it happen?
- * 4. What is the chemical reaction called that nuclear powers use?
- * 5. What is the main element (chemical) that is used in nuclear power?
- * 6. Mention some effects of radiation on humans?
- * 7. Mention some effects of radiation on the environment?
- * 8. What is the name of the closest town, that got evacuated?
- * 9. Why did the radiation spread so widely?
- * 10. From what other sources does radiation come from?

*Good luck!