



Public Conference about uranium in Greenland

16 March 2016

Cindy Vestergaard



Nuclear Fuel Cycle

Diagram of the Nuclear Fuel Cycle

1

RECOVERY & PROCESSING

natural uranium



EXTRACTION

MILLED

crushed, and ground into small particles

LEACHED

with an alkali solution or sulphuric acid to dissolve the uranium oxides into a liquid slurry and becomes uranium ore concentrate (UOC)

PRECIPITATED

then filtered, dried and packaged into 200 litre UOC drums (400kg/881 lbs)

2

EXTENSIVE TRANSPORTATION



Trucks, ships, rail or some combination of these transport drums of UOC to conversion facilities

3

CONVERSION



concentrates chemically altered into



or



fuel fabrication



enrichment



nuclear power station



Total World Production by Country 1945-2013

