

How much uranium ore is required to produce one kilogram of nuclear fuel?

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Even if you take a relatively poor ore (with a uranium content of 0.2%), it turns out that to produce 1 kg of enriched uranium fuel you need approximately 2.5 tonnes of uranium ore. If we recall that one kilogram of enriched uranium contains the energy “equivalent” of 100 tonnes of coal, it turns out that to produce the same amount of energy you would need 40 times less ore compared to the same amount of coal. Another advantage is that coal has to be delivered to the station in “bulk” but there is no need to ship uranium ore far from the place of extraction. Uranium and uranium fuel take much less space than coal, and this means a dramatic reduction in transportation costs.