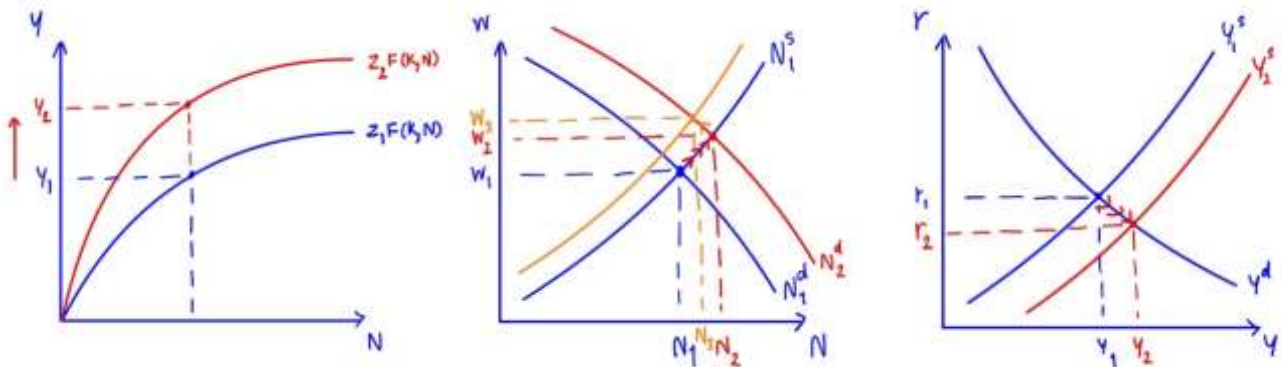


Nuclear power plant and the economy

The nuclear power plant was first introduced in late 1950 after scientists start to turn their attention to energy technology development. The advancement of the nuclear power plant has gained a lot of attention due to its cheap fuel and the efficiency of electricity production in the long-term, many countries have adopted the technology. Nowadays, there are 450 nuclear reactors in operation in 30 countries, the data collected suggest, the nuclear energy industry has played an important role in job creation and economic growth. The nuclear power plant has a lot of parts and building in order to operate, in other words, it's a large facility, once built, it requires a lot of labor force to operate.



The advancement of technology has driven down the cost, therefore, increase productivity function and output(Y_1 to Y_2) also the marginal product of labor so firms will invest more. The increase of nuclear power facility with the need for operator also drives up the demand for labor from N_{d1} to N_{d2} causing real wage to increase from w_1 to w_2 . Output supply increase(shift to the right), therefore, real interest rate decreases from r_1 to r_2 . The decreases of real interest rate causes labor supply to decrease(N_{s1} to N_{s2}) since people values working hour less and consume more. For credit market, people consumption increases less than income(consumption smoothing) and save the proportion of it which increases private saving from S_{p1} to S_{p2} .

Overall, Wage(w) increases, Investment(I) increases, Consumption(C) increases, Real interest rate(r) decreases, Working Labor(N) increases, and Income(Y) increases.

