

How much agricultural land is being used for the project? Renewable electricity generation is the most inefficient method of generating energy. A solar farm requires 50 times the area, assuming (generously) 20% capacity factor, compared to Hinkley Point C, that has an estimated capacity factor of 80%. Hinkley will occupy 430 acres (approximately two-thirds of a square mile) and generate electricity for 6 million homes. Assuming a capacity factor of 80% Hinkley C will generate 22,426 GWh/year.

A 3.2 GW name plate capacity solar farm with a capacity factor of 15% would generate $3.2 \times 24 \times 365 \times 15\% = 4,205$ GW Hr/year. Thus, to generate the same amount of electricity as Hinkley C would require between 5 and 6 solar farms each of name plate capacity of 3.2 GW. These solar farms would occupy $3.2 \times 5000 \times 5.5 = 88,000$ acres (approximately 138 sq. miles). This calculation for solar is based on the statement from quora.com that a 1MW name plate solar farm requires 5 acres of unshaded land. (Thus 1GW name plate would occupy 5,000 acres (7.81 sq. miles).) The recent Cleve Hall solar farm planned by Wirsol Energy and Hive Energy, located outside of Faversham close to the village of Graveney in Kent, will cost £450m. The 350 MW farm would feature almost 900,000 solar panels across 900 acres of farmland. Using these figures a 3.2 GW name plate solar farm would occupy 8,229 acres. If this figure is corrected for the differences in capacity factor (80/20) (let's generously assume a 20% capacity factor for solar at this latitude) the area required would be approximately 33,000 acres (52 sq. miles) to generate the same annual output of electricity as Hinkley C. Wind generation is even worse. Has all the complexity connecting the solar farm to the grid? The emissions and environmental destruction taken into account for the mining, processing manufacture and movement of the components? How much energy is generated at night or when it is cloudy? Hinkley will keep generating through the night and when it is cloudy or too hot. What a ridiculous way to generate energy and virtue signal.

The UK is responsible for less than 1% of global carbon emissions. We're destroying our economy and making us poorer and for what, a scam.