

Interview task: Offshore decommissioning

Could you present your approach to decommissioning an offshore wind farm consisting of 8 wind turbines with monopile foundations? Please include the steps involved in the process and an estimation of the CO₂, specifically focusing on the emissions associated with vessel use.

For the steps involved, please consider only those of the offshore dismantling, right before the recycling phase. For each step, assign the most adequate vessel according to its type and size and use Python to calculate the carbon emissions. These emissions depend on the operational hours of each vessel; therefore, if you cannot find information on the times and fuel tank size, you can leave them as a variable or make a guess.

It would be nice if your code is designed in a general way, and can then be tested assuming an offshore windfarm located at 80km from the harbour.

You can prepare a short presentation to show your approach to the task, your code, your results, and 1-2 plots that will help illustrate your results.