1. **What is the problem you want to solve?**

During the hypothetical case of nuclear power plant banning, how efficient is it to replace the electricity produced by nuclear power by means of wind and solar. We will look at economic and environmental factors.

1. **Who is your client and why do they care about this problem? In other words, what will your client DO or DECIDE based on your analysis that they wouldn’t have otherwise?**

Utilities company who uses nuclear as part of its energy portfolio. They might consider other energy resources in case of a nuclear shutdown.

1. **What data are you going to use for this? How will you acquire this data?**
   * + Nuclear power plant list, location, capacity in the US
     + Map of solar and wind intensity in the US over time
     + Solar and wind list of biggest plants in the US
     + Energy make up of areas where nuclear power is present
     + Cost of building solar and wind plant per capacity
2. **In brief, outline your approach to solving this problem (knowing that this might change later).**

Create a list of affected areas in the US by the hypothetical nuclear ban. Analyze the energy make up of these areas on time basis. Figure out geological location of possible replacement power plant. Analyze economic factors including job stability, capital cost, operation and maintenance cost, etc. Analyze environmental factors such as carbon footprint.

1. **What are your deliverables? Typically, this would include code, along with a paper and/or a slide deck.**

White paper report, slide deck, interactive UI analytics platform