

Expert Review: EuroEnergyVis

Is that OK if we record this session?

- If you are OK with sharing this information, are you aware of any color vision deficiency conditions that you might have?
 - No deficiency;
 - Mild/moderate/strong for specific combinations of colors;
 - Don't want to answer.
- Also, please feel free to skip any individual tasks or leave this session at any time.

Several questions about your background

- Main research discipline/field.
- Relation of research to power system / energy system / power plants / electricity system.
- Experience / skills in information visualization.

Our tool:

Background:

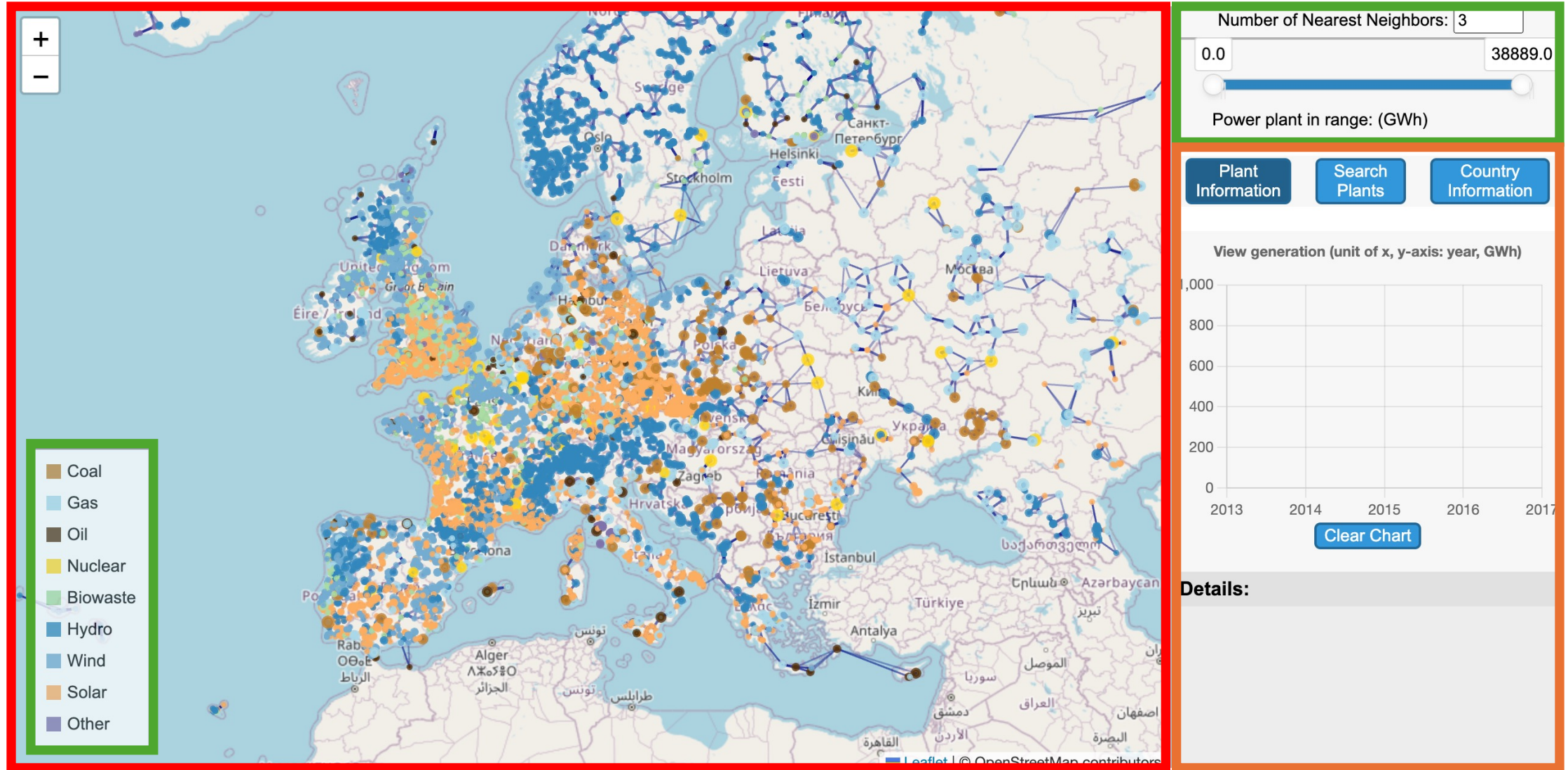
- A power plant is associated with rich multidimensional data relevant to its construction and activity.
- It is a crucial part of the modern energy infrastructure.

EuroEnergyVis:

- A visual analysis tool designed to explore power plants across European countries.
- The tool uses the data from <https://www.wri.org/research/global-database-power-plants>, data from 2013 to 2017

Power plant network

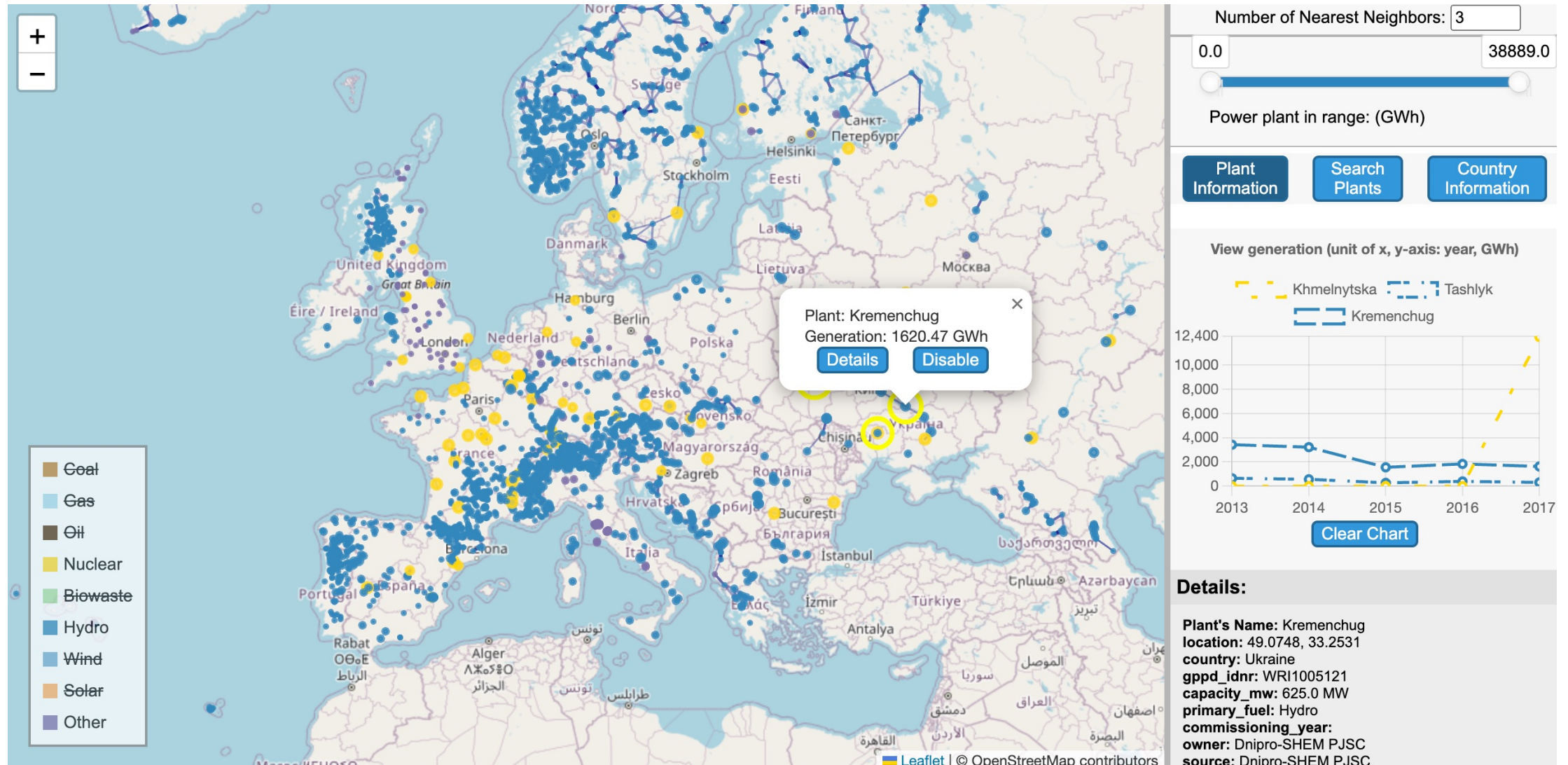
Setting and filtering control



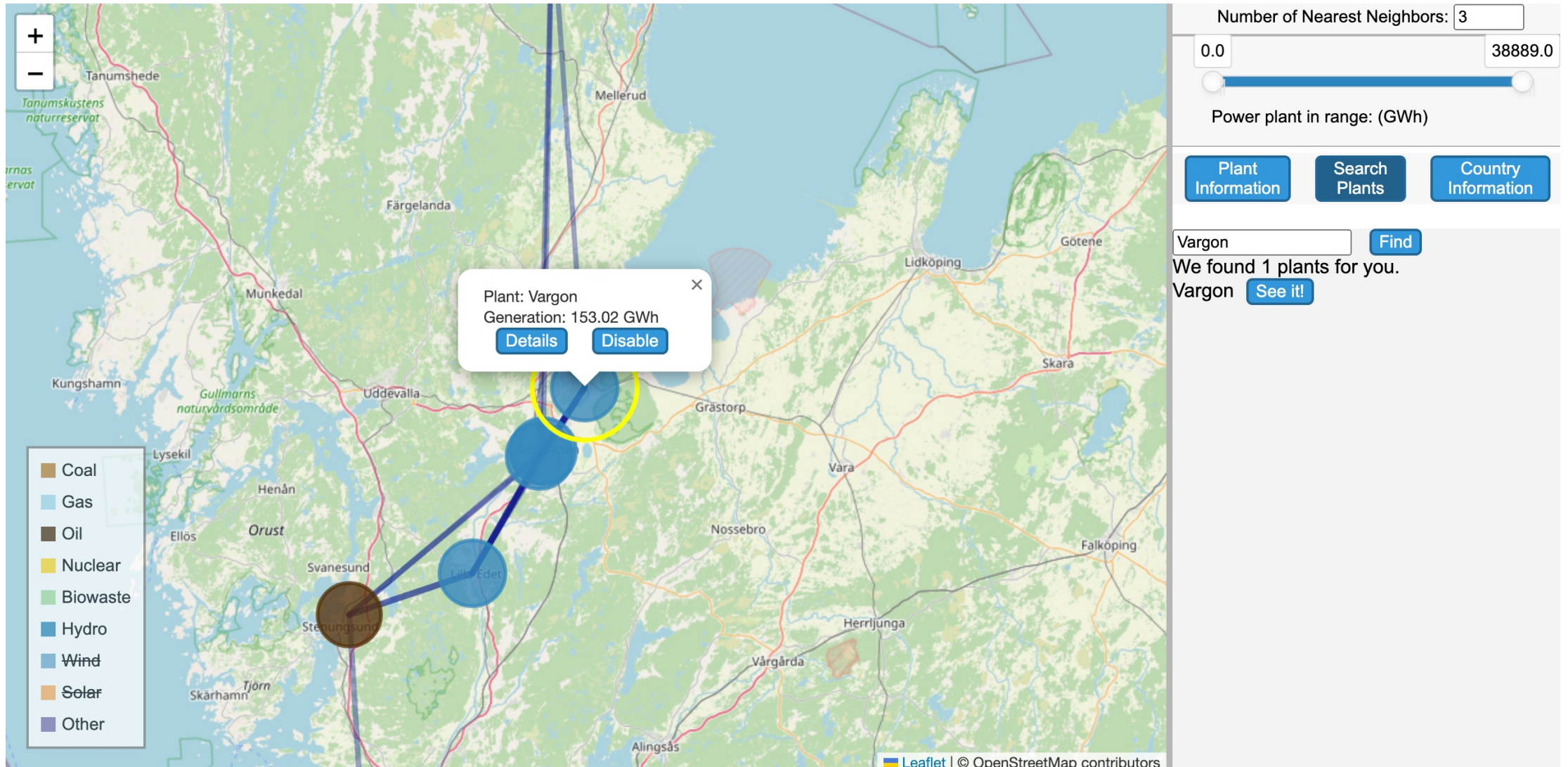
Nodes are the power plants. Edges are their nearest neighbors.

Detail and further control

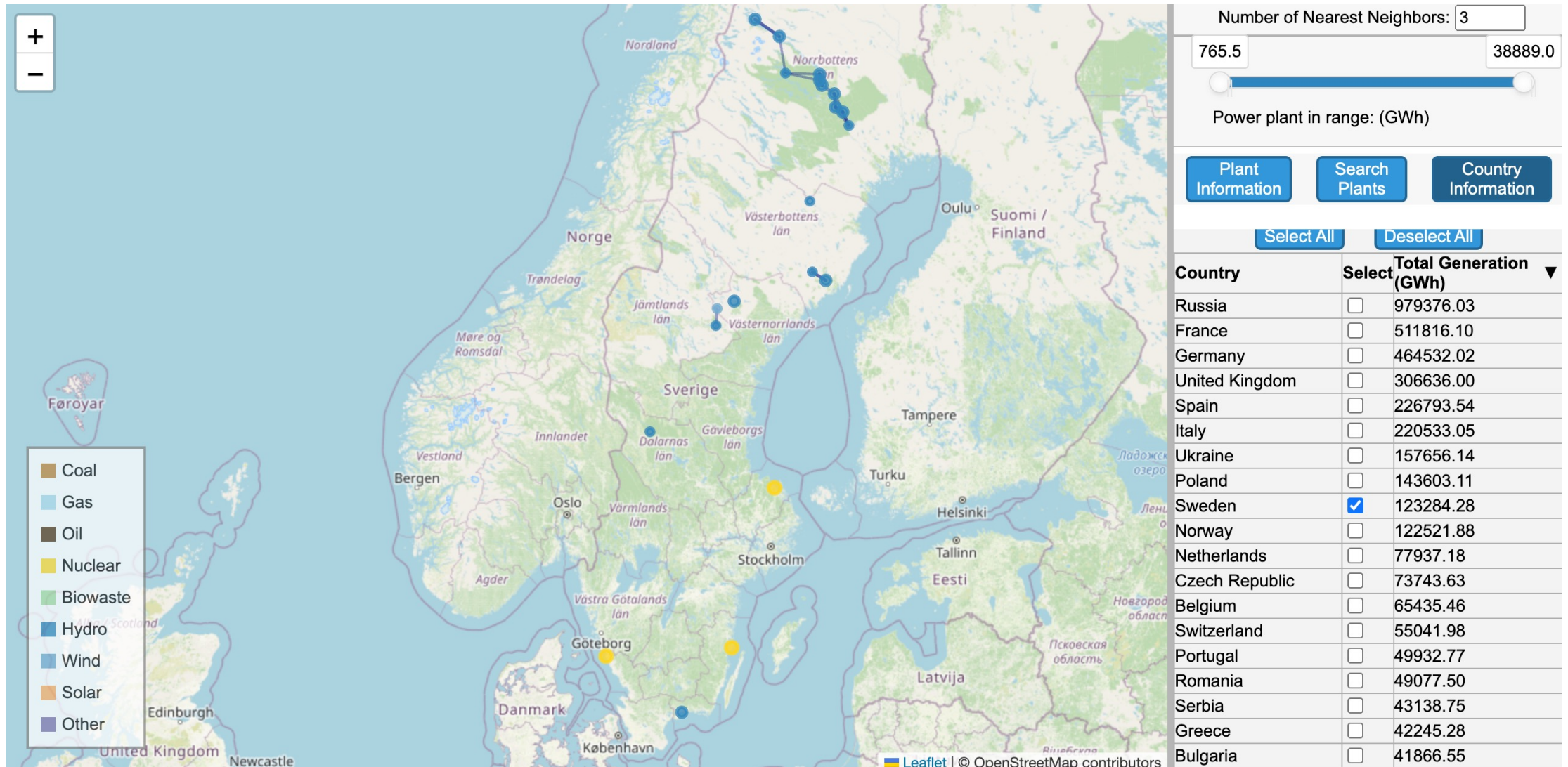
Select, explore details, and compare



Search and highlight



Filter



Use the tool and finish the following 5 tasks

Reload the tool by refresh button after each task to reset its state.

Please feel free to think aloud and provide any comments/suggestions.

- If a power plant has very high generation, what fuel type could it use?
- Consider the location of all the power plants fueled by wind or solar. What can you infer?
- How many power plants have string *ab* in their names? What about *cd*?
- Compared all the power plants in Sweden and Norway, do they have any difference in fuel type?
- Find power plant with name “Forsmark” in the map, and answer:
 - What is the name of its nearest neighbor? And what is the generation of it?
 - What is the distance between Forsmark and its neighbor in the southeast?
- Use the tool as you wish.

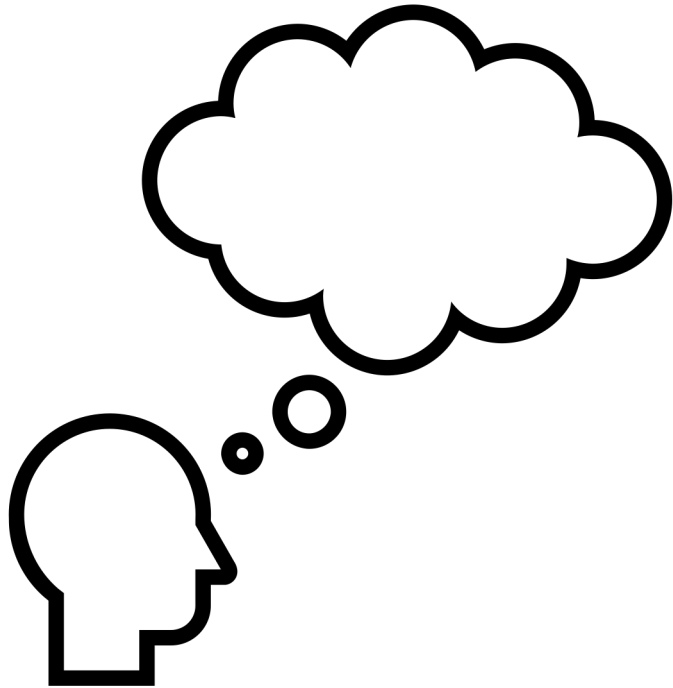
SUS (System Usability Scale) questionnaire

- It aims to evaluate the usability of our tool.

Further questions

- What is your overall impression of the tool?
- Would you see yourself using a tool like this in the future?
- Is there anything missing in our tool?

Any further comments and thoughts?



Thank you for your participation!