Formula Explanation VR

**Influence Score :** The influence score between project and project is calculated as:

* **Technology ()**:
  + *= 1* if both projects share the same technology, otherwise *= 0*.
* **Geography** :
  + *= 1* if both projects are in the same country, otherwise  *= 0*.
* **Capacity** :
  + Calculated as:

The closer the capacities, the higher (between 0 and 1).

**Effect of a Change ():** When a parameter (e.g., capacity) of project changes (), the impact on project is calculated as:

**Example 1: Similar Projects** Comparing Project 2 and Project 3:

* **Project 2:** Technology: "Others/Various", Country: "SWE", Capacity: 220.86 kt H2/y.
* **Project 3:** Technology: "Others/Various", Country: "SWE", Capacity: 287.12 kt H2/y.

**Calculation:**

*= 1 = 1*, *= 1*, and

**Impact:** If Project 2’s capacity increases by , Project 3’s capacity increases by .

**Example 2: Diverse Projects** Comparing Project 1 and Project 25:

* **Project 1:** Technology: "Unknown", Country: "DEU", Capacity: 0.25 kt H2/y.
* **Project 25:** Technology: "Others/Various", Country: "EGY", Capacity: 25396.34 kt H2/y.

**Calculation:**

1. , , and .
2. .

**Impact:** The influence of changes in Project 1 on Project 25 is negligible.

**Why the weights?** The weights (*0.5, 0.3, 0.2*) reflect the assumed importance of each factor:

* **Technology (0.5):** Largest impact due to shared technology dependencies.
* **Geography (0.3):** Medium impact due to shared markets or infrastructure.
* **Capacity (0.2):** Smaller impact as capacity differences are less direct.

**ALL CALCULATIONS ABOVE ALSO GO FOR THE COSTS OF A PROJECT (Use Investment Cost (MUSD) instead of Capacity (kt H2/y)).**