**Question**

1. **Limitation for the sources:** No limitation, but for Stockholm, the solar is not recommended
2. **Future scenario:** considering about super cooling or super warm weathers in winter
3. **For programming:** Set of the minimum, maximum, efficiency, cost, emissions

**For capacity:** Highest value multiplies with 1.1, Boilers are the biggest (initial assumption as 60%), CHP next (30%), HP the lowest (10%)

**Solutions and assumptions**

**When you are doing the steps, what assumptions and the way you deal with the steps**

**Step1: Johan**

**Boiler:** min: , max: 1900 MW, efficiency: 0.85, cost: 302 SEK/MWh, CO2: 11

**CHP:** min: , max: 900 MWth, efficiency: 0.8, cost: 0 SEK/MWh, CO2: 11

**HP:** min: , max: 1900 MW, COP: 4.1

**Step2: Lu Yu**

**Boiler:** min: , max: 1900 MW, efficiency: 0.85, cost: , CO2: 11

**CHP:** min: , max: 900 MWth, efficiency: 0.8, cost: 0 €/MW, CO2: 11

**HP:** min: , max: 1900 MW, COP: 4.1

**Step3: Sajna**

**Step4: Songtao**

**Step5:**

**Question:**

1. **What are the 5 loads to be added in step 5? The remaining 3 loads，run the same way as the previous ones**