CEFS CLIMATE NEUTRALITY TOOLBOX



> BEET SUGAR PRODUCTION IS HIGHLY SPECIFIC

Factories are located in **rural areas** often far from high-voltage electricity grids -> full electrification prohibitively expensive/ not feasible in many cases







Production campaigns run c. 90-150 days, meaning energy stations must be bigger than in industries working year-round

High energy
requirements - large
amounts of heat required
to evaporate water from
around 100m tonnes of
sugar beet annually

Every sugar factory has a different configuration and produces different products, resulting in varying energy requirements





> THE ROLE OF RENEWABLES - OUR OPTIONS

Energetic use of residues: Beet pulp and other residues can be fermented to produce biogas or combusted as solid biomass fuel!





Supplementary renewables: On-site solar panels & wind turbines





OTHER DECARBONISATION TOOLS



Heat recovery:

Saving energy by re-using waste heat (e.g. evaporation, drying of beet pulp)





Process electrification:

Reducing heat demand by electrifying part of the sugar production process (e.g. heat pumps)



CEFS calls for a sensible implementation of the RED III by Member States to facilitate energetic use of sugar beet residues and a revised Energy Taxation Directive that recognises the crucial role of biomass fuels.

