Supplemental Input

Achieving Net Zero Carbon Dioxide by Sequestering Biomass Carbon

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**SI.1. Calculation of the Amount of Air With 400 ppmv CO2 Needed to Grow of 1 Acre of Corn**

The calculation is provided in the spreadsheet attached below. It takes about 0.85 acres of air from sea level to the end of the troposphere to feed the growth of 1 acre of corn.



**SI.2. EXCEL files that Calculate Urban Tree Growth Parameters in 10 Year Increment**s

EXCEL file that calculates tree growth parameters from the allometric equations provided in the USDA report [42].



**SI.3. Calculation of Percentage of Decomposable Biomass in a Bahrain Landfill That Will Have Decomposed as a Function of Years After Landfill Closure**

The following EXCEL file contains calculations of the percentage of decomposable biomass in a Bahrain Landfill that will have decomposed as a function of years after landfill closure based on extrapolation of the US EPA LandGEM model. [49], [50].

