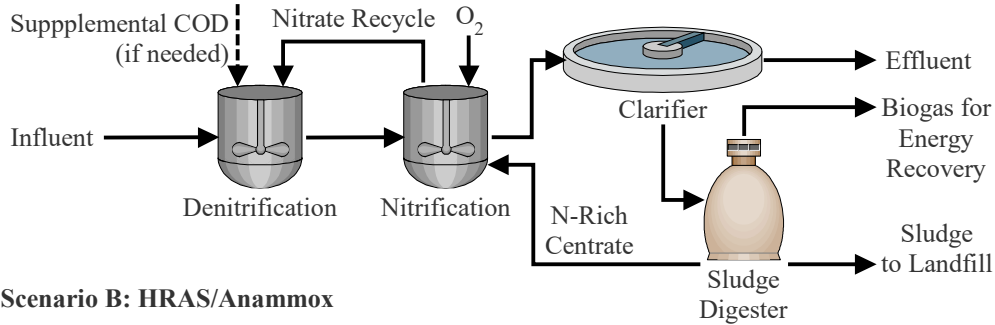


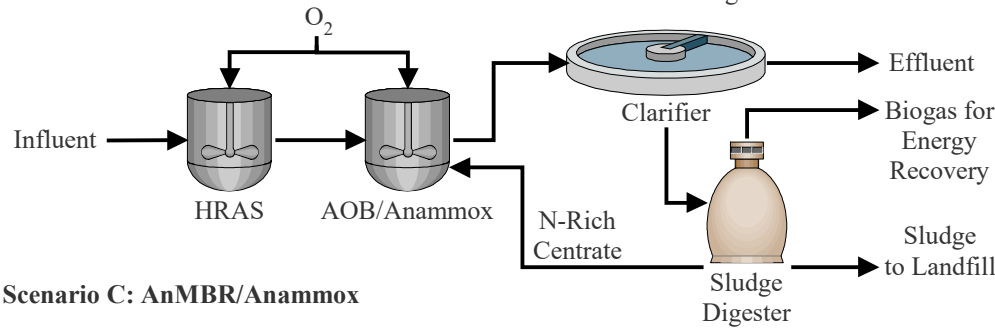
Scenario A (Base Case): Modified Ludzak Ettinger (MLE)



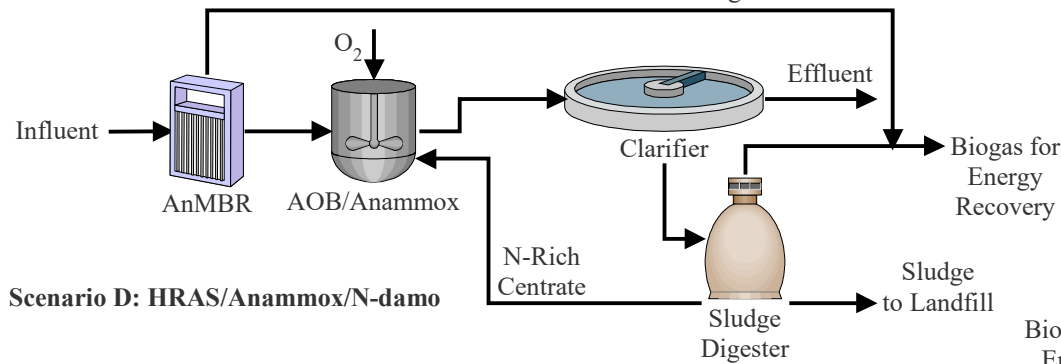
Abbreviations:

Anammox - Anaerobic Ammonium Oxidizing Bacteria
AnMBR - Anaerobic Membrane Bioreactor
AOB - Ammonium Oxidizing Bacteria
HRAS - High Rate Activated Sludge
N-damo - Nitrate-driven denitrifying anaerobic methane oxidizing archaea

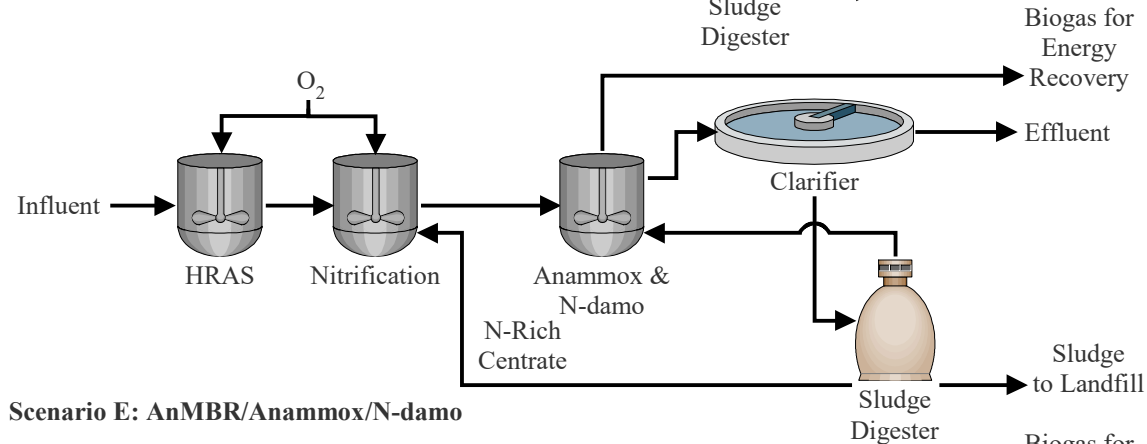
Scenario B: HRAS/Anammox



Scenario C: AnMBR/Anammox



Scenario D: HRAS/Anammox/N-damo



Scenario E: AnMBR/Anammox/N-damo

