

# SCHOOL GREENHOUSE-DIGESTER SYSTEM

## SPHERES OF EFFECTS AND CONCERNS

### GREENHOUSE OPERATION INPUTS AND OUTPUTS

A ~50' X ~18' X ~12' solar greenhouse with large ante/entry/workrooms at each end. Bermed into the hillside with heat storage under floor and garden on roof. 3-4' in diameter anaerobic digester sausage along the north wall, fed and emptied in anterooms. Composting restroom in each workroom.

The greenhouse offers 900 sq ft of surface and 10,800 cu ft of volume. The digester occupies 200 sq ft which is covered with a walkway. The digester and gas storage (secured to the ceiling) occupy 1,600 cu ft. At 10' wide each anteroom would provide a 180 sq ft space with 16 sq ft occupied by a composting restroom and 64 sq ft devoted to digester care. The roof over greenhouse and anterooms would provide a 1260 sq ft growing area with (somewhat) heated soil.

