


CMGT 235 – Electrical and Mechanical Systems

Department of Construction Management  California State University, Chico

Homework #9 – LEED BD+C Indoor Water Use Reduction

Points: 20

Due: 9/22/2022

Name: _____

1. For A LEED v4 Building Design and Construction prerequisite and credit, Indoor Water Use Reduction, complete the following table:

Points Earned (BD+C)	% Reduction from Baseline
Prerequisite (Req)	
1	
2	
3	
4	
5	
6	

2. List the Flush and Flow Fixtures that must be included in the Prerequisite and Credit for a LEED v4 Commercial Office project:

- 1.
- 2.
- 3.
- 4.
- 5.

3. A LEED Commercial Office project has 54 Fulltime Employees and 32 Halftime Employers. Calculate the total Baseline water usage for the flush fixtures using the table shown below. Show calculation for FTE. Use default value for gender ratio. Round to whole numbers (No decimal answers).

FTE = _____

Flush Fixture	Flushrate (gpf)	Duration (flush)	Users (FTE)	Uses per person per day	Water Consumption (gal)
Water closet (male)					
Water closet (female)					
Urinal (male)					
Total Daily Water Consumption for Flush Fixtures (GAL)					
Annual Work Days					275
Total Annual Water Consumption for Flush Fixtures (GAL)					