

1 Q. **Project C-66, Install Automated Meter Reading**

2 Provide details regarding the input factors and calculations for the CPW values.

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5 A. The following summarizes the input factors and calculations that were used to  
6 determine the CPW values. Two alternatives were explored:

- 7 • Alternative 1: Maintain the existing Radix system
- 8 • Alternative 2: Deploy Landis + Gyr's TS1 AMR System

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10 **Inputs/Assumptions:**

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12 **Alternative 1**

13 The following is a list of inputs or assumptions that were considered for Alternative  
14 1:

- 15 • 7.0% Discount Rate;
- 16 • Capital is spent at the end of a project year;
- 17 • Meter Reader Salary: \$87,289
- 18 • Personal Protective Equipment (PPE) purchased every 2 years at  
19 \$1,000/year;
- 20 • Handheld unit replacement every six years at \$2,800/year.

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22 **Alternative 2**

23 The following is a list of inputs or assumptions that were considered for Alternative  
24 2:

- 25 • 7.0% Discount Rate;
- 26 • Capital is spent at the end of a project year;
- 27 • Total In-service Project Cost: \$697,000

- In-service year: 2015
- Yearly AMR Service Agreement: \$991.50/year

**Calculations:**

The following summarizes the calculations used to establish the CPW values for both alternatives.

**a. Total Costs Calculation: O&M Costs + Other Costs (if applicable)**

The following is a sample calculation for Alternative 1 in the year 2019:

\$104,199 (Meter Reader Salary and PPE purchase plus escalation)  
+ \$2,800 (Replacement of Handheld unit)  
**\$106,999**

**b. CPW Calculation**

The following is a sample calculation for Alternative 1 in the year 2028:

Net = Total Costs + Benefits = \$132,086 – \$0 = **\$132,086**

$$CPW_x = (\text{Net} \div (1 + \text{Discount Rate})^{(n+1)}) + CPW_{x-1}$$

(Where n is the number of years and x is the year in question)

$$CPW_{2028} = (\text{Net} \div (1 + \text{Discount Rate})^{(16)}) + CPW_{2027}$$

$$CPW_{2028} = (\$132,086 \div (1 + 0.07)^{(16)}) + \$786,213$$

$$CPW_{2028} = \mathbf{\$830,956}$$