1. **Customers Table:**
   * **customer\_id (INT PRIMARY KEY):** Unique identifier for each customer.
   * **name (VARCHAR(255)):** Customer's name.
   * **address (VARCHAR(255)):** Customer's address.
   * **segment (VARCHAR(50)):** Customer segment (e.g., residential, commercial, industrial).
   * **join\_date (DATE):** Date the customer joined the energy company.
2. **Energy\_Consumption Table:**
   * **consumption\_id (INT PRIMARY KEY):** Unique identifier for each consumption record.
   * **customer\_id (INT FOREIGN KEY REFERENCES Customers(customer\_id)):** Links consumption to a customer.
   * **date (DATE):** Date of energy consumption.
   * **energy\_type (VARCHAR(50)):** Type of energy consumed (e.g., electricity, gas).
   * **amount\_kwh (DECIMAL(10, 2)):** Amount of energy consumed in kilowatt-hours (kWh).
   * **cost\_usd (DECIMAL(10, 2)):** Cost of energy consumed in USD.
3. **Energy\_Production Table:**
   * **production\_id (INT PRIMARY KEY):** Unique identifier for each production record.
   * **production\_plant\_id (INT FOREIGN KEY REFERENCES Production\_Plants(plant\_id)):** Links production to a production plant.
   * **date (DATE):** Date of energy production.
   * **energy\_type (VARCHAR(50)):** Type of energy produced (e.g., solar, wind, coal).
   * **amount\_kwh (DECIMAL(10, 2)):** Amount of energy produced in kilowatt-hours (kWh).
   * **cost\_usd (DECIMAL(10, 2)):** Cost of energy production in USD.
   * **carbon\_emission\_kg (DECIMAL(10, 2)):** Carbon emissions from energy production in kilograms.
4. **Production\_Plants Table:**
   * **Plant\_id**
   * **Plant\_name**
   * **Location**
   * **Capacity\_kwh**
   * **Energy\_type**
5. **Sustainability\_Initiatives Table:**
   * **initiative\_id (INT PRIMARY KEY):** Unique identifier for each sustainability initiative.
   * **initiative\_name (VARCHAR(255)):** Name of the sustainability initiative.
   * **start\_date (DATE):** Start date of the initiative.
   * **end\_date (DATE):** End date of the initiative.
   * **budget\_used**
   * **energy\_savings\_kwh**
   * **carbon\_reduction\_kg**