**Problem Statements- Sustainable Smart City Assistant**

**Team ID: LTVIP2025TMID38464**

**Project Name: Sustainable Smart City Assistant Using IBM Granite LLM**

**Customer Problem Statement – Sustainable Smart City Assistant**

To design meaningful experiences for city residents and administrators, it's essential to understand their challenges from their perspective. The Custome**r** delivering solutions that promote smarter governance, better sustainability, and more inclusive urban participation. Problem Statement helps us stay focused on

A well-crafted problem statement enables the team to align on goals, identify opportunities for innovation, and build empathy with those who interact with city systems daily — from citizens needing real-time information to officials managing urban infrastructure.

**Example 1 – Citizen Perspective**

**I am** a city resident.   
**I’m trying to** understand what new policies mean for me and how I can contribute to a more sustainable city.  
**But** I find government documents too long and complex.  
**Because** they are written in technical language and not easily accessible to the public.  
**Which makes me feel** confused, uninformed, and disconnected from city decisions.

**Example 2 – City Official Perspective**

**I am** a city data officer.  
**I’m trying to** track the performance of key services like water usage, energy consumption, and traffic flow.  
**But** I have to manually analyze large amounts of data from different systems.  
**Because** there's no centralized assistant to summarize or forecast KPIs intelligently.  
**Which makes me feel** overwhelmed, slow in decision-making, and unable to respond proactively.

**Main Goal :**

This assistant will empower urban planners, administrators, and citizens to make informed, sustainable choices while contributing to the vision of smarter, greener, and more resilient cities.

urban areas face growing challenges in managing resources efficiently, ensuring environmental sustainability, and improving the quality of life for citizens. Key issues include inefficient energy and water consumption, limited public awareness of ecofriendly practices,inadequate anomaly detection in utilities, and lack of personalized summary.

