# Project Planning Document – Sustainable Smart City Assistant

Date: 26 June 2025

Team ID: LTVIP2025TMID32000

Project Name: Sustainable Smart City Assistant Using IBM Granite LLM

## Product Backlog, Sprint Schedule, and Estimation

Sprint | Epic | User Story Number | User Story / Task | Story Points | Priority | Team Members

Sprint-1 | Project Initialization | USN-1 | Set up FastAPI and Streamlit base framework | 2 | High | All

Sprint-1 | Watsonx Integration | USN-2 | Connect and test IBM Granite LLM API for summarization | 2 | High | Koushik, Rakesh

Sprint-2 | Feedback Module | USN-3 | Implement citizen feedback form with tagging | 3 | High | Charan, Gousia

Sprint-2 | Policy Summarizer | USN-4 | Upload city policy .txt and summarize using LLM | 3 | High | Koushik, Charan

Sprint-3 | Eco Tips Generator | USN-5 | Create eco tip generator from topic prompts | 3 | Medium | Gousia, Rakesh

Sprint-3 | KPI Forecasting | USN-6 | Upload CSV and forecast KPIs using regression | 4 | High | Charan, Rakesh

Sprint-4 | Anomaly Detection | USN-7 | Detect anomalies in uploaded KPI data | 4 | High | Koushik, Gousia

Sprint-4 | Chat Assistant + Deployment | USN-8 | Build chat module and deploy app | 4 | High | All

## Project Tracker, Velocity & Burndown Chart

Sprint | Total Story Points | Sprint Start Date | Sprint End Date | Story Points Completed | Sprint Release Date

Sprint-1 | 4 | 01 July 2025 | 06 July 2025 | 4 | 06 July 2025

Sprint-2 | 6 | 07 July 2025 | 12 July 2025 | 6 | 12 July 2025

Sprint-3 | 7 | 13 July 2025 | 18 July 2025 | 6 | 18 July 2025

Sprint-4 | 8 | 19 July 2025 | 24 July 2025 | 7 | 24 July 2025

Average Velocity = (4 + 6 + 6 + 7) / 4 = 5.75 story points per sprint

Figure: Sprint-wise Burndown Chart (To be added manually as image placeholder)