

Sustainability Report Generation

Objective: Generate a city-wise AI-powered sustainability summary.

Prompt Engineering:

Report_generator.py uses a custom prompt to generate an AI-written report from KPI inputs

Display/Download :

1. Render AI report on frontend
2. Optionally provide markdown/PDF output

```
app > services > policy_summarizer.py > ...
1  from app.services.granite_llm import ask_granite
2
3  def summarize_policy(text: str) -> str:
4      prompt = (
5          "You are a smart city assistant AI. Read the following policy text carefully, "
6          "and generate a concise summary of minimum 50 words using simple language for citizens to understand "
7          f"Policy Text:\n{text}\n\nSummary:"
8      )
9      return ask_granite(prompt)
10
```



Policy Summarizer

Choose input method

☒  Enter Text

☐  Upload .txt File

Paste your policy or city guideline below



Summarize Text



Download Sustainability Report (PDF)

```

app > services > report_generator.py > ...
1  from app.services.granite_llm import ask_granite
2  import os
3  from datetime import datetime
4  from pathlib import Path
5  from fpdf import FPDF
6
7  def generate_sustainability_report(content: str) -> str:
8      prompt = (
9          "You are a sustainability analyst. Based on the following document or metrics, "
10         "generate a concise sustainability report suitable for city planners:\n\n"
11         f"{content}\n\n"
12         "Structure the report with clear headings like Summary, Challenges, Recommendations."
13     )
14     return ask_granite(prompt)
15
16 def generate_markdown_report(summary: str) -> str:
17     timestamp = datetime.now().strftime("%Y%m%d_%H%M%S")
18     filename = f"sustainability_report_{timestamp}.md"
19     path = Path("app/data") / filename
20
21     with open(path, "w", encoding="utf-8") as f:
22         f.write("# Sustainability Report\n\n")
23         f.write(summary)
24

```



Sustainability Report Generator

Upload a `.txt` file containing policy or city metric data. The assistant will generate a downloadable PDF report.

Upload Policy Text File (.txt)



Drag and drop file here

Limit 200MB per file • TXT

Browse files



smartcity_1.txt 1.0KB



Generate Report

Report generated successfully!



Download PDF Report