

Metroville Urban Rail Expansion Project - KPI Development Template

Technical Feasibility KPIs

KPI 1:

KPI Name: Electrification progress

Definition: percentage of rail track that is electrified

Measurement Method: $(\text{electrified rail length} / \text{total rail length}) * 100$

Rationale (Why this KPI is important): shows increase in use of renewable energy

KPI 2:

KPI Name: rail track installation rate

Definition (What it measures): length of rail track laid vs expected length wrt timeline

Method: $\text{length}(\text{track laid} / \text{expected})$ in 25%, 50%, 75%, 100% of project timeline

Rationale (Why this KPI is important): It provides a quantifiable measure of the project's progress against the timeline

Environmental Sustainability KPIs

KPI 1:

KPI Name: % reduction in carbon footprint

Definition (What it measures): how much carbon we removed from environment

Measurement: $\{(\text{emissions before} - \text{emissions after}) / \text{emissions before project}\} * 100$

Rationale (Why this KPI is important): To track the project's contribution to reducing the urban carbon footprint and promoting environmental sustainability

KPI 2:

KPI Name: % increase in green area

Definition: increment in green area after the project completion

Method: $[(\text{green area a/f} - \text{b/f}) / \text{green area before}] * 100$

Rationale: to track how much green area increase/decrease due to this project

Community Acceptance KPIs

KPI 1:

KPI Name:

Definition (What it measures):

Measurement Method (How data will be gathered and calculated):

Rationale (Why this KPI is important):

KPI 2:

KPI Name: % addition

Definition (What it measures): how much we expanded in underserved areas by adding new lines to reduce the footfall on old rail lines

Measurement Method: length of [(new line- old line)/old line] * 100 (in 100 miles sq.)

Rationale (Why this KPI is important): To track expansion of rail in underserved areas to eliminate overcrowding issues