

PROJECT DIGEST:
Street Lighting Project of
Denpasar City

Project Brief

Background

The city of Denpasar holds a strategic role as the capital of Bali Province, serving as the center of government, residential areas, education, trade centers, tourism destinations, arts, and sacred areas. The condition of Public Street Lighting in Denpasar City is still dominated by the use of conventional lights, 15.997 units in total, with high electricity consumption and maintenance costs. Additionally, the installed power panels are not equipped with KWH meters, resulting in inaccurate power usage calculations. Therefore, the project to revitalize the street lighting is needed.

Government Contracting Agency

Mayor of Denpasar City

PPP Scheme

Debt – Build – Finance – Operate – Maintenance – Transfer (DBFOMT)

Project Scope

1. Replacing all APJ lamps with LED lamps
2. Adding lamps for areas that are not yet served
3. Achieving energy efficiency up to 35%
4. Operation, maintenance / repair of lamps & power usage reports
5. Digitalization of Asset Management & Facility Maintenance

Service Coverage

Denpasar City (North, East, West, and South region)

Status/Stage

Preparing for tender

Project Cost

USD 12,3 mill

IRR

12,2%

Investment Return Scheme

Availability Payment (Fixed Government Pay)

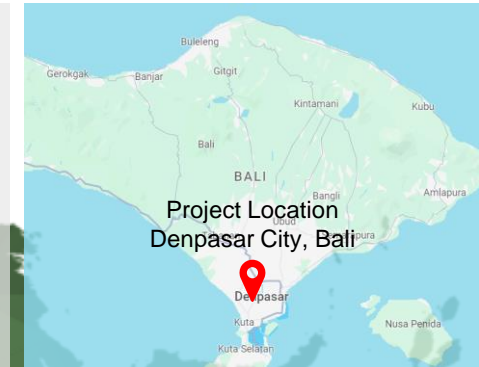
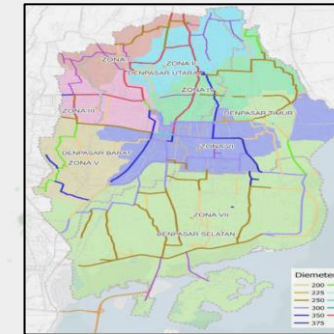
Technical

Existing

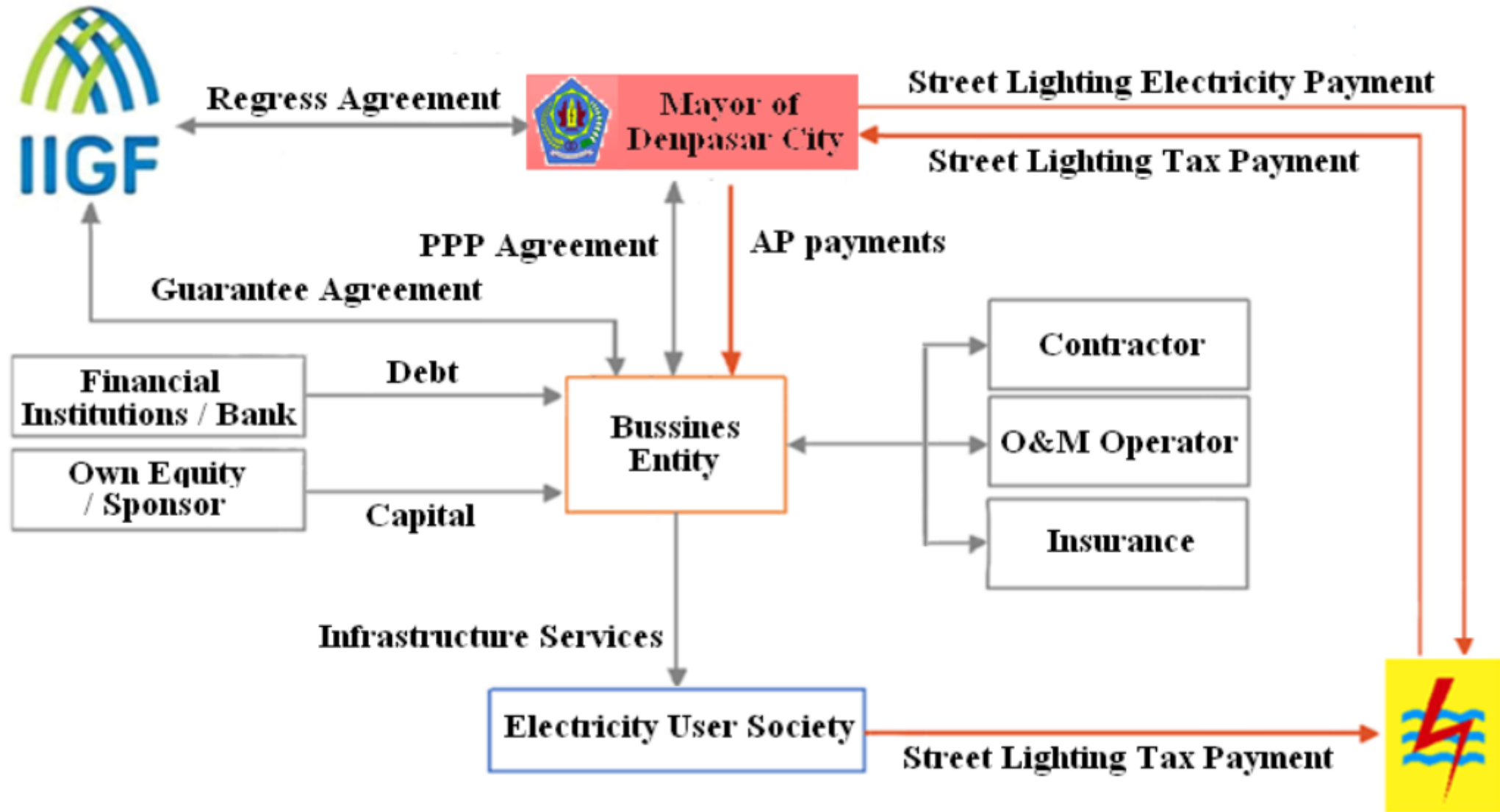
15.997 units, dominant conventional technology

Plan

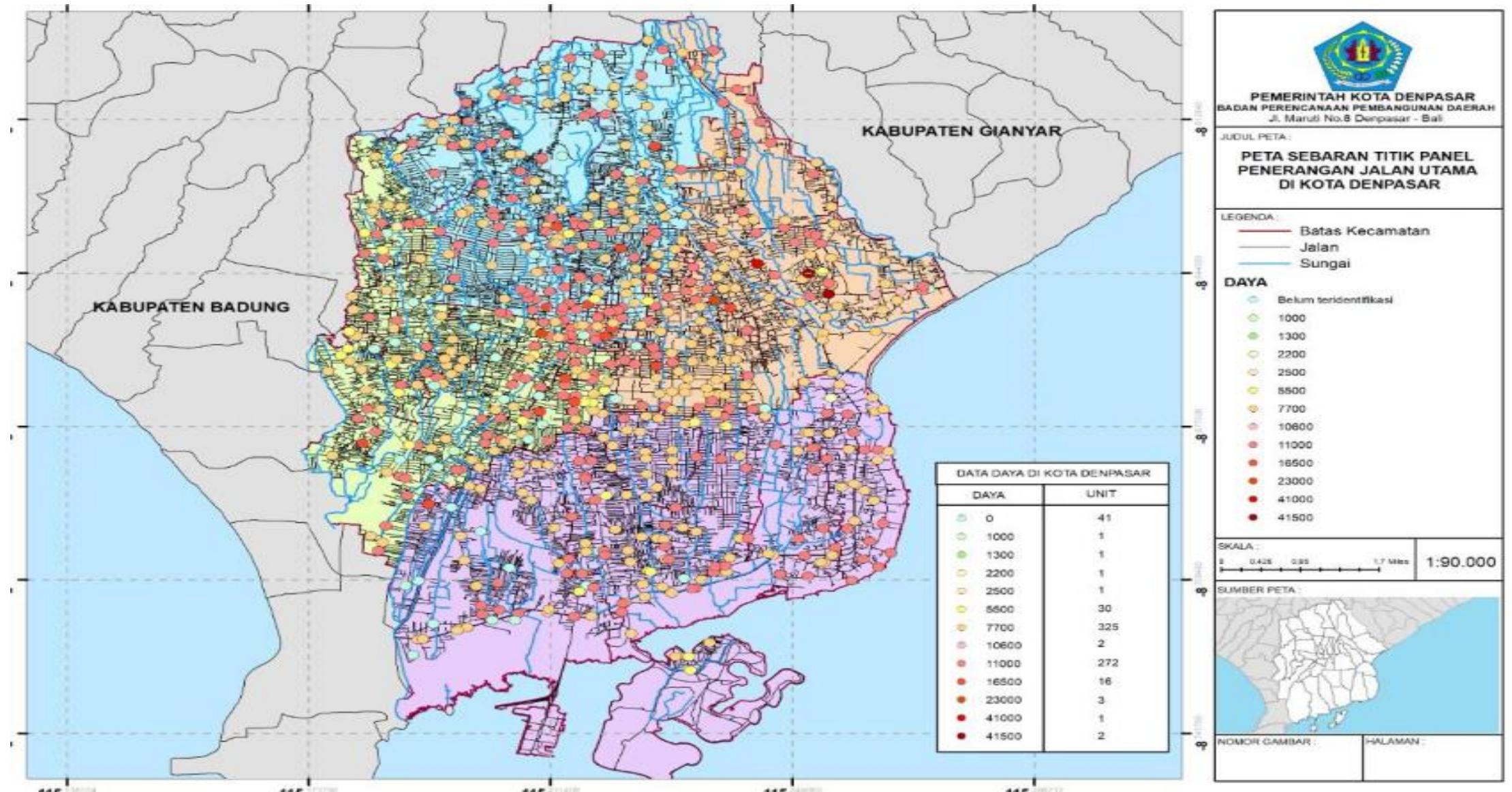
16.117 units, full LED and smart system technology



Project Structure



Project Illustration



Project Scope

Development Planning

- a. Survey of APJ location points
- b. Design of APJ distribution map

Construction of APJ

- a. Construction of new APJ on road sections in Denpasar City
- b. Installation of 16,117 units of APJ lamps with LED technology
- c. Installation of 4,031 new poles
- d. Installation of underground cables and overhead cables of the APJ electrical network
- e. Payment for new APJ electrical connection fees
- f. Installation of APJ electrical metering facilities (smart panel)
- g. Grounding system (earthing system)
- h. Dismantling & storage

APJ Maintenance and Operation during the consession period

- a. Maintenance and operation of APJ facilities (poles, lamps, electrical networks, meters) on the agreed road sections;
- b. Maintaining the light quality of APJ lamps according to the Service Level Agreement (SLA)
- c. Management and administrative activities using applications
- d. Handover of assets and transfer of knowledge at the end of the collaboration period according to the APJ KPBU agreement.

Project Schedule

Indicative Project Schedule

Pre-Qualification Q3
2024

Request for Proposal
Q3 2024

Bid Award
Q4 2024

Agreement Signing
Q4 2024

Financial Close Q1
2025

Construction Q1
2025

Thank You