Financing Climate Change Project: Beyond Conventional Scheme – Case of Jakarta

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<u>AGENDA</u>

Infrastructures Development in DKI Jakarta

Spatial Use Scheme

Availability Payment (PPP)

Islamic Financing Scheme







ESTIMASI TOTAL KEBUTUHAN (5 TAHUN)

Meliputi, tapi tidak terbatas pada:

- KJP Plus, KJS Plus, KJMU, KJL
- Kewirausahaan (OKE-OCE)
- Penanganan Banjir dan Rob (Tanggul Laut, Sungai/Danau/Waduk/Situ, dll)
- Pembangunan Perumahan Rakyat (DP 0, Rusunawa, penataan Kampung/kumuh)
- Penyediaan RTH (Hutan, Taman & Makam)
- Pembangunan Pedestrian, FO/UP, dll
- Pengembangan RSKD dan RSUD (tipe B, C & D)
- Pembangunan dan Peningkatan Gedung Sekolah (SD, SMP, SMA, SMK)
- Penanganan Prasarana Sarana Umum (PPSU) tingkat Kelurahan
- Jasa Petugas Penunjang Kegiatan Kantor/Lapangan (Kontrak Perorangan)
- Pengembangan Kebudayaan dan Pariwisata
- Belanja Subsidi Pangan, Transportasi, dll
- Peningkatan Pencahayaan Kota
- · d

APBD Rp. 204,88 T APBN/ Loan Rp. 29,68 T

Meliputi, tapi tidak terbatas pada :

KPBU

Rp. 41,57 T

PENDANAAN

BERSUMBER DARI

DISINSENTIF

PEMANFAATAN

RUANG

- · Pembangunan MRT (N-S) Fase I & II
- Pembangunan Sistem Pengolahan Air Limbah Terpusat (zona 1 dan 6)

Meliputi, tapi tidak terbatas pada

- Stadion Olahraga Bertaraf Internasional
 Jakarta Sewerage System/Pengolahan Air Limbah untuk Zona 2, 5, dan 8
- Penyelenggaraan Kereta Api Ringan di wilayah Jakarta/LRT Fase II
- Penyelenggaraan MRT yang menghubungkan dengan daerah sekitar
- Fasilitas pengolahan sampah (Intermediate Treatment Facility/ITF) antara lain berupa Pembangkit Listrik Tenaga Sampah (PLTSa)/Waste To Energy (WTE) pada 3 lokasi
- Pembangunan Rumah Sakit Khusus Terpadu Penyakit Tidak Menular
- Pengoperasian dan pemeliharaan Velodrome
- Pengoperasian dan pemeliharaan Eguestrian
- Penyediaan Infrastruktur Transportasi (termasuk pengembangan air strip di Pulau Panjang), Listrik dan Air Bersih untuk pengembangan Kawasan Strategis Pariwisata Nasional (KSPN) Kepulauan Seribu
- Sistem Penyediaan Air Minum (SPAM)
 Regional Jatiluhur 1
- Pembangunan Integrated Tunnel atau Multipurpose Tunnel

Penugasan/

PERLIBATAN

MASYARAKAT

SECARA

SUKARELA

(CSR, Swa-

Pendanaaan)

B to B

Rp. 2.76 T

Obligasi

Menular***

Pembangunan Rumah Sakit

Khusus Terpadu Penyakit Tidak

Meliputi, tapi tidak terbatas pada :

- Pembangunan LRT Fase II***

Meliputi, tapi tidak terbatas pada

- Pembangunan LRT Fase II
- · Pembangunan ITF (lokasi Sunter)

Current Infrastructure Project in DKI Jakarta Related to Climate Change



WASTE WATER TREATMENT



AFFORDABLE HOUSING









NORMALIZATION RIVERSIDE

MASS PUBLIC TRANSPORT



OPEN PUBLIC SPACE

ROAD INFRASTRUCTURE







Spatial Use Scheme



Transfer of Development Right (TDR) Zoning

The transfer of building rights is the value of the floor area ratio (FAR) that has not been utilized.



Provision of Public Facilities is prioritized on land / assets owned by the Regional Government or on land that must be submitted to the Regional Government in accordance with the priority needs of the Local Government based on the proposed needs Regional Work Unit (SKPD).

Forms of Compensation

Compensation for exceeding the FAR is set out in the form of provision of public facilities, among others (Governor Regulation No. 210/2016)

- Provide Green Public Open Space;
- b. Provide Public flats:
- c. Provide Reservoir.
- d. Provide Infrastructure
- e. Provide a pathway and improve the quality
 of pedestrian facilities integrated with
 public transport; and
- f. Provide bike lanes integrated with public transport.



Floor Coefficient (KLB) Compensation



The DKI Jakarta's administration has a list of infrastructure projects that developers can choose from to build when they increase their KLB above the limits set in the 2014 Local Regulation on detailed spatial planning and zoning.

* compensation for KLB value exceed has been set out in DKI Jakarta Governor Regulation (Pergub) No. 175/2015 as amended by Pergub No. 119/2016. Determination of KLB value exceed is an instrument of spatial planning as stipulated in Law No. 26/2007 on Spatial Planning.

Semanggi interchanges ring roads was built using the funds of KLB compensation from PT Mitra Panca Persada, when elevating the Wisma Sudirman Building from 17 floors to 60 floors.

IDR 366 milliar (28 million USD)





Developers Obligation

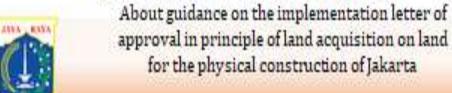




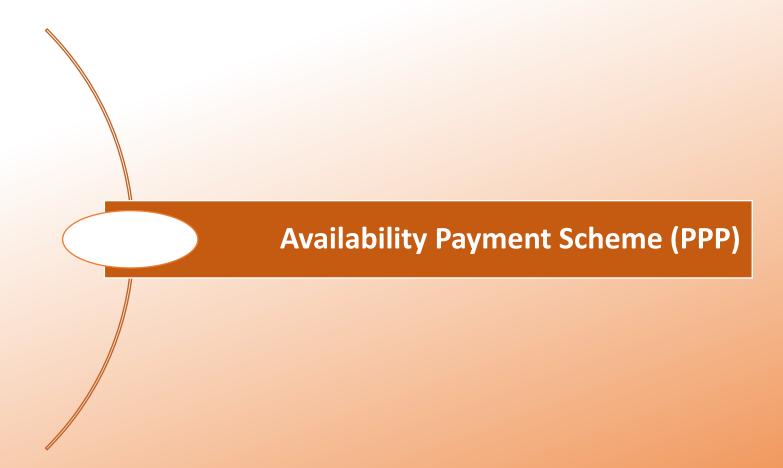
if you requested a location with a total area 5000 m2 or more. You have to pay and build affordable flatinclude facilities, 20% from total benefit area as commercial or another requirement set by Governor DKI Jakarta



Governor's Decree no. 504/1990









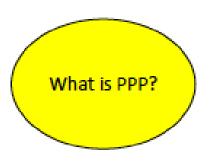
PPP Scheme → Availability Payment

- Implementing PPP Scheme → Availability Payment (AP)
 - availability Payment Scheme is defined as "periodical payment made by Minister/Head of Agency/Head of Local Area to the Implementing Enterprise for Infrastructure Services delivery based on the quality and/or criteria as decided in PPP Agreement".
 - AP Scheme is a method to deliver high quality of public services while minimizing financial burden of public sector.

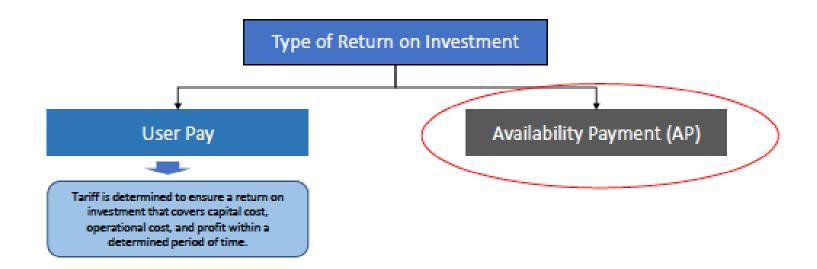
PPP Scheme → Availability Payment

- Implementing PPP Scheme Availability Payment (AP)
 - transfer the risks of designing, building, financing and operating/maintaining a project to a private partner.
 - Availability Payments can be an attractive financing and project delivery alternative for project which, for reasons related to policy, public perception and/or profitability are not feasible or advisable under a userfee based concession.

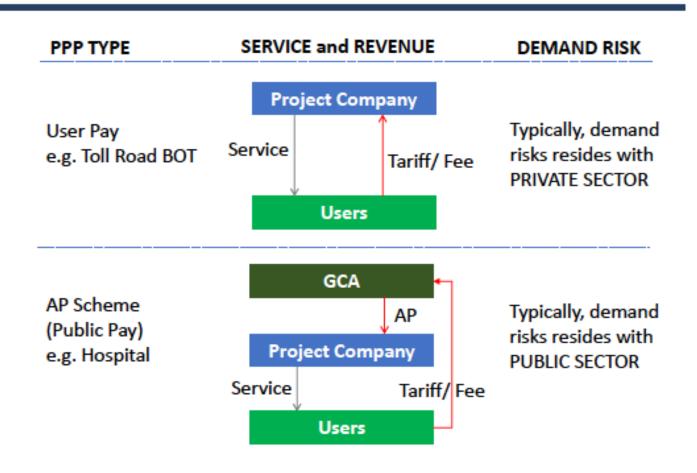
PPP Scheme → Availability Payment



In Indonesian context, based on Perpes 38/2015, PPP is the cooperation between government and Business Entity in infrastructure provision for the public interest in accordance with the specification previously determined by the Minister/Head of Institution/Head of Region/State Owned Enterprise/Regional Owned Enterprise, which partially or fully uses Business Entity's resources, with particular regard to the allocation of risk between the parties.

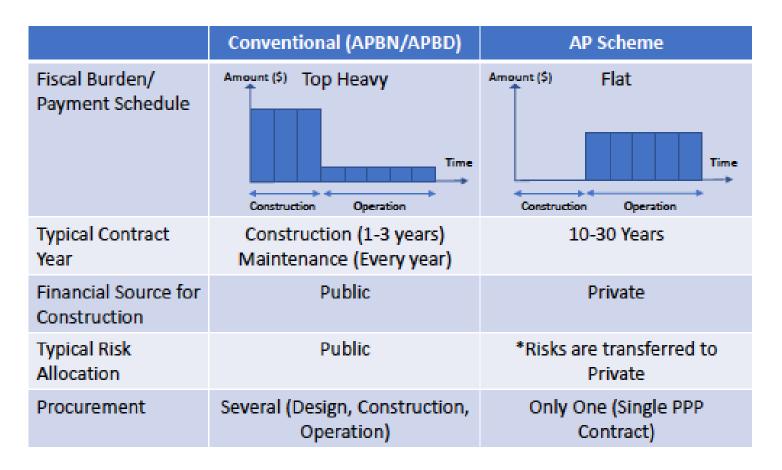


Difference between PPP User Pay and AP Scheme



Source: JICA

Conventional Scheme and AP Scheme

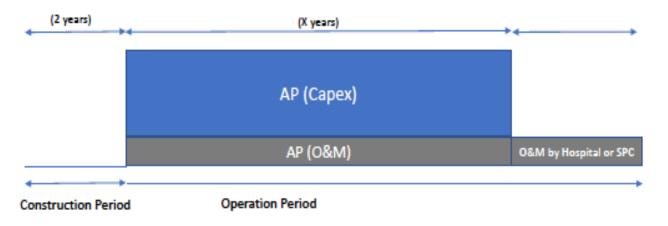


[&]quot;Actual figure may have fluctuation based on inflation adjustment

Source: JICA

Image of AP Payment

- Availability payment (AP) is made from GCA to SPC as a reward of ensuring availability of the facility and providing specified services under a PPP (AP) contract.
- As AP, a fixed amount is paid throughout the operation period, with a possible deduction in case SPC fails to fulfill certain requirements.
- The AP amount essentially covers all the costs (construction cost, O&M cost, project financing cost etc.) and return for investors.
- The simple cash flow structure of SPC is shown in the figure below:



Source: JICA

^{*}O&M might be taken over by Hospital or continued by SPC from X+ th years of operation.





Islamic Finance through Zakat (Alm or Tithe)

- ZAKAT (Alms or Tithe)
 - A term used in Islamic finance to refer to the obligation that an individual has to donate a certain proportion of wealth each year to charitable causes.
 - Zakat is a mandatory process for Muslims in order to physically and spiritually purify their yearly earnings that are over and above what is required to provide the essential needs of a person or family.
- The most common level of zakat on wealth from cash, equities and gold is 2.5% of the total value.
- For zakat funds to be used for the purpose, an additional condition need to be met, i.e. the beneficiaries must be poor.

Islamic Finance through ZAKAT (Alm or Tithe)

- Environmental protection and sustainability fits in nicely with the Islamic finance agenda that seeks to enhance the general welfare of society.
- Protection of the planet and the environment, climate management and adaptation, as organizational goals are clearly in conformity with the goals of the Shariah as well as with the SDGs.
- Islamic social funds can potentially play a significant role in absorbing the incremental costs with clean technologies where subsidies are not forthcoming to absorb the same.

Islamic Finance through others Scheme

- The institution of waqf, along with zakat and Sadaqa, can certainly play a role in coping with humanitarian crises resulting from climate change.
- Awqaf like foundations may directly engage in provision of goods and services related to mitigation and adaptation.
- Awqaf may also be dedicated to research and development and towards increasing consumer awareness and stronger support of action to mitigate climate change.
- Similar to SRI Funds, the **Islamic Green Funds** and similar to Green Bonds, **the Islamic Green Sukuk** can contribute significantly to the agenda of climate change.

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Implementing Islamic Finance through ZAKAT in Jakarta

- Amount of Zakat Collected → 13 Million USD.
- Distributed for education, health, livelihood, mosque and public facility renovation/new building and disaster
- Still an idea Need more discussion... proposal....
 Feasibility study....

Thank you

Sources:

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