INDONESIA'S SUSTAINABLE DEVELOPMENT PROJECTS
2019 - 2030
INDONESIA’S SUSTAINABLE DEVELOPMENT PROJECTS
Indonesia highly committed to implementing and achieving the Sustainable Development Goals (SDGs). Under the coordination of the Ministry of National Development Planning/Bappenas, Indonesia has mainstreamed SDGs into National Medium-Term Development Plan (RPJMN) and elaborated in the Government Work Plan (RKPD) annual budget documents. In its implementation, Indonesia upholds the SDGs principles, namely (i) universal development principles, (ii) integration, (iii) no one left behind, and (iv) inclusive principles.

Achievement of the ambitious SDGs targets, a set of international commitments to end poverty and build a better world by 2030, will require significant investment. The investment gap for the SDGs remains significant. Additional long-term resources need to be mobilized from all resources to implement the 2030 Agenda for Sustainable Development. In addition, it needs to be ensured that investment for the SDGs is inclusive and leaves no one behind.

Indonesia is one of the countries that was given the opportunity to offer investment opportunities related to sustainable development in the 2019 Sustainable Development Goals Investment (SDGI) Fair in New York on April 15-17 2019. The SDGI Fair provides a platform, for governments, the private sectors, philanthropies and financial intermediaries, for “closing the SDG investment gap” through its focus on national and international efforts to accelerate the mobilization of sufficient investment for sustainable development.

Therefore, Indonesia would like to take this opportunity to convey various concrete investment for SDGs. The book “Indonesia’s Sustainable Development Project” shows and describes investment opportunities in Indonesia that support the achievement of related SDGs goals and targets.

Thanks and gratitude are conveyed to all members of the team for their hard work and contributions to produce “Indonesia’s Sustainable Development Project” book. Finally, we hope that this book will facilitate stakeholders in finding solutions to close investment gaps and possibilities of cooperation in funding for the achievement of SDGs.
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1. Country Profile
2. Increasing Welfare
3. Macro-Economic Stability
4. Improving Business Climate
5. Indonesia Commitment to SDGs

# B. PROJECT DIGEST

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1. Road Project
2. Transportation Project

### 1. Road Project
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1.2. Semanan-Balaraja
1.3. Kamal-Teluknaga-Rajeg
1.4. Patimban
1.5. Gedebage-Tasikmalaya-Cilacap
1.6. Balikpapan-Penajam Paser Utara
1.7. Solo-Yogyakarta-Nyia
1.8. Yogyakarta-Bawen
1.9. Bekasi-Cawang-Kampung Melayu
1.10. Kanci-Pejagan-Pemalang, Pasuruan-Probolinggo
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Indonesia is the fourth most populous country with more than 269 million people and the largest archipelagic country in the world. The country has around 17,000 islands with land area of 1,919,440 km², water area of 3,257,483 km² and coastline of 99,093 km; located between Asia and Australia. Indonesia is endowed with rich natural resources, such as marine and forest, agricultural and mining products, and abundant energy sources. Indonesia has put its great attention to environmental issues in the national development, shown by the increase of the Environmental Quality Index from 63.20% in 2013 to 66.19% in 2017. In most cases, development and economic growth increase greenhouse gas (GHG) emissions, but Indonesia’s GHG emission intensity shows a downward trend while maintaining a stable and increasing economic growth. Moreover, the implementation of low carbon development has led to reduction in GHG emissions to get closer to 26% GHG emission reduction target in 2019.
Increasing Welfare

Indonesia is projected to approach upper middle-income status soon, with declining poverty rate and lowered gini ratio (inequality), as well as experiencing an increase of Human Development Index (HDI) and better unemployment rate. Poverty rate has declined from 11.13 percent in 2015 to 9.66 percent in 2018, along with the number of poor people decreasing from around 28 million people to less than 26 million people. Gini ratio has also improved, from 0.402 in 2015 to 0.384 in 2018. HDI continues to increase from 69.55 in 2015 to 70.81 in 2017, while open unemployment rate continues to decrease from 6.18 percent in 2015 to 5.34 percent in 2018.

Macro-Economic Stability

In the midst of global economics slow down and uncertainties, Indonesia has maintained a stable and strong economic growth. The Indonesia economy continues to grow more than 5 percent per year throughout 2015-2018, higher than the average of developing countries at 4.5 percent per year. Maintained macroeconomic stability is also reflected by low inflation rate, stable exchange rates, increased foreign reserves and manageable current account deficit. Inflation is around 3.3 percent per year in 2015-2018. The balance of payment is relatively strong, as reflected by increasing foreign reserves from USD 111.9 billion in 2014 to USD 120.7 billion in December 2018. The economic growth has created more than 9 million jobs in 2015-2018. Furthermore, GDP per capita increased from USD 3,531 in 2014 to USD 3,927 in 2018, which is approximately USD 3,820 GNI per capita, indicating that Indonesia is moving towards upper middle-income country soon.
Indonesia’s Sustainable Development Projects

Why Invest to Indonesia

Indonesia’s Sustainable Development Projects

Furthermore, Indonesia has also joined the Trillion Dollar Club Countries with the GDP of more than USD 1 trillion per year, where Indonesia is among South Korea, Russia, Spain, Australia, and Mexico. Indonesia is ranked sixteenth in terms of GDP size, and therefore Indonesia is a member of G20 countries.

Indonesia has shown progressive achievement in the past few years on Ease of Doing Business (EoDB) that put Indonesia rank’s to rise from 91 to 72 in 2018. Some key improvements have made Indonesia climbed by 34 positions from ranking 106 to 72 in 2 years (2016 to 2018).

In addition, some investment credit rating agencies namely Japan Credit Rating, Moody, S&P, Fitch, has rated Indonesia with “stable” investment grade. This rating has increased the realization of investment target in Indonesia. The investment in Q4 2018 rised by 7.0% compared to Q4 2017 despite total investment in Jan to Dec 2018 rised slightly by 4.1% (or 94.3% realization compared to its target in 2018).

Indonesia has committed to improve business climate since 2015. Some efforts that have been taken, includes: (1) One Stop Service by simplifying the investment procedures with more than 21 ministries and institutions integrated; (2) applying the 3-hrs investment licensing that is also part of the OSS program that allows prospective investors with a minimum investment of IDR 100 trillion (US$7.33 million) and/or absorb a workforce of more than 1,000 people to have their preliminary permits; (3) the acceleration and certainty in custom clearance process through the Green Lane Facility; (4) the Direct construction Phase that allow the investors to directly start their project construction before obtaining construction permits in selected 14 industrial estates; (5) simplification of investment and import procedures; (6) acceleration of doing business as the implementation of the Presidential Regulation Number 91 Year 2017; (7) expansion number or pioneer industries that will obtain tax facilities with lower investment capital requirement under the new tax holiday policy; (8) applying the One Single Submission for investment licensing through OSS system as the implementation of Government Regulation Number 24 Year 2018.

To improve the investment, the Government of Indonesia has been promoting the six (6) priority sectors for investment, that includes: (1) Infrastructure on energy, transportation, road, railway, airport, seaport, etc; (2) Manufacturing Industry with labor intensive, export oriented, import substitute, and value added industry; (3) Maritime that includes fisheries and cold storage; (4) Agriculture; (5) Tourism,
especially at the “10 New Bali”; (6) Lifestyle Industry such as creative economy and digital industry. The last two priorities are the new big deal for Indonesia, specifically of large market of e-commerce, predicting the increase of internet users to 144 million by 2020, and with this, Indonesia aims to become the center of digital economy in South East Asia in 2020.

Indonesia is strongly committed to implement SDGs, reflected in the mainstreaming of SDGs into the National Medium-Term Development Plan (RPJMN) for 2015-2019 and will continue mainstreaming SDGs in the subsequent National Medium-Term Development Plans. For Indonesia, implementing SDGs means implementing the national development agenda. The highest commitment is also reflected on the enactment of the legal basis for the Implementation of the Achievement of the Sustainable Development Goals in Indonesia as stated on Presidential Decree Number 59 Year 2017.

The Presidential Decree also regulates the establishment of the National Coordination Team on SDGs. This National Coordination Team is directly led by the President of the Republic of Indonesia, and the Minister of National Development Planning is assigned as the Implementation Coordinator. The National Coordination Team consists of a Steering Committee, Implementation Team, the Technical Working Groups and Expert Panel and supported by SDGs Secretariat.

At sub-national level, the same commitment is also reflected from the mainstreaming of SDGs into Sub-National Medium-Term Development Plans and the establishment of Provincial Coordination Teams. The coordinating team of SDGs reflects the inclusive principle by involving all stakeholders from government, philanthropy and business, academia, civil society organization and media as the member of the Coordination Team. This collaborative partnership between state and non-state actors is present in each step of SDGs implementation in Indonesia.
Indonesia’s Sustainable Development Projects

Why Invest to Indonesia

PROJECT DIGEST

Pura Tanah Lot, Bali
© Anton Petrus / Shutterstock
SDGs BUSINESS OPPORTUNITIES

B.1

PROJECT DIGEST

Borobudur Temple, Central Java
© Sykin Pavel / Shutterstock
ROAD PROJECT
**SEMARANG – DEMAK TOLL ROAD**

**LOCATION:** Central Java

**Description:** The proposed project will connect Semarang (Capital of Central Java Province) – Demak (Tourism City). This Project has high traffic volume with 25.25 km in length. Semarang as the capital town of Central Java Province is well-developed with industrial goods and trading. On the other side, Demak is a region that is rich with its natural resources.

**Sector:** Road

**Sub-Sector:** Toll Road

**Estimated Project Cost:** US$ 583.4 million

**Government Contracting Agency:** Indonesia Toll Road Authority (“BPJT”)

**Contact Person:** Herry Trisaputra Zuna (Head of BPJT) and Sudiro Roi Santoso (Head of Investment Division)

**Contact:** +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

**Estimated Concession Period:** 35 years

**Project Timeline:**

**Financial Feasibility:**

- FIRR: 10.43%
- NPV: US$ 0.6 million

**Indicative Government Support & Guarantee:** Potentially guaranteed by IIGF.

**Indicative Project Structure**

<table>
<thead>
<tr>
<th>SPV (BPJT)</th>
<th>National Toll Road Authority (BPJT)</th>
<th>Regress Agreement</th>
<th>Guarantee Agreement</th>
<th>PPP Agreement</th>
</tr>
</thead>
<tbody>
<tr>
<td>70%</td>
<td>30%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**User Bank (Debt):**

| 70% | 30% | Equity |

**Tariff Government and SPV Obligations**

- Ministry of Finance
- Regress Payment Co-guarantee Agreement with Ministry of Finance

**Business Opportunity:** Bidders/Financiers

**Project Status:** Project is currently on Request for Proposal phase

**Data per**: 05/03/2019

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**Rice Terraces at sunrise in Tetebatu, Lombok**

© Jakob Fischer/Shutterstock
1.2 SEMANAN – BALARAJA TOLL ROAD (UNSOLICITED PROJECT)

LOCATION: DKI Jakarta - Banten

Description:
This toll road project is designed with a total length of 31.9 km with a design speed of 80 km/hour. The basic design and environmental impact assessments for this project have been done. Semanan-Balaraja toll road will be connected to the Serpong-Balaraja section which is currently under construction, and will also be connected with six toll roads within the city of DKI Jakarta.

Sectors: Road
Sub-Sector: Toll Road

Estimated Project Cost: US$ 1,155.6 million

Government Contracting Agency: Indonesia Toll Road Authority (“BPJT”)
Contact Person: Herry Trisaputra Zuna (Head of BPJT) and Sudiro Roi Santoso (Head of Investment Division)
Phone: +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

Implementation Schedule:
1. Preparation: 2017 – 2019
2. Land Acquisition: 2018 – 2020
3. Construction: 2019 – 2021
4. Operation: December 2019 for section 1

FIRR: 13.67%
NPV: N/A

Business Opportunity:
Bidder/financier
Project Status:
FS for this project is already finished. Data per 05/03/2019

SPV (BUJT)
PT PII
National Toll Road Authority (BPJT)
Regress Agreement
Guarantee Agreement
PPP Agreement
70%
30%
User Bank (Debt) (70%)
Equity (30%)

Tariff
Government and SPV Obligations
Ministry of Finance
Regress Payment
Co-guarantee Agreement with Ministry of Finance

1.3 KAMAL – TELUKNAGA – RAJEG TOLL ROAD (UNSOLICITED PROJECT)

LOCATION: DKI Jakarta - Banten

Description:
This toll road project is designed with a total length of 38.6 km with a design speed of 80 km/hour. The basic design and environmental impact assessments for this project have been done. This toll road will connect Jakarta with Tangerang Regency which has an organized industrial area. The availability of adequate infrastructure is the key to attracting investment.

Sectors: Road
Sub-Sector: Toll Road

Estimated Project Cost: US$ 1,715.6 million

Government Contracting Agency: Indonesia Toll Road Authority (“BPJT”)
Contact Person: Herry Trisaputra Zuna (Head of BPJT) and Sudiro Roi Santoso (Head of Investment Division)
Phone: +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

Implementation Schedule:
1. Preparation: 2017 – 2019
2. Land Acquisition: 2018 – 2020
3. Construction: 2020
4. Operation: 2021

FIRR: 10.70%
NPV: N/A

Business Opportunity:
Bidder/financier
Project Status:
FS for this project is already finished. Data per 05/03/2019

SPV (BUJT)
PT PII
National Toll Road Authority (BPJT)
Regress Agreement
Guarantee Agreement
PPP Agreement
70%
30%
User Bank (Debt) (70%)
Equity (30%)

Tariff
Government and SPV Obligations
Ministry of Finance
Regress Payment
Co-guarantee Agreement with Ministry of Finance

1.2
**1.4 PATIMBAN PORT ACCESS TOLL ROAD (UNSOLICITED PROJECT)**

**Location:** West Java

- **Sector:** Road
- **Sub-Sector:** Toll Road
- **Estimated Project Cost:** US$ 470.4 million

**Government Contracting Agency:**
- Indonesia Toll Road Authority ("BPJT")
- Sucofindo Surabati (Head of Investment Division)
  
  Contact Details:
  +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

- **Implementation Schedule:**
  1. Preparation: 2017 – 2019
  2. Land Acquisition: 2018 – 2020
  4. Operation: 2020

- **Financial Feasibility:**
  - FIRR: 11.57%
  - NPV: N/A

- **Indicative Government Support & Guarantee:**
  - For Unsolicited Project, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Indicative Government Support & Guarantee:**

<table>
<thead>
<tr>
<th>Business Opportunity</th>
<th>Bidder/financier</th>
<th>Project Status</th>
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<tbody>
<tr>
<td>Bid for the project already tendered</td>
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</table>

**Description:**
This toll road project is designed with a total length of 37.7 km with a design speed of 80 km/hour. The basic design and environmental impact assessments for this project have been done. The construction of this toll road is expected to provide easier road access to Patimban Port in Subang, West Java. That way, this connectivity infrastructure can have a positive influence on economic activity and export of goods imports in Indonesia.

**Indicative Project Structure:**

1. **Government Contracting Agency:**
   - Indonesia Toll Road Authority ("BPJT")
   - Sucofindo Surabati (Head of Investment Division)

2. **Government Contracting Agency:**
   - Indonesia Toll Road Authority ("BPJT")
   - Sucofindo Surabati (Head of Investment Division)

3. **Government Contracting Agency:**
   - Indonesia Toll Road Authority ("BPJT")
   - Sucofindo Surabati (Head of Investment Division)

4. **Government Contracting Agency:**
   - Indonesia Toll Road Authority ("BPJT")
   - Sucofindo Surabati (Head of Investment Division)

**Indicative Project Structure:**

1.4 **PATIMBAN PORT ACCESS TOLL ROAD (UNSOLICITED PROJECT)**

**Location:** West Java

- **Sector:** Road
- **Sub-Sector:** Toll Road
- **Estimated Project Cost:** US$ 470.4 million

**Government Contracting Agency:**
- Indonesia Toll Road Authority ("BPJT")
- Sucofindo Surabati (Head of Investment Division)
  
  Contact Details:
  +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

- **Implementation Schedule:**
  1. Preparation: 2017 – 2019
  2. Land Acquisition: 2018 – 2020
  4. Operation: 2020

- **Financial Feasibility:**
  - FIRR: 11.57%
  - NPV: N/A

- **Indicative Government Support & Guarantee:**
  - For Unsolicited Project, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Indicative Government Support & Guarantee:**

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<tbody>
<tr>
<td>Bid for the project already tendered</td>
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</table>

**Description:**
This toll road project is designed with a total length of 184 km with a design speed of 80 km/hour. This project is a replacement of the Cileunyi – Garut – Tasikmalaya toll road plan program due to the need to adjust the terrain contour conditions and the importance of developing the southern region to be more developed and not to be concentrated on national roads.

**Indicative Project Structure:**

1.5 **GEDEBAGE – TASIKMALAYA – CILACAP TOLL ROAD (UNSOLICITED PROJECT)**

**Location:** West Java – Central Java

- **Sector:** Road
- **Sub-Sector:** Toll Road
- **Estimated Project Cost:** US$ 3,970.4 million

**Government Contracting Agency:**
- Indonesia Toll Road Authority ("BPJT")
- Sucofindo Surabati (Head of Investment Division)
  
  Contact Details:
  +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

- **Implementation Schedule:**
  1. Preparation: 2017 – 2019
  2. Land Acquisition: 2018 – 2020
  3. Construction: 2021 – 2022
  4. Operation: 2023

- **Financial Feasibility:**
  - FIRR: 12.02%
  - NPV: N/A

- **Indicative Government Support & Guarantee:**
  - For Unsolicited Project, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Indicative Government Support & Guarantee:**

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**Description:**
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**Indicative Project Structure:**

1.4 **PATIMBAN PORT ACCESS TOLL ROAD (UNSOLICITED PROJECT)**

**Location:** West Java

- **Sector:** Road
- **Sub-Sector:** Toll Road
- **Estimated Project Cost:** US$ 470.4 million

**Government Contracting Agency:**
- Indonesia Toll Road Authority ("BPJT")
- Sucofindo Surabati (Head of Investment Division)
  
  Contact Details:
  +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

- **Implementation Schedule:**
  1. Preparation: 2017 – 2019
  2. Land Acquisition: 2018 – 2020
  4. Operation: 2020

- **Financial Feasibility:**
  - FIRR: 11.57%
  - NPV: N/A

- **Indicative Government Support & Guarantee:**
  - For Unsolicited Project, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Indicative Government Support & Guarantee:**

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**Description:**
This toll road project is designed with a total length of 184 km with a design speed of 80 km/hour. This project is a replacement of the Cileunyi – Garut – Tasikmalaya toll road plan program due to the need to adjust the terrain contour conditions and the importance of developing the southern region to be more developed and not to be concentrated on national roads.
**BALIKPAPAN – PENAJAM PASER UTARA TOLL ROAD (UNSOLICITED PROJECT)**

**Location:** East Kalimantan

**Sector:** Road

**Sub-sector:** Toll Road

**Description:**
At present, klotok vessels are still the preferred transportation for people to cross Balikpapan and Penajam. The development of this project aims to create a safe, economical, fast and safe infrastructure. This toll road will also create savings in transportation costs for Balikpapan and PPU.

**Estimated Project Cost:** US$ 1,221.5 million

**Government Contracting Agency:**
- Indonesia Toll Road Authority (“BPJT”)
- Sucoke Buana (head of investment division)
- +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

**Estimated Concession Period:** On review

**Implementation Schedule:**
- Preparation: 2018 – 2019
- Land Acquisition: 2018 – 2020
- Construction: 2019 – 2021
- Operation: 2022

**Financial Feasibility:**
- FIRR: 13.54%
- NPV: N/A

**Indicative Government Support & Guarantee:**
For Unsolicited Project, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Indicative Project Structure**

1.6 BALIKPAPAN – PENAJAM PASER UTARA TOLL ROAD (UNSOLICITED PROJECT)
LOCATION: East Kalimantan

**SOLO – YOGYAKARTA – NYIA TOLL ROAD (UNSOLICITED PROJECT)**

**Location:** Central Java – Special Region of Yogyakarta

**Sector:** Road

**Sub-sector:** Toll Road

**Description:**
This toll road project is designed with a total length of 91.93 km with a design speed of 80 km/hour, that will pass 6 regencies: Karanganyar, Klaten, Sleman, Yogyakarta City, and Kulonprogo. This project is an effort to develop the southern region of Central Java. Furthermore, it is also planned that this toll road will be connected to Cilacap, Tasikmalaya, and Bandung.

**Estimated Project Cost:** US$ 1,170.4 million

**Government Contracting Agency:**
- Indonesia Toll Road Authority (“BPJT”)
- Sucoke Buana (head of investment division)
- +62-21-7258063; e-mail: bpjt@pu.go.id or investasi2.bpjt@gmail.com

**Estimated Concession Period:** On review

**Implementation Schedule:**
- Preparation: 2018 – 2019
- Land Acquisition: 2018 – 2019
- Construction: 2019 – 2021
- Operation: December 2021 for section 1

**Financial Feasibility:**
- FIRR: 13.54%
- NPV: N/A

**Indicative Government Support & Guarantee:**
For Unsolicited Project, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Indicative Project Structure**

1.7 SOLO – YOGYAKARTA – NYIA TOLL ROAD (UNSOLICITED PROJECT)
LOCATION: Central Java – Special Region of Yogyakarta

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**Business Opportunity:** Bidder/financier

**Project Status:**
FS for this project is already finished. Data per 05/03/2019

**Business Opportunity:** Bidder/financier

**Project Status:**
FS for this project is already finished. Data per 05/03/2019
**SDGs Business Opportunities**

### Road Project

**Location:** Yogyakarta - Central Java

**Description:**
Yogyakarta - Bawen toll road will connect Semarang - Solo toll road to Yogyakarta. It is planned to reduce heavy traffic on the arterial road. This toll road will also support industrial area in Ungaran - Bawen corridor and development of Joglosemar tourism area. Economic activity, industries, and tourism in Yogyakarta and Semarang will encourage usage of Yogya - Bawen toll road. Furthermore, this project is included in the Indonesia National Strategic Project (PSN).

**Sector:** Road

**Sub-Sector:** Toll Road

**Estimated Project Cost:** US$ 1,018.9 million

**Government Contracting Agency:** Indonesia Toll Road Authority (“BPJT”)

**Contact Person:**
- Herry Trisaputra Zuna (Head of BPJT) and Sudiro Roi Santoso (Head of Investment Division)
  - +62-21-7258063; e-mail: bpjt@pu.go.id and investasi2.bpjt@gmail.com

**Estimated Concession Period:** 35 years

**Project Timeline:**

<table>
<thead>
<tr>
<th>Financial Feasibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRR: 11.15%</td>
</tr>
<tr>
<td>NPV: US$1,044.1 million</td>
</tr>
</tbody>
</table>

**Business Opportunity:**
Transaction adviser/bidder/financier

**Project Status:**
Project is currently on Outline Business Case phase

**Indicative Government Support & Guarantee:**
Government Support and Government Guarantee will be determined after Final Business Case Study finalized.

### PT Kresna Kusuma Dyandra Marga (KKDM)

**Location:** Bekasi – Cawang - Kampung Melayu

**Summary of KKDM:**
- 1.8 YOGYAKARTA – BAWEN TOLL ROAD
- 1.9 PT Kresna Kusuma Dyandra Marga (KKDM)

**Investment Requirement:**
- USD 233 million
- Mode of offer: Share Divestment of WTR ownerships in PT Kresna Kusuma Dyandra Marga
- % of ownership: Up to 98% of WTR ownerships

**Financial Feasibility:**
- IRR: 15.6%

**Project Status:**
- Completed and in operational since 2017
- Section 1A & 2: Completion target Q3 2018
- Section 1BC: Sec. 1A Sec. 1B Sec. 1C Sec. 2A
  - Land Acquisition Progress: 79.0% 98.6% 96.3% 0.0%
  - Construction Progress: 97.0% 100.0% 100.0% 0.0%
  - Completion Target: Q3 2018 2017 2017 Q3 2019

**Ownership Structure:**

<table>
<thead>
<tr>
<th>Company</th>
<th>Contact Person</th>
<th>Concession Period</th>
<th>Section</th>
<th>Total Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT Waskita Toll Road</td>
<td>Bosi Moni / BK: WTR Center / +6281317524796 / <a href="mailto:moni@waskita.co.id">moni@waskita.co.id</a></td>
<td>40 years (start 2016)</td>
<td>16.52 km (Section 1-2A)</td>
<td></td>
</tr>
</tbody>
</table>

**Project Status:**
- Section 1A: Completed and in operational since 2017
- Section 1BC: Sec. 1A Sec. 1B Sec. 1C Sec. 2A
  - Land Acquisition Progress: 79.0% 98.6% 96.3% 0.0%
  - Construction Progress: 97.0% 100.0% 100.0% 0.0%
  - Completion Target: Q3 2018 2017 2017 Q3 2019

**Notes:**
- **IRR:** Company internal projection
- **Revenue:** National Toll Road Authority
- **Obligations:** Dedicated for toll roads
- **Regulatory:** Toll Road Bill, 2006
- **PPP Agreement:**
  - 70% User Bank (Debt)
  - 30% Equity
- **Revenue:**
  - 75% from road user fees
  - 25% from road user fees for the project funding

---

**1.8 YOGYAKARTA – BAWEN TOLL ROAD**

**Government Contracting Agency:**
- Indonesian Toll Road Authority (“BPJT”)
- Henry Yosopu Aji (Head of WTR) and
- Suwito (Director General of Investment Division)
- +62-21-7258063; e-mail: bpjt@pu.go.id

**Indication Project Milestone:**

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Target</th>
<th>Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Feasibility</td>
<td>IRR: 11.15%</td>
<td></td>
</tr>
<tr>
<td>NPV: US$1,044.1 million</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Indication Government Support & Guarantee:**
- Government Support and Government Guarantee will be determined after Final Business Case Study finalized.

---

**1.9 PT Kresna Kusuma Dyandra Marga (KKDM)**

**Location:** Bekasi – Cawang - Kampung Melayu

<table>
<thead>
<tr>
<th>Sector</th>
<th>Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-Sector</td>
<td>Toll Road</td>
</tr>
</tbody>
</table>

**Company:**
- PT Waskita Toll Road
- Bosi Moni / BK: WTR Center / +6281317524796 / moni@waskita.co.id

**Concession Period:**
- 40 years (start 2016)
- 16.52 km (Section 1-2A)

**Investment Requirement:**
- USD 233 million
- Mode of offer: Share Divestment of WTR ownerships in PT Kresna Kusuma Dyandra Marga
- % of ownership: Up to 98% of WTR ownerships

**Financial Feasibility:**
- IRR: 15.6%

**Project Status:**
- Completed and in operational since 2017
- Section 1A & 2: Completion target Q3 2018
- Section 1BC: Sec. 1A Sec. 1B Sec. 1C Sec. 2A
  - Land Acquisition Progress: 79.0% 98.6% 96.3% 0.0%
  - Construction Progress: 97.0% 100.0% 100.0% 0.0%
  - Completion Target: Q3 2018 2017 2017 Q3 2019

**Notes:**
- IRR: Company internal projection
- Revenue: National Toll Road Authority
- Obligations: Dedicated for toll roads
- PPP Agreement:
  - 70% User Bank (Debt)
  - 30% Equity
- Revenue: 75% from road user fees
- 25% from road user fees for the project funding

---

**Sources:**
- PT Waskita Toll Road
- Waskita Infrastructure Development
- Ministry of Finance
PT Waskita Trans Jawa Toll Road ("WTTR") (1/2)

Location: Kanci - Pejagan, Pejagan – Pemalang, Pasuruan - Probolinggo

Sources:
• PT Waskita Karya (Persero)Tbk ("Waskita" is one of the biggest construction SOE's in Indonesia). PT Waskita Transjawa Toll Road ("WTTR") was established on 2015.
• This toll road is a part of Trans Java toll road that connects Semesta Marga Raya ("SMR") Pejagan – Pemalang owned by PT Semesta Marga Raya ("SMR"), Pejagan – Pemalang owned by PT Pejagan Pemalang Toll Road ("PTPR"), and Pasuruan – Probolinggo owned by PT Trans-Jawa Paspro Jalan Tol ("TJPJT").
• WTTR holding the concession of three Transjava Toll Roads ; SMR and PTPR that has already operated in 2018, and TJPJT are targeted to open in Q4 2018.

Description:

- SMR: Started works
- PTPR: Tender for SPC
- TJPJT: Construction

Investment Need:
- USD 281 million

Ownership Structure:
- 70% shares are currently owned by TransJava Mutual Fund

Implementation Schedule (ETA):
1. Preparation
2. Land Acquisition & Tender for SPC
3. Construction
4. Operation

Financial Feasibility Project IRR**
- SMR: 16.50%
- PTPR: 15.51%
- TJPJT: 13.66%

**IRR: Company internal projection

Project Status:
1. SMR's Project Status: Completed
2. PTPR's Project Status: Completed
3. TJPJT's Project Status: Completion target 2018

PT Waskita Trans Jawa Toll Road ("WTTR") (2/2)

Location: Kanci - Pejagan, Pejagan – Pemalang, Pasuruan - Probolinggo

SMR Project Status

<table>
<thead>
<tr>
<th>As of</th>
<th>Sec. 1</th>
<th>Sec. 2</th>
<th>Sec. 3</th>
<th>Sec. 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Acquisition Progress</td>
<td>100.0%</td>
<td>100.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Progress</td>
<td>100.0%</td>
<td>100.0%</td>
<td>98.5%</td>
<td>95%</td>
</tr>
<tr>
<td>Completion Target</td>
<td>2016</td>
<td>2016 Q3</td>
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</table>

PTPR Project Status

<table>
<thead>
<tr>
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<th>Sec. 3</th>
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<td>100.0%</td>
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<td>100.0%</td>
</tr>
<tr>
<td>Construction Progress</td>
<td>100.0%</td>
<td>100.0%</td>
<td>98.5%</td>
<td>95%</td>
</tr>
<tr>
<td>Completion Target</td>
<td>2016</td>
<td>2016 Q3</td>
<td>2018 Q3</td>
<td>2018</td>
</tr>
</tbody>
</table>

TJPJT Project Status

<table>
<thead>
<tr>
<th>As of</th>
<th>Sec. 1</th>
<th>Sec. 2</th>
<th>Sec. 3</th>
<th>Sec. 4</th>
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</thead>
<tbody>
<tr>
<td>Land Acquisition Progress</td>
<td>100.0%</td>
<td>100.0%</td>
<td>100.0%</td>
<td>100.0%</td>
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<tr>
<td>Construction Progress</td>
<td>76.5%</td>
<td>76.0%</td>
<td>76.4%</td>
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<tr>
<td>Completion Target</td>
<td>Q2 2018</td>
<td>Q2 2018</td>
<td>Q2 2018</td>
<td>Q2 2018</td>
</tr>
</tbody>
</table>
### PT Jasamarga Solo Ngawi ("SNJ") (1/2)

**Location:** Solo – Ngawi, Central Java – East Java

**Description:**
- PT Jasamarga Solo Ngawi (SNJ) was acquired by PT Waskita Toll Road in 2015.
- The toll road is a part of Trans Java Toll Road that connects Solo – Ngawi Toll Road with a total length of 90 km.
- Sections 2B of SNJ are already operated in Q1 2018, sections 1-2A are targeted to operate in Q3 2018.

#### Sector:
- Road

#### Sub-Sector:
- Toll Road

#### Investment Need

<table>
<thead>
<tr>
<th>Type of offering</th>
<th>Capital structure</th>
<th>Project IRR**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Divestment of 40% shares of WTR</strong></td>
<td>30% from equity, 70% from debt</td>
<td>13.44%</td>
</tr>
</tbody>
</table>

**Company Contact Person:**
- Reza Masri - CRO PINA Center/ +6281317504786 / reza.masri@pina.bappenas.go.id
- PT Waskita Toll Road

**Total Length:** 90.4 km

**Concession Period:** 40 years (start 2016)

**Indicative Term Sheet**

#### Ownership Structure

- **PT Waskita Toll Road:** Holding Company
- **PT Jasamarga Solo Ngawi:** Operating Company

**Project Status:** Ready to offer.

#### Project Status:
- Project IRR: Based on JISDOR Bank Indonesia Aug 13, 2018

---

### PT Jasamarga Solo Ngawi ("SNJ") (2/2)

**Location:** Solo – Ngawi, Central Java – East Java

**SNJ Project Status**

<table>
<thead>
<tr>
<th>Sec.</th>
<th>1</th>
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<th>3</th>
<th>4</th>
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<tbody>
<tr>
<td>Land Acquisition Progress</td>
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<td>100%</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Construction Progress</td>
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<td>100%</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
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<td>Q3 2018</td>
<td>Q3 2018</td>
<td>Q1 2019</td>
<td>Q1 2020</td>
<td></td>
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</table>

**NKJ's Project Status**

<table>
<thead>
<tr>
<th>Sec.</th>
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<th>5</th>
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<tr>
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<td>99%</td>
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</tr>
<tr>
<td>Construction Progress</td>
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<td>0%</td>
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<tr>
<td>Completion Target</td>
<td>2018</td>
<td>2018</td>
<td>2018</td>
<td>Q1 2019</td>
<td>Q1 2020</td>
</tr>
</tbody>
</table>

**JSB's Project Status**

<table>
<thead>
<tr>
<th>Sec.</th>
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<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Acquisition Progress</td>
<td>100%</td>
<td>100%</td>
<td>98%</td>
<td>98%</td>
<td>94%</td>
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<tr>
<td>Construction Progress</td>
<td>90%</td>
<td>78%</td>
<td>85%</td>
<td>89%</td>
<td>89%</td>
</tr>
<tr>
<td>Completion Target</td>
<td>Q2 2018</td>
<td>Q4 2018</td>
<td>Q4 2018</td>
<td>Q4 2018</td>
<td>Q3 2019</td>
</tr>
</tbody>
</table>

---

*Sources: PT Waskita Toll Road*
**1.12 PT Ngawi Kertosono Jaya ("NKJ")**

Location: Ngawi – Kertosono, East Java

- **Company**: PT Waskita Toll Road
- **Contact Person**: Reza Masri – CRO PINA Center / +6281317504786 / reza.masri@pina.bappenas.go.id
- **Total Length**: 108 km
- **Concession Period**: 45 years (start 2014)

**Indicative Term Sheet**

- **Investment Need**: USD 398 million
- **Type of Offering**: Divestment of 40% shares of WTR
- **Capital Structure**: 30% from equity, 70% from debt
- **Project IRR**: 15.35%

**Ownership Structure**

- 40% - PT Ngawi Kertosono Jaya (NKJ)
- 60% - PT Waskita Toll Road

**Project Status**

- Based on KERI Bank Indonesia Aug 2018
- 60% Company internal projects

**Project Status: Ready to offer**
- Section 1 - 3: Completed and operational since Q1 2018
- Section 4 - 5: Targeted operating in Q1 2019

**Indicative Term Sheet**

- **Investment Need**: USD 398 million
- **Type of Offering**: Divestment of 40%
- **Capital Structure**: 30% from equity, 70% from debt
- **Project IRR**: 15.35%

**Ownership Structure**

- 40% - PT Ngawi Kertosono Jaya (NKJ)
- 60% - PT Waskita Toll Road

**Project Status: Ready to offer**
- Section 1 - 3: Completed and operational since Q1 2018
- Section 4 - 5: Targeted operating in Q1 2019

**Indicative Term Sheet**

- **Investment Need**: USD 350 million
- **Type of Offering**: Divestment of 40%
- **Capital Structure**: 30% from equity, 70% from debt
- **Project IRR**: 15.79%

**Ownership Structure**

- 40% - PT Jasamarga Semarang Batang (JSB)
- 60% - PT Waskita Toll Road

**Project Status: Ready to offer**
- Section 1: Completed and operational since Q2 2018
- Section 2 - 4: Targeted to operate in Q4 2018, section 5 targeted to operate in Q3 2018

**Indicative Term Sheet**

- **Investment Need**: USD 350 million
- **Type of Offering**: Divestment of 40%
- **Capital Structure**: 30% from equity, 70% from debt
- **Project IRR**: 15.79%

**Ownership Structure**

- 40% - PT Jasamarga Semarang Batang (JSB)
- 60% - PT Waskita Toll Road

**Project Status: Ready to offer**
- Section 1 - 4: Completed and operational since Q2 2018
- Section 5: Targeted to operate in Q3 2018

**Indicative Term Sheet**

- **Investment Need**: USD 350 million
- **Type of Offering**: Divestment of 40%
- **Capital Structure**: 30% from equity, 70% from debt
- **Project IRR**: 15.79%

**Ownership Structure**

- 40% - PT Jasamarga Semarang Batang (JSB)
- 60% - PT Waskita Toll Road

Sources: **PT Waskita Toll Road**

**1.13 PT Jasamarga Semarang Batang ("JSB")**

Location: Batang – Semarang, Central Java

- **Company**: PT Waskita Toll Road
- **Contact Person**: Reza Masri – CRO PINA Center / +6281317504786 / reza.masri@pina.bappenas.go.id
- **Total Length**: 75 km
- **Concession Period**: 45 years (start 2016)

**Indicative Term Sheet**

- **Investment Need**: USD 350 million
- **Type of Offering**: Divestment of 40%
- **Capital Structure**: 30% from equity, 70% from debt
- **Project IRR**: 15.79%

**Ownership Structure**

- 40% - PT Jasamarga Semarang Batang (JSB)
- 60% - PT Waskita Toll Road

**Project Status: Ready to offer**
- Section 1 - 4: Completed and operational since Q2 2018
- Section 5: Targeted to operate in Q3 2018

**Indicative Term Sheet**

- **Investment Need**: USD 350 million
- **Type of Offering**: Divestment of 40%
- **Capital Structure**: 30% from equity, 70% from debt
- **Project IRR**: 15.79%

**Ownership Structure**

- 40% - PT Jasamarga Semarang Batang (JSB)
- 60% - PT Waskita Toll Road

Sources: **PT Waskita Toll Road**

Sources: **PT Waskita Toll Road**
1.14 PT Pemalang Batang Toll Road ("PBTR")
Location: Pemalang – Batang, Central Java

- **Sources:** PT Pemalang Batang Toll Road
  
  **Description:**
  - PT Waskita Pemalang Batang Toll Road (PBTR) was acquired by PT Waskita Toll Road in early 2016.
  - This toll road is a part of Trans Java Toll Road (TJTR) - Semarang – Salatiga toll road with a total length of 75 km.
  - Section 1 and 2 of PBTR are targeted to operate in Q3 2018.

**Investment Need**

- **Type of offering:** Divestment of 60% shares of WTR
- **Capital structure:** 30% from equity, 70% from debt
- **Project IRR:** 15.75%

**Company**

- **Contact Person:** Reza Masri - CRO PINA Center / +6281317504786 / reza.masri@pina.bappenas.go.id

**Ownership Structure**

- PT Waskita Toll Road - 30%
- PBTR - 70%

**Indicative Term Sheet**

- **Total Length:** 39.2 km
- **Concession Period:** 45 years

---

1.15 PT Waskita Bumi Wira ("WBW")
Location: Krian – Legundi – Bunder – Manyar, East Java

- **Sources:** PT Waskita Bumi Wira Toll Road
  
  **Description:**
  - PT Waskita Bumi Wira (WBW) was established on August 20, 2014.
  - WBW obtained the toll road concession rights for Krian – Legundi – Bunder – Manyar segment with a concession period of 45 years.
  - Section 1 and 3 of WBW are targeted to operate in Q4 2018, section 2 and 4 of WBW are targeted to operate in Q4 2019.

**Investment Need**

- **Type of offering:** Divestment of 99.8% shares of WTR
- **Project IRR:** 14.59%

**Company**

- **Contact Person:** Reza Masri - CRO PINA Center / +6281317504786 / reza.masri@pina.bappenas.go.id

**Ownership Structure**

- PT Waskita Toll Road - 4%
- PBTR - 96%

**Indicative Term Sheet**

- **Total Length:** 38.29 km
- **Concession Period:** 45 years
1.16 PT Sriwijaya Markmore Persada Toll Road ("SRIMP")
Location: Kayu Agung – Palembang – Betung, South Sumatera

- **Sources:** PT Waskita Toll Road

**Company**
- Contact Person: Reza Masri - CRO PINA Center / +6281317504786 / reza.masri@pina.bappenas.go.id

**Total Length:** 111.69 km

**Concession Period:** 40 years (start 2016)

**Investment Need**
- **Type of offering:** Divestment of 98% shares of WTR
- **Project IRR:** 12.12%

**Company Contact Person**
- **Total Length:** 111.69 km
- **Concession Period:** 40 years (start 2016)

**Ownership Structure**

Indicative Term Sheet

- **Based on JISDOR Bank Indonesia Aug 13, 2018**
- **Indicate value**

1.17 PT Jasamarga Kualanamu Toll ("JMKT")
Location: Medan – Kualanamu – Tebing Tinggi, North Sumatera

- **Sources:** PT Waskita Toll Road

**Company**
- Contact Person: Reza Masri - CRO PINA Center / +6281317504786 / reza.masri@pina.bappenas.go.id

**Total Length:** 61.8 km

**Concession Period:** 40 years (start 2016)

**Investment Need**
- **Type of offering:** Divestment of 30% shares of WTR
- **Project IRR:** 14.50%

**Company Contact Person**
- **Total Length:** 61.8 km
- **Concession Period:** 40 years (start 2016)

**Ownership Structure**

Indicative Term Sheet

- **Based on JISDOR Bank Indonesia Aug 13, 2018**
- **Indicate value**
PT Jasamarga Probolinggo Toll Road
Location: Probolinggo - Banyuwangi, East Java

- The PT Jasamarga Probolinggo Toll Road was established on December 29, 2017.
- JPB obtained the toll road concession rights for Probolinggo-Banyuwangi segment with a concession period of 35 years.
- There are many industries in Probolinggo, Situbondo and Banyuwangi, such as shrimp processing plants, frozen food, veterinary, etc.

Investment Need
- Debt to Equity Ratio: 70% : 30%
- Type of offering: Divestment of 30% shares of PT DMT
- Project IRR: 11.17%

Company
- PT Jasamarga – PT Dipo Maria Tarungga

Contact Person
- Reza Masri – CRO PINA Center / +6281317504786 / reza.masri@pina.bappenas.go.id

Total Length
- 172.2 km (Initial stage 2 x 2, final stage 2 x 3)

Concession Period
- 35 years (start 2018)

Ownership Structure
- 70% 30%

Jasamarga Probolinggo Banyuwangi

Project Status: ready to offer
- Construction will be start at April 2019
- Land acquisition 90% completed
- Operation Target at 2021
- Funding for project already secure by PT DMT

Indicative Term Sheet

- Project IRR: 11.17%
- Total Length: 172.2 km (Initial stage 2 x 2, final stage 2 x 3)
- Concession Period: 35 years (start 2018)
- Debt to Equity Ratio: 70% : 30%
- Type of offering: Divestment of 30% shares of PT DMT
- Project IRR: 11.17%

*** Indication value

PT DMT

Descriptive
- One of the Eastern Sumatra Road in the Province starting from the Simpang Kayu Ara (Kota Pekanbaru) to Simpang Lago (Pelalawan Regency) consists of three streets that could be categorized as National Road which is correlated towards the national economic growth. The approximate total length of this project will be 43 km. Investment return will be paid using the Availability Payment Method.

Estimated Project Cost:
- US$ 79.7 million

Financial Feasibility:
- FIRR: 14.63%
- NPV: US$ 20.5 million

Business Opportunity:
- Transaction adviser/bidder/financier
- Project Status: Project is currently on Final Business Case phase

Indicative Government Support & Guarantee:
- Government guarantee will be determined after Final Business Case Study finalized.

Indicative Project Structure

1.19 RIAU NON-TOLL ROAD RECONSTRUCTION AND PRESERVATION

Location: Riau

Government Contracting Agency:
- Ministry of Public Works and Housing

Contact Person:
- Denny Firmansyah (Section Head of Network Planning) / +62-21-7221039; email: dennyfirmansyah79@gmail.com

Estimated Concession Period: 15 years

Indicative Government Support & Guarantee:
- Government guarantee will be determined after Final Business Case Study finalized.

Indicative Project Structure
**Description:**
The location of this project is on the east side of South Sumatra Road in Palembang City, namely Jalan Srijaya Raya, Jalan Mayjen Yusuf Singadekane, Jalan Letjen H. Alamsyah Ratu Perwiranegara, Jalan Soekarno Hatta, Jalan Terminal of Alang-alang Lebar and Jalan Sultan Mahmud Badarudin II. The approximate total length of this project will be 29.37 km.

**Investment return will be paid using the Availability Payment Method.**

**Sector:** Road  
**Sub-Sector:** Non-Toll Road

**Estimated Project Cost:**  
US$ 193.9 million

**Government Contracting Agency:**  
Ministry of Public Works and Housing

**Contact Person:** Denny Firmansyah (Section Head of Network Planning)  
+62-821 30777704 / +62-21-7221039; email: dennyfirmansyah79@gmail.com

**Estimated Concession Period:** 15 years

**Financial Feasibility:**  

<table>
<thead>
<tr>
<th>FIRR</th>
<th>NPV</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.48%</td>
<td>US$ 72.7 million</td>
</tr>
</tbody>
</table>

**Business Opportunity:**  
Bidder/financier

**Project Status:**  
Project is currently on PQ phase

**Indicative Project Structure:**

1. **South Sumatera Non-Toll Road Preservation**  
   Location: South Sumatera

**Project Timeline:**

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Start Date</th>
<th>End Date</th>
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<td>EQP 2056-2057</td>
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**Indicative Government Support & Guarantee:**  
Potentially guaranteed by IIGF.
The purpose of Labuan Bajo Airport is to support tourism destination in Komodo Island in Nusa Tenggara Timur Province. Airport improvements are continuous, even immediate and mandatory. It refers to the Presidential Regulation (Perpres) No. 3 of 2016 which sets Labuan Bajo as one of 10 priority destinations. Currently, this airport is an international airport with modern facilities, such as x-ray security systems, metal detectors, and more modern luggage collection facilities.

**Sector:** Transportation  
**Sub-Sector:** Airport

**Estimated Project Cost:** US$ 86.7 million

**Implementation Schedule (ETA):**

**Financial Feasibility:**
- **FIRR:** 15.65%  
- **NPV:** US$ 23.8 million

**Business Opportunity:** Transaction adviser/bidder/financier

**Project Status:** Project is currently on PQ phase

**Indicative Government Support & Guarantee:** Government Guarantee appraisal (up-front and recurring fee) has been included in the financial model calculation.

**Indicative Project Structure**

1. **AIRPORT OF LABUAN BAJO**
   - **LOCATION:** Nusa Tenggara Timur
   - **Ministry of Transportation**
   - **Government Guarantee**
   - **PPP Agreement**
   - **Services**
   - **Equity/Sponsor**
   - **Creditor**
   - **Regress Agreement**

2. **Padar Island, East Nusa Tenggara**

© Mbrand85 / Shutterstock
**2.2 EXPANSION OF HANG NADIM INTERNATIONAL AIRPORT PASSENGER TERMINAL**

**Location:** Riau Island

**Description:**
Hang Nadim International Airport with stable demand of approximately 5.6 million passengers in 2017 has exceeded the terminal capacity of 3.5 million passengers per annum. Significant growth is expected to continue in short-term until medium-term. This expansion project is to fulfill the passengers and cargo demand which continuously increases and to support Batam’s growth as one of the main industrial areas and tourist destinations in Indonesia.

**Sector:** Transportation

**Sub-Sector:** Airport

**Estimated Project Cost:** US$ 375.0 million

**Government Contracting Agency:**
Batam Indonesia Free Zone Authority (BIFZA)

**Contact Person:**
Horman Pudinaung
+62-778-462047 / +62-811692995; e-mail: horman@bpbatam.go.id

**Estimated Concession Period:** 35 years

**Implementation Schedule (ETA):**

**Financial Feasibility:**
- FIRR: 24.00%
- NPV: US$151.0 million

**Indicative Government Support & Guarantee:**
Demand risk guaranteed by Government.

**Indicative Project Structure:**

1.22 EXPANSION OF HANG NADIM INTERNATIONAL AIRPORT PASSENGER TERMINAL
**LOCATION:** Riau Island

**Business Opportunity:** Bidder/financier, Transaction advisor

**Project Status:**
Project is currently on PQ phase

**Data per 29/01/2019**

---

**2.3 HANG NADIM AIRPORT**

**Location:** Batam – Riau Islands

**Description:**
Hang Nadim Airport is built with capacity of 3.5 million passengers and 120 thousand ton of cargo. With passengers totaling at 5.6 million in 2018, the Airport’s conditions of physical building and facility are not compatible with upcoming conditions and needs. Hence, this project will increase quality to be equal with International Airports.

**Sector:** Transportation

**Sub-Sector:** Airport

**Estimated Project Cost:** +/- IDR 5.9 Trillion (exclude NRI facility)

**Government Contracting Agency:**
Batam Indonesia Free Zone Authority (BIFZA)

**Contact Person:**
Tjahyo Prionggo (Head of PPP Team)
e-mail: bthpppteam@gmail.com

**Estimated Concession Period:** 35 years

**Project Timeline:**

**Financial Feasibility:**
- FIRR: 16.4%
- NPV: US$37.35 million

**Indicative Government Support & Guarantee:**
Government Guarantee

**Indicative Project Structure:**

1.23 HANG NADIM AIRPORT
**LOCATION:** Batam – Riau Islands

**Business Opportunity:**
Financier

**Project Status:**
Project is currently at Pre-Qualification phase

**Data per 29/03/2019**

**Benefits:**
- As a part of the big concept of Hang Nadim Airport development as Logistics Aerocity and to support regional and national economic development
- To improve the airport services according to international standard
- To increase national competitiveness through global supply chain strategy by utilizing the advantage of Batam as a Free Trade Zone
2.4 West Java International Airport Phase 2 and 3
Indicative Structure and Investment Objective

**Sector:** Airport  
**Sub-Sector:** Area Expansion

**Company:** PT BIJB Kertajati  
**Contact Person:** Reza Masri  
**IRR:** 13%

**Investment Required:**
- Phase 2 and 3 development of PT BIJB (Airport), investment:  
  - IDR 4,581 trillion (USD 333 mn)  
  - IDR 6.418 trillion (USD 449 mn)

**Use of Fund:**
- 30% equity  
- 70% debt

**Capital Structure:**

<table>
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<tr>
<th>Preferred Instrument</th>
<th>100% equity</th>
<th>70% debt</th>
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<tbody>
<tr>
<td>Investment Management</td>
<td>PT BIJB</td>
<td>Financial Advisor</td>
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</tbody>
</table>

**Investment Objective:**
- Minimum Investment:  
  - IDR 4,581 trillion (USD 333 mn)  
  - IDR 6.418 trillion (USD 449 mn)

- Project Timeline:
  - Government Contracting Agency: Ministry of Transportation
  - Estimated Concession Period: 15 years

**Business Opportunity:** Transactions through PPP

**Indicative Government Support & Guarantee:**
- Government support and guarantee will be determined in Final Business Case (FBC)

**KTATA:**
- A Sarjana Udara Indonesia airfield, that is located in Cibinong, West Java.

---

2.5 Motor Vehicle Weighing Implementation Unit (UPPKB)

**Location:** Java and Sumatera

**Indicative Project Structure**

**Indication Project Structure**

**Description:**
- Motor vehicle weighing system

**Project Status:**
- Project is currently on Outline Business Case phase

**Government Contracting Agency:** Ministry of Transportation

**Estimated Project Cost:**
- IDR 55.5 Million

**Financial Feasibility:**
- FIRR: 9.04%  
- NPV: USD 0.15 Million

**Indicative Government Support & Guarantee:**
- N/A

**Business Opportunity:**
- Transaction through PPP

**Indicative Government Support & Guarantee:**
- N/A

**Project Timeline:**
- Data on 07/01/2019
**KARIMUN BRIDGE (UN SOLICITED PROJECT)**

**LOCATION:** Karimun Islands

**Section:** Transportation

**D-B-F-O-M**

**Estimated Concession Period:** 12 years

**Estimated Project Cost:** USD 13.3 million

**Financial Feasibility:**
- FIRR: 14.5%
- NPV: USD 15.2 million

**Project Timeline:**
- Feasibility Study: October 2018
- Construction: N/A
- Operation and Maintenance: N/A

**Government Contracting Agency:**
- Minister of Transportation
- Jonter Sitohang (Head of Partnership and Cooperation Bureau)
  - +62-8111916510; e-mail: jonter2001@yahoo.com

**Contact Person:**
- H. DJUNAIDI (Head of Regional Research and Development Planning Agency/Baperlitbang Karimun)
  - +62-777-7000000 / +62-812-7000-7000
  - email: bagianpembangunan_setda.karimun@yahoo.com

**Indicative Government Support & Guarantee:**
- For Unsolicited Projects, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Project Status:**
- Project is currently on Feasibility Study phase

**Business Opportunity:**
- Bidder/Financier

**PPP Agreement:**
- IIGF
- SPC
- User
- Regent of Karimun
- Guarantee
- PPP Agreement

**Indicative Project Structure:**
1.24 KARIMUN BRIDGE (UNSOLICITED PROJECT)
- LOCATION: Riau Islands

**Data per:** 05/03/2019

---

**TOD PORIS PLAWAD (UN SOLICITED PROJECT)**

**LOCATION:** Tangerang

**Section:** Transportation

**TOD Poris Plawad**

**Estimated Concession Period:** 30 years

**Estimated Project Cost:** USD 128.5 million

**Financial Feasibility:**
- FIRR: 12.30%
- NPV: USD 4,721.4 million

**Project Timeline:**
- Feasibility Study: July 2018
- Bidding: N/A
- Construction: N/A
- Operation and Maintenance: N/A

**Government Contracting Agency:**
- Minister of Transportation
  - Jonter Sitohang (Head of Partnership and Cooperation Bureau)
  - +62-812-93123456; e-mail: jonter2001@yahoo.com

**Contact Person:**
- Jonter Sitohang (Head of Partnership and Cooperation Bureau)
  - +62-8111916510; email: jonter2001@yahoo.com

**Indicative Government Support & Guarantee:**
- For Unsolicited Projects, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

**Project Status:**
- Project is currently on Feasibility Study phase

**Business Opportunity:**
- Bidder/Financier

**PPP Agreement:**
- IIGF
- SPC
- User
- Min TRAN
- Guarantee
- PPP Agreement

**Indicative Project Structure:**
1.25 TOD PORIS PLAWAD (UNSOLICITED PROJECT)
- LOCATION: Tangerang

**Data per:** 12/11/2018

---
**DEVELOPMENT OF BAUBAU PORT**

**Location:** Southeast Sulawesi

**Description:** The Murhun Baubau Port needs to be developed to meet the increasing demand and support the long-term programs of Baubau Regional Government which aims to make the city as the gateway of economy and tourism in Southeast Sulawesi. This port has seen the most rapid growth in their economic activities compared to the other two ports in the city of Baubau. Furthermore, this port also has the status of a Technical Implementation Unit under the Directorate of Sea Transportation of the Ministry of Transportation.

**Sub-sector:** Port

**Estimated Project Cost:** US$ 77.3 million

**Project Timeline:**

**Indicative Government Support & Guarantee:**
Government support and Government guarantee will be determined in Final Business Case.

**Sector:** Transportation

**Business Opportunity:** Bidder/financier, Transaction advisor

**Project Status:** Project is currently on Final Business Case phase

---

**PROVING GROUND BPLJSKB**

**Location:** West Java

**Description:** This Proving Ground is planned as a certification and testing ground for vehicles to adopt UNECE standard for International vehicles regulations. It will consist of high-speed tracks, brake-testing, sound testing, sideslip-testing and other testing facilities. This proving ground will be located in Bekasi, West Java.

**Sub-sector:** Road & Traffic Safety

**Estimated Project Cost:** US$ 121.75 Million

**Financial Feasibility:**
- FIRR: 11%
- NPV: US$ 3.65 Million

**Business Opportunity:** Transaction advisor, Bidder/financier

**Project Status:** Project is currently on Outline Business Case phase

---

**Additional Information:**

**Government Contracting Agency:** Ministry of Transportation

**Contact Person:** Jonter Sitohang (Head of Partnership and Cooperation Bureau)

**Phone:** +62-8111916510

**Email:** jonter2001@yahoo.com

**Estimated Concession Period:** 45 years
3

WATER SUPPLY PROJECT

Madakaripura Waterfall, Lumang
© Imaake / Shutterstock
Description:
The Jatiluhur Regional Water Supply is a drinking water facility with 5,000 L/s outflow generated. This water supply system (Karawang Regency, Bekasi Regency, Bekasi City, and DKI Jakarta City) covers the construction of intake, transmission pipeline, water treatment plant (WTP), and main development network.

Sector: Water Supply
Sub-Sector: Water Supply

Estimated Project Cost: US$ 142.2 million

Government Contracting Agency: Perum Jasa Tirta 2

Contact Person: Djoko Saputro (Director of Perum Jasa Tirta 2)
+62-264-201972; e-mail: pjt2@jasatirta2.co.id

Estimated Concession Period: 30 years

Implementation Schedule:
1. Preparation: 2016-2018
2. Land Acquisition: 2016
3. Construction: 2018
4. Operation: 2021

Financial Feasibility:
FIRR: 13.62%
NPV: US$ 29.8 million

Business Opportunity:
Bidder/financier

Project Status:
Project is currently on Procurement phase

Indicative Government Support & Guarantee:
For Unsolicited Project, the project initiator will get a benefit to choose the compensation (additional 10% point on the procurement score, right to match, or purchasing initiative ideas by GCA).

Indicative Project Structure:

- JATILUHUR REGIONAL WATER SUPPLY I (UNSOLICITED PROJECT)
  - LOCATION: DKI Jakarta – West Java

- Development Partners (consultant/contractor/vendor)
  - WTP Operator delegates as GCA
  - bulk water sale and purchase agreement

- BOT Agreement
  - 30 years
  - investment in shares X%

- Construction Agreement
  - Operational Agreement
  - Data per 21/01/2019

Raja Ampat’s fabulously blue waters © Jeff Lemelin / Shutterstock
**PEKANBARU REGIONAL WATER SUPPLY**

**LOCATION:** Riau

**Sector:** Water Supply

**Sub-Sector:** Water Supply

| Description: | The purpose of Pekanbaru Water Supply is to provide reliable drinking water infrastructure and to support economic activities in Pekanbaru City. The project includes rehabilitation and uprating existing WTP and reservoir to reach 500 lps and construction of a new intake facility, TWP, and reservoir with capacity of 250 lps. With total coverage of 61,000 connections for 7 districts in Pekanbaru. |
| Sector: | Water Supply |
| Sub-Sector: | Water Supply |
| Estimated Project Cost: | US$ 37.6 million |
| Government Contracting Agency: | PDAM Tirta Siak Pekanbaru |
| Contact Person: | Kemas Yuzferi (Director of PDAM); +62-761-23825 or +62-813-6440-1776 |
| e-mail: | pdamts.kpbu@gmail.com |
| Estimated Concession Period: | 25 years |
| Project Timeline: |
| Financial Feasibility: |
| IRR: | 15.00% |
| NPV: | US$ 9.2 million |

**Business Opportunity:**

- **Bidder/Financier**

**Project Status:** Project is currently on Final Business Case phase

**Indicative Government Support & Guarantee:** Potentially guaranteed by IIGF.

**Indicative Project Structure**

1.29 PEKANBARU REGIONAL WATER SUPPLY

LOCATION: Riau

Data per 22/01/2019

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**City of Pekanbaru – City of Pekanbaru Water Supply PPP Project**

**LOCATION:** City of Pekanbaru, Riau Province, Indonesia

**Sector:** Water

**Sub-Sector:** Clean Water Supply

| Description: | City of Pekanbaru Water Supply PPP Project intends to support the Government of Indonesia to achieve target 100-0-100. Furthermore, the Project will improve service to the community in accessing clean water. |
| Sector: | Water |
| Sub-Sector: | Clean Water Supply |
| Estimated Project Cost: | IDR 750 Billion |
| Government Contracting Agency: | PDAM City of Pekanbaru |
| Contact Person: | Kemas Yuzferi (Director of PDAM City of Pekanbaru); e-mail: kemasyuzferi@gmail.com and pdamts.kpbu@gmail.com |
| Estimated Concession Period: | 25 years |
| Project Timeline: |
| Financial Feasibility: |
| FIRR: | 15% |
| NPV: | ± IDR 826.98 Billion |

**Business Opportunity:**

- **Bidder/Financier**

**Project Status:** Project is currently on Finalization Final Business Case

**Indicative Government Support & Guarantee:**

- Government Support through Viability Gap Funding and Government Guarantee will be determined after Final Business Case Study finalized.

**Indicative Project Structure**

---

**Benefits:**

- Improve water supply coverage in the City of Pekanbaru from 34% to 14.8% by 2028 and household sanitation and the standard of living the residents.

---

**Data per 29/03/2019**
HEALTH PROJECT

A baby orangutan clings to a tree in Borneo.
© GUDKOV ANDREY / Shutterstock
Description: The establishment of Class C Hospital, providing 191 beds including intensive care units, and offering Traumatology Center as the excellent health service.

Sector: Health
Sub-Sector: Hospital

Estimated Project Cost: IDR 351 million

Government Contracting Agency: Regency Government of Sidoarjo
Contact Person: Agoes Budi Tjahjono (Head of Krian Hospital PPP Project) and e-mail: agoes_bt@yahoo.co.id
Estimated Concession Period: 10 years

Project Timeline:
- Financial Feasibility: IRR: 12.8%, NPV: IDR 21,373 million
- Business Opportunity: Financier
- Project Status: Project is currently on Transaction phase (in preparation of request for Proposal)

Indicative Government Support & Guarantee:
- Provision of land and Government guarantee

Benefits:
- Krian Hospital PPP Project has positive impact for the society that is reflected by Social Economic Benefit as much IDR 962.27 Trillion and Economic Net Present Value (ENPV) as much IDR 21,373 million. It also has a higher than Social Discount Rate (10%) which is 604% of Economic Internal Rate of Return (EIRR). This generates positive net benefit towards economy.
- Implementation Unit (UPTD) and Patient Payment
- PPP Agreement Monitoring & Financial Close
- Contract Signing

Date: 28/03/2019

Indicative Project Structure:

4.1 KRIAN HOSPITAL PPP PROJECT

LOCATION: Krian Subdistrict, Sidoarjo Regency, East Java Province

SPV

PT PII

Guarantee

Regency Government of Sidoarjo

Patient Payment

BPJS Tariff All hospital medical care

Government Contracting Agency

Business Opportunity: Financier

Project Status: Project is currently on Transaction phase (in preparation of request for Proposal)

Indicative Government Support & Guarantee: Provision of land and Government guarantee

Benefits:
- Krian Hospital PPP Project has positive impact for the society that is reflected by Social Economic Benefit as much IDR 962.27 Trillion and Economic Net Present Value (ENPV) as much IDR 21,373 million. It also has a higher than Social Discount Rate (10%) which is 604% of Economic Internal Rate of Return (EIRR). This generates positive net benefit towards economy.
**SDIOARJO GENERAL HOSPITAL**  
**LOCATION:** East Java  

**Description:**  
Sidoarjo Central Hospital is the second hospital owned by the Regency Government of Sidoarjo which aims to provide health service facilities to the community in the western part of Sidoarjo Regency. Sidoarjo Central Hospital is planned as a type C hospital. This project scheme is DBFOMT with Availability Payment as the investment return to the SPV.

**Sector:** Health  
**Sub-Sector:** Hospital  
**Estimated Project Cost:** US$ 24.4 million  
**Government Contracting Agency:** Regency Government of Sidoarjo  
**Preparation Agency:** PT SMI through PDF from Ministry of Finance  
**Contact Person:** Agoes Boedi Tjahjono (Head of Regional Planning Agency); (+62-31) 8947383; e-mail: kerjasama.sidoarjokab@gmail.com  
**Estimated Concession Period:** 10 years  
**Project Timeline:**  
**Financial Feasibility:**  
- **FIRR:** 12.80%  
- **NPV:** US$ 14.0 million

**Business Opportunity:**  
Bidder/financier

**Project Status:**  
Project is currently on Pre-Qualification phase

---

**GORONTALO HOSPITAL**  
**LOCATION:** Gorontalo  

**Description:**  
This project is a new Type B hospital development program on 6.4 ha of land in ex Plaza Limboto, Gorontalo. The investment return for this project most likely to be paid using Availability Payment scheme.

**Sector:** Health  
**Sub-Sector:** Hospital  
**Estimated Project Cost:** US$ 58.6 million  
**Government Contracting Agency:** Provincial Government of Gorontalo  
**Contact Person:** Olis Bakari (Head of The Administrative Subdivision); +62-853-42353710; e-mail: olisbakari@gmail.com  
**Estimated Concession Period:** 20 years  
**Project Timeline:**  
**Financial Feasibility:**  
- **FIRR:** 14.81%  
- **NPV:** US$ 35.6 million

**Business Opportunity:**  
Bidder/financier

**Project Status:**  
Project is currently on PQ phase

**Indicative Government Support & Guarantee:**  
Government support and Government guarantee will be determined in Final Business Case (FBC).
5 ENERGY CONSERVATION PROJECT
**SURAKARTA STREET LIGHTING**

**LOCATION:** Central Java

**Sector:** Energy Conservation

**Sub-Sector:** Street Lighting

**Description:**

The City Government of Surakarta intends to revitalize the public services of its street lighting. The total length of the streets is estimated at 976 km. Current studies show that the city needs around 31,890 lamp points.

**Estimated Project Cost:**
- US$ 28.4 million (10 years)
- US$ 45.9 million (20 years)

**Government Contracting Agency:**
City Government of Surakarta
Bus: 0271-662-266
E-mail: setda@surakarta.go.id; kpbupju.solo@gmail.com

**Estimated Concession Period:**
- 10 or 20 years (will be concluded in FBC)

**Project Timeline:**

- **Financial Feasibility:**
  - FIRR: 10.17% (10 years) or 10.67% (20 years)
  - NPV: US$ 0.9 million (10 years) or US$ 2.4 million (20 years)

**Business Opportunity:**
Transaction adviser/bidder/financier

**Project Status:**
Project is currently on Final Business Case phase.

**Indicative Government Support & Guarantee:**
Government support and guarantee will be determined in Final Business Case Study.

---

**Indicative Project Structure**

1. **PPP Street Lighting Services Agreement**
2. **Electricity Supply**
3. **Electricity Bill Payment**
4. **AP Payment**
5. **Escrow Account**

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**Map of Surakarta Street Lighting**

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5.1

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**Mahayana Buddhist Temple in Central Java**
© WATHIT H / Shutterstock

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**5.2 SURAKARTA STREET LIGHTING PPP PROJECT**

**Location:** Surakarta – Central Java

**Sector:** Energy Conservation

**Sub-Sector:** Street Lighting

**Description:**

The municipal project aims to invest in energy-efficient street lighting systems to replace or enhance their outdated systems to comply with the national standard. The project focuses on enhancing nighttime visibility, promoting road safety, and reducing criminal activities.

**Estimated Project Cost:** IDR 397 billion - IDR 550 billion

**Government Contracting Agency:**

Public Works and Spatial Planning Agency of Surakarta

**Contact Person:** Endah Sitaresmi Suryandari (Head of Agency)

**Contact Details:** +62271-643050; e-mail: kpbupju.solo@gmail.com

**Indicative Concession Period:** 10 and 20 years

**Project Timeline:**

- **Financial Feasibility:** FIRR: 10.17% - 13.81%, NPV: IDR 12.17 billion - IDR 49.26 billion

**Business Opportunity:** Bidder/financier

**Project Status:** Preparation of Final Business Case

**Benefits:**

- Provision of energy-efficient street lighting systems, complying with the national standard
- Increased road safety and decreased criminal activity
- Reduction in local budget due to energy-efficient technology resulting in reduced electricity consumption

**Indicative Government Support & Guarantee:**

- Project Development Facility by Ministry of Finance
- Infrastructure Guarantee
- City of Surakarta Guarantee
- PT PLN BADAN USAHA AP Payment PPP Agreement

**IIGF**

Recourse Agreement

**City of Surakarta** Guarantee Agreement

**PT PLN** Guarantee Agreement

**Payment PPP Agreement**

**Municipal Electricity Bills**

**Citizens (beneficiaries)**

**Street Lighting Services**

**Final Business Case (FBC)**

Q1 - Q2 2019

**Pre-Qualification**

Q3-Q4 2019

**Request For Proposal**

Q1 - Q2 2020

**Bid Award**

Q3 2020

**Contract Signing**

Q3 2020

**Financial Close**

Q4 2020

**Construction**

Q1 2021

---

**5.3 JATIBARANG WASTE TO ENERGY**

**Location:** Central Java

**Sector:** Sanitation

**Sub-Sector:** Waste to Energy

**Description:**

Jatibarang Waste to Energy is operated with landfill control. Semarang City Government received grant assistance from the Danish government through DANIDA in the form of a Landfill Gas Power Plant along with gas wells and piping. The facility is intended to protect the environment, reduce the release of methane gas into the air, and produce electricity. The development plan is to operate the LFG power plant until the gas is reduced significantly and at the same time the WTE is constructed.

**Estimated Project Cost:** US$ 109.8 Million

**Government Contracting Agency:**

City Government of Semarang

**Contact Person:** Budi Prakosa (Head of Regional Infrastructure Planning and Development)

**Contact Details:** +62 813-2557-1434; e-mail: bapsedasmg@yahoo.com

**Indicative Concession Period:** 25 years

**Project Timeline:**

- **Business Opportunity:** Transaction advisor/bidder/financier
- **Project Status:** Project is currently on OBC phase

**Indicative Government Support & Guarantee:**

Government support and Government guarantee will be determined in Final Business Case (FBC).

**Business Opportunity:** Transaction advisor/bidder/financier

**Project Status:** Project is currently on OBC phase

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*Data as of 29/03/2019*

*Data as of 29/01/2019*
**Clean Energy : PLTBm**

**Location : Mentawai, NTT dan Nias**

**Company**
- PT. Charta Putra Indonesia dan PT PP Energi

**Contact Person**
- PINA Center

**Project Status**
- Greenfield

**Contact person**
- Reza Masri  - CRO PINA Center/ +6281317504786 / reza.masri@pina.bappenas.go.id

**Sector : Clean Energy**
**Sub-Sector : Electricity**

**Description:**
The plan for the development of community-based Biomass power plants (PLTBm) is using bamboo biomass feedstock. Mentawai area will then become the first district in Indonesia to distribute electricity to its area with local Renewable Energy sources with a total capacity of 9.8 MW (in accordance with the PLN RUPTL 2019-2028.) After Mentawai, Nias and NTT region will be the next target area. We have explored that these projects may contribute total investment of more than USD 150 million.

**Benefits:**
- Clean energy, decrease CO2 emission into negative value
- Community engagement and direct economical impact to local people by feedstock trading
- Electricity production in rural area

**Project Timeline:**
- 2019 – Preparation stage
- 2020 – PPA sign with PLN
- 2020 – 2022 – Construction
- 2022 – COD and Operation

**Estimated Project Cost:**
- USD 150 million

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**BAYANG NYALO 6 MW MINI HYDRO POWER PLANT**

**LOCATION : West Sumatera**

**Company**
- Ministry of National Development Planning

**Contact Person**
- Nizhar Marizi, Ph.D. (Deputy Director for Clean Energy and Energy Conservation)

**T. +62-21 31934187**
**F. +62-21 3900362**
**Email: dit.esdmp@bappenas.go.id**

**Government Contracting Agency**
- Ministry of National Development Planning

**Estimated Project Cost:**
- USD 13.5 million

**Description:**
Bayang Nyalo MHPP is a run-of-river type development with catchment area of 98 km2 from Banyang Nyalo River. The powerhouse will accommodate three Horizontal Francis turbines. The distance is the nearest existing PLN’s 20 kV grid namely South Pesisir MV Network. The project has many advantages including reasonable access from the capital city. Annual energy production is around 35 GWh.

**Estimated Project Cost:**
- USD 13.5 million

**Government Contracting Agency**
- Ministry of National Development Planning

**Social and Economic Impact:**
- Improving health issues
- Improving educational level to higher education
- 39,346 additional person with access to electricity

**Project Timeline:**
- 2017 – Preparation stage
- 2018 – PPA sign with PLN
- 2019 – Construction
- 2019 – Operation

**Indicative Project Structure**

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5.4

5.5

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### MADONG 10 MW HYDRO POWER PLANT

**Location:** South Sulawesi

**Description:**
Madong MHPP is a run-of-river type with sand trap-pipe-head pond-pestopck diversion system. The waterway connecting the weir to the head pond is designed to be a combination of pipe and open channel. Grid connected through North Toraja Medium Voltage Network. Annual energy production is about 61.5 GWh.

**Land acquisition is completed and certified.**

**Estimated Project Cost:**
US$ 22.5 million

**Government Contracting Agency:**
Ministry of National Development Planning

**Contact Person:** Nizhar Marizi, Ph.D. (Deputy Director for Clean Energy and Energy Conservation)

**T. +62-21 31934187 – F. +62-21 3900362 – Email: dit.esdmp@bappenas.go.id**

**Estimation Construction Period:** 26 Months

**Project Timeline:**

- **Business Opportunity:** Transaction adviser/bidder/financier
- **Project Status:** FS Completed and Power Purchase Agreement (PPA) with Electricity Company

**Social and Environmental Impacts:**
1. Improving health issues
2. Increasing educational level to higher education
3. 123,672 Additional Persons with access

**Financial Feasibility:**
- FIRR: 17.40%
- NPV: US$ 8 million

**Sector:** Energy
**Sub-Sector:** Power Plant

**2017**

- PPA Signed
- N/A Bidding
- N/A Construction
- N/A Operation and Maintenance

### MALINAU 10 MW BIOMASS POWER PLANT

**Location:** North Kalimantan

**Description:**
Malinau MPP has Soil Map Unit (SMU) 1 to SMU 5 has total manageable area around 5,359,9 Ha with an estimated potential timber 1,514,442 tons consisting of 3,535,5 Ha secondary forests and 680,9 Ha of old jakau. The feedstock supply would absorb 297 tons/day timber. The power plant design proposes a single unit stoker boiler technology. Grid is connected through Malinau Medium Voltage Network. Potential Energy is around 845,113 MWh.

**Estimated Project Cost:**
US$ 38.7 million

**Government Contracting Agency:**
Ministry of National Development Planning

**Contact Person:** Nizhar Marizi, Ph.D. (Deputy Director for Clean Energy and Energy Conservation)

**T. +62-21 31934187 – F. +62-21 3900362 – Email: dit.esdmp@bappenas.go.id**

**Estimation Construction Period:** 32 Months

**Project Timeline:**

- **Business Opportunity:** Transaction adviser/bidder/financier
- **Project Status:** FS Completed and Power Purchase Agreement (PPA) with Electricity Company

**Social and Economic Impacts:**
1. Increasing women education that are mostly only graduated from primary level
2. Increasing expenditures amounts which is less than national level

**Financial Feasibility:**
- FIRR: 16.52%
- NPV: US$ 1.1 million

**Sector:** Energy
**Sub-Sector:** Power Plant

**2017**

- PPA Signed
- N/A Bidding
- N/A Construction
- N/A Operation and Maintenance
### Legok Nangka Waste-to-Energy Plant

**Location:** Bandung, West Java

#### Description:
Legok Nangka WtE will improve the West Java MSW management services and will help to reduce West Java solid waste. Furthermore, this project is included in the Indonesia National Strategic Project (PSN).

#### Sector: Energy
#### Sub-Sector: Waste-to-Energy

#### Estimated Project Cost:
US$ 265 million

#### Estimated Concession Period:
20 years

#### Project Timeline:
- **Financial Feasibility:** 2019
  - FIRR: 15% (estimated)
  - NPV: US$2,752 billion (estimated)
- **Business Opportunity:** Bidder/financier
- **Project Status:** Project is currently on Final Business Case phase

#### Indicative Government Support & Guarantee:
Government Support for tipping fee subsidy and Government Guarantee will be determined after Final Business Case Study finalized.

#### Indicative Project Structure:

1. **4.1 Legok Nangka Waste-to-Energy Plant**
   - **Location:** Bandung, West Java
   - **Benefits:**
     - The Legok Nangka WtE capacity is projected to be 29 MW, with the average waste volume for the plant collected from 6 regions estimated around 1,800 ton/day.

### Suwung/Sarbagita Waste-to-Energy Plant

**Location:** Denpasar, Bali

#### Description:
Suwung/Sarbagita WtE will improve the Bali MSW management services and will help to reduce Bali solid waste. Furthermore, this project is included in the Indonesia National Strategic Project (PSN).

#### Sector: Energy
#### Sub-Sector: Waste-to-Energy

#### Estimated Project Cost:
US$ 60 million (estimated EPC Cost)

#### Estimated Concession Period:
20 years

#### Project Timeline:
- **Financial Feasibility:** 2019
  - FIRR: 12% (estimated)
  - NPV: N/A
- **Business Opportunity:** Financier
- **Project Status:** Project is currently on Final Business Case phase

#### Indicative Government Support & Guarantee:
Government Support for tipping fee subsidy.

#### Indicative Project Structure:

1. **4.2 Suwung/Sarbagita Waste-to-Energy Plant**
   - **Location:** Denpasar, Bali (as of Feb 2018*)
   - **Benefits:**
     - The Suwung/Sarbagita WtE capacity is projected to be 20 MW, with the average waste volume for the plant collected from 4 regions estimated around 1,200 ton/day.
### Semarang Waste-to-Energy Plant

**Location:** Semarang, Central Java

**Government Contracting Agency:**
- City Government of Semarang
- Head of Semarang Environmental Protection Agency
- +62-24-8664742, email: dlh@semarangkota.go.id

**Estimated Concession Period:** 20 years

**Estimated Project Cost:** US$ 120 million (estimated)

**Government Contracting Agency:** City Government of Semarang

**Contact Person:** Head of Semarang Environmental Protection Agency
- +62-24-8664742; e-mail: dlh@semarangkota.go.id; dlh.semarangkota@gmail.com

**Estimated Concession Period:** 20 years

**Project Timeline:**
- Financial Feasibility: FIRR: 12% (estimated), NPV: N/A
- Business Opportunity: Transaction Advisor/Bidder/Financier
- Project Status: Project is currently on Pre-Feasibility Study phase

**Benefits:**
- The Semarang WtE capacity is projected to be 20 MW, with the average waste volume for the plant estimated around 1,000 ton/day.

**Flow of Fund & Service Flow:**

#### South Tangerang City Waste-to-Energy Plant

**Location:** South Tangerang, Banten

**Government Contracting Agency:**
- City Government of South Tangerang
- Head of South Tangerang Environmental Protection Agency
- +62-21-75875447

**Estimated Concession Period:** 20 years

**Estimated Project Cost:** US$ 120 million (estimated)

**Government Contracting Agency:** City Government of South Tangerang

**Contact Person:** Head of South Tangerang Environmental Protection Agency
- +62-21-75875447

**Estimated Concession Period:** 20 years

**Project Timeline:**
- Financial Feasibility: FIRR: 12% (estimated), NPV: N/A
- Business Opportunity: Transaction Advisor/Bidder/Financier
- Project Status: Project is currently on Pre-Feasibility Study phase

**Benefits:**
- The South Tangerang City WtE capacity is projected to be 20 MW, with the average waste volume for the plant estimated around 1,000 ton/day.
6

TELECOMMUNICATION PROJECT

Traditional Tana Toraja village © Iuliia Shcherbakova/Shutterstock
**Description:**
Multifunction satellite project is expected to provide benefits for Indonesian services to citizens, including education and health services. This project plan is inseparable from the Indonesian Broadband Plan based on Presidential Regulation No. 96 of 2014 on Broadband Plan of Indonesia 2014 - 2019. One of the infrastructure policies and strategies in the Indonesia Broadband Plan is to optimize the use of radio frequency spectrum and satellite orbit as a limited resource.

**Sub-sector:** Satellite

**Estimated Project Cost:**
US$ 487.41 million

**Government Contracting Agency:**
Ministry of Communication and Information Technology

**Contact Person:** R. Sri Sanggrama Aradea (Head of Infrastructure Provision Planning Division), Mutsla Adlan (Staff);
+62-21-31936590; e-mail: sri.sanggrama@kominfo.go.id and mutsla.adlan@kominfo.go.id

**Estimated Concession Period:**
15 years

**Project Timeline:**
Financial Feasibility:
- FIRR: 12.01%
- NPV: US$ 75.0 million

**Business Opportunity:**
Bidder/financier

**Project Status:**
Project is currently on Request for Proposal phase

**Indicative Government Support & Guarantee:**
- Government guarantee will be provided for this project.
- Government will also support for tax incentives.

**Indicative Project Structure:**
1.45 MULTIFUNCTION SATELITE
LOCATION: National

**Sector:** Telecommunications and Information Technology

**Sub-sector:** Satellite

**Indication Project Summary:**

**Data per 04/03/2019**

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Indonesia

GOVERNMENT MULTIFUNCTIONAL SATELLITE

Government Contracting Agency: BAKTI – Ministry of Communication & Informatics
Contact Person: Sri Sanggarama Aradea (sri.sanggrama@kominfo.go.id)

Sector: Telecommunication
Sub-Sector: Telecommunication Satellite

Estimated Project Cost: USD 397 million - USD 550 million

Project Timeline:
- Financial feasibility: FIRR: 7.8% (In USD), NPV: USD 69 million
- Project Timeline:
  - Financial feasibility: FIRR: 7.8% (In USD), NPV: USD 69 million
  - PQ and Public Tender: Q2 2018
  - Bid Award: Q1 2019
  - Contract Signing: Q1 2019
  - Financial Close: Q2-Q3 2019
  - Construction: Q4 2020 – Q4 2020
  - Launch and Operation: Q4 2022

Indonesia

Over 149,400 public sites around Indonesia (schools, hospitals, local government) will lack connectivity. Satellite is the only feasible access technology for cost effectively address these remote locations.

Business Opportunity: Fincier

Benefits:
- Reach more than 149,400 public service spots covering education, regional government, and health facilities across Indonesia with sub-optimum connection.
- Reduce cost for provisioning terrestrial network.

Project Timeline:
- Financial feasibility: FIRR: 7.8% (In USD), NPV: USD 69 million
- PQ and Public Tender: Q2 2018
- Bid Award: Q1 2019
- Contract Signing: Q1 2019
- Financial Close: Q2-Q3 2019
- Construction: Q4 2020 – Q4 2020
- Launch and Operation: Q4 2022
Lake, lake in Ngor Sumatra, Indonesia
© littlewormy/Shutterstock

**Description:**

- Waste management of 1,800 tons per day of waste sourced from 6 regencies (Bandung Regency, Bandung City, Sumedang Regency, Cimahi City, West Bandung Regency, and Garut Regency) located in Legok Nangka, West Java.
- Conversion of waste to electricity with output capacity to be determined and Purchase Agreement with PLN.
- Scope: Design, build, finance, operate, maintain the WTE plant and supporting infrastructure.

**Sector:** Sanitation

**Sub-Sector:** Waste to energy

**Estimated Project Cost:** US$ 220.8 Million

**Government Contracting Agency:** Provincial Government of West Java

**Contact Person:** Drs. Dedi Kuswandi (Head of West Java Regional Solid Waste Management, Regional Environmental Agency of West Java)

**e-mail:** pstrdlhprovjabar@gmail.com

**Estimated Concession Period:** 2 years construction and 20 years operation

**Business Opportunity:** Transaction advisor/bidder/financier

**Project Status:** Project is currently in FBC phase

**Indicative Government Support & Guarantee:**

- Feed-in tariff based on Presidential regulation, Government of West Java committed to pay the required tipping fee.
- GCA will propose government guarantee and support.

**Indicative Project Structure:**

1.47 LEGOK NANGKA REGIONAL WASTE TREATMENT

**LOCATION:** West Java

**Financial Feasibility:**

- Equity IRR: 15%
- NPV: 138.7 Million

Data per 18/09/2018
**CIPUTAT MARKET**

**LOCATION:** Banten

**Section:** Urban Facility

**Sub-Section:** Modern Market

**Government Contracting Agency:** Regency Government of South Tangerang

**Contact Person:** dr. Maya Mardiana (Head of Industry and Trade Department); +62-812-12445857 e-mail: mayamardiana@yahoo.com

**Estimated Project Cost:** US$ 10.2 million

**Sector:** Urban Facility

**Sub-Sector:** Modern Market

**Indicative Project Structure**

**1.48 CIPUTAT MARKET**

**LOCATION:** Banten

**Data per 19/02/2019**

**IIGF**

**SPC**

**Industry and Commerce Dept.** (Dinas Indag)

**Mayor of South Tangerang (GCA)**

**User / Tenant**

**Government Guarantee**

**PPP Agreement**

**Regulator**

**Service/ User Charge**

**Investor**

**KSO/ MTN**

**Business Opportunity:** Revitalize an existing market to better facilities and supporting infrastructures for market activities. The total area of this project is 42,550 m² (includes 23,750 m² developing area).

**Description:** This project includes the revitalization and modernization of existing traditional market to be better in terms of facilities and supporting infrastructures for market activities. The total area of this project is 42,550 m², including 23,750 m² developing area.

**Financial Feasibility:**

- **FIRR:** 14.0%
- **NPV:** US$ 1.9 million

**Indicative Government Support & Guarantee:**

- Government support and Government guarantee will be determined in Final Business Case (FBC).

**Project Timeline:**

- **Financial Feasibility:**
  - **FIRR:** 14.0%
  - **NPV:** US$ 1.9 million

- **Government Contracting Agency:** Regency Government of South Tangerang

- **Estimated Project Cost:** US$ 10.2 million

- **Contact Person:** dr. Maya Mardiana (Head of Industry and Trade Department); +62-812-12445857 e-mail: mayamardiana@yahoo.com

- **Estimated Concession Period:** 22 years

**Business Opportunity:** Transaction adviser/bidder/financier

**Project Status:** Project is currently on Outline Business Case phase

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**Affordable Housing Project**

**Location:** Jakarta, Bogor, Tangerang and Medan

**Sector:** Housing

**Sub-Sector:** Affordable Housing

**Company:** Perumnas

**Contact Person:** Reza Masri - CRO PINA Center/ +6281317504786 / reza.masri@pina.bappenas.go.id

**Estimated Project Cost:** USD 1.3 billion

**Financial Instrument:** KSO/MTN

**IRR Project:** est 15%

**Use of Fund:** Building 76 Towers for 57,678 Residential Units

**Indicative Ownership Structure**

**Business Opportunity:** Bulk Sales, Turnkey financing, Project acquisition

**Project Status:** Ready to offer

**Description:** Perumnas has housing projects for lower middle income zone in 15 locations. Consists of 76 Towers and 57,678 Residential Units and 2618 commercial unit. Together with PT KAI, Perumnas also develop TOD project in several train station.

**Benefits:**

- Reducing housing backlogs in Indonesia
- Affordable and inexpensive houses for middle and lower class income

**Timeline:**

**KSO/ MTN**

**Business Opportunity:** Bulk Sale, Territory, Project acquisition

**Project Status:** Ready to offer
**NUSAKAMBANGAN INDUSTRIAL CORRECTIONAL FACILITY**

**LOCATION: Central Java**

**Sector:** Penitentiary  
**Sub-Sector:** Industrial Correctional Facility

**Government Contracting Agency:** Ministry of Law and Human Rights  
**Contact Person:** Arfan Rujul (Director of Information Technology and Cooperation)  
**Estimated Concession Period:** 25 years

**Estimated Project Cost:** US$ 36.6 million

**Government Support and Guarantee:**  
Government support and Government guarantee will be determined after Final Business Case (FBC) finalized.

**Indicative Project Structure**

**Outline Business Case for this project has been finished.**

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**RELOCATION OF SALEMBA CORRECTIONAL FACILITY TO CIANGIR**

**LOCATION: DKI Jakarta and Banten**

**Sector:** Penitentiary  
**Sub-Sector:** Correctional Facility

**Government Contracting Agency:** Ministry of Law and Human Rights  
**Contact Person:** Arfan Rujul (Director of Information Technology and Cooperation)  
**Estimated Concession Period:** 15 years

**Estimated Project Cost:** US$ 96.6 million

**Government Support and Guarantee:**  
Government support and Government guarantee will be determined after Final Business Case Study finalized.

**Indicative Project Structure**

**Outline Business Case for this project has been finished.**

---

**Description:**

The relocation of the correctional facility in Salemba which located in Central Jakarta to Ciangir, Banten Province (around 40 km from Jakarta) has the following objectives: (i) to solve the overcapacity in Salemba’s prison; (ii) Spatial Plan did not accommodate current prison location; (iii) to accommodate the Government’s budget constraint for building prisons.
**BINTUNI INDUSTRIAL ZONE**

**Location:** West Papua

**Description:**
Bintuni Industrial Zone is a National Strategic Project according to Presidential Regulation No. 58 Year 2017. The PPP scope of the project is the development of an industrial that processes gas as the main element and the methanol factory as its main industry.

**Estimated Project Cost:** US$ 451.1 million

**Government Contracting Agency:** Ministry of Industry

**Contact Person:** Triani (Section Head of Industry Empowerment)

**Contact:** +62-8567628785; e-mail: ani.iatdk@gmail.com

**Estimated Concession Period:** 23 years

**Project Timeline:**
- Business Opportunity:
  - Transaction adviser/bidder/financier

**Project Status:**
Outline Business Case for this project has been finished

**Indicative Government Support & Guarantee:**
Government support and Government guarantee will be determined after Final Business Case Study finalized.

### Financial Feasibility:

- **IRR:** 10.27%
- **NPV:** US$ 34.1 million

**Project Structure:**

1. **BINTUNI INDUSTRIAL ZONE**
   - **Location:** West Papua
   - **Estimated Project Cost:** US$ 451.1 million
   - **Financial Feasibility:**
     - **IRR:** 10.27%
     - **NPV:** US$ 34.1 million

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**Marina Nusantara Special Economic Zone**

**Location:** NTT

**Description:**
Within 6 months, Tana Naga and Golomori can become Tourism Special Economic Zones / SEZ that attract investors, because of the large tax incentives and that the investors will be more confident to invest. Three phases will be developed for the development of Tana Naga, with the first phase focusing on tourism development, business and leisure. The second and third phases will focus on the development of multi-use resorts. Tana Naga's growth potential is increased by 70-80% per year and increases by 60-70 rooms per year. As for the Golomori, target potential growth of 20-30% per year and increases by 20-25 the number of rooms per year.

**Benefits:**
- Improve Manggarai Barat’s income & to prosper the people of Manggarai Barat.
- To increase national foreign exchange through tourism

**Indicative Government Support & Guarantee:**
A part of 4 super priority tourism areas

**Project Timeline:**
- **2019-2021:** Research and Design
- **2021:** Project started

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**7.6 SDGs Business Opportunities**

**Facilities Project**

**7.7 SDGs Business Opportunities**
Indonesia's Sustainable Development Projects

SDGs Social Investment

Derawan, Kalimantan.
© fenkieandreas / Shutterstock
Description: 1.200 ha of Londrang peatland was destroyed by fire in 2014-2015. Thousand people lost their farmlands/incomes, children affected pneumonia and haze flew to neighbor countries. This project aims to restore the Londrang Peatland Areas with collaboration of local communities, private sectors and the Government of Indonesia to sustainability managed.

Sector: Forest
Sub-Sector: Peatland Restoration and Mitigation

Estimated Project Cost: US$ 3.3 million

Contracting Agency: WWF Indonesia Foundation
Contact Person: Rizal Malik, CEO WWF Indonesia
+62 21 7829461, e-mail: rmalik@wwf.id, tbarano@wwf.id

Estimated Project Period: 36 months

Social and Environmental Impacts:
- At least 300 women and 1,000 villagers have new skills and better incomes
- 50% of the area are rewetted
- 1,000 hectares are regreening
- Forest Management Unit is effectively managed and sustained

Donor Opportunity:
Grants needed to implement the project which is contributing to Indonesia Nationally Determined Contribution-NDC (41%) and improving livelihood of 1,300 people including women.

Project Status:
This project is the continuation of Rimba Project Dec 2016 – March 2018, funded by MCAI (collaboration with Bappenas and MCC)

Government Support:
Indonesia Peatland Restoration Agency, Ministry of Environment and Forestry, Jambi Provincial Forestry Services Unit, Jambi Watershed Management Unit

Indicative Project Structure

2.1 LONDRANG PEATLAND AREA
LOCATION: Jambi Province
Benefits:
- 1,300 people (incl. women) improve their earnings by learning new skills of Peatland Management (nursery, home industry, canal construction)
- 55 new canal blocking build
- 1,000,000 new trees planted
- Strengthening and optimizing Londrang Forestry Management Unit
- New 5 Early warning system are installed

4 Months
Project Preparation
24 Months
Project Implementation
6 Months
Project Evaluation

2015 Hot Spots in Peatland Protected Area: Londrang, Jambi, Sumatera

1. LONDREING PEATLAND AREA
© littlewormy/Shutterstock

Wae Rebo Village, Flores Island, Indonesia
2.2 KURA KURA BALI

LOCATION: Bali, Indonesia

- Car free zones
- Creative Campus
- Eco development that spans 500 ha with 3000 m of coral reefs and 92 bird species, designed around an integrated green masterplan with:
  - 80 ha of green and mangroves
  - 35 km non-vehicular routes
  - 25 km of park connector
  - Smart Grid for Sustainable Lifestyle
  - Green buildings

Business Opportunity: Blended Finance Investors / Lenders & Financiers / Partners / Developers / Social Entrepreneurs / Technical Advisors / Business Opportunity:

Project Status: Currently in infrastructure development planning

Economic & Social Impact:

- 5 times more green & water routes as compared to vehicular roads
- 95% of population being assessable to green public transport
- Impacting:
  - 500 ha eco development area of 35 ha of mangrove & coral reefs
  - Preserving the eco assets of 128 species of birds

Estimated Project Period

Implementation Schedule (ETA):

- 2021 - 2024
  - Support from government province of Bali.
- 2024 - 2038
  - Further development

Company: PT Wall Turtle Island Development

Contact Person: Yennah Mulia

Phone: +62 8119893311

Email: yennah.mulia@baliturtleisland.com

Website: www.baliturtleisland.com

3. Village Revitalization Movement

LOCATION: Bogor - West Java Province, Lamandau - Central Kalimantan Province, & Gorontalo - Gorontalo Province

Sector: Social Entrepreneur

Sub-Sector: Micro Enterprise

Bina Swadaya Foundation

Contact Person: Bayu Krisnamurthi and Frida Widuratmi (Bina Swadaya)

Phone: +62-21-4204402

Email: bswadaya@cbn.net.id

Beneficiaries:

- 800 villages

Village Empowerment Agency, Ministry of Villages, Rural Regions Development, and Transmigration

District Government Support:

- 2 (two) years

Implementation Schedule (ETA):

- Q3. 2019 - 2021
  - Implementation Preparation
- Q4. 2019 - Q1. 2021
  - Implementation

The project is intended to eradicate rural poverty with social enterprise businesses but also to cooperate and empower microentreprises in the village. The role of BUMDesa is not only managing village-owned businesses and increasing welfare of the community. The profit of BUMDesa will be returned to the village and community in various ways, such as in economic, social, and infrastructure forms, as well as by the increasing of microentreprises in term of number or growing scale.
SDGs Social Investment
Indonesia's Sustainable Development Projects

4. Village-Based Essential Oils Factory

Location: Central Java Province (Pemalang and Pekalongan Districts), East Java Province (Trenggalek and Lumajang Districts), and/or West Sumatera Province (Pasaman Barat Districts)

Description: Essential oils are organic compounds derived from plants and are evaporative. It is mainly used as a main component of perfume or fragrance, medicines, and food. Indonesia has a variety of superior and potential plants as raw materials for essential oils in various rural areas. At least there are 41 types of raw materials for essential oils which grow throughout the archipelago, such as clove leaf, lemongrass, roses and jasmine. Indonesia's total essential oils production capacity can reach 5,000 to 6,000 tons per year with the number of business actors reaching 3,000 businesses. On the other hand, farmers and communities still lack of knowledge and expertise to process the raw materials, and market the product.

Business Opportunity: Farmers while waiting for the harvest time often take loans from loan sharks to pay for their essential oils. Farmers need and experience a long distribution chain process. The project will benefit more than 19,000 farmers in 4 districts, at least 500 villagers working in the processing units and also assist the social actors reaching 3,000 businesses.

Benefits:
- Bringing added value for rural community with simple technology to adopt and clear market for the product.
- Farmers will benefit more than 19,000 farmers in 4 districts, at least 500 villagers working in the processing units.

Estimated Project Cost: US$ 1.3 million

Government Contracting Agency: Ministry of National Development Planning
Contact Person: Vivi Yulaswati, Director of Poverty Alleviation and Social Welfare
Phone: +62 823-87071647
Email: viviyulaswati@bappenas.go.id

Vivi Yulaswati, Director of Poverty Alleviation and Social Welfare

Government Support & Guarantee:
- Since 2015 according to the Village Law, each village manages its own budget with around amount of $72,000/year.
- The project will provide training and experience to local farmers for the essential oils production.
- The processing unit in Pemalang pilot district has received funding budget with average amount of $72,000/year.

Business Strategy: Ongoing Pilot (in Pemalang district) and Scale Out to 3-4 other districts.

5. COMMUNITY FOOD BARN - MINISTRY OF AGRICULTURE

Location: East Java Province (Pemalang district), Central Java Province (Pemalang and Pekalongan Districts), East Java Province (Trenggalek and Lumajang Districts), and/or West Sumatera Province (Pasaman Barat Districts)

Description: Community food barn is a mechanism to integrate community food reserves through three main stages, namely growth, development, and independence. Community food barn has become a mechanism to strengthen community food reserves through three main stages, namely growth, development, and independence. Community food barn is a mechanism to manage food in an optimal and sustainable manner.

Benefits:
- Optimize existing community food barns (rice purchase and distribution to beneficiaries).
- The coefficient of variation in grain price at the producer and rice level at the consumer level internal rate of return (IRR) 3 years.
- The funding for rice purchases.
- Strengthening the development of essential oils (API) and the stage of independence.

Estimated Cost of Activities 2019: 1.2 million USD

Executing Agency: Ministry of Agriculture
Implementing Agency: Food Distribution and Reserve Center, Food Security Agency, Ministry of Agriculture

Funding Stages:
- Stage I: Refocusing LPM, without government’s aid.
- Stage II: Development of community food barn during the feasibility study is completed.
- Stage III: Government’s aid for developing LPM.

Indicators:
- The number of beneficiaries, and the volume of food stock in food distribution center.
- The coefficient of variation in grain price at the producer and rice level.
- The internal rate of return (IRR) 3 years.
- The cost of activities 2019.

Optimize of existing community food barns (rice purchase):
- For 2078 LPM needs
- As much as 2078 LPM needs
- Optimize of existing community food barns (rice purchases).
- Optimize of existing community food barns (rice purchase).
- $443k

Allocation for Fiscal Year
Stage of Growth
Fiscal Year 2017-2018: Refocusing LPM, without Government’s Aid
Fiscal Year 2019: Government’s aid for Developing LPM

Allocation for Fiscal Year
Stage of Development
Fiscal Year 2017-2018: Refocusing LPM, without Government’s Aid
Fiscal Year 2019: Government’s aid for Developing LPM

Allocation for Fiscal Year
Stage of Independence
Fiscal Year 2017-2018: Refocusing LPM, without Government’s Aid
Fiscal Year 2019: Government’s aid for Developing LPM

Funding Stages
6. LOCAL FOOD DEVELOPMENT - MINISTRY OF AGRICULTURE
Location: District / City Of Local Food Sources

Description:
Local food development activities for sago, cassava, and corn commodities. This activity is in accordance with the direction of national food policy for increasing the availability of food sourced from within the country and increasing food access. An industry-based food processing initiative that will add local potential.

Sector: Agriculture
Sub-Sector: Food Crops

Concept of Activities
2.6 LOCAL FOOD DEVELOPMENT - MINISTRY OF AGRICULTURE
Location: District / City Of Local Food Sources

Outcome:
- Increased consumption of local raw materials
- Increased local raw material food industry

Purpose of Activity:
Improve local food production
Recipient Target:
Medium-scale food processing business group

Activity Details:
- Government Assistance: Equipment and machine assistance 500,000 USD
- Production operational assistance 200,000 USD
- Government Assistance (Advanced): 250,000 USD
- Operational Assistance (New): 100,000 USD
- Operational Assistance (Continued): 100,000 USD
- Operational Provincial Assistance: 150,000 USD

Recipient Target:
MSME-scale food processing business group

7. FOOD YARD DEVELOPMENT - MINISTRY OF AGRICULTURE
Location: 33 Province

Description:
A group of women who jointly cultivate their yards intensively to be used as a family food source in a sustainable manner by considering the potential aspects of the region and the nutritional needs of local residents. The handling is done through community empowerment

Sector: Agriculture
Sub-Sector: Food Crops

Concept of Activities
2.7 FOOD YARD DEVELOPMENT - MINISTRY OF AGRICULTURE
Location: 33 Province

Outcome:
- Improve the quality of people's consumption by forming good food consumption patterns

Recipient Target:
Food Yard Development is managed by Women Group with a minimum member 15 women

Activity Details:
- Making nurseries and demonstration plots to meet the needs of seedlings for beneficiary communities and surrounding areas
- Procurement of facilities and infrastructure for the development of beneficiary yards (seeds, polybags, organic fertilizers, planting media, etc.)
- Organizing technical guidance for beneficiaries
- Assistance by direct companion

Recipient Target:
Women Group with a minimum member 15 women

Deconcentration Fund of State Budget
- Coordination and Dissemination Meetings
- Training/Technical Training
- Facilitations
- Monev and Capacity Building
- Reporting

Processing
Marketing
Contract
- Indonesian Chamber of Commerce and Industry
- The Indonesian Food & Beverage Association
- Co-op
- Ministry of Industry
- etc.

Support from Subnational Government and Related Institutions
- Regulations
- Permits
- Facilitations

Support
- Equipment/Machine
- Production Operation

Income Increase for Families and Communities
Conservation of Local Biodiversity
Support to Local Resources-Based Food Diversity
Environmentally Friendly (Reduce Carbon Footprint and Repurposing Used Materials)
SUSTAINABLE COMMUNITY-BASED FARMING
Food and Nutrition Security and Independence for Families
8. Indonesia Herbs and Spice Region

**Location:** East Java Province (Trenggalek ongoing pilot area, Pacitan District, Ponorogo District), and/or Central Java Province (Wonogiri District)

**Description:** Herbs and spices plants have long been planted and used by rural communities traditionally in Java island. In Indonesia, in 2017, it produced 256,000 ton of ginger which 67% were produced in three districts, 150-400 villagers working in the processing units and also assist the social enterprise (off taker) to grow their business.

**Business Opportunity:** Benefits: simple technology to adopt and clear market for the product

**Project Status:** Ongoing pilot (in Trenggalek district) and Scale out to 2-3 other districts

**Indicative Government Support & Guarantee:** The project will benefit more than 2000 herbs farmers in 3 districts, 400-450 villagers working in the processing units and also assist the social enterprise (off taker) to grow their business.

**Estimated Project Cost:** US$ 1.2 million

**Actors involved:** PT. Agrakaya (social enterprise-off taker), Herbs Farmers Group, Village-owned enterprises, Local Government, and Directorate of Poverty Alleviation and Social Welfare – Ministry of National Planning and Development (Bappenas), KOMPAK DFAT-Funded Program

**Government Contracting Agency:** Ministry of National Development Planning

**Contact Person:** Vivi Yulaswati, Director of Poverty Alleviation and Social Welfare

**Email:** viviyulaswati@bappenas.go.id

**Phone:** +62-8128755645

9. Coconut Waste Processing to Tackle Village Poverty

**Location:** Aceh Province (Bireun District, West Aceh District), East Java Province (Trenggalek District–ongoing pilot area, Pacitan District), and/or South Sumatera Province (Banyuasin District)

**Description:** Indonesia is the largest coconut producer in the world. Data from the Director General of Plantation at the Ministry of Agriculture in 2017 shows that Indonesia produced 2.87 million tons of coconut from the area of 1.99 million hectares. There are around 6.5 million farmers involved in coconut cultivation. While meat and coconut water have adequate buyers, coconut fiber is a widespread waste. The project will establish simple processing units to produce coconuts bristle and coconuts peat in the villages and connect them with social enterprises which will provide technical assistance and act as off-taker of the products for local and export markets (including Japan, South Korea, China, Netherland, Belgium and Dubai)

**Business Opportunity:** Benefits: simple technology to adopt and clear market for the product

**Project Status:** Ongoing pilot (in Trenggalek district) and Scale out to 2-3 other districts

**Indicative Government Support & Guarantee:** The project will benefit more than 20,000 coconut farmers in 4 districts, 400 villagers working in the processing units and also assist the social enterprise (off taker) to grow their business.

**Estimated Project Cost:** US$ 1.4 million

**Actors involved:** PT. Nusa Berdaya (social enterprise-off taker), Coconut Farmers Association, Village-owned enterprises, Local Government, and Directorate of Poverty Alleviation and Social Welfare – Ministry of National Planning and Development (Bappenas), KOMPAK DFAT-Funded Program

**Government Contracting Agency:** Ministry of National Development Planning

**Contact Person:** Vivi Yulaswati, Director of Poverty Alleviation and Social Welfare

**Email:** viviyulaswati@bappenas.go.id

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**Phone:** +62-8669526684
DUITHAPE - Mobile Enabled Financial Services for the Unbanked

**LOCATION:** Indonesia

**Company:** PT Virtual Online Exchange (Saktihape)

**Contact Person:** Sara Dhewanto (Managing Director)

**Phone:** +62 811934705

**Email:** sara.dhewanto@vox.co.id

**Estimated Concession Period:** 4 years

**Indicative Project Structure**

**Indicative Project Costs:**

- **US$ 3 million**

**Sector:** Finance

**Sub-Sector:** Financial Technology

**Financial Feasibility:**

- **24%**

  **NPV:** US$ 28.9 million (Revenue from fees)

**Social Impact:**

- Financial inclusion and reducing poverty for 5 million users, empowering 300k SMEs & women.

**Estimated Project Cost:**

- **US$ 3 million**

**Social Impact:**

- Indonesia can potentially save over USD 3 Billion transactions with the unbanked.

**Social and Environmental Impact:**

- Over 130 million Indonesians are unbanked and desperately need access to financial services (including poor & near poor).

**Government Support & Guarantee:**

- 80% Sales & Dist., 12% IT Dev, 8% G&A

**Indication of Government Support & Guarantee:**

- Duithape is a social for profit company.

**Project Timeline:**

- Year 1: Preparation (Preparation for roll out; Field visit; Training; Infrastructure Engineering)
- Year 2: Pre-commercialization (commercialization; bio slurry commercialization; program development)
- Year 3: Commercial funding (commercialization; full scale upscaling program)

**Implementation Schedule (ETA):**

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<thead>
<tr>
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**Project Structure**

- **Northeast Region:**
  - East Java
  - 8145
  - Sumba
  - 1116
  - West Java/Banten
  - 1542
  - South Sulawesi
  - 2710
  - Bali
  - 1260
  - Lampung
  - 521
  - Jakarta
  - 1625
  - Banten & Jakarta
  - 4013

**Domestic Biogas Program**

**LOCATION:** Central Java, East Java, Banten, DKI Jakarta, West Java, South and Central Sulawesi, (to be) Maluku, Papua

**Partner**

- Ministry of Energy & Mineral Resources, Ministry of Village, Ministry of Village, Development of Disadvantaged Regions and Transmigration (Dirjen PDT), Provincial Governments

**Government Support:**

- Government relation; Support to Biogas and Bio Slurry companies; Extensive building of infrastructure; Carbon Experts; Government funding; Carbon experts; Bio slurry commercialization; program development.

**Project Timeline:**

- **Estimated Project Period:** 3 years upscaling period

**Contact Person:**

- Lina Moeis; CEO Yayasan Rumah Energi

**Phone:** +62-812 9626310 / +62-21-7821086; email: l.moeis@rumahenergi.org

**Estimated Project Cost:**

- **US$ 3.3 million**

**Non Government Agency**

- Carbon experts; Bio slurry commercialization; program development.

**Government Support:**

- Domestic Biogas Program, consists of producing biogas, demanding value; 생성기생물; 발생기생물; Environment; Government funding; Carbon experts; OTA; program development.

**Industry Experts:**

- Value; Carbon experts; OTA; program development.

**Social and Environmental Impact:**

- 10,000 HHs or 50,000 people will get access to clean energy; 3,000 new jobs; 3,000 new biogas companies

**Social and Environmental Impact:**

- Indonesia can potentially save over USD 3 Billion transactions with the unbanked.

**Benefit:**

- 5 M users & Gain 300K SMEs as Agents nationwide in 4 yrs

**Project Timeline:**

- Year 1: Preparation (Preparation for roll out; Field visit; Training; Infrastructure Engineering)
- Year 2: Pre-commercialization (commercialization; bio slurry commercialization; program development)
- Year 3: Commercial funding (commercialization; full scale upscaling program)

**Implementation Schedule (ETA):**

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The materials can be downloaded at http://sdgs.bappenas.go.id