



# Indonesia

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Indonesia is the future. We've got to start paying attention

# Indonesia

Fredrik Bjerke Abdelmaguid  
Tidligere landdirektør og handelsråd  
Innovation Norway  
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## Kort om meg

- 13 år i Innovasjon Norge (Storbritannia, Sør-Korea, Indonesia og Norge)
- Nesten 20 år i utlandet (USA, Storbritannia, Tyskland, Egypt, Portugal, Sør-Korea, Indonesia)
- Utdannet økonom, sivilingeniør og statsviter
- Bakgrunn fra Forsvaret
- Vokst opp i en Rotary-familie, men mange utvekslingsstudenter innom



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# Indonesia at a glance

**MARKET SIZE**

- Ranks the 4th most populous country in the world with close to 270 million people
- Population covers about 40% of the total population of 10 Southeast Asian Countries (ASEAN)
- More than 50% of the population under the age of 30
- ALSO the 4th largest population for internet connected people. Asia's 3rd largest eCommerce Market at 50% growth

**ECONOMIC SITUATION**

- Annual growth of 5-7% (2% decline in 2020, 3% growth in 2021)
- GDP of 1020 billion USD and ranked 16th in the world and projected to become 4th to 7th biggest economy by 2030.

**INDONESIA NOW**

- Middle class and affluent population is expected to grow to 135 million by 2030.
- The World bank ranks Indonesia as number 7 in the world on "Purchasing Power Parity"
- Strong domestic demand makes Indonesia's economy more robust to global events

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**Innovation Norway**

## Team Norway Cooperation Across the Board

- Innovation Norway has offices in Singapore and Vietnam in Southeast Asia
- Enterprise Development for Jobs – NORAD supported by Innovation Norway
- NORFUND
- NOREC
- Comprehensive Economic Partnership Agreement EFTA - Indonesia
- ASEAN Smart Cities – Norway Rep
- Seafood Council
- Norwegian Energy Partners

Photo: brandnorway.no

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Innovation Norway in Southeast Asia

### Singapore



### Vietnam



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## Prosjekter i Sørøst Asia

- 2 av 3 nordiske HPOer er i SEA: Helse og ny hovedstad i Indonesia (Nusantara)
- HPO innen sirkulærøkonomi i Singapore (og SEA)
- Det er stor fokus på energi i hele regionen og det har ikke blitt mindre de siste par ukene slik energimarkedet har beveget seg
- Avfallshåndtering og resirkulering er store mulighetsområder
- Shipping og akvakultur



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**Bioeconomy** Pipeline value: 70 MUSD

- Aquaculture
- Captured Fish
- Notable Norwegian Companies
  - Sterner, Scale AQ, Pharmaq, Skretting

The slide features 17 SDG icons arranged in a grid:

- 1: People (Society)
- 2: Water (Water)
- 3: Heart (Health)
- 4: Book (Education)
- 5: Female symbol (Gender Equality)
- 6: Glass of water (Clean Water)
- 7: Sun (Renewable Energy)
- 8: Bar chart (Economic Growth)
- 9: Gear (Industry, Innovation, Infrastructure)
- 10: Scales (Reduced Inequalities)
- 11: House (Sustainable Cities and Communities)
- 12: Infinity symbol (Responsible Consumption and Production)
- 13: Earth with lightning (Climate Action)
- 14: Fish (Life Under Water)
- 15: Tree (Life on Land)
- 16: Scales (Peace, Justice, Strong Institutions)
- 17: Network (Partnerships for Goal Achievement)

Photo: Thomas Lambert

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**7** RENE ENERGI FOR ALLE

**13** STOPPE KLIMAENDRINGENE

## Clean energy

- Hydropower
  - Tinfos and Scatec
- Solar
  - Scatec Solar

Pipeline value:  
350 MUSD

Photo: Getty Images

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**11** BÆRKRÆFTIGE BYER OG SAMFUNN

**17** SAMARBEID FOR Å NÅ MÅLENE

## Smart society

- Waste Management
  - Avfall Norge, Inframor and Vov
- Circular Economy
  - Tomra
- Fintech
  - Protectoria

Pipeline value:  
> 1000 MUSD

Photo: Chababala

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# Waste to Energy



## Waste condition in Indonesia

- Indonesia faces an unprecedented challenge of dealing with the impacts of underfunded municipal solid waste management systems, growing marine litter and plastic waste.
- The country generates the highest amount of MSW in the ASEAN region at 65 million tons/year, based on World Bank's What a Waste report in 2018.
- Plastic constitutes around 25,000 tons per day of which at least 20 percent is believed to end up in rivers and coastal waters.
- Indonesia was ranked the world's second most significant contributor of plastic pollution in the ocean (480,000 to 1.29 million tons per year).

## River waste collection

- DKI Jakarta was found to be one of the few cities that actively measures the volume of waste extracted from its waterways.
- Waste from waterways is extracted using waste catchers or barriers such as bar screens, trap nets, bamboo stick traps or/and standard excavator.
- In cities that do not have trash rack infrastructure installed in their waterways, the waste is collected manually by boat, but the volume and composition is not recorded.



Heavy equipment is deployed to lift waste from a river in Bahagia subdistrict in Bekasi, West Java (photo: The Jakarta Post)



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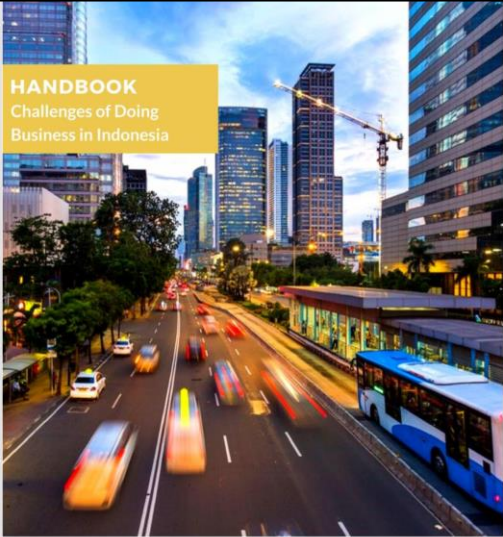
## Waste to Energy

- Presidential Regulation (Perpres) **No. 35/2018** on accelerating environmentally friendly waste-to-energy power plants stipulates **12 cities** in Indonesia (Jakarta, Tangerang, South Tangerang, Bekasi, Bandung, Semarang, Surakarta, Surabaya, Makassar, Denpasar, Palembang and Manado) should develop waste-to-energy power plants soon.
- The Government will also develop waste incinerators having minimal CO<sub>2</sub> in regions producing waste below 150 tons per day. These incinerators will be located far from settlement areas.
- **Bantargebang Landfill WtE** – a pilot project using a thermal process waste-processing technology with a capacity to process 100 tons of garbage daily and produce 750 kWh of electricity.
- **ITF Sunter** – a JV between Jakpro and Fortum. The facility is expected to transform 2,200 tons of waste into 25 megawatts of electricity



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**Innovation Norway**

**HANDBOOK**  
Challenges of Doing  
Business in Indonesia

**Handbook**

In Depth Insights

Prepared for :



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**Terima kasih dan selamat datang di  
Indonesia**

Photo: Responsible Trav



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## **“Yes, Boss” Phrase in Indonesian Business Culture**

