

Semarang **Waste to Energy** 2023

Stable economic and population growth have led to a dire need for a sustainable waste management solution



Starting Point



1000 ton/day sent
to Jatibarang Landfill

2 years remaining
life of the Landfill

Waste volume is
increasing due to
population growth
and urbanization



Health risks for
surrounding
communities

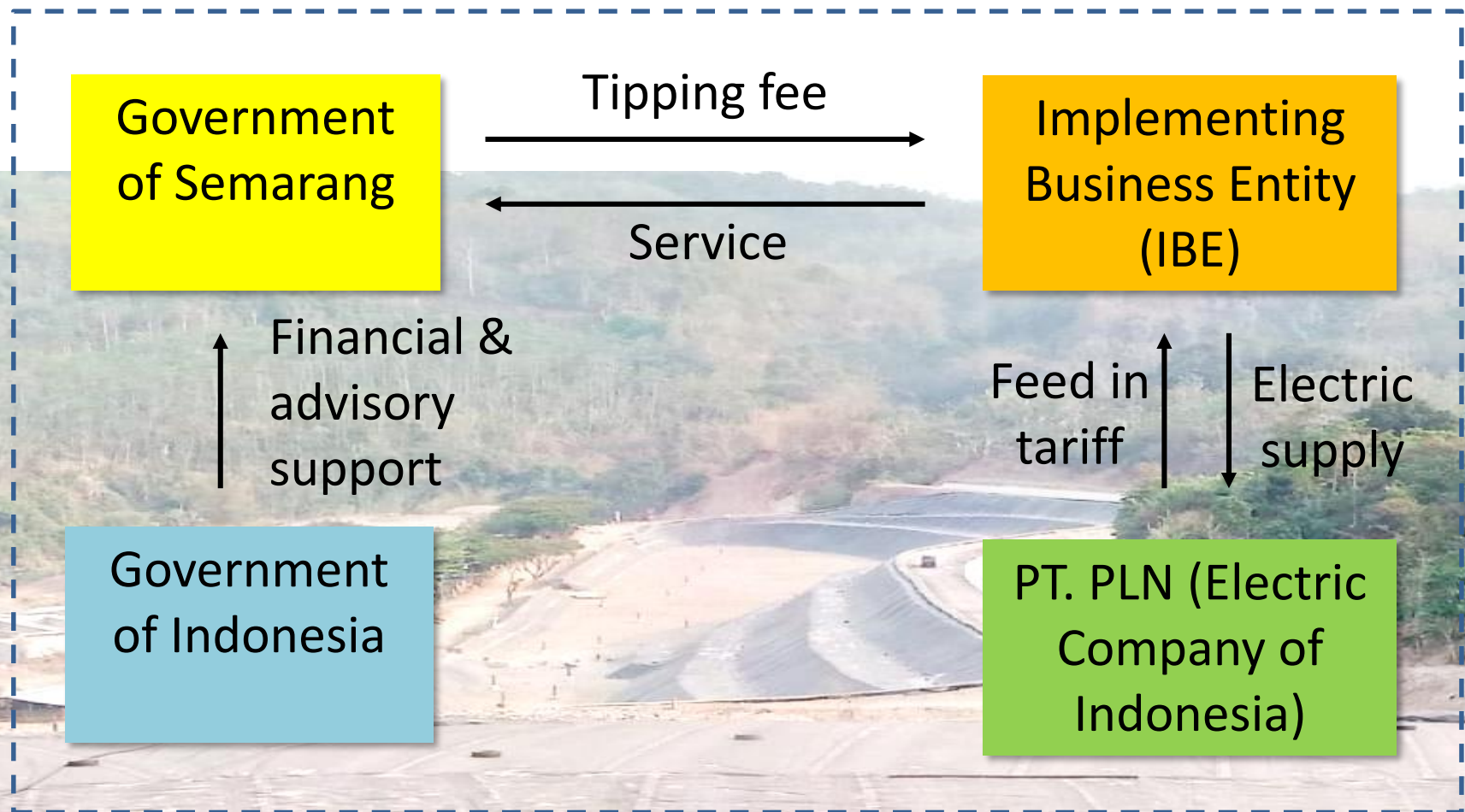


Provision of new
waste treatment
facility will be the
replacement of
the existing
overloaded
landfills

Institutional Setting

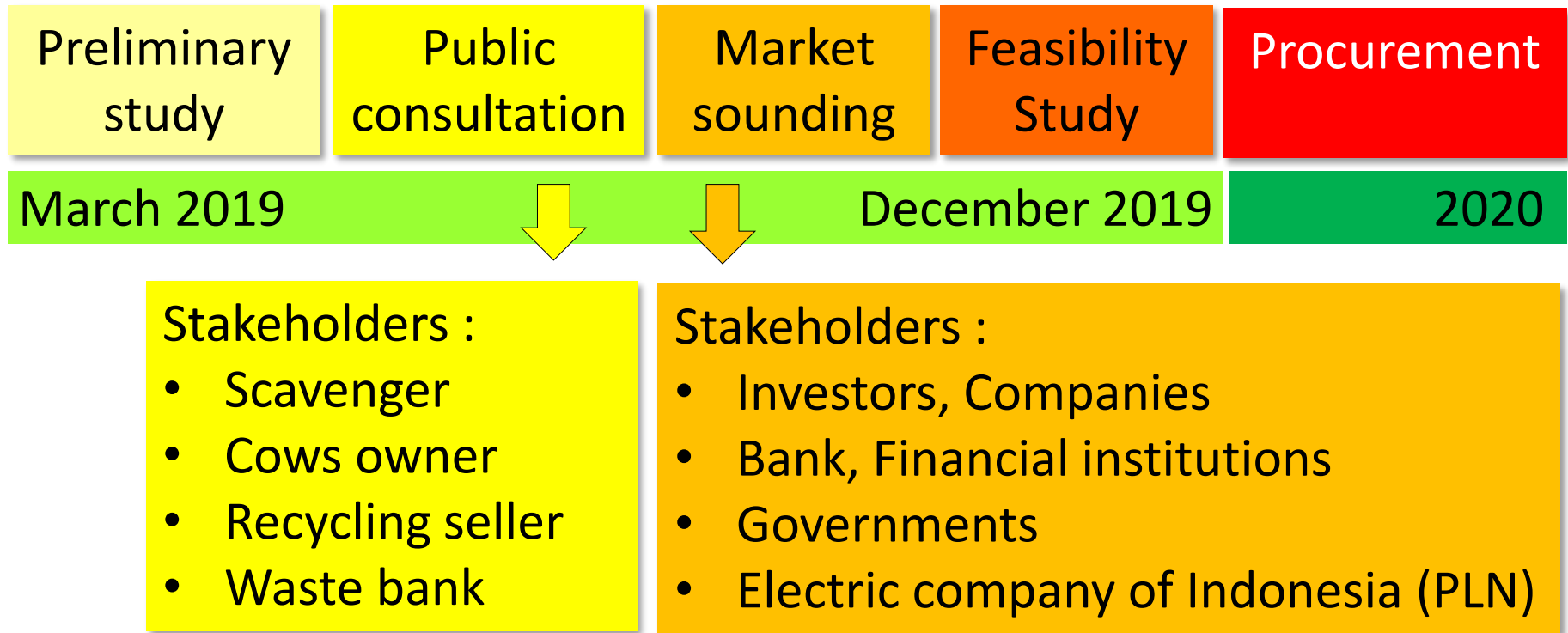
Under the President Regulation 35/2018 (Waste to Energy)

Public Private Partnership (PPP) scheme



Approach

Timeline update progress



Participation, Communication, Coordination



Outputs



Reduction of the amount of waste by a minimum of 80%



Environmental friendly landfill
Integrated waste management in the landfill



Generate electric supply of 17 MW

President Regulation of WtE and Public Private Partnership (PPP) scheme that is used ensure the **value for money** principal for this WtE project to lead to a sustainability of this project

Lessons

WtE is a very new thing especially for local government.

- Therefore we must be careful and patient in this preparation phase

Limited fiscal capacity of local government make us being

- dependent to the national government subsidi and having limited choice of affordable technology

Dilemma on executing the reduce waste program in the upstream (targeted 30% reduce of waste in 2024 – national & local official policy & strategy) while in the other hand, we have to ensure the minimum supply of waste to the landfill to fulfil minimum requirements from the WtE plant



Transfer

- Preparing high quality study on waste management including projection of waste growth and detail condition of existing waste management. The characteristic of solid waste composition in most of Asian & African countries is hardly to meet minimum requirements of generating electricity
- Choose the most suitable waste management strategy and make the right policy

DO IT NOW

