

JCM subsidized project in Thailand

“Introduction of Biomass Boiler to Cooking Oil Factory”

25th August 2020

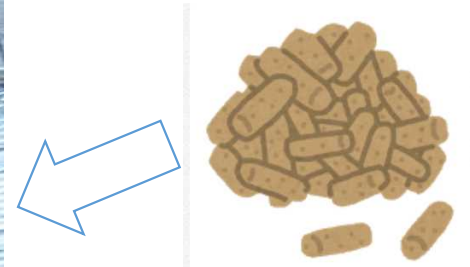
Tepia Corporation Japan

Installed equipment in the project

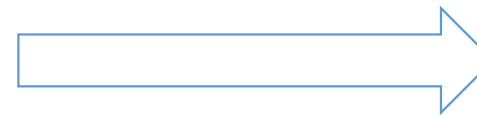


Multi Fuel Biomass Boiler

(Water Tube-Fire Tube Combination Boiler with Step Grate)



Biomass Fuel:
PKS (Palm Kernel Shell)



Steam(35 t/h) used
to refine ^{ဆီ} ဂျီနီ ချော
Cooking Oil



Roles of TEPIA and TVOP in the JCM project



Collaboration Model Case
between Thai Company
(Not Japanese affiliated)
and Japanese Company



Tepia Corporation Japan (TEPIA)

Thanakorn Vegetable Oil Products
Co., Ltd. (TVOP)

Type of Business

Research & Consulting Company
in Japan

Vegetable Cooking Oil
Manufacturing in Thailand

Roles of each entity
in the JCM project

“Representative Entity”

- Preparation of Proposal for JCM subsidy
- Advisory from Environment consultant perspective
- JCM Project registration
- Periodical Monitoring Report to Japanese Government

“Cooperative Entity”

- Maintain* subsidized equipment (Biomass Boiler) to be used in designated term (10years)
* Maintenance Contract with EPC
- Monitor steam production amount and electricity usage and report to TEPIA

TEPIA and TVOP are collectively responsible to Japanese Government for the project execution until 2030.

Current Status of the Project



No.	Event	Status (Expected Timing)
1	Construction of the Biomass Boiler (Start Steam Production)	Done (2019/11/14)
2	Periodical Monitoring Report to Japanese Government (yearly)	First year : Done (2020/3/31) will continue until 2030/3/31
3	JCM Methodology Development	Under development (The Draft of methodology has been developed) <Expected timing: 2021 March>
4	Project Design Document (PDD) Development upon Organize Local Stakeholders Consultation (LSC), Validation by Third Party Entity (TPE)	Not yet <Expected timing: 2021 September>
5	JCM Project Registration (Registered by Japan-Thailand Joint Committee)	Not yet <Expected timing: 2022 March>
6	First JCM Credit Issuance upon Verification by TPE	Not yet <Expected timing: Middle of 2022>
7	Last JCM Credit Issuance upon Verification by TPE	Not yet <Expected timing: 2030>

CO2 emission reduction of the project

Boiler Efficiency + Fuel Switching

<Project Model>

Biomass Boiler with
Sufficient Efficiency (84%)

Biomass Fuel (PKS), which
emission factor is “0”

<Reference Model>

Conservative Reference

High-end model
Once through Boiler

Natural Gas

—)

Annual expected CO2
emission reduction volume : 29,759 t CO2 / year

Effect and Countermeasure to COVID-19

- Had a certain damage for the business, however, business transaction has been resumed with “New Normal”
 - MRV (Monitoring) Risk: Automatic monitoring by SCADA system
 - Biomass Procurement Risk: Multi Supplier Procurement
 - On-site Audit(for project registration) Prohibition Risk
: Conduct Zoom Conference

We are preparing for further project development

Thank you very much for your kind attention.



This document has been prepared by Tepia Corporation Japan for Webinar on the Joint Crediting Mechanism (JCM) Implementation in Thailand 2020 – Utilizing the JCM during the COVID-19 Period – organized on 25th August 2020. If you have any questions, please visit our website www.tepia.co.jp/english/, and send message from Inquiry Form. Please use the information in this document at your own discretion. While we strive to provide the highest level of accuracy to the users, we cannot be held responsible for any loss associated with the use of this document.