



Tha Bar Wa
A sustainable future for industry

Tha Bar Wa

**Catalysing Sustainable Water and Energy Management
in the Food and Beverage Industry
in the Ayeyarwady River Basin**

switchasia
GRANTS PROGRAMME



Funded by
the European Union

Implemented By



S Finanzgruppe
Sparkassenstiftung für
internationale Kooperation



MFPEA
Myanmar Food Processors &
Exporters Association



“Tha Bar Wa” in a nutshell

- Four-year project (Feb 2018 - Jan 2022)
- Funded by the European Union
- Part of the wider, regional EU SWITCH-Asia Programme on SCP
- Implemented by:
 - WWF (lead)
 - Myanmar Food Processors and Exporters Association (MFPEA)
 - Savings Banks Foundation for International Cooperation (SBFIC), Germany



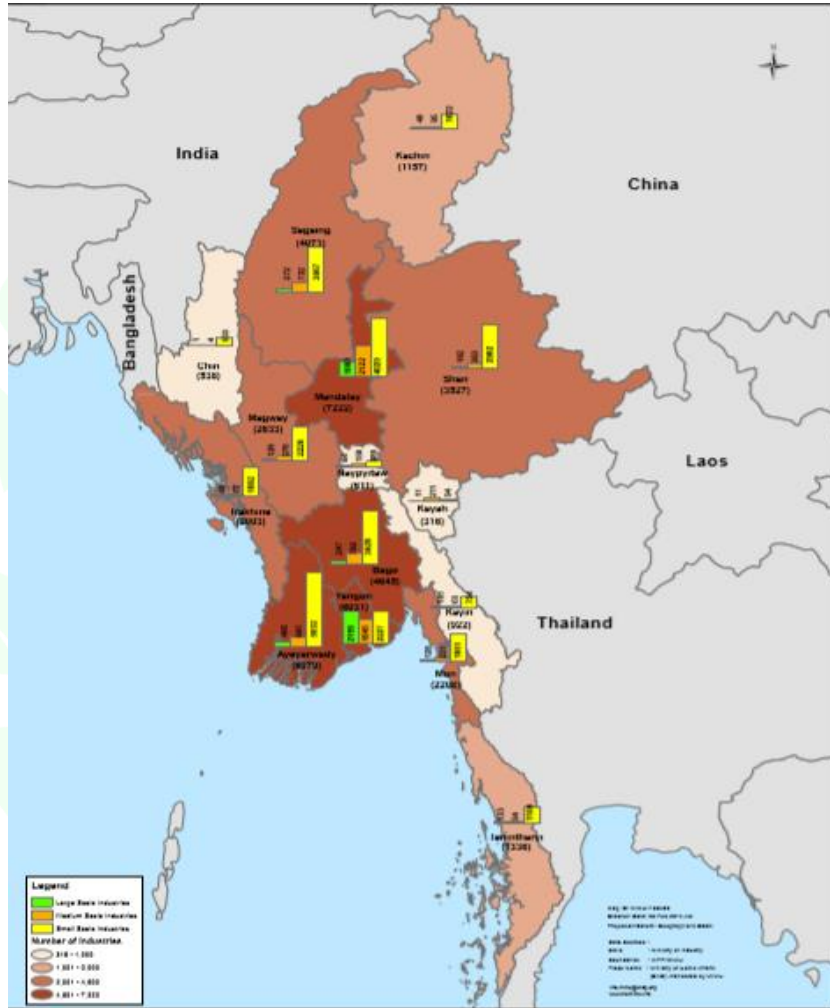
The **overall objective** of the project is to improve & demonstrate an enabling environment for cleaner production.

Specific Objective:

The project strives to improve environmental policies, build capacities of industry and government for cleaner production and pilot green finance products the by 2022.



Why "Tha Bar Wa"



- 60% of the companies in Myanmar are in the F&B sector
- 89% of Myanmar's F&B companies = SMEs
- Manufacturing expected to account for ca. 70% of Myanmar's growth in 2030
- Energy: Annual increase in industrial power demand is 19%.
 - Hence, we need to generate an additional 500 MW of energy per year
- Water: Wastewater treatment is a legal requirement
 - *But only 5% have a functioning wastewater treatment system*

→ F&B SMEs are & remain crucial for the country's (sustainable) development



Strategic components



Project Results

Policy

1 policy and 2 sector-wide guidelines for sustainable energy and water management are being supported

Capacity and markets

200 SMEs of the F&B sector and associated business intermediaries have gained knowledge and capacity to implement sustainable water and energy management practices

Green Finance

Three financial institutions have enhanced capacity and organizational structures to assess and increase green SME lending

Replication

The cleaner production model is replicated in other region and lessons are shared across Southeast Asia



Strategic components: 1. Policy

- 1 policy and 2 sector-wide guidelines for sustainable energy and water management



Progress and current status

- A formal document on formulation of multi stakeholder working group in the F&B sector has been approved by ECD. The first meeting will be schedule soon.
- Advertisement of ToR for consulting support in making EMP strategy and roadman document



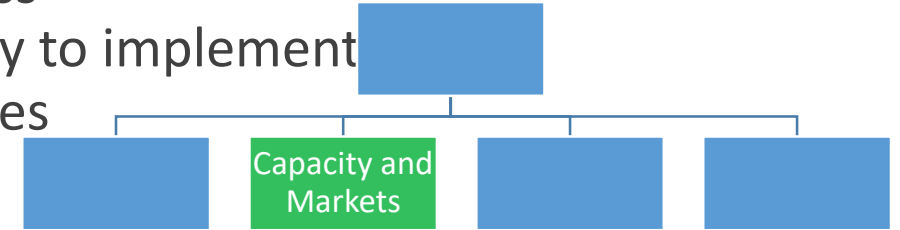
Strategic components: 2.Capacity and Markets



- 200 SMEs of the F&B sector and associated business intermediaries have gained knowledge and capacity to implement sustainable water and energy management practices

Progress and current status

- Three awareness workshops on cleaner production with more than 100 enterprises in Yangon, Mandalay and Pyin Oo Lwin organized.
- Two energy efficiency workshops organized involving more than 80 enterprises.
- Trained professors and 26 enterprises on waste water treatment plants assessment and designs.
- Two factories have implemented waste water treatment plants.
- Five designs on waste water treatment plants are finalized for five factories and they are in the process of implementation.
- In-depth trainings of ToT on energy efficiency is planned from 18th July to trained consultants on EE and audits.



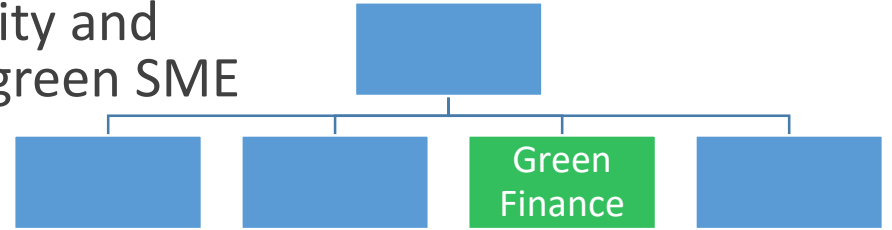


Strategic components: 3. Green Finance

- Three financial institutions have enhanced capacity and organisational structures to assess and increase green SME lending

Progress and current status

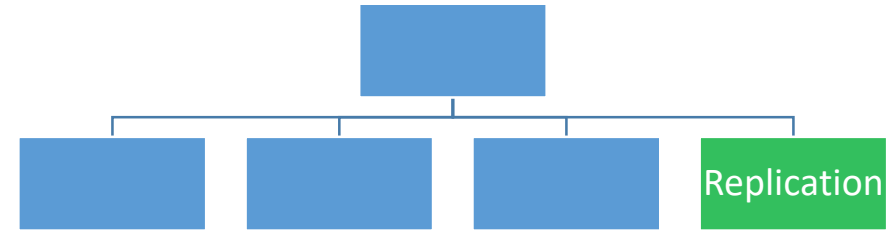
- Selection of four banks CB, MAB, MCB and A-Bank and signing of MOU's with Tha Bar Wa
- Engagement with all four banks banks in the areas of Green Finance Training, SME Finance, Cash Flow Lending.
- Support in SME Human Resources for Banks.
- Defining and setting up Green Finance Products in banks.
- Networking of SME's, Tha Bar Wa, RBF, Suppliers and Banks for marketing.
- Selection of three solar equipment suppliers, one gasifier company and three waster water management companies and signing of MOU's with two banks.
- Training to banks personnel by the suppliers on their products.
- Two banks trained staff of the suppliers on the banking products.
- One Hire Purchase Solar power bank product setup by one of the banks





Strategic components: 4. Replication

- The cleaner production model is replicated in other region and lessons are shared across Southeast Asia



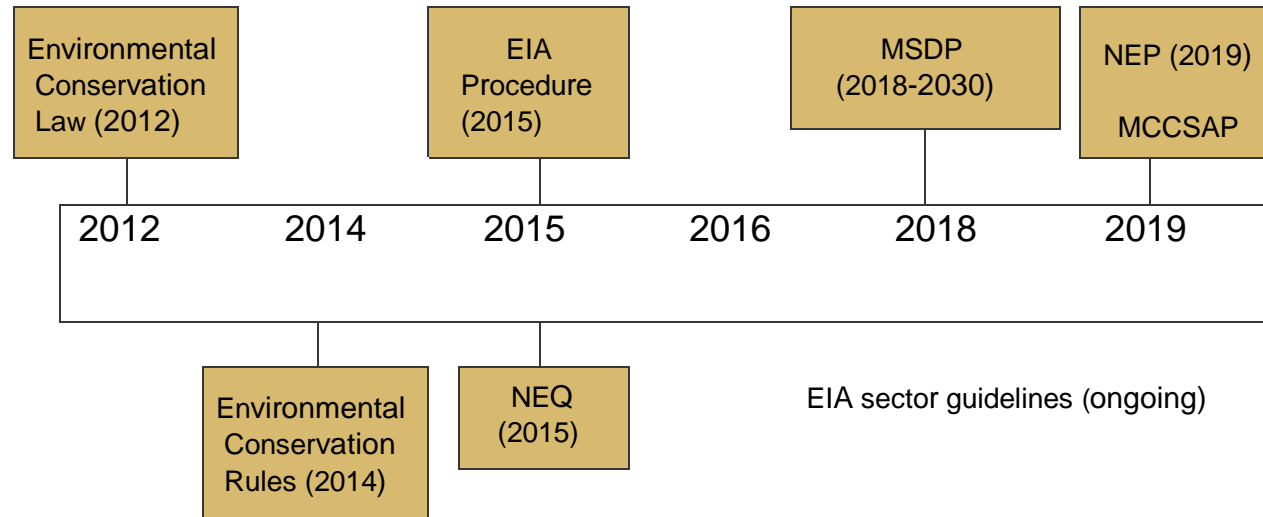
Forthcoming

- ❖ A compendium of energy efficiency improvement opportunities for the F&B industries
- ❖ Integration of training content on energy and water management into curricula of educational institutions
- ❖ An online tool/ information sharing portal for waste water management





Policy and legal framework for environmental management



- The EIA Procedure (2015) sets out specific requirements for scoping EIA, initial environmental examination (IEE), and environmental management plan (EMP);
- Defines roles and responsibilities of the ECD and project proponent; and sets penalties for violating these requirements.



Current Scenario

- Business projects obtain approval from MIC before submitting the project proposal to the ECD to determine whether an EIA, IEE, or EMP is required.
- In January 2018, the ECD issues formal notification to factories in nine priority sectors including F&B (Notification No. 3/2018) to develop EMPs within 9–12 months.





Screening: (F&B sectors)

N o.	Type of Economic Activity	Criteria for IEE Type Economic Activities	Criteria for EIA Type Economic Activities
1	Slaughter house	Daily production rate 15 ton - 50 ton	Daily production rate \geq 50 ton
2	Fisheries	15 ton - 75 tons	\geq 75 tons
3	Food & Beverage processing	10 ton - 20 tons	\geq 20 tons
4	Dairy	\geq 200 tons	
5	Animal feed	100 ton - 300 tons	\geq 300 tons
6	Vegetable oil	100 ton - 300 tons	\geq 300 tons
7	Rice, Wheat flour	100 ton - 300 tons	\geq 300 tons
8	Sugar	50 ton - 300 tons	\geq 300 tons
9	Soft Drinks	\geq 20000 lits	

EMP Notification letter to SMEs in nine sectors (January 2018): Food and Beverages \geq 10 tons



Quality of EIAs, IIEs and EEM and responding/ approval process

Report	Quality of report submitted (from EIA Division Survey)	Requirement of EIA Procedures (2015)	Response time (reported by companies and consultants)
Project Proposal Report (PPR)	PPR is not always submitted or has limited information.	Decision on whether an EIA/ IEE/EMP is required within 15 working days.	Responses usually take between 2 and 3 months.
Scoping report for EIA	46% of staff reported that scoping reports were of poor quality.	Provide comments within 15 working days.	Responses usually take between 1 and 6 months.
EIA	54.6% of staff reported poor quality, 36.4% reported acceptable quality, and only 9.1% reported good quality.	ECD to provide comments within 90 working days.	Between 6 and 12 months and some EIA still awaiting comments.
IEE	No staff reported very good or good quality, 37.5% reported acceptable quality, 56.3% reported poor quality, and 6.3% reported very poor quality.	ECD is required to issue a decision within 60 days.	4 to 12 months to receive a decision, in some cases up to 2 years.
EMP	66.7% of staff reported that EMPs were acceptable, 25% poor, and 8.3% very poor.	ECD is required to issue a decision within 30 working days	Between 3 and 12 months.



Environmental Challenges for F&B sector

- Conflicting mandate of institutions charged with implement and monitoring of EIAs and EMPs.
- Reliable and access to data and information posing obstacles to baseline determination.
- EMP requirements are little understood by F&B entrepreneurs, especially small and medium enterprises.
- Factories especially small and medium sized have challenge to comply due to the limited resources and capacity for owners to develop EMPs and install wastewater treatment plants.



Project Milestones 2018 -2019

May 2018: Project launch



June 2019: Awareness workshop





Thank you

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