

Wednesday 28 August | 11:00-12:30 Room: M6

WWF

Bankable Water Solutions for Food and Beverage Companies in Myanmar

WHAT MAKES THE AYEYARWADY RIVER **UNIQUE?**



PYAY

THE SEDIMENT LIFELINE

Between 261 and 354 million tons per year of suspended sediment coarse through the Ayeyarwady's waters every year. This sand, stone and rock are a lifeline and the main enabler of the Ayeyarwady's nutrient rich delta, which is home to the largest concentration of people, fish and fields of rice paddies in the country.

INVALUABLE SERVICES

The river has many other natural dynamics or ecosystem services including provisioning, regulating and supporting cultural services that take place in the Ayeyarwady Basin, supporting irrigation, inland water transport, fisheries, aquaculture, potable water supply, biodiversity, and ecotourism. These were recently quantified in the State of the Basin Report (2018) to be worth 2-7 billion USD a year. These ecosystem services equate to between 6% and 16% of GDP per capita in Myanmar. Additional significant values not calculated include the value of hydropower as well as positive and negative impacts of floods on the river system and ecosystem services. This document attempts to further identify what values these ecosystem services provide towards the economy and society of Myanmar.

• Length 2170 km Area 413,710km2 • 91% lies in Myanmar, 5% in China, 4% in India

A BIG RIVER

THE BASIN

PEOPLE LIVE

THE RIVER'S BASI

- The ARB (Ayeyarwady River Basin) is the largest and most economically significant river in Myanmar It covers 61% of the country's landmass.
- · 5 of Myanmar's largest cities are in the basin

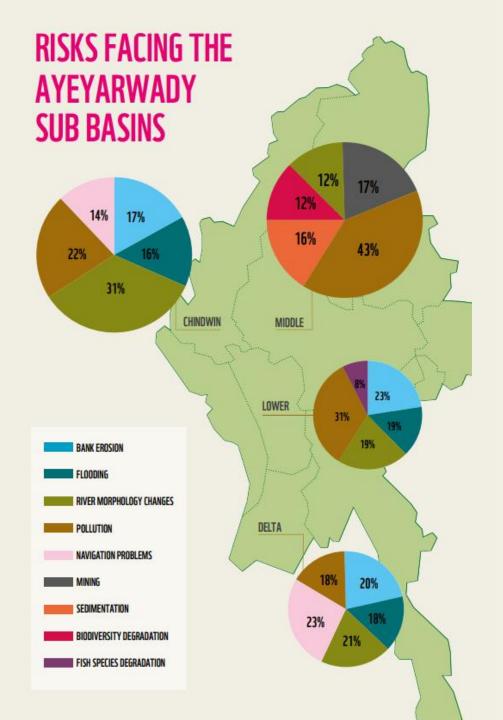
34 MILLION PEOPLE

- The basin is home to 66% of Myanmar's population (34 million people)
- On average, there is 79 people per km2 living in the basin
- . The majority of these people live in the Ayeyarwady's agricultural heartlands, the dry zone and the delta - particularly in Yangon and Mandalay

BIODIVERSI

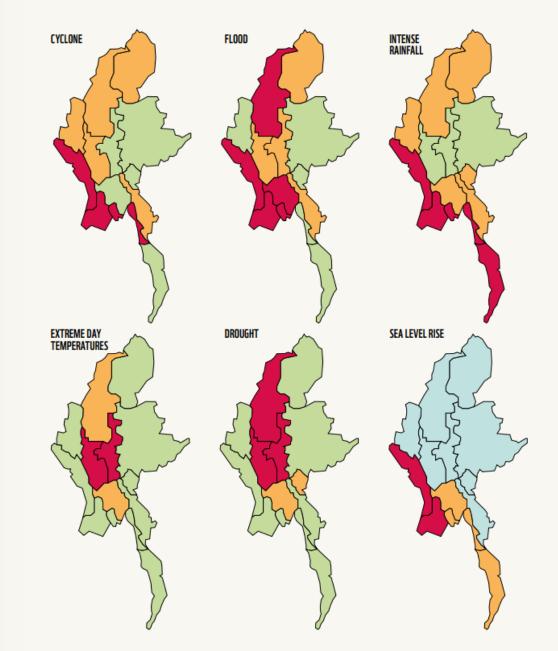
- · One of the most biologically diverse regions in the world
- around 1,400 mammal, bird and reptile species
- · More than 100 of these species are globally threatened
- 388 identified species of fish
- 50% of these fish endemic to the Ayeyarwady River
- · Each time the river is surveyed, new species are discovered





WHAT AND WHERE ARE THE CLIMATE Change Risks Facing Myanmar?







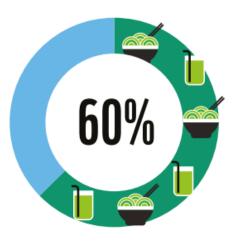
HOW DO DIFFERENT SECTORS DEPEND ON THE AYEYARWADY?



AND WHAT ARE THE IMPACTS?



Food and Beverage Industry









60% of companies in Myanmar are Food & Beverage producers Less than 5% have functioning waste water treatment Food and Beverage companies in Myanmar are one of the largest consumers and polluters of water and energy 89% of the country's Food and Beverage companies are small and medium-sized enterprises (SMEs)



(27,113 registered factories nationwide)



Tha Bar Wa

A sustainable future for industry

This project promotes cleaner production in food and beverage industry by promoting:



Wastewater treatment plants

2 Energy efficiency

3 Renewable energy



Cleaner Production Solutions

It supports factories to design, finance and implement cleaner production solutions.



Technical Skills

It builds technical skills and know-how of local experts on cleaner production



Develops a roadmap

It works with the government to develop a roadmap for cleaner production guidelines



Financial Products

It supports financial institutions to offer banking products designed specifically for cleaner productions

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Myanmar Flats Industrial Waste Water Treatment Pre-feasibility study





FMO will provide seed funding to promote green technologies for industrial wastewater treatment and identify innovative investment options to improve the treatment of industrial wastewater and reduce the discharge of pollutants in the Irrawaddy river basin.





Tha Bar Wa

A sustainable future for industry



OUR DONOR:



MFPEA Myanmar Food Processors & Exporters Association Finanzgruppe

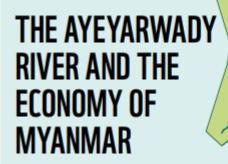
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Funded by the European Union

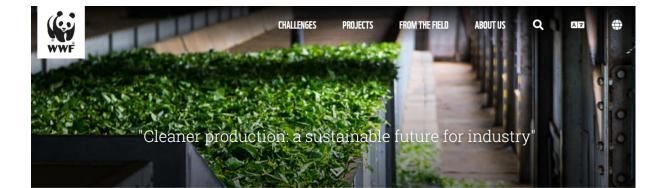




REPORT

2018

VOLUME 1: RISKS AND OPPORTUNITIES FROM THE Perspective of People Living and Working in the Basin



PROJECT: THA BAR WA

Tha Bar Wa

Catalysing sustainable water and energy management in Food and Beverage Industries in the Ayeryarwady River Basin

http://www.wwf.org.mm/en/thabarwa/





Bankable Water Solutions

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https://wwf.panda.org/our_work/water/bankable_projects/

