A WHOLE LOT OF MANGROVES ARE DESTROYED EVERY YEAR

3.

WHAT IS AQUACULTURE?

Aquaculture is the farming of aquatic organisms. Any climate change mitigation efforts involving mangroves should include well-managed and conservative aquaculture development, as it plays an important role in sustainable coastal livelihoods.

40% of Indonesian mangroves were destroyed in the last 3 decades, mainly due to aquaculture.

3.14 billion

Total carbon stored in Indonesian mangroves, in tonnes

Number of years it would take Indonesia to emit that much carbon in fossil fuel usage, at 2011 levels:

190,000,000 t CO₂-EQ

Annual emissions from Indonesian mangrove destruction:

That's the same amount of emissions every car in Indonesia drove around the world twice (at 2011 Indonesian passenger car levels)

Fast Facts: Mangrove Forests

52,000ha

of Indonesian mangroves were destroyed in the last 3 decades, mainly due to aquaculture

of Indonesia’s 26% emissions reduction target for 2020...

...equivalent to 40,000,000 fewer cars on the road

References:

Center for International Forestry Research (CIFOR)

Cut emissions, not mangroves: Indonesia’s best hope for slowing climate change

Additional references:

- Available for download: http://dx.doi.org/10.1038/nclimate2734
- http://epa.gov/cleanenergy/energy-resources/calculator.html
- http://quandl.com/data/STATS_INDONESIA/NUM_MOTOR_VHCL_TYPE_INDONESIA
- http://nature.com/articles/ngeo1123

Illustration & design: Jim O’Neill

Abbreviations:

CI ¼ climate information; CIFOR ¼ Center for International Forestry Research; CO2 ¼ carbon dioxide; CO2-EQ ¼ carbon dioxide equivalent; DEVO ¼ Department of Environmental Affairs, South Africa; EU ¼ European Union; FZS ¼ Federation of Zoological Societies of Germany; GWP ¼ Global Warming Potential; PE ¼ Partnerships for Effective Aid; Tg ¼ teragrams; t ¼ tonnes; tCO2-EQ ¼ tonnes of CO2 equivalent; UNFCCC ¼ United Nations Framework Convention on Climate Change; UNESCO ¼ United Nations Educational, Scientific and Cultural Organization; UNESCO MAB ¼ UNESCO Man and the Biosphere Programme; UNOPS ¼ United Nations Office for Project Services; USGS ¼ United States Geological Survey; WBCSD ¼ World Business Council for Sustainable Development; WBCSD-MA ¼ WBCSD’s Marine and Aquaculture Project; WCMC ¼ Wetlands Coordinating Mechanism; WCMC-MA ¼ WCMC’s Marine and Aquaculture Project; WWF ¼ World Wildlife Fund; Yale School of Forestry and Environmental Studies; Yale-NUS College; Yale-NUS-MA ¼ Yale-NUS College’s Marine and Aquaculture Project.