

# 5 STOPPING MANGROVE DEFORESTATION MAKES A WHOLE LOT OF SENSE

REASONS FOR CLIMATE CHANGE MITIGATION IN INDONESIA

## 1. INDONESIA HAS A WHOLE LOT OF MANGROVES

Indonesia has:

**2,900,000**

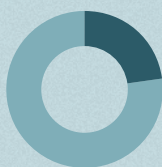
HECTARES  
OF MANGROVE  
FORESTS

AN AREA ALMOST THE SIZE OF

**Belgium**



Belgium = 3,053,000 ha Map adapted from: earthobservatory.nasa.gov



Almost 1/4 of all mangrove ecosystems on earth

## 3. A WHOLE LOT OF MANGROVES ARE DESTROYED EVERY YEAR

**52,000ha**

of Indonesian mangroves disappear every year, an area the size of **New York City** every 18 months



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

### 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.

## 2. MANGROVES STORE A WHOLE LOT OF CARBON

Per hectare, Indonesia's mangrove forests store **more than**

**5X** the carbon of upland forests

Out of all carbon stored globally in coastal ecosystems, Indonesian mangroves store:

**1/3**

**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:

**20**

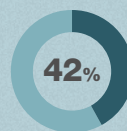
## 4. THIS DEFORESTATION RELEASES A WHOLE LOT OF CARBON

Annual emissions from Indonesian mangrove destruction:

**190,000,000** CO<sub>2</sub>-EQ

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

**9.5M x 2**



of annual global emissions from the destruction of coastal ecosystems are from the destruction of Indonesian mangroves. 'Coastal ecosystems' includes marshes, mangroves & sea grasses

## 5. HALTING MANGROVE DEFORESTATION COULD MAKE A WHOLE LOT OF DIFFERENCE TO CLIMATE CHANGE

Stopping mangrove destruction could meet

**1/4**

of Indonesia's **26%** emissions reduction target for 2020...



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

### References:

Illustration & design: Jim O'Neill

#### Cut emissions, not mangroves:

Indonesia's best hope for slowing climate change  
[blog.cifor.org/31112](http://blog.cifor.org/31112)

#### Available for download:

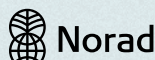
<http://dx.doi.org/10.1038/nclimate2734>

#### Read more:

[blog.cifor.org/wetlands](http://blog.cifor.org/wetlands)

#### Full infographic and additional references:

[blog.cifor.org/31193](http://blog.cifor.org/31193)



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