



# GPNM Nutrient Policy Session

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1. the main challenges with respect to nutrient management,
2. key national policy interventions to address the challenges, and
3. priority issues that remain to be addressed.



- Untreated waster is unwittingly released to water due to lack of understanding
- Weak in enforcement of laws
- Lack of competent personnel in local government
- Lack of willingness to pay
- Laws do not apply to all types and sizes of water pollution sources
- Clean technology practice is still limited.
- Zoning system is not implemented.

### • Learning center

- Code of Conduct
- 3R (Reduce, Reuse, Recycle)
- Decomposer



### • Public education

- Policy maker
- Officers
- Public

### • Research

- Clean technology

### • Monitoring

- Sea water & sediment

## Nutrient Reduction Strategies

### Weakness / Challenges

### Capacity building

### Priority issues

### Key National Interventions

#### Point sources

#### Non-point sources

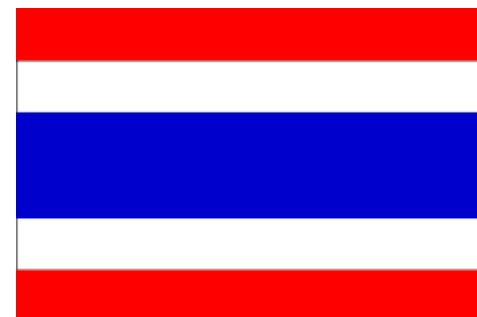
- Coastal communities, pig farms, shrimp farms, industrial plants
- Significant impact during wet season (runoff) in the inner

- Agricultural areas (paddy fields, para rubber plantations, palm oil, vegetable plots, orchards, rural areas)
- 2-7 times (BOD, nitrogen, phosphorus)

- Waste water management system in metropolitan area
- Small scale waste water management system for municipality & Local Administrative Organization
- Waste water treatment for industries
- Participatory Management
- Incentive program for public sectors

GOT





1. Wastewater is treated to meet the standard of the Ministry of Natural Resources and Environment for 0.555 million m<sup>3</sup> per day in the year 2017.
2. Wastewater treatment systems in the wastewater management areas including the collection systems and small-scale treatment systems are constructed and managed with efficiency in 21 areas by the year 2017.
3. Central wastewater treatment systems under the local administrative organizations are developed and efficiently managed in 35 areas by the year 2017.

