



USAID
FROM THE AMERICAN PEOPLE



Lutheran World Relief
SUSTAINABLE DEVELOPMENT. LASTING PROMISE.



Building Resilience to Coastal Hazards through Mangrove Rehabilitation

RESULTS

- **More than 850 hectares** of land in Simeulue and Singkil districts are protected under **natural resource management and village environmental regulations**.
- **Reforestation efforts resulted in new tree coverage of 290 hectares of land**, along with the reintroduction of 11 ecologically appropriate mangrove species to the area.
- Natural resource management committees developed **risk and asset maps and natural resource management (NRM) plans, including village environmental regulations** that prohibit mangrove cutting, determine the minimum weight for fish and crabs that can be fished and consumed, among other environmental considerations.
- 10 participant village governments approved and incorporated village environmental regulations, which levy a fine for non-compliance.

RESILIENT COMMUNITIES

- **More than 8,600 people** in 2 districts are **more resilient to the effects of natural disasters and climate change** as a result of effective mangrove rehabilitation, community-led DRR activities and promotion of sustainable, eco-friendly livelihood opportunities.
- Innovative, **engaging environmental and disaster risk management education** developed and promoted in primary and secondary schools to **educate the next generation of leaders on the importance of sustaining healthy coastal mangrove forests**. The Department of Education endorsed the project-developed curriculum and has used it in over 100 schools in Simeulue and Singkil districts.
- Nearly 900 community members are **engaged in alternative livelihood** opportunities, including organic vegetable gardening, fish production and fruit harvesting, which are economically viable and **sustain the impact of mangrove rehabilitation**.



Lutheran World Relief's partnership with USAID has strengthened the resilience of communities in Simeulue and Singkil districts to the effects of natural disasters and climate change by:

- Formulating disaster risk reduction (DRR) action plans to better protect coastal populations from natural disasters
- Improving community understanding and action to effectively manage natural resources
- Identifying and promoting environmentally-friendly, alternative livelihood opportunities

LWR began working in Indonesia in 2004 following the devastating Indian Ocean tsunami. With a total budget of more than \$19 million for tsunami relief and recovery efforts in Indonesia and neighboring countries, LWR developed a 10-year plan to rehabilitate affected areas and build community resilience to future natural disasters.

In partnership with local organizations, LWR works to build resilient communities throughout Asia. In fiscal year 2012, LWR's emergency response and climate change adaptation programming in the region totaled nearly \$9.4 million, reaching beneficiaries throughout Asia and bridging immediate relief programs with long-term recovery efforts.

PROJECT NAME: Increasing Coastal Resiliency and Climate Change Mitigation through Sustainable Mangrove Management in Sumatra (CADRE)

PROJECT PERIOD: May 2011 – May 2014

FUNDING: \$1,148,857 (USAID) and \$213,840 (LWR)

700 Light Street | Baltimore, MD 21230 USA
800.597.5972 | programs.lwr.org