Title of case study	**Technologies that build climate resilience**
Name of organization(s)	**General Electric**
Business sector	Water Management
Region(s) relevant to case study	☐ All regions ☒ Africa and the Arab States ☒ Asia and the Pacific ☐ Caribbean and Central America ☐ Europe ☐ Least Developed Countries ☐ North America ☐ Polar regions ☐ Small Island Developing States ☐ South America
Country(s) relevant to case study	India, China, Algeria
Adaptation sector(s) relevant to case study	☐ Business ☐ Education and training ☐ Food security, agriculture, forestry and fisheries ☐ Human health ☐ Oceans and coastal areas ☐ Science, assessment, monitoring and early warning ☐ Terrestrial ecosystems ☐ Tourism ☐ Transport, infrastructure and human settlements ☒ Water resources ☐ Other (please specify):
Adaptation activity	GE's Water & Process Technologies Division develops, installs, and maintains technologically advanced water equipment. Its business is centered on technologies for processing industrial and municipal wastewater and is evenly split between chemical treatment and the sales of equipment. Approximately 30 percent of its revenue comes from serving municipalities, while the remaining 70 percent stems from industry sectors such as wastewater treatment from steel mills and food and beverage plants. GE's water management technologies and services create high-quality jobs in the US while supporting

	vulnerable communities around the world as they respond to drought, water scarcity, and water quality issues. GE is working with the Indian government to address the country's growing energy requirements and water management problems. India needs to build 60,000 megawatts of generation capacity to meet rising energy demand, but lacks an adequate water supply for these facilities. GE is exploring the use of treated wastewater, which would help alleviate water shortages while mitigating the country's sewage treatment problem. In China, GE is working to supply clean drinking water to communities. One concept utilizes GE-developed mobile water treatment plants, which are housed in large trucks and can purify water supplies for a large village or can be taken to multiple smaller villages where water is produced and stored in tanks. Water units are being evaluated by the Chinese government as part of its national development strategy. These mobile water filtration plants are also used for disaster relief situations and temporary outages. As part of the same initiative, GE worked successfully with an Indian manufacturer of water filtration technology to develop and disseminate water kiosks that supply drinking water for a small cost to consumers. Potential partners, such as the Safe Water Network, are working with banks and other organizations to structure a microfinance plan that will allow entrepreneurs to buy kiosks to serve as the "storefront." GE recently finished construction of Hamma, a large desalination plant in Algeria that will provide 25 percent of drinking water for Algiers, the capital and largest city in Algeria. GE continues to invest in the next generation of desalination technology that will reduce energy consumption, as well as building the resilience of local communities against climate-induced water shortages.
Cost-benefit	GE has engaged in a series of pilot projects to work with local businesses and municipalities to identify market needs and business models that will yield large-scale reach and impact while empowering partners on the ground. By creating new, innovative business models, as well as new treatment technologies, GE is developing sustainable solutions for this type of market that can be replicated in many parts of the world.

Case study source(s)	A Fresh Look at the Green Economy: Jobs that Build Resilience to Climate Change (Oxfam) The New Adaptation Marketplace - Climate Change and Opportunities for Green Economic Growth (Oxfam)
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