



VOLTA LAKE PROJECT OVERVIEW

- CSRD is breaking new ground in applying innovative technological and business perspectives to harness and derive value from submerged trees that were, until recently, seen primarily as a transportation hazard. CSRD has already invested over \$10 million in preparation for commercial operations.
- Full build out of the industry over the next five years will result in \$100 million of new foreign investment in Ghana and the development of world-class timber processing and value added facilities on the shore of the Volta Lake.
- CSRD is committed to strong, ongoing collaboration with the Government of Ghana, local communities and NGOs.

CLARK SUSTAINABLE RESOURCE DEVELOPMENTS, LTD. (CSRD)

- A privately held Canadian company.
- Launched in 2005 to secure and operate licenses for harvesting timber from submerged forests.
- Founded by an experienced team with expertise and knowledge in international business, multi-stakeholder relations and the timber industry.
- Backed by strong financial support.
- Global leaders in an emerging industry.

MISSION

- To develop resources that create social and economic value while respecting and enhancing the environment.

APPROACH

- CSRD applies a triple bottom line (3BL) approach to make efficient use of our planet's natural resources, while benefiting local communities and generating financial value.

COMMITMENT

- The company is committed to creating value for key stakeholders including:
 - The country, local people and their communities
 - The environment
 - Investors, employees and local/international business partners

THE VOLTA LAKE PROJECT DETAILS

- CSRD is harvesting submerged trees from the Volta Lake under an agreement with the Government of Ghana and the Volta River Authority. The Project is fully financed by CSRD's private investors and does not involve any Ghana government financing
- The agreement gives CSRD rights to a concession of 350,000 hectares, which is less than half of the lake's 850,000 hectares. The harvesting will begin in the Afram Arm of the Lake.
- CSRD has established a Company in Ghana which is responsible for undertaking the Volta Lake Project and ensuring effective liaison with local governmental agencies, including the Environmental Protection Agency (EPA) and other stakeholders

PROJECT TIMELINE

The Parliament of Ghana ratified the agreement on the Volta Lake Project in Q3 2006. The Project has two phases:

- Phase one: This will run for three years, one year of planning and mobilization to enable CSRD to develop the systems and processes necessary to support an economically viable underwater timber harvesting and processing operation and two years of harvesting the trees
- Phase two: This is the commercial harvesting period of 15 years during which an integrated timber harvesting, processing, and marketing industry will be developed in Ghana.



TECHNOLOGY AND HUMAN RESOURCES

- CSRD has invested in the development of a commercial scale underwater timber harvesting operation, systematically bringing together leading edge practices and technologies from forestry, offshore oil and gas operations, marine engineering and advanced sonar and remote sensing techniques
- Teams of experts from Ghana and elsewhere in Africa, Europe and North America have been working simultaneously to develop: i) a detailed inventory of the submerged trees, ii) technology and equipment to harvest the trees, and iii) timber processing operations

ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA)

- CSRD is committed to meeting and exceeding all Ghanaian and World Bank-International Finance Corporation (IFC) standards for the Project's ESIA.
- A group of Ghanaian and international experts are currently undertaking a comprehensive ESIA for the proposed operation
- The ESIA will carefully identify and assess potential impacts and risks of the proposed operations. It will also provide clear guidance on how best to avoid and manage potential risks
- The ESIA will be completed and considered acceptable by the Environmental Protection Agency (EPA) before timber harvesting commences
- This assessment will help establish world-class social and environmental management and performance practices throughout these operations

STAKEHOLDER ENGAGEMENT

- CSRD has reached out to communities around the Afram Arm of the Volta Lake to educate them about the Project and discuss potential impacts
- CSRD continues to dialogue with environmental and Non Governmental Organisations (NGOs) committed to protecting the lake
- CSRD is working with the Volta Basin Research Project at the University of Ghana which has studied the Lake for over 40 years
- CSRD has an ongoing communications program that will reach out to all stakeholders and the general public to keep them informed about the project

BENEFITS TO GHANA

PRIVATE / FOREIGN INVESTOR CAPITAL

- The Project is financed with private foreign investor capital—representing direct foreign investment in Ghana. It is estimated that about US\$100 million worth of investment will be brought into Ghana
- The Government of Ghana has a 20% interest in the net value of the timber harvested from the Volta Lake's submerged forests. In addition, CSRD will pay corporate taxes to government

ENHANCING GHANA'S TIMBER INDUSTRY

- The Project will establish Ghana as a world leader in the underwater timber harvesting industry
- The Project will develop technologically advanced processing and other value-added capabilities in Ghana
- The Project presents the opportunity to extend industry into areas of the country where such industrial activity did not previously exist
- The Project aims to bring environmentally certified timber products from Ghana to the global market

JOBS

- The Project will create employment, training and business opportunities for hundreds of Ghanaians
- CSRD has begun work with local and international training agencies to develop a human resource development strategy that will equip local Ghanaians with the skills to work safely and efficiently in new jobs that will be created

VOLTA LAKE TRANSPORT SAFETY

- By harvesting submerged trees, which have caused fatal boat accidents on the Volta Lake in the past, CSRD will help make transportation on the Lake safer
- CSRD will work closely with the Government and other stakeholders to develop a comprehensive strategy to address Lake transportation safety issues

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