



Advance Contracting Notice

Date: 11 June 2012

Country/Borrower: **Philippines**

Title of Proposed Project: **Market Transformation through Introduction of Energy Efficient Electric Tricycle Project**

Name and Address of Executing Agency

Department of Energy
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Brief Description of Project:

Electric vehicles or e-vehicle represent a new technology with the promise to transform the way energy is used by today's internal combustion engine (ICE) vehicles. For net energy importing countries, such as the Philippines, electric vehicles can dramatically reduce the country's oil dependency, and improve long-term energy security. They are efficient, generate no harmful air and noise pollution and can be powered by indigenous renewable energy.

The Government plans to transform the nascent e-Trikes industry to an industry with at least three large e-vehicle manufacturers. Large reputable electric car (and battery) manufacturers are focused on bringing in the early adopter's family car (Nissan Leaf, Chevy Volt and Toyota Prius) with prices ranging from \$40,000 to \$50,000 to markets in Europe, the United States, and Australia. The Philippine vision is to transform the "base of the pyramid", the tricycles through technology leapfrogging, which is different from the global e-vehicle market. The combination of Lithium-ion battery technology and professionally designed e-Trikes to international standards will establish higher safety, environmental and efficiency principles across the value chain.

In April 2011, ADB successfully introduced, as a pilot, 20 locally made electric tricycles (e-Trikes) powered by imported Lithium-ion batteries in the City of Mandaluyong. Promising technical results has prompted the Government to scale-up the pilot program and use an early-adopter opportunity to establish a sustainable local e-vehicle industry.

The e-Trikes Project will be implemented nationwide with 100,000 tricycle drivers and operators as direct beneficiaries (including their households). Indirect beneficiaries include increased revenue and capacity due to possible business opportunities for tricycles and drivers associations/ cooperatives, distribution utilities and electric cooperatives, and private sector.

Brief Description of Goods and Related Services and Consulting Services to be Procured:

- i. 5,000 units of electric tricycles (e-Trikes)
- ii. Project Implementation Consultant (firm)

Date of Advance Action Approval: 25 October 2011