



MVOTMA

Ministerio de Vivienda
Ordenamiento Territorial
y Medio Ambiente

Solar Thermal NAMA in Uruguay

Climate Change Unit, DINAMA – MVOTMA Uruguay

Mexico DF – 12th December, 2013

Background

- Energy Policy (2005-2030)
- Law 18.585
- Solar Plan



Uruguay Solar Thermal NAMA

- A mandate of the Ministry of Housing, Land Planning and Environment (MVOTMA) will require all new houses built with public funds or tax breaks to be delivered with sanitary and construction planning, necessary for future installation of Solar equipment.

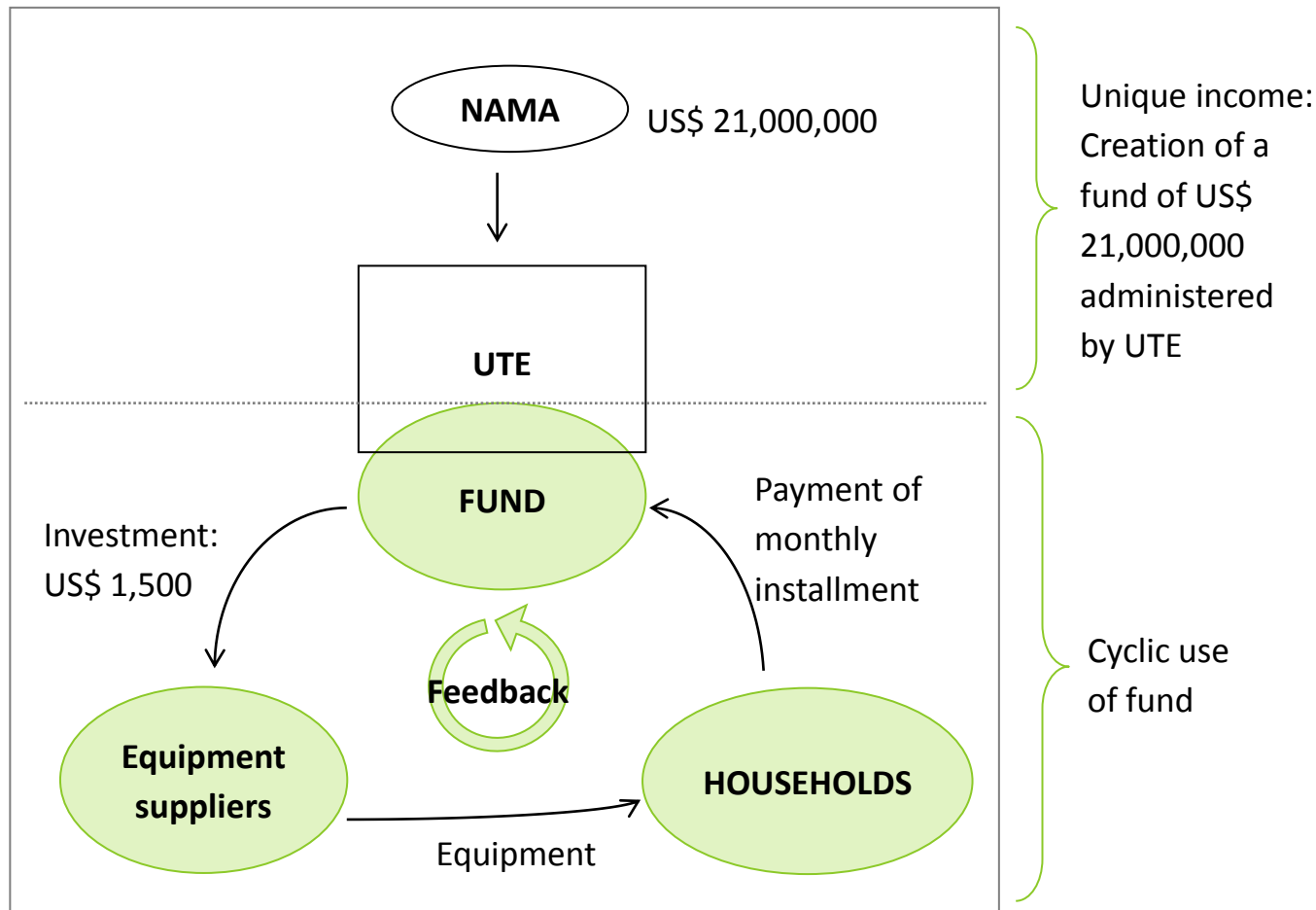


Uruguay Solar Thermal NAMA – Key elements

- 4,000 new Social houses will be provided with solar collectors every year.
- Families will pay them back with a portion of their monthly savings from the energy bill
- GHG emission reductions of 1,000,000 tCO₂e over 30 years (based on a grid emission factor of 0.644 tCO₂e/MWh)
- GHG emission reductions will be achieved through displacing Fossil fuels power generators used when hydropower, wind & Biomass production doesn't meet planned quantities.
- A revolving fund will be created to finance solar equipment to new social houses of families with low income



Uruguay Solar Thermal NAMA – Financial Mechanism



According to how the project was designed, the fund is expected to continue over time.

Uruguay Solar Thermal NAMA – Co - benefits

- **Transformational change:** Solar thermal collectors are being proposed as a way to reduce electricity consumption, and it constitutes the final step in the transformation of the sector, involving consumers directly (with special focus on low income families) in the energy generation and energy efficiency.
- Opportunity to develop **national capacities** regarding renewable energy technologies/ Apart from that, it will collaborate on energy independence of the country and hence, on national sustainable development.
- With the development of the project there will be a greater demand for solar thermal collectors, therefore all industry workers will have more **employment possibilities** (installers, equipment suppliers: manufacturers, importers).

Uruguay Solar Thermal NAMA – Co - benefits

- The NAMA is designed to benefit **low income families**
- The project is aligned with the **cultural change** sought in terms of energy efficiency in homes. Users will influence others to adopt the technology and be aware of the potentiality of the measure (80.000 at least after 30 years).
- The successful of this NAMA may lead the authorities to **extend the scope** of the mandate to all new private residential sector.
- Good example **to be replicated** in other countries.

Uruguay Solar Thermal NAMA – MRV

- Committee MIEM-MVOTMA-UTE will be created for continuous monitoring and analysis of the project with the participation of the Solar Board (www.mesasolar.org.uy).
 - Degree of coverage
 - Emissions avoided
 - Reduced electricity demand
 - Collection percentage
 - Degree of household satisfaction
 - Number of manufacturers and importers participating in the project
 - Analysis of project improvement opportunities
- During the years that follow, necessary conditions for program operation, equipment installation, monitoring, etc. will be maintained.



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Thank you!

Paola Visca

pvisca@cambioclimatico.gub.uy

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