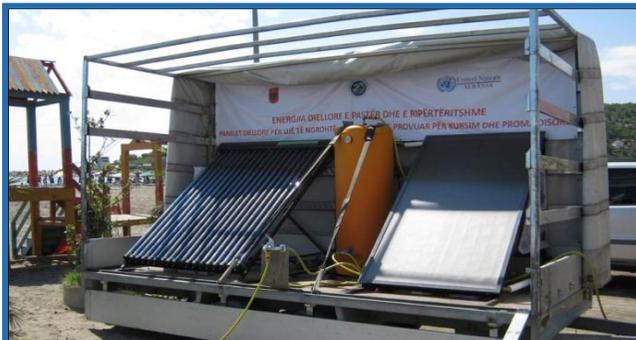


General description and results achieved to date

Mirela KAMBERI

Team Leader/SWH Project Coordinator
UNDP Climate Change Program

REGIONAL WORKSHOP & B2B Meetings, 20-21 March 2013, *Tirana, Albania*



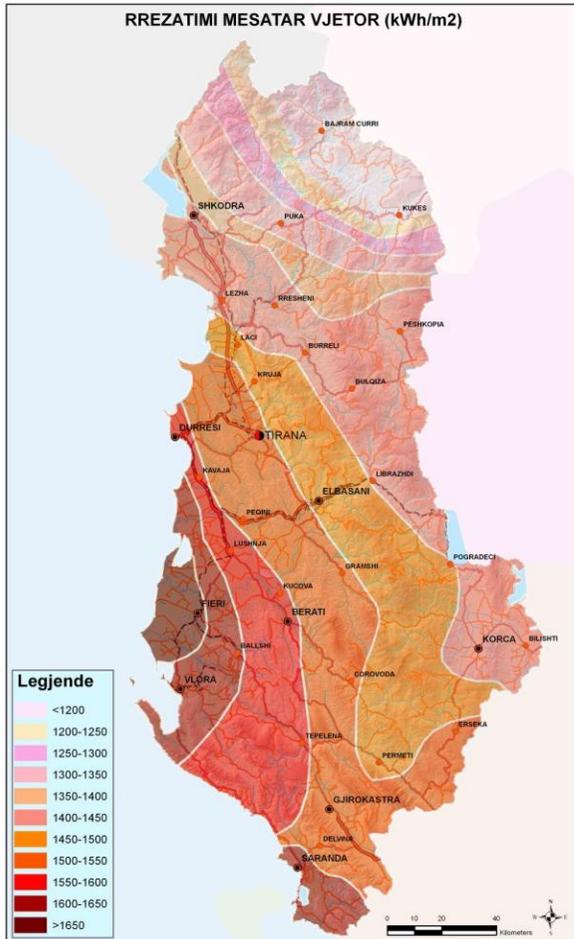
Albania – General data

Solar Radiation (kWh/m²,year) and Sunshine Hours (hours/year)



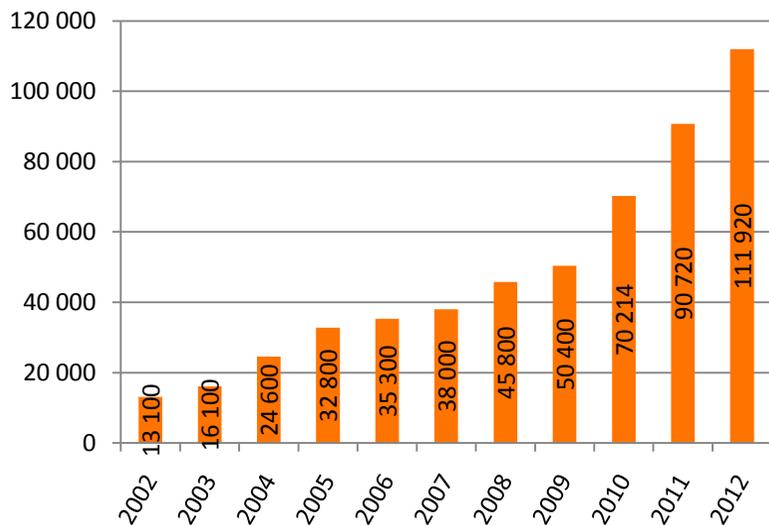
Empowered lives.
Resilient nations.

Population: 2,800,000
Area: 28,748 km²
Capital: Tirana
Language: Albanian
Currency: ALL (Lek)
GDP: 740 \$/inhabitant

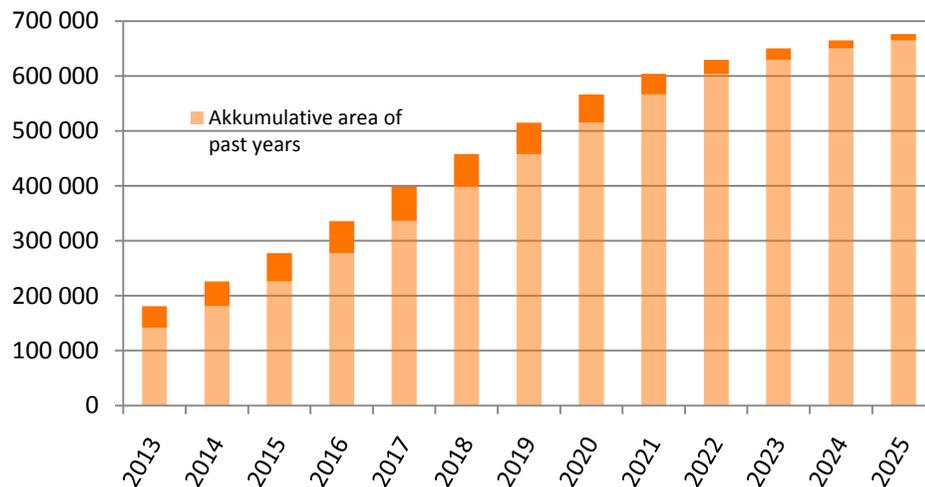


SWH Market development in Albania (installed m²)

Cumulative Installations of SWH systems [m²]



Foreseen Penetration of SWH systems [m²]



The Country Programme of Albania on Solar Water Heating Market Transformation and Strengthening Initiative



The Project:

Allocated resources:	GEF, GoA, UNDP
Other resources:	parallel-ADA, Swiss Gov, HFI
Project duration:	4.5 years
Implementing Agency:	UNDP
Executing Agency:	MoETE
Other partner:	MoEFWA

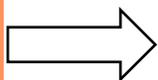
The objective:

to facilitate the installation of 75,000 m² of new installed collector area over the duration of the project, an annual sale of 20,000 m² reached by the end of the project and with expected continuing growth to reach the set target of 520,000 m² of total installed SWH capacity by 2020

Project achievements as per the outcomes

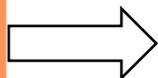
Outcome 1: An enabling legal and regulatory framework

National Action Plan
on RES



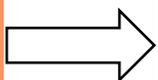
- The RES target for 2020 is 38%;
- The target for the heat produced by RES is 12.1 %;
- The target for the thermal heat produced by the solar systems is 1.23 %.

RES law



- Mandatory installation of SWH in new/renovated buildings;
- Exemption from the VAT and custom duties of the imported systems/parts;
- Provisions for quality control and European standards.

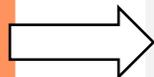
Sub-legal acts
(central/local)



- Exemption from the VAT and custom duties of the Solar Thermal Systems/Parts;
- Obligatory installation of SWH Systems in different categories of Public Buildings;
- Inclusion of SWH systems as common property under the law "On condominiums";
- Draft Decision of the Municipal Councils for the obligatory installation of SWH systems on their public buildings.

Outcome 2: Enhanced awareness and capacity of the targeted end users

Support to VTCs and professional schools



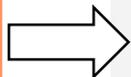
- Installation of demo-equipment in VTCs of Tirana, Durrës, Fier, Shkodra, Vlora;
- Endorsement of new curricula for "Installers and Repairmen of solar panels for hot water";
- Delivering of the training manual; Training of the instructors of the SWH courses; Opening of new courses

Monitoring



- Establishing of a database for producers, importers, and installers of SWH systems;
- Monitoring devices in 20 families in three climatic zones and three large installations;

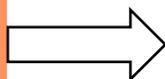
Trainings



- 68 architects, building engineers and other professional in the building sector;
- 23 importers, energy engineers, local representatives and other policy makers;
- 173 students of polytechnic universities in Albania;
- 46 SWH systems' installers and 5 domestic SWH systems' producers;
- 25 media representatives to increase their capacities on benefits of solar energy.

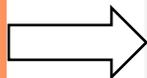
Outcome 3: Attractive Financial Mechanism and new business models

Pilot public buildings



- SWH systems installed for three guesthouses in the tourist area of Thethi, the National Agency for Natural Resources, the Orphans House in Tirana, Elderly House in Tirana;
- Feasibility studies and technical specifications ready for SWH systems to be installed during 2013 in 10 other soc. buildings;
- Technical sites identified for other feasible public buildings.

Innovative private projects



- A number of feasibility studies carried out for industry and service buildings;
- A schema developed to co-finance innovative private projects in touristic industry.

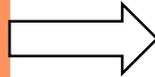
MoU (Tirana Municipality)



- Technical and legal assistance for the adoption of solar thermal obligations;
- Piloting solar thermal installations in municipality owned buildings;
- Training of the municipal staff to support project design and monitoring of the systems installed;
- Study of the possibilities of the existing households' investments in RES and EE measures, in partnership with MoT and/or Banks;
- Joint public awareness raising campaigns.

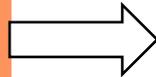
Outcome 4: Certification, quality control and SWH supply side strengthening

International/EU
Standards



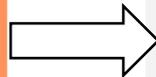
- Adoption of all related EU/International standards in close cooperation with the General Directory of Standardisation.

Testing/Certification



- Establishment/running of the Albanian Solar Testing Centre: First Trial tests already performed;
- Initial testing by SPF Testing Centre in Switzerland of the collectors produced in Albania;
- Concrete proposal for the certification scheme for SWH products: an Albanian provisional label proposed allowing an interim period of 5 years to meet requirements for quality management of products as per the “Solar Keymark”.

Technical
expertise/trainings



- Technical expertise in collaboration with Swiss Consortium INFRAS for (i) different hotels, members of ATA and (ii) Albanian producers;
- Technical expertise in collaboration with the Stuttgart Institute SWT to use/run the Albanian Solar Testing Centre.

Outcome 5: Provided support institutionalized and the results documented

Market Analysis

- SWH Market monitoring for 2010, 2011, 2012 and the estimation for the penetration of the SWH for households, service and industrial sectors – 2025;
- A proposal discussed with the NANR for the permanent monitoring of the market for the SWH systems

Solar Thermal Industry Association

- Proposal of the charter for the establishment of a local solar thermal association.

Promotion

- Serial of events, promotional materials;
- A SWH calculation tool/software is designed and uploaded in internet (http://www.ccalb.org/solar_live/index.php) for the needs of the interested people from the households/service sectors on SWH main indicators.

The Country Programme of Albania on Solar Water Heating Market Transformation and Strengthening Initiative – the way forward....

- **Implement demo projects to boost the installation of SWH in the most hot water-intensive public/municipal facilities, among others: hospitals, kindergartens, cafeterias and laundries;**
- **Implementation of an Investment Cost-Sharing Small Grants scheme and additional Technical Assistance (e.g.: feasibility studies) to energy-intensive end-users in the tourism and industrial sectors;**
- **Technical assistance to be given to the MoETE to draft the regulation related to the “EE/RE Investment Fund” required to advance the enforcement of the RE Regulation and boost investments in RE/EE.**

Trainings in the frame of the project



International Cooperation



Empowered lives.
Resilient nations.



Awareness raising activities



Installed SWH systems



Installed monitoring equipment



Study visits by the Solar Testing Centre



Empowered lives.
Resilient nations.



GEF/UNDP/UNEP/ICA - The Country Programme of Albania under the Global Solar Water Heating Market Transformation and Strengthening Initiative

Thank you for your kind Attention!

Mirela KAMBERI

Team Leader/SWH Project Coordinator

UNDP Climate Change Program

www.ccalb.org

