



High-Level Conference of the Global Geothermal Alliance 11-12 September 2017- Florence, Italy



Session IV: Panel Discussion on "Strengthening Institutional and Human Capacities to Accelerate the Uptake of Geothermal Energy"

International Summer School on Geothermics 2017

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AGENZIA ITALIANA PER LA COOPERADONE A LLO SVILUPPO

DIPARTIMENTO DI SCIENZE DELLA TERRA





TOSCANA

The Summer School in Geothermics 2017 was organized in Pisa, from 26 June to 14 July 2017, at Earth Sciences Department of Pisa University and in Larderello geothermal field at Enel Green Power operational headquarters and geothermal plants and at the Laboratory of Geothermal Center of Excellence (COSVIG with Pisa University scientific support).

It was financed by Ministry of Foreign Affairs and International Cooperation through the Italian Agency for Development Cooperation (AICS) and co-financed by the University of Pisa.

This Summer School provide to government and technical staffs of national companies from the sub-saharan nations of East Africa (Comoros, Djibuti, Ethiopia, Kenya, Malawi, Tanzania, Uganda) to have training on:

Fundamentals of geothermics (two weeks including field and geothermal industries system and installation visits) Exploration of geothermal resources - Drilling and reservoir engineering - Basics of plants for production of electricity including environmental impact actions mitigation - Plants for direct use and for heating and cooling.

Advanced tools in geothermal energy managing of data (Geothermal modelling Lab.) and practice in geothermal laboratories (One week).

Design of geothermal geo-database and use of GIS tools, 3D geological-geophysical modeling (Petrel platform Schlumberger; LeapFrog geothermal Arantz), Thermal Fluid-Dynamics Numerical Simulations (Petrasim-Tough II). Geochemical modelling (EQ 3-6). Practice in geothermal laboratories (SEM-EDS, Xrays, Raman FTIR, Fluid and melt inclusions.

Teaching for tecnological transfer and capacity building was assured by experts of geothermal industry, academics, expert consultants. Practice in geothermal laboratories was followed by academic researchers and industry experts. A total of 120 hours of class, laboratories and field activities was made by participants.