

# Energy System in Island Arc-Subduction Zone and its Social Acceptance

\*Noriyoshi Tsuchiya<sup>1</sup>

1. Graduate School of Environmental Studies, Tohoku University

Grant-in-Aid for Scientific Research on Innovative Areas: “Energy System in Island Arc-Subduction Zone and its Social Acceptance”

For understanding the Earth System, we have to consider both circulation system of material and energy. New proposal tries to give advanced solutions on energy system in the island arc –subduction system. Additionally we have to study social acceptance of crustal energy and relationship between crustal energy and society.

The following research teams are established:

A(Geomaterial Science)

A01:Geomaterial Energy System

A02:Geophysical Energy System

B(Material Transport System)

B01:Geochemical Circulation System

B02:Magma Energy SystemC (Geotechnology)

C01:Exploration Technology

C02:Evaluation Technology

D(Earth System and Social System)

D01:Complex System

D02:Energy Innovation

Keywords: Crustal Energy, Subduction Zone, Geofluid, Water -Rock Interaction, Social Acceptance

