

Development of young researchers based on international joint research on green energy

Outline of the Project

Dept. of Advanced Technology and Science for Sustainable Development

Construction of International joint research network

Training of young researchers

Outstanding advanced research

Green Energy
International joint research
promotion department

Materials Science
Field

Devices Field

System Engineering Field

Personal Exchange
Construction of International joint research network



1. Joint Research Field

Training of leading young researchers for the next generation

Materials Science

Ex. Development of new energy

Devices

Ex. Energy devices

System Engineering

Ex. Measurement technology for high-efficiency operation



Construction of International joint research network through dispatching of young researchers

2. Green Energy International Joint Research Promotion Department

- Department Chief
- Responsible researchers
- Dispatched researchers
- Administrative organization

Green Energy International Joint Research Promotion Department

- Support of over seas dispatch of young researchers
- Support of acceptance of foreign researchers
- International joint research support
- Rally of researchers

Materials Science

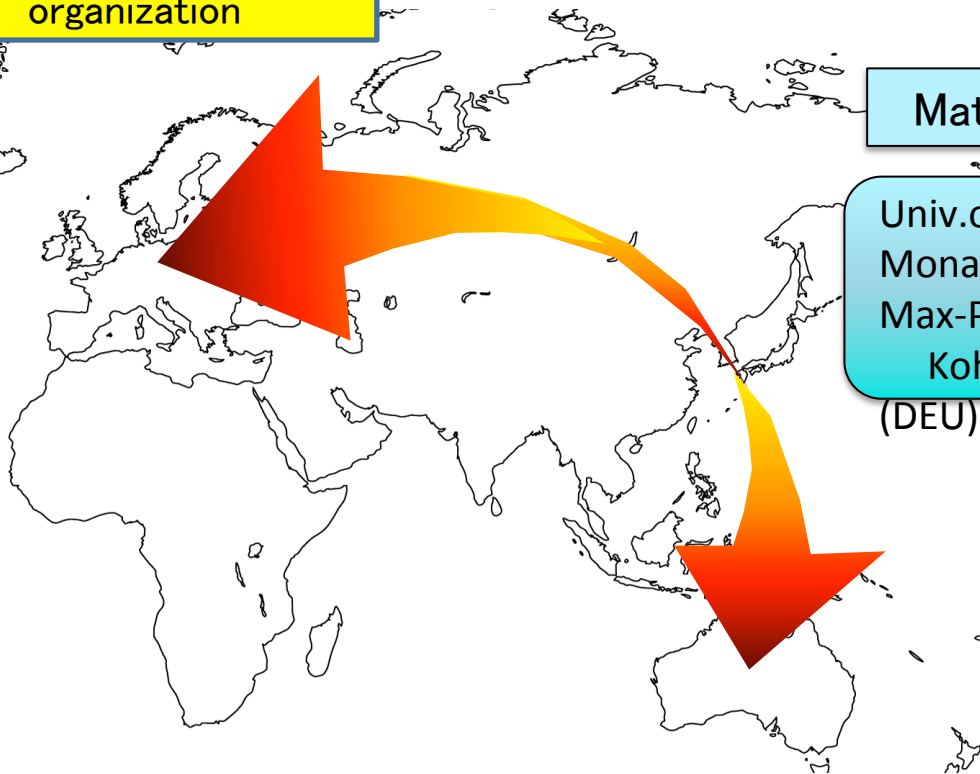
Univ. of Nottingham (GBR)
Monash Univ. (AUS)
Max-Planck-Institut für Kohlenforschung
(DEU)

Devices

Univ. Paul Sabatier (FRA)
Eindhoven Univ. of Tech.
(NLD)

System Engineering

Von Karman Inst. for Fluid Dynamics (BEL)
Adam Mickiewicz Univ. (POL)
Royal Inst. of Tech. (SWE)



3. The location of implementation

Field	Target of research	Research purpose	The location of implementation of research
Materials science	Development of new energy	Development of energy utilization technology	University of Nottingham (England) <u>Professor, Yuying Yan</u>
	Energy saving	Development of innovative energy-saving processes	Max-Planck-Institut für Kohlenforschung (Germany) <u>Professor, Alois Fürstner</u>
		Development of innovative energy-saving materials	Monash University (Australia) <u>Professor, K. Suzuki</u>
Devices	Energy storage device	Developing new electrode	Université Paul Sabatier (France) <u>Professor, Patrice Simon</u>
		Development of next generation energy storage technology	Eindhoven University of Technology (Netherland) <u>Professor, B.A.J. Noodver</u>

3. The location of implementation

Field	Target of research	Research purpose	The location of implementation of joint research
System engineering	Measurement & control	Development of new measurement technology for energy conversion equipment	Adam Mickiewicz Univ. (Poland) <u>Professor, Alexander Sek</u>
	High-efficiency	Developing high-efficiency equipment	Von Karman Institute for Fluid Dynamics (Belgium) <u>Professor, Tony Arts</u>
	Safety	Innovation of safety technology of energy system	Royal Institute of Technology (Sweden) <u>Professor, Lanru Jing</u>

Goal

- (1) Promotion of international joint research & achievement of the propose of individual research.
- (2) The development of the core material human resources of Green Energy research through the construction of international joint research network.

Deployment after completion of the project



Support

Green Energy International Joint Research Promotion Department

Constructing International Joint Research network through overseas dispatching of young researchers

From support to research

- ✓ Submission of research reports, presentations at the project report meetings, and original papers to academic journals
- ✓ Evaluation of research results

Completion of the project

Research

Green System International Joint Research Center

- ✓ Appointment as a leading member of the Green System International Joint Research Center
- ✓ Management of joint research network with overseas joint research institutes
- ✓ Research promotion on leading Green Energy technology

Contribution to the formation of an international R & D center of Green Energy Systems