



## EXPERT'S PROFILE

**Name of Grantee** : **DR. STANLEY O. SANTOS**

**Area of Expertise** : Chemical/Mechanical/Combustion Engineering

- CO<sub>2</sub> capture and storage – Oxyfuel Combustion Technology, IGCC, Post-Combustion CO<sub>2</sub> Capture Technology
- Biomass Utilization and Renewable Energy
- Techno-Economics – Power Generation
- Industrial Combustion Application – iron and steel, cement, oil refineries, pulp and paper, combine heat and power, incineration and waste to energy technology

**Inclusive Date of Contract as BSP Awardee** : 21 November – 20 December 2009  
Short –Term Category

**Host Institution** : College of Engineering  
De La Salle University

**Contact Details** : stanley.santos@ieaghg.org

## EDUCATIONAL BACKGROUND

- Ph.D. in Mechanical Engineering, University of Portsmouth, Portsmouth, England, 2002
- M.S. in Chemical Engineering, De La Salle University, Manila, Philippines, 1997
- B.S. in Chemical Engineering, De La Salle University, Manila, Philippines, 1995

## WORK EXPERIENCE

- **July 2005 - Present** - **Project Manager**  
IEA Greenhouse Gas R&D Programme (IEA GHG)  
Cheltenham, United Kingdom
- **July 2002 – June 2005** - **Technical Manager / Business Development Manager**  
International Flame Research Foundation (IFRF)  
Ijmuiden, The Netherlands
- **February 1998 – April 2002** - **Research Staff**  
Mechanical and Manufacturing Engineering Department  
University of Portsmouth, United Kingdom
- **June 1995 – December 1997** - **Instructor**  
Chemical Engineering Department  
De La Salle University, Manila, Philippines

## To be accomplished as BSP Awardee:

1. Give lectures for post-graduate and engineering senior students, industry stakeholder to help develop local capacity on:
  - a.) energy trends in carbon constrained environment
  - b.) introduction to clean coal technology and CO<sub>2</sub> capture and storage (CCS)
  - c.) overview of CO<sub>2</sub> capture technology
  - d.) oxyfuel combustion technology
  - e.) coal/biomass co-firing
  - f.) techno-economic aspects of CCS.
2. Establish preliminary R&D program in low-carbon combustion technologies, clean coal and development in new power generation technologies, CO<sub>2</sub> capture technology and storage and biomass renewable energy development.
3. Deliver recommendations to formulate strategies to help develop the engineering/post graduate curriculum of both Chemical and Mechanical Engineering Department of the university.