

Progress Update of APEC Fuel Cell Project

Project No: EWG 13 2015A Promoting Renewable Power Generation with Fuel Cell Technologies

Dong Xu

Guodian New Energy Technology Research Institute

11.12.215





Outline

- Project introduction;
- Project status;
- Forum introduction and announcement





Project Introduction

This project will focus on four parts:

- 1) Module construction of a novel direct biomass fuel cell;
- 2) International forum to boost the fuel cell industry;
- 3) Review of the fuel cell industry;
- 4) commercial analysis of novel fuel cell, with a comparing to traditional fuel cell.

This project will **last from August 2015 to July 2016**, and be performed in **Beijing**, China.





Project status

NO.	Activities	Status
1	Module construction of novel direct biomass fuel cell	Researching
2	Site visit to Taiwan Taiwan industrial technology research institute & Hephas Energy Co., Ltd.	Done
3	Fuel cell international Forum	Preparing
4	Review of the fuel cell industry	Under way
5	commercial analysis of novel fuel cell	Under way





APEC FUEL CELL INTERNATIONAL FORUM

Date & Location of the Forum:

- ✓ January 18-19, 2016 Beijing, China
 Objective:
- ✓ To promote the development of fuel cell technologies;
- ✓ To provide a platform for in-depth discussion on the commercialization pathway of fuel cells;
- ✓ To propose solutions to the technical bottlenecks through constructive communications and interactions among engineers, scientists and government leaders from major global fuel cell industries and world leading research organizations





Theme of the Forum :

- ✓ Review of fuel cell technology development and industry layout;
- ✓ Transportation fuel cell technology;
- ✓ Stationary fuel cell power generation technology;
- ✓ Hydrogen and its infrastructure construction.





Partnership:

Sponsors:

- APEC Energy Working Group
- National Energy Administration of China
- China Guodian Corporation

Organizer:

- Guodian New Energy Technology Research Institute

Co-organizers:

- Administration Commission of Beijing Future Science Park
- National Technical Committee on Fuel Cell and Flow Battery of
- Standardization Administration of China
- National Technical Committee on Hydrogen of Standardization
- Administration of China
- National Institute of Clean-and- Low-Carbon Energy, China
- State Grid Smart Grid Research Institute, China
- Huaneng Clean Energy Research Institute, China
 - State Nuclear Power Research Institute, China





Confirmed Organizations/Experts

No.	Organizations	Economic s	Experts	Title
1	National Energy Administration of China	China	Government delegate	Department chief / Director
2	China Guodian Corporation	China	Organizer delegate	Vice President/ Director
3	Toshiba /ENE Farm	Japan	Fumio Ueno	Technology Executive / Chairman of IEC TC105
4	Nissan	Japan	Takuya Hasegawa	Senior Innovation Researcher
5	Fuel Cell and Hydrogen Energy Association (FCHEA)	USA	Morry Markowitz	President
6	Georgia Institute of Technology	USA	Yulin Deng	Professor
7	US Hybrid (UTC PEMFC)	USA	Abas Goodarzi	CEO
8	Sunfire Gmbh	German	Carl Berininghausen	CEO
9	Hydrogenics	Canada	Alan Kneisz	Director, Business Development





Confirmed Organizations/Experts

No.	Organizations	Economic s	Experts	Title
10	Korean Hydrogen Industry Association (KHIA)	Korea	Hee-Chun Lim	vice chairman
11	Doosan (Fuel cell BG)	Korea	Meenam Shinn	President
12	Taiwan fuel cell partnership	Chinese Taipei	Chunto Tso	President, Convener
13	Dalian Institute of Chemical Physics	China	Bao-lian Yi	CAE academician, Professor
14	Dalian Institute of Chemical Physics	China	Gong-quan Sun	Professor
15	National Institute of Clean-and- Low-Carbon Energy	China	Chang Wei	President
16	Tsinghua University	China	Jian-bo Zhang	Professor
17	Tongji University	China	Cun-man Zhang	Professor
18	Audi	German	Speaker to be decided	
19	Mercedes-Benz	German	Speaker to be decided	





Methodology:

- A. Organization of the Forum
 - Presentation: The expected invited speakers are from major fuel cell associations, well known fuel cell companies and top research organizations, including Nissan, Toshiba, US Hybrid, Mercedes, Audi, Doosan, Hydrogenics, Taiwan Fuel Cell Partnership, etc.
 - Nomination: APEC member economies are invited to nominate two (2) participants and one (1) alternate participant for the fuel cell forum. The alternate will be able to attend the forum on a space available and self-funded basis. Economies are requested to submit nominations no later than November 18, 2015. Instructions for nominations and a nomination form are included below. There is limited project funding (travel and per diem) on an as-available basis for two (2) participants from the following APEC economies: Chile, Indonesia, Malaysia, Mexico, Papua New Guinea, Peru, The Philippines, Russia, Thailand, and Viet Nam.





B. Evaluation

Participants are required to complete and return an Evaluation Form by the end of the Workshop. In this form, each participant is encouraged to share their views and advice on the Workshop's impact and efficiency as well as possible suggestions and policy implications for future APEC related cooperation programs and activities.

C. Language

The Forum will be conducted in English and Chinese.



Thanks! Questions?