

UNECE - Group of Experts on Gas Taskforce B: The Role of Natural Gas in Increasing the Uptake of Renewable Energy

Status after 1st TF B Meeting

Second Session 20-21 January 2015

Jan Ingwersen, ENTSOG

Chair of Task Force B

Terms of Reference

Task Force B of the Group of Experts on Gas has elaborated its Terms of Reference and suggests the following revised objective :

Objective: Demonstrate the essential synergies between gas and renewables in achieving a sustainable future energy system by developing best practices and policy guidelines for gas to be an enabler of renewable energy and a part of a sustainable energy future.

This work will include amongst others, renewable gas, energy storage, support for renewable energy production and benefitting from the use of existing infrastructure. The Task Force will work in collaboration with the Group of Experts on Renewable Energy.

Work and Deliverables of TF B

1. Based on a systemic view on the energy system to optimize – economically and environmentally - the interplay between gas and renewables. Assessment of the consequences of increased uptake of renewables for required support capacity and opportunities how to maximize the synergies between renewables and gas

=> Task 1: Assessment of systemic consequences and opportunities

Work and Deliverables of TF B

Sub-Tasks for Task 1

- a. Include a review of the range of technology options for gas usage in a sustainable energy future, including an assessment of commercial feasibility

=> Task 1.a: Assessment of economic and technical feasibility of technology options

- b. Conduct an analysis of the economics of gas-fired power in the context of green policies on renewables and gas, including an assessment of the impacts of support schemes on the gas sector and on system management

=> Task 1.b: Analysis of gas-based power in a context of green policies

Work and Deliverables of TF B

2. Demonstrate the essential synergies between gas and renewable in a future energy system. Prepare a Best Practice Guidance and Policy Recommendations on the Role of Natural Gas in the Increasing Uptake of Renewable Energy in the ECE Region
=> Task 2: Best Practice Guidance & Policy Recommendations

Timeline

- Task 1.: First draft on Assessment of the systemic consequences and opportunities: **May 2015**
 - Task 1.a: First draft on Assessment of economic and technical feasibility of gas technology options: **July 2015**
 - Task 1. b: First draft on Analysis of gas-based power production in a context of green policies: **July 2015**
- Task 1: Final drafts on 1, 1.a. and 1.b: **October 2015**
- Task 2: Initial Draft Best Practices and Policy Recommendations on the Role of Natural Gas in Supporting Renewables Uptake: **November 2015**
- *Approve Best Practices on the Role of Natural Gas in Supporting Renewables Uptake: **November 2016**;*
- *Publish Best Practices on the Role of Natural Gas in Supporting Renewables Uptake: **June 2017**.*

Draft Report Layout

Executive Summary

Introduction & Background

- 1. Systemic consequences of increasing uptake of renewables and opportunities to maximize synergies between renewables and gas**
- 2. Technical and economic feasibility for natural gas to support a sustainable energy future**
- 3. Economics of gas-based power in a sustainable energy future**
- 4. Best practices on role of natural gas in the increasing uptake of renewable energy**
- 5. Conclusions & Policy Recommendations**

Annexes (case studies, reference list and extracts etc.)