

#### **Economies of Scale in Biogas Production**

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### Economies of Scale in Biogas Production and How to Organize Regulation



IAEE International Conference 2015 Antalya, Turkey Session 25: Prospects of Biofuels

Lise Skovsgaard and Henrik Klinge Jacobsen

**DTU Management Engineering** Department of Management Engineering



# Economies of Scale in Biogas Production and How to Organize Regulation Agenda

- 1. The model
- 2. Focus on using only pig slurry, PSSB-0
  - Economy of scale
  - Sensitivity on net-income
  - Findings before sugar beet is added
- 3. When Sugar beet is added, PSSB-12.5 and PSSB-25
  - Economy of scale?
  - Cost factors
  - Findings on costs
- 4. Sensitivity on PSSB-12.5
- 5. Concluding remarks
- 6. Regulative implications



### Economies of Scale in Biogas Production The model: Feedstock, Scale and transport

- Three different plant sizes:
  - Small(110): 110.000 Mg of biomass p.a.
  - Medium(320): 320.000 Mg of biomass p.a.
  - Large(500) : 500.000 Mg of biomass p.a.
- Three mass-based ratios of Pig sludge (PS) and Sugar Beet (SB) in the feedstock are analysed:
  - PSSB-0: 100% PS, 0% SB
  - PSSB-12.5: 87.5% PS, 12.5% SB
  - PSSB-25: 75% PS, 25% SB
- Transport: Collection costs and density of resources
  - A specific location used, with actual distances

$$- \Delta d_j(M_j) = \frac{m_{1j}}{M_j} r_1 + \sum_{i=2}^{o(M_j)-1} \frac{m_{ij}-m_{i-1,j}}{M_j} r_i + \frac{M_j-m_{nj}}{M_j} r_n$$

- Trade off between short distance to manure or sugar beet
- Biogas sales decision between upgrade or CHP
  - Small scale (biogas yield < 3.5 mill m3) => no upgrade
  - Large scale (biogas yield > 3.5 mill m3) => upgrade





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### Scale effects – economies of scale? Expectations and overall results – PSSB-0

- Clear signs of economy of scale within PSSB-0 case
- Expectations
  - positive effect from capex
  - negative effect from transport



Net-income	PSSB-0,Eur	ro/Mg	
Ratio\Scale	110	320	500
Income	17.30	17.30	17.53
Costs	15.78	15.65	15.35
Net-income	1.52	1.65	2.18



### Economy of scale – PSSB-0 Cost distribution



- Clear sign of economy of scale
  - Trade off between capex and rising opex + transport costs -
  - Output related costs....?
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### Economy of scale – PSSB-0 Output related costs



- Cost rise in capex and gas transport from small to medium size => change from CHP to Upgrade
- Economy of scale in Upgrade with cost reduction from medium to large scale
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### Sensitivity on net income – PSSB-0 Effect on net income, with changes in Transport distance or Biogas Yield

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- Net income robust compared to transport in the PSSB-0 case
- Regulative implications:
  - Biogas yield is important
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### Findings – before sugar beet is added

### We find:

- Economy of scale when sugar beet is not added (case PSSB-0)
- Positive Net-income
  - Transport are costs not significant
  - Biogas yield important for results

=>=> Let's add a co-substrate e.g. Sugar beet



### Adding sugar beet (SB) as input Results PSSB-0 vs. PSSB-12.5 and PSSB-25



### Increasing the share of beet

- initial observations
- Negative net-income in PSSB-12.5 and PSSB-25
- Unit Cost increase > Income increase
- Level of unit costs increases along with added sugar beet (SB)



### Adding sugar beet (SB) as input Results PSSB-0 vs. PSSB-12.5 and PSSB-25



- 1. Sugar beet price >> manure price
- 2. Increased transport cost
  - 1. longer distance
  - 2. one-way transport
- 3. Output related costs

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### Adding sugar beet (SB) as input Effect on transport costs



### **Rising transport cost per unit of total input**



Increase in transport cost due to:

- higher beet share
- size of plant
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### Adding sugar beet (SB) as input Output related costs

- Scale effects on output costs
  - CHP=> upgrade
  - Upgrade technology
- In PSSB-25 case additional costs with digestate
  - Storage and
  - Transport





### Findings on costs – When sugar beet is added

We find:

- Tendency to Economy of scale in:
  - Capex: all cases (case PSSB-0, PSSB-12.5 and PSSB-25)
- Overall the positive scale effect in Capex is outweighed by transport, Opex and in output related costs
- General costs remarks, when sugar beet is added
  - Generally higher costs allround particularly in
    - Sugar beet costs
    - Transport costs
    - Opex



## Sensitivity on Net income – adding sugar beet as input PSSB-12.5

### Effect on net-income, when sugar beet or transport costs are changed



- A reduction in transport costs can hardly turn the negative net-income, while a significant reduction in sugar beet price can
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## Sensitivity on Net income – adding sugar beet as input - PSSB-12.5

Effect on net-income, when **Biogas yield** or **sugar beet costs** are changed



- Yield still seems to have the higher influence on net-income
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### **Overall concluding remarks**

### Economy of scale

- Economy of scale in capex
  - Potential in large scale production and upgrading

个

- Transport costs
  - Transport plays a significant role, particularly when sugar beet is added =>
    - Try to "buy local" (feed-stock and manure) =>

### Net-income effects – critical parameters

- Input price
  - Sugar beet price is high and dominates costs in PSSB-12.5 and PSSB-
    - 25 => relevant with flexible input demand
- Yield
  - Yield seems to be the highest factor on net income results => focus on yield



### **Overall concluding remarks** - regulative implications

### **Concluding remarks**

### **Regulative implications**

• Economy of scale

### • Transport costs important

- Input price important
- Yield important

- Economy of scale
  - Support/allow large scale facilities and upgrading
- Transport costs
  - Facilitate (do not hinder) use of local feedstock =>
- Input price
  - Facilitate flexible input =>
- Yield
  - Facilitate high yield =>
- $\Rightarrow$  Reconsider restrictions on potential input
  - $\Rightarrow$  the effects on biogas income, compared to other considerations







### Additional – Income distribution

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### Additional – Transport formula\_1

• The available pig slurry and sugar beet are divided into the amount available within the different radii and, by doing this, the average transportation distance ( $\Delta d$ ) can be calculated as follows:

• 
$$\Delta d_j(M_j) = \frac{m_{1j}}{M_j} r_1 + \sum_{i=2}^{o(M_j)-1} \frac{m_{ij}-m_{i-1,j}}{M_j} r_i + \frac{M_j-m_{nj}}{M_j} r_n$$

 where m\_ij is the mass of biomass j available in circle i; Mj is the total mass of biomass j needed for the specific setting of plant size and ratio; rj is the radius of circle i; and o(Mj) is the last circle needed for satisfying the requested demand. The average transportation distance (Δd, in km) for the different input mix is estimated in the table

			Pla	nt capacity (1'0	00 Mg)
Input	Unit	Input	110	320	500
PSSB-0	km	Sugar beet	0	0	0
	km	Pig slurry	6.1	8.9	10.3
PSSB-12.5	km	Sugar beet	23.2	44.0	60.9
	km	Pig slurry	5.9	8.4	9.9
PSSB-25	km	Sugar beet	42.9	65.1	70.4
	km	Pig slurry	5.5	7.6	9.5



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### Additional – Transport formula\_2

• After applying the formula for all plant sizes and ratios, the cost of collecting the pig slurry and sugar beet ( $C_{trans,in}$ ) can be calculated as follows:

• 
$$C_{trans,in}(M_j) = \sum_{j \in J} \left( 2 \cdot \frac{M_j \cdot \Delta d_j(M_j) \cdot p_j^{trans}}{cap_j \cdot \rho_j \cdot v_j} + \frac{M_j \cdot (t_j^{load} \cdot p_j^{load} + t_j^{unload} \cdot p_j^{unload})}{cap_j \cdot \rho_j} \right)$$

• The first fraction represents the cost of transporting the biomass, and the parameters represent:  $p_j^{trans}$ , the price for transporting biomass type j;  $v_j$  is the speed of the truck used for transporting the biomass j (i.e. 50 km/hour);  $cap_j$  is the capacity of the truck used for biomass type j (i.e. 31.2 and 35 Mg/load for sugar beet and pig slurry respectively); and  $\rho_j$  is the density of biomass type j (i.e. 1 and 0.65 Mg/m<sup>3</sup> for sugar beet and pig slurry respectively). The fraction is multiplied by 2, as the truck has to return to the plant after delivering the biomass. In case the trip is about pig slurry transport, the trip out to the farmer will include the delivery of digestate. An estimation of the transportation costs (€) on an annual basis is provided in Table S14. The second fraction represents the costs of loading and unloading the truck, and the parameters represent:  $t_j^{load}/t_j^{unload}$  is the time for loading/unloading biomass type j;  $p_j^{load}/p_j^{unload}$  is the hourly price of loading/unloading (i.e. 87 and 104 €/hour for sugar beet and pig slurry respectively)



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#### **Conference Program**

Quick Links: Sunday, 24 May | Monday, 25 May | Tuesday, 26 May | Wednesday, 27 May

#### SUNDAY, 24 MAY 2015

#### **IAEE COUNCIL MEETING (BY INVITATION)**

9:00am - 5:00pm • Gloria Serenity Faces 3

#### **IAEE COUNCIL LUNCH (BY INVITATION)**

12:30pm - 1:30pm • Gloria Serenity Main Restaurant

#### WORKSHOP: "OPTIMIZING YOUR PRESENTATION SKILLS"

10:00am - 12:30pm • Gloria Serenity Faces 1 Click for more information

#### WORKSHOP: "SHALE GAS IN NORTH AMERICA"

2:00pm - 5:00pm • Gloria Serenity Faces 1 Click for more information

#### **PHD DAY SESSION**

1:15pm - 6:00pm • Gloria Serenity Faces 2

#### **STUDENT HAPPY HOUR**

6:00pm - 7:00pm • Gloria Serenity Lobby Bar Terrace

#### REGISTRATION

12:00n - 6:30pm • Gloria Golf Convention Center

#### **OPENING RECEPTION**

7:00pm - 8:30pm • Acısu Green Area

#### **MONDAY, 25 MAY 2015**

#### **TUESDAY, 26 MAY 2015**

**REGISTRATION** 7:00am - 7:00pm • Saka

STUDENT BREAKFAST MEETING

8:30am - 9:30am • Manyas 3

#### **REGISTRATION** 7:00am - 6:30pm • Saka

EUROPEAN AFFILIATE LEADERSHIP MEETING

7:30am - 8:30am • Turna 2-3

#### WEDNESDAY, 27 MAY 2015

#### REGISTRATION

7:00am - 6:00pm • Saka

#### 2016 IAEE INTERNATIONAL CONFERENCE PLANNING MEETING

7:30am - 8:30am • Anka 1-2

#### **IAEE AFFILIATE LEADERS MEETING**

8:30am - 9:30am • Turna 2-3

### WELCOME, PRESIDENTIAL ADDRESS & KEYNOTE SESSION: CLIMATE CHANGE

10:00am - 12:00n • Entertainment Center

Prof. Gürkan Kumbaroğlu (Presiding) President Elect, IAEE; Boğaziçi University, Turkey

Mr. Masakazu Toyoda Chairman and CEO, The Institute of Energy Economics, Japan

Dr. Jim Plummer President, Climate Economics Foundation, USA

Dr. Michael Canes Distinguished Fellow, Logistics Management Institute, USA

Prof. Richard Tol University of Sussex, UK

#### PHOTOGRAPHY EXHIBITION OPENING

12:15 • Gloria Convention Center

#### LUNCH

12:20pm - 1:30pm • Anatolia Restaurant, Gloria Golf Resort

### DUAL PLENARY SESSION: GEOPOLITICS OF GAS

(Click for session description)

1:30pm - 3:00pm • Manyas 1

Dr. Tatiana Mitrova (Presiding) Head of Oil and Gas Department, Energy Research Institute of the Russian Academy of Sciences (ERIRAS), Russia

Mr. Leonid Grigoryev Chief Adviser to the Head of Analytical Center of the Government of the Russian Federation, Russia

Prof. Peter Hartley President, IAEE; University of Western Australia, Australia

Dr. Xunpeng Shi Senior Fellow, Energy Studies Institute, National University of Singapore, Singapore

#### DUAL PLENARY SESSION: ELECTRICITY FINANCE AND ELECTRICITY MARKET DESIGN

(Click for session description)

1:30pm - 3:00pm • Manyas 2

Prof. Georg Erdmann (Presiding) Berlin University of Technology, Germany

Prof. Lars Bergman Stockholm School of Economics, Sweden

Mr. Christophe Bonnery Director, Economics and Prospective, ERDF, France

#### **EJ BOARD OF EDITORS MEETING**

7:30am - 8:30am • Kumru

#### **EEEP BOARD OF EDITORS MEETING**

7:30am - 8:30am • Anka 1-2

#### DUAL PLENARY SESSION: OIL AND GAS TRANSPORT ISSUES

8:30am - 10:00am • Manyas 1

Prof. Ilhan Or (Presiding) Graduate Institute Director, Bogazici University, Turkey

Prof. Ivan Gudkov Moscow State University of International Affairs, Russia

Mr. Nedim Özyol Deputy General Manager, Botaş, Turkey

Dr. S. M. Hossein Adeli Sec. General, Gas Exporting Countries Forum, GECF, Qatar

Dr. Jennifer Coolidge Executive Director, CMX Caspian and Gulf Consultants, Iraq

#### DUAL PLENARY SESSION: LONG TERM LOW CARBON DEVELOPMENT PATHWAYS

(Click for session description)

8:30am - 10:00am • Manyas 2

Prof. Ying Fan (Presiding) Member, Academy of Science, China

Prof. Wenying Chen Institute of Energy, Tsinghua University, China

Prof. Andreas Löschel Center for Applied Econ. Research, University of Münster, Germany

Dr. Olav Peter Hypher Country Manager, Statkraft, Turkey

#### **COFFEE BREAK**

10:00am - 10:30am • Foyer area

#### **CONCURRENT SESSIONS**

10:30am - 12:00n • Click here for details

#### LUNCH

12:15pm - 1:30pm • Anatolia Restaurant, Gloria Golf Resort

#### DUAL PLENARY SESSION: GEOPOLITICS OF OIL WITH FOCUS ON MIDDLE EAST AND AFRICA

1:30pm - 3:00pm • Manyas 1

Dr. Carlo Andrea Bollino (Presiding) President, AIEE, Italy

#### ASIAN AFFILIATE LEADERSHIP & PERTH 2016 CONFERENCE PLANNING MEETING

7:30am - 8:30am • Turna 2-3

#### DUAL PLENARY SESSION: NEW ENERGY TECHNOLOGIES AND THEIR STATUS

8:30am - 10:00am • Manyas 1

Prof. Reinhard Madlener (Presiding) RWTH Aachen University, Germany

Dr. Akira Yoshino General Manager, Yoshino Lab., Asahi Kasei Corp, Japan

Dr. Sean McCoy CCS Unit, IEA, France

Dr. David Mooney Director, Strat. Ener. Anal., National Renewable Energy Lab, USA

#### DUAL PLENARY SESSION: ENERGY ACCESS

#### (Click for session description)

8:30am - 10:00am • Manyas 2

Prof. Wumi lledare (Presiding) Director, Emerald Energy Inst., University of Port Harcourt, Nigeria

Prof. Adeola Adenikinju Director, Center for Energy Econ., University of Ibadan, Nigeria

Dr. Shonali Pachauri Energy Prog.Intl. Inst. for Applied Syst. Anal. (IIASA), Austria

Dr. Ricardo Raineri Former Energy Minister, Chile

#### **COFFEE BREAK**

10:00am - 10:30am • Foyer area

#### **CONCURRENT SESSIONS**

10:30pm - 12:00n • Click here for details

#### LUNCH

12:15pm - 1:50pm • Anatolia Restaurant, Gloria Golf Resort

#### **CONCURRENT SESSIONS**

1:30pm - 3:00pm • Click here for details

#### **COFFEE BREAK**

3:00pm - 3:30pm • Foyer area

DUAL CLOSING PLENARY SESSION: INTERNATIONAL IMPLICATIONS OF US ENERGY RENAISSANCE (Click for session description) Ms. Silvia Kreibiehl Head, UNEP Collaborating Center for Climate and Sustainable Energy, Frankfurt School of Finance, Germany

#### COFFEE BREAK & STUDENT POSTER SESSION

3:00pm - 3:30pm • Foyer Area Click for poster session details

Sponsored By: Turcas

#### **CONCURRENT SESSIONS**

3:30pm - 5:00pm • Click here for details

#### **CONCURRENT SESSIONS**

5:15pm - 6:45pm • Click here for details

#### DINNER

7:00pm - 8:30pm • Anatolia Restaurant, Gloria Golf Resort

#### **CONFERENCE NETWORKING RECEPTION**

9:00pm - 11:00pm • Gloria Golf Course

Mr. Timothy Okon Director, Nigerian National Petroleum Corporation, Nigeria

Dr. James Smith Cary Maguire Chair in Oil and Gas Management, Southern Methodist Univ., USA

Mr. Sinan Ülgen Chairman, Center for Econ. & Foreign Policy Studies, Turkey

#### DUAL PLENARY SESSION: ENERGY EFFICIENCY

(Click for session description)

1:30pm - 3:00pm • Manyas 2

Prof. Einar Hope (Presiding) Norwegian School of Economics, Norway

Prof. James Sweeney Director, Precourt Energy Eff. Center, Stanford University, USA

Mr. Samuel Thomas Energy Efficiency Unit, IEA, France

Mr. Torkil Tyvold Business Development, Norsk Hydro, Norway

#### **COFFEE BREAK**

3:00pm - 3:30pm • Foyer Area

#### **CONCURRENT SESSIONS**

3:30pm - 5:00pm • Click here for details

#### **IAEE AWARDS CEREMONY**

5:00pm - 6:30pm • Manyas 2

#### **IAEE GENERAL MEMBERSHIP MEETING**

6:30pm - 7:00pm • Turna 1

#### DINNER

7:00pm - 9:00pm • Anatolia Restaurant, Gloria Golf Resort

#### **GLORIA WIDE ENTERTAINMENT**

9:45pm - 10:30pm • Entertainment Center

#### **GLORIA WIDE ISTANBUL PARTY**

10:00pm - Midnight • []

3:30pm - 5:15pm • Manyas 2

Dr. Mine Yücel (Presiding) Vice President, Federal Reserve Bank Dallas, USA

Prof. Hillard Huntington Exec. Director, Energy Modeling Forum, Stanford Univ., USA

Dr. Zhen Wang Dep. Dir. Gen., Policy Res., China Nat. Petroleum Corp., China

Mr. Laszlo Varro Head, Gas, Coal & Electricity Markets, IEA, France

Prof. Scott Tinker Director, BEG, University of Texas, Austin, USA

#### DUAL CLOSING PLENARY SESSION: AN INTEGRATED EURO-MEDITERRANEAN ENERGY MARKET

(Click for session description)

3:30pm - 5:15pm • Manyas 1

Ms. Silvia Pariente-David (Presiding) Senior Energy Specialist

Mr. Abdelaziz Rassaa Former Minister of Industry and Technology of Tunisia, Tunisia

Dr. Samuel Furfari Advisor to Director General of Energy, European Commission

Mr. Hasan Hüseyin Erdogan Deputy Head of Strategy Development, Ministry of Energy and Natural Resources, Turkey

Ms. Dayae Oudghiri Member of the Board, MASEN, Morocco

#### **CLOSING REMARKS**

5:00pm - 5:15pm • Manyas 2







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### **Concurrent Sessions**

1-9   10-19   20-30   31-41   42-52   53-63
CONCURRENT SESSIONS 1-9 Monday, May 25, 3:30pm - 5:00pm
1. Geopolitics of Gas 1 (Manyas 2)
Michael E. Canes, Presiding Distinguished Fellow Logistics Management Institute
New Alignments and the Security of Supply in the EU Countries: Investigating the Role of Russia
and Iran with a Game Theoretic Approach Hamed Sabebbonar
Ferdowdi University
View Extended Abstract View Paper
Future of Natural Gas in EU: Will Geopolitics Take over Economics?
Yuri Yegorov
Jalal Dehnavi
Franz Wirl
University of Vienna View Abstract I View Paper
Changes in EU Future Natural Gas Supply and the Role of Turkish Hub
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Iew Alignments and the Security of Supply in the EU Countries: Investigating the Role of Russia and Iran With a Game Theoretic Approach Iamed Sahebhonar erdowdi University Tew Extended Abstract   View Paper uture of Natural Gas in EU: Will Geopolitics Take over Economics? uri Yegorov alal Dehnavi ranz Wirl Iniversity of Vienna (ew Abstract   View Paper Thanges in EU Future Natural Gas Supply and the Role of Turkish Hub alal Dehnavi Jniversity of Vienna Veed Raha hd Student (uri Yegorov seniour Researcher //ew Abstract The European Union's Energy Security: the Case of Natural Gas Supply Boyko Nitzov Damjan Zagožen Agency for the Cooperation of Energy Regulators View Extended Abstract   View Paper Natural Gas Supply Diversification in Eastern Europe and Long-Term Opportunities from Domestic Shale Gas Resources: A Modelling Approach Using the Global Gas Model Fabian Stähr DiW Berlin Reinhard Madlener Christoph Hilgers RWTH Aachen University View Abstract A Back to top 2. Risk Issues in Electricity Markets (Mapper 1)
Ferdowdi University View Extended Abstract   View Paper Future of Natural Gas in EU: Will Geopolitics Take over Economics? Yuri Yegorov Jalal Dehnavi Franz Wirl University of Vienna View Abstract   View Paper Changes in EU Future Natural Gas Supply and the Role of Turkish Hub Jalal Dehnavi University of Vienna Aveed Raha Phd Student Yuri Yegorov Seniour Researcher View Abstract The European Union's Energy Security: the Case of Natural Gas Supply Boyko Nitzov Damjan Zagožen Agency for the Cooperation of Energy Regulators View Extended Abstract   View Paper Natural Gas Supply Diversification in Eastern Europe and Long-Term Opportunities from Domestic Shale Gas Resources: A Modelling Approach Using the Global Gas Model Fabian Stähr DIW Berlin, RWTH Aachen University Philipp M Richter Franziska Holz DIW Berlin Reinhard Madlener Christoph Hilgers RWTH Aachen University View Abstract
Yuri Yegorov
Seniour Researcher
View Abstract
The European Union's Energy Security: the Case of Natural Gas Supply
Boyko Nitzov
chael E. Canes, Presiding stinguished Fellow gistics Management Institute ew Aligments and the Security of Supply in the EU Countries: Investigating the Role of Russi: ultran With a Game Theoretic Approach and Sahebhonar ardowid University ew Extended Abstract   View Paper ultre of Natural Gas in EU: Will Geopolitics Take over Economics? ult Vegorov vial Dehnavi ranz Wirl Iniversity of Vienna Tew Abstract   View Paper Inages in EU Future Natural Gas Supply and the Role of Turkish Hub Jalo Dehnavi Jaiversity of Vienna Veed Raha Mad Statent (urf Vegorov Seniour Researcher View Abstract In European Union's Energy Security: the Case of Natural Gas Supply Boyko Nitzov Danjan Zagožen Agency for the Cooperation of Energy Regulators View Extended Abstract   View Paper Inter Company I Company Regulators View Extended Abstract   View Paper Natural Gas Supply Diversification in Eastern Europe and Long-Term Opportunities from Domestic Shale Gas Resources: A Modelling Approach Using the Global Gas Model Fabian Stahr DiW Berlin, RWTH Aachen University Philipp M Richter Franziska Holz DiW Berlin Reinhard Madlener Christoph Hilgers RWTH Aachen University View Abstract A Back to top 2. Risk Issues in Electricity Markets (Manyas 1) Baris Sanl, Presiding Head of LPG Department Energy Market Regulatory Authority Heathilty-Enabling Contracts in Electrate Returned of LPG Department Energy Market Regulatory Authority
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Natural Gas Supply Diversification in Eastern Europe and Long-Term Opportunities from Domestic Shale Gas Resources: A Modelling Approach Using the Global Gas Model
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Philipp M Richter
Franziska Holz DIW Parlin
Reinhard Madlener
Christoph Hilgers
CONCURRENT SESSIONS 1-9 Monday, May 25, 3:30pm - 5:00pm 1. Geopolitics of Gas 1 (Manyas 2) Michael E. Canes, Presiding Distinguished Fellow Logistics Management Institute New Alignments and the Security of Supply in the EU Countries: Investigating the Role and Iran With a Game Theoretic Approach Hamed Sahebhonar Ferdowil University View Extended Abstract   View Paper Future of Natural Gas in EU: Will Geopolitics Take over Economics? Yuri Yegorov Jalal Dehnavi University of Vienna View Abstract   View Paper Changes in EU Future Natural Gas Supply and the Role of Turkish Hub Jalal Dehnavi University of Vienna Aveed Raha Phd Student Yuri Yegorov Seniour Researcher View Abstract The European Union's Energy Security: the Case of Natural Gas Supply Boyko Nitzov Damjan Zagožen Agency for the Cooperation of Energy Regulators View Extended Abstract   View Paper Natural Gas Supply Diversification in Eastern Europe and Long-Term Opportuni Domestic Shale Gas Resources: A Modelling Approach Using the Global Gas Mor Fabals Står DiW Berlin, RWTH Aachen University Philipp M Richter Franziska Holz DiW Berlin Reinhard Madlener Christoph Hilgers RWTH Aachen University· View Abstract
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2. Risk Issues in Electricity Markets (Manyas 1)
Baris Sanli, Presiding
Head of LPG Department
Energy Market Regulatory Authority
Flexibility-Enabling Contracts in Electricity Markets
Rahmat Poudineh
Oxford Institute for Energy Studies
LUIS BOSCAN
View Abstract
The Impact of Market Liberalisation on Investment in Electricity Sector in ASEAN
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University of Greenwich
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The Value of ICT Platform Investments within Distributed Energy Systems
Ernesto M Garnier
RWTH Aachen University
View Abstract
Dav-ahead Power Prices Influenced by Intermittency: Effect on the Forward Risk Premium
Mehtap Kilic
Erasmus School of Economics
View Extended Abstract   View Paper
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3. Climate Change 1 (Anka 1-2)
Jean-Michel Glachant, Presiding
Director, Florence School of Regulation European University Institute
Evaluating Multiple Emission Pathways for Fixed Cumulative CO2 Emissions from Socioeconomic
Perspectives
Ken'ichi Matsumoto
The University of Shiga Prefecture
Michio Kawamiya Kaoru Tachiiri
Japan Agency for Marine-Farth Science and Technology
View Extended Abstract   View Paper
R&D Endogenous Substitution and Climate Change
Youngho Chang
Di Yin
Yang Tang
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23. Support for Renewables (Kirlangic 3) Izirkay's Renewable Future: Alternative Power Supply Scenarios for Turkey until 2030 Austafa O Berke Iimate & Energy Program Supervisor, WWF-Turkey few Extended Abstract The Hidden Winners of Renewable Energy Promotion. Insights into Sector-specific Wage Jifferntials Aarkus Janser Torian Lehmer Aanfred Antoni Institute for Employment Research (IAB) few Extended Abstract Tollicy Assessment for Low Carbon Electricity Markets Saac Dyner Iniversidad Jorge Tadeo Lozano lebastin Zapta Cardona Jano Murauskaite Iniversidad Nacional de Colombia few Extended Abstract Diversification of Support Measures for Renewable Energy Sources in District Heating Sector ina Murauskaite Inituation Energy Institute few Extended Abstract Diversification of Support Measures for Renewable Energy Sources in District Heating Sector ina Murauskaite Inituend Abstract Diversification of Support Measures for Renewable Energy Sources in District Heating Sector ina Murauskaite Inituent Energy Institute few Extended Abstract Back to top 24. Electricity Demand and Enduser Behavior 1 (Turna 1) Ukari Yamashita, Presiding Soard Member Director Institute of Energy Economics The Interactions Between Residential Electricity Consumption and the Power Sector Within an iconomic Equilibrium Framework: A Look at Energy Efficiency in Saudi Arabia Valid Matar Research Associate, King Abdullah Petroleum Studies and Research Center Tew Extended Abstract Diversity of Basel Data Delinger Distributional Effects of a Revenue-Neutral Steering Tax on Energy: Empirical Evidence from Wiss Household Data Daniel Mueller ebeastian Delinger Diversity of Basel Delinger
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Joachim Schleich, Presiding Professor Fraunhofer Inst Sys Innov Research
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Gas Supply Vulnerability in Central and Eastern Europe: Politics, Policies and Pricing Practices Andreas Goldthau
Gas Supply Vulnerability in Central and Eastern Europe: Politics, Policies and Pricing Practices Andreas Goldthau Central European University, and Associate, Geopolitics of Energy Project, Belfer Center for Science and International Affairs, Harvard University
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David Mooney, Presiding
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