



## 3-in-1 Bioenergy Flex Time Webinar-by WBA

Any time of your choosing Sept 5-22

### 1. Torrefied Biomass- “New Markets, New Direction, New World”

Originally delivered June 22, 2016

Minutes

- 3 Introduction- World Bioenergy Association- **Andrew Lang, WBA Vice-President**
- 7 WBA Activities and Value Proposition- **Remigijus Lapinskas, WBA President**

#### Upgrading technologies:

- 10 “Technology Progress and Product Trading”- **Michael Wild, President IBTC**
- 10 “International project implementation”- **Jan Brouwers, CEO TorrCoal, Netherlands**
- 10 “Technology, Markets, EU Regulation”- **Andy Piers, CEO River Basin Energy, USA/Switzerland**

#### Supply Chain Experience and Plans:

- 10 “European Bulk Storage/Ground Transport”- **B. Pothoven, AGP Consultancy/Port of Rotterdam**
- 10 “Innovative Shipping with Coal- Pacific Theatre”- **Douglas Bradley, WBA Vice-President**

#### New Market Development:

- 10 “Exploring Different Local Markets”- **Sylvain Bertrand, CEO Air-Ex, Canada**
- 10 “Residential/Commercial Heating- Advantages to Consumers”- **Dr. Richard Walton, Renewable**

#### Fuels Technologies UK

- 10 “Progress with Gasifying/Torrefaction to Chemicals”- **Robin Post van der Burg, Torr-Gas**
- 10 “Economics of Combined Torrefaction-Syngas to Power”- **T. Balon, Clean Energy Generation**
- 10 “Other Exciting Torrefaction Markets”- **Tyler Westover, Batelle Energy Alliance**

### 2. Pyrolysis Oil “Markets and Growth in Global Supply”

Originally delivered Jan 31, 2017

- 7 Introduction- Video- “Renewable Pyrolysis Oil Fuel at the Friesland-Campina dairy”

#### Technology and Production:

- 10 “Pyrolysis Markets and BTG-BTL Global Roll Out”- **Gerhard Muggen, CEO, BTG-BTL**
- 10 “Pyrolysis Experience in Finnish CHP & Heat Plants” **Joakim Autio, Valmet**
- 10 “Commercializing RTP™ Technology Worldwide”, **Roger Blokland, Honeywell-UOP**
- 10 “Building Modular Pyrolysis Plants for Efficiency”- **Thomas Ladrak, Zeton**

#### Markets:

- 10 “Cost-Effective Green District Heating”, Carl Avers, CEO, **Youngstown Thermal**
- 10 “Best Blending for Renewable Marine Fuel”- Tony Bridgwater\*, **ReShip Program**
- 10 “Business Potential as a Marine Fuel”, Sjors Geraedts, Business Development, **Goodfuels**

**Markets, Supply Chains and Global Supply:**

- 10 “US/EU/Japanese Markets, Supply Chains, Global Supply”- D. Bradley, President, **Climate Change Solutions**
- 10 “Supply Potential Australia to Japan”- Andrew Lang, Vice President, **WBA**

### 3. “Large Pockets of Sustainable Biomass- Worldwide Opportunities”

Originally delivered June 22, 2017

**North America:**

- 10 Canada- “Harvest Residues- The new Frontier”- D. Bradley, President, Climate Change Solutions
- 10 Canada- “Hearst Bark Mountains”- Sylvie Fontaine, Executive Director, Hearst Economic Development Corp.

**Austral-Asia:**

- 10 Australia- “Untouched Wood and Agricultural Biomass”- Andrew Lang, VP WBA
- 10 New Zealand- “Sustainable Radiata Pine”- Brian Cox, Executive Director, Bioenergy Association of New Zealand
- 10 China- “Biomass & Development in China”, Kelvin Hong, Chairman, Great Resources Group

**Africa:**

- 20 Namibia- “Utilizing Namibia’s Encroacher Bush - creating a path to prosperity?” - Dagmar Honsbein, Executive Manager, Namibia Biomass

**Russia:**

- 10 Russia- “Sourcing Energy wood from Russia”- Timo Karjalainen, Luke Natural Resources Inst.
- 10 Wrap up- Remigijus Lapinskas, WBA President

\*Co-author Katie Chong- European Bioenergy Research Institute (EBRI)

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