#### **Pellet Market Stories**

Seth Walker, Bioenergy Economist July 2015





### **Pellet Market Stories**

- Policy changes and uncertainty in Europe
- Low oil prices
- Exchange rates (strong dollar)
- Weather
  - Warmest winter ever
  - ... but freezing in the Northeast (>60% of N. American pellet market)
- Korean market explosion and slowdown

# Global Pellet Tour<sup>™</sup>



© Copyright 2015 RISI, Inc.

## **UK Policy Update**

- Climate Change Levy (tax) exemption for renewable energy removed
  - Drax estimates this will cost them £30 million in 2015 and £60 million in 2016
    - Stock dropped > 25% on day of announcement
- Drax still evaluating options for 4<sup>th</sup> unit conversion based on new grandfathering rules
- RWE Lynnemouth conversion under investigation by European Commission whether the CfD awarded violates EC state-aid guidelines

## **Dutch Sustainability**

- Finally the Netherlands has issued official guidelines for sustainability in order for biomass to qualify under its SDE+ subsidy scheme
- "Short" rotation forest (<40yrs)</li>
  - If plantation was established prior to 2008 OK
  - If plantation was established after 2008 on natural or mixed forest Not OK
  - If plantation was established after 2008 on ag or grass land Depends
- "Long" rotation forest (>40 yrs)
  - Wood for pellet production must account for less than 50% by volume (excluding thinnings)
- Timberland certification
  - Required for "forest management units" over 1000 hectares
  - Decreases to 500 hectares by 2022
  - All must be certified by 2026
- Most residuals exempt

## Other European Industrial Markets

#### Denmark

- Large CHP district heating systems
- Demand increasing even faster than anticipated
  - Announcement of Avedore Unit 1 conversion

#### Belgium

- Smoother sailing this year after policy issues regarding higher and better use for raw material in 2014
- All pellets will continue to come from overseas

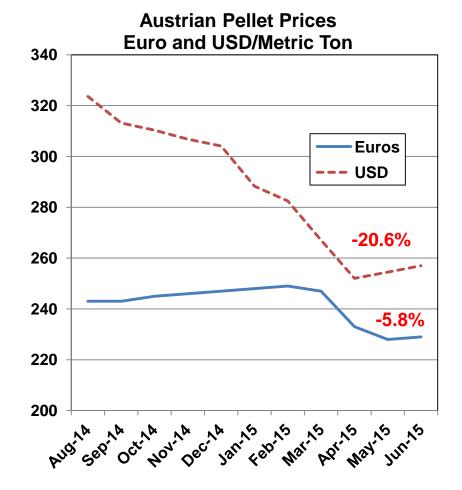
#### France

 Zilkha RE Selma Plant "the advanced waterproof pellets it produces are to provide one-sixth of the heating in the city of Paris this winter"

## **European Heating Markets**

#### Warm winters

- Two extremely warm winters in a row lower demand
- Anomaly or future?
- Global oil prices down
  - Less incentive for consumers to switch
  - Gas and oil prices more closely related in Europe
- Exchange rates
  - Make it nearly impossible for US producers to sell into Europe
  - Helps European producers by removing some additional NA suppliers



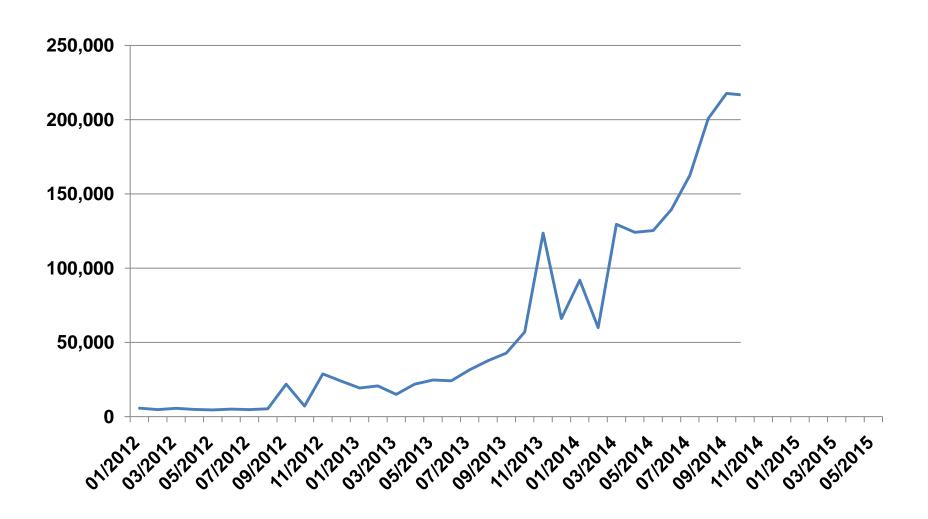
### **Korea in 4 Charts!**

No Words!

...aka how an economist likes to look at things

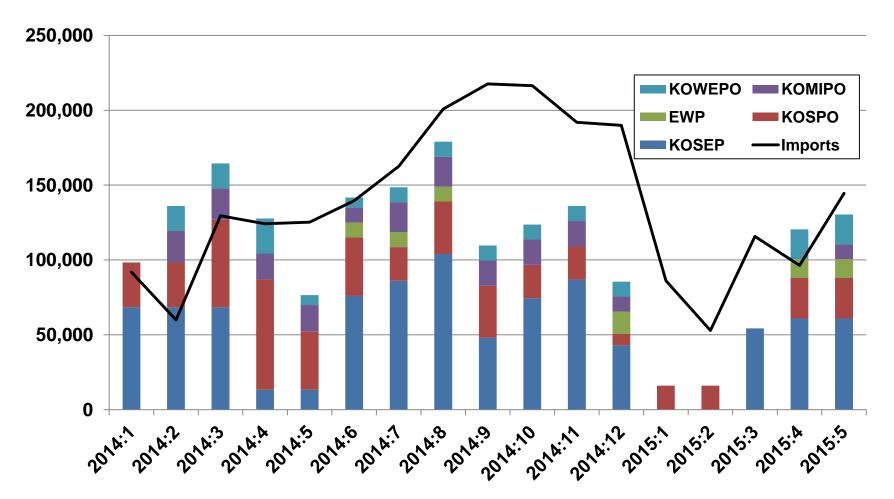
### **Korean Monthly Wood Pellet Imports**

**Metric Tons** 

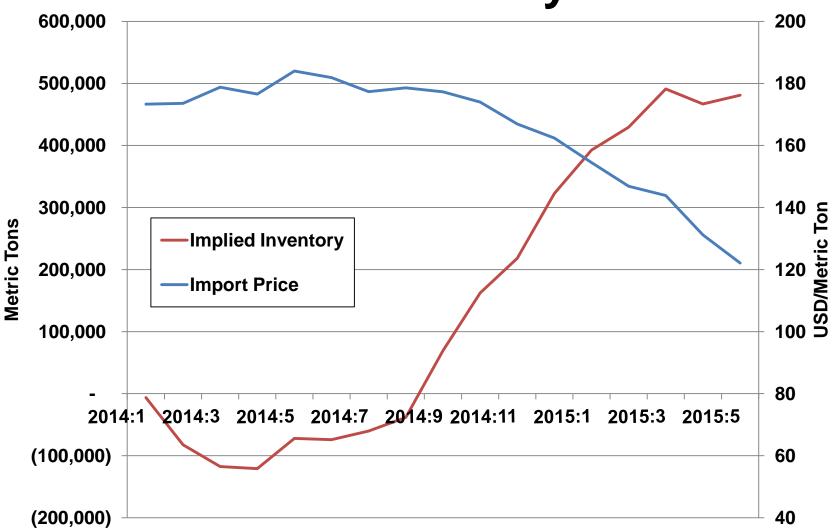


# Korean Pellet Demand by Company and Total Imports

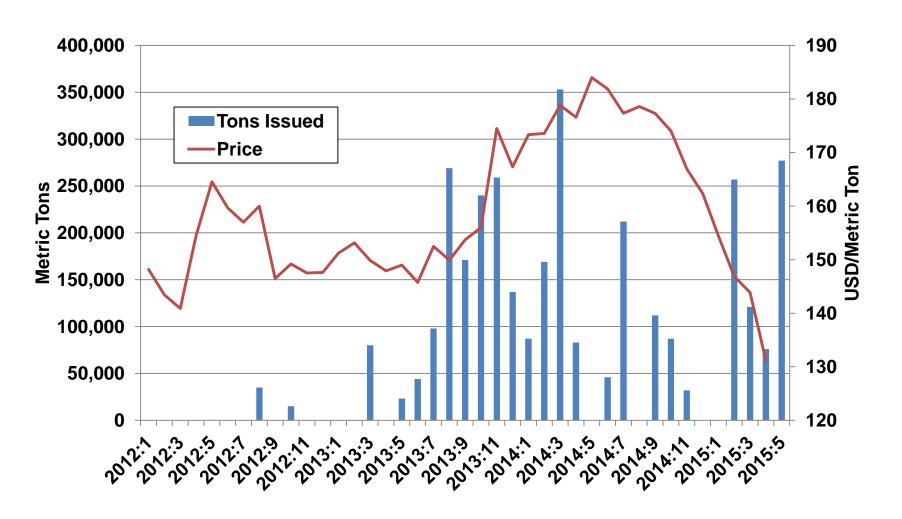
**Metric Tons** 



## **Korean Pellet Inventory and Price**



# Korean Pellet Import Price and Tender Issuances



## **Japan**

- Feed-in-tariff program
  - +24/kWh for other woody materials, including imported chips and pellets
  - 20 year term
- Several mid-sized plants, difficult to differentiate which will use wood pellets, many coming on line 2015-2016
- Some that we believe will use wood pellets:
  - Summit Energy Corporation (Sumitomo) Handa Biomass Power
  - Showa Shell Kanagawa
- Plus side is these companies can and are willing to negotiate long term agreements

## **North American Heating Markets**

- Good year for domestic producers
- Attention has shifted elsewhere allowing demand to catch up with supply
- Prices very strong
  - Cold in the Northeast
- Low oil prices didn't have much of an impact on current year pricing
  - Evidence that consumers who already have pellet stoves use them regardless of competitive fuel prices

## The glass is half...

- '09-13 tough years and industrial development shifted attention away from domestic markets
  - Allowed demand to "catch up"
  - Most investment has been in existing mills, M&A, moving assets
  - After gaining some momentum, do producers over-shoot demand again?
- The fact that oil prices didn't negatively impact pellet demand this year isn't just a good thing

Personal experience - Winter 2015 retail prices in Boston:

- Pellets: \$280/ton = 17.07/mmbtu
- Oil \$1.99/gal = 14.42/mmbtu

What does this do to 2015 appliance shipments?

- Exchange rates and uncertainty in Europe
  - Removal of "buffer" market
  - Do NA industrial producers start looking to heating markets for diversification?

## Thank you for your attention!

For more information:



North American Bioenergy 5-Year Forecast

RISI Special Study: Global Pellet Demand Outlook

www.risi.com/globalpelletdemand

Global Supply Study coming this year too!

#### **Contact Information**

Seth Walker
Bioenergy Economist
RISI
Bedford, MA
swalker@risi.com

+1.781.734.8992

**Twitter @BioEconomist** 

