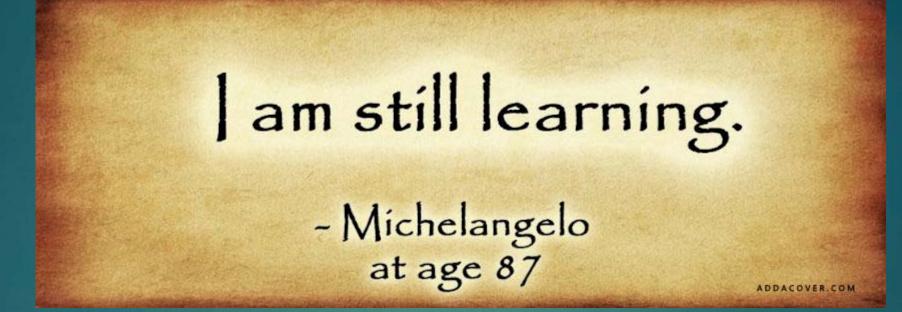
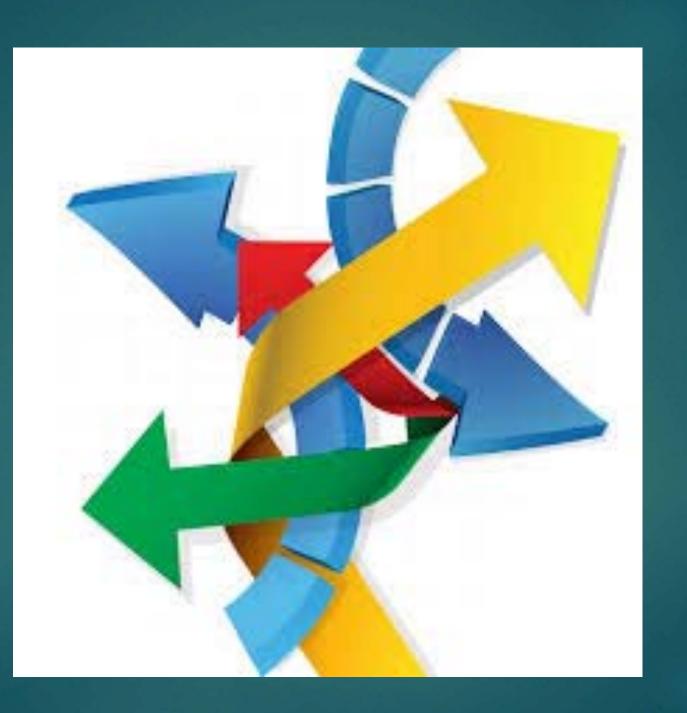
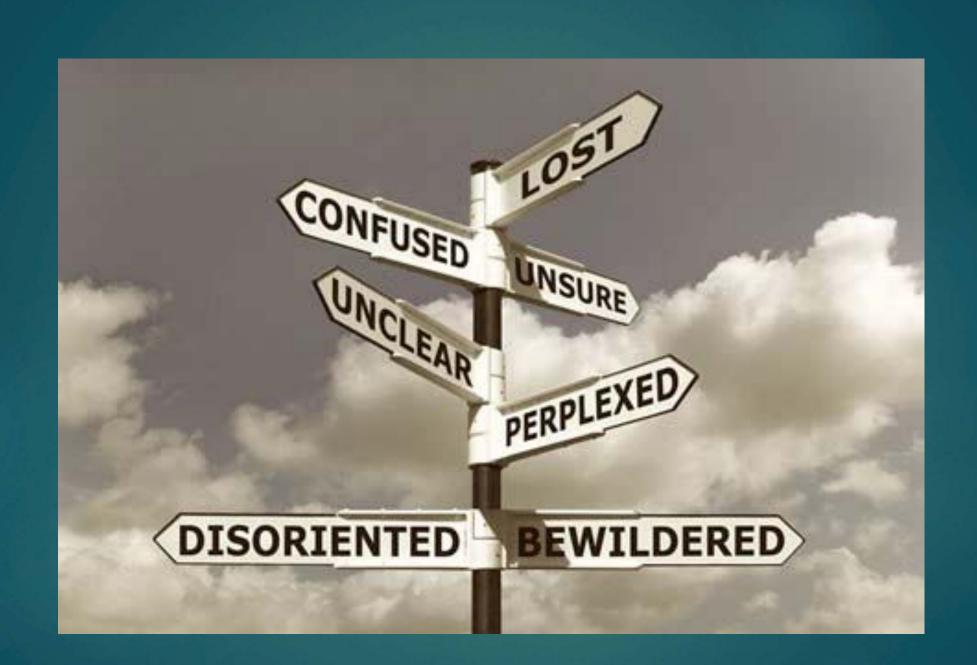
Fram: Ten Years What we've Learned

HAROLD L. ARNOLD PRESIDENT, FRAM RENEWABLE FUELS L.L.C.







Fram's Supplier Plants



Appling County Pellets





Hazlehurst Wood Pellets

Telfair Forest Products

Appling County Pellets, LLC



Telfair Forest Products, LLC

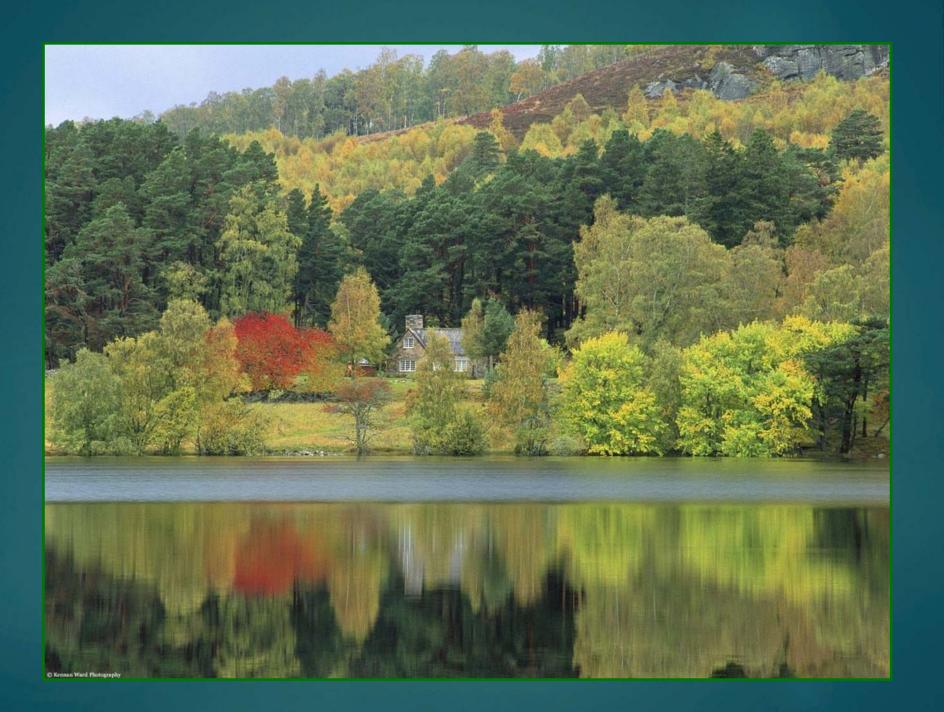


Varn Wood Products



LJR Forest Products

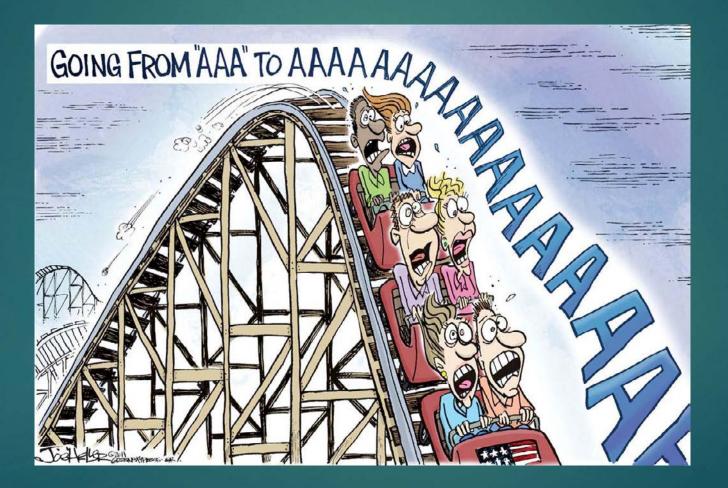




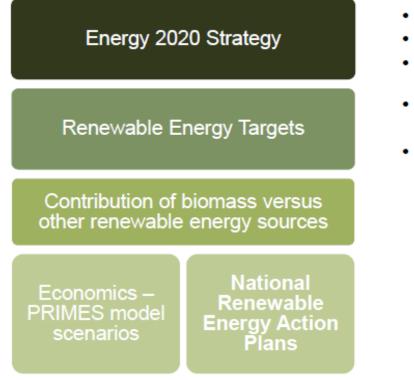




Roller Coaster Ride



European Energy Policy Framework



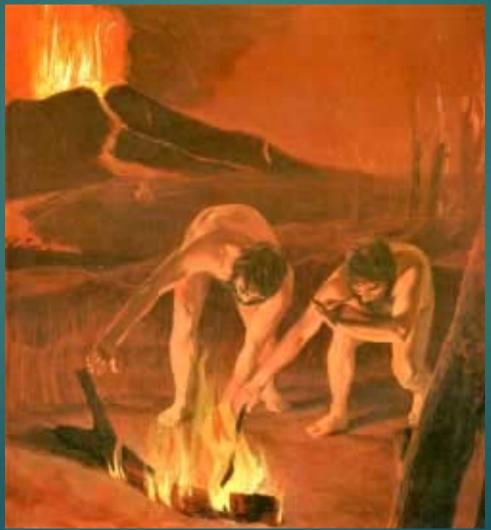
- Cost-efficient scenarios for RES supply
- Targets by sector Measures to meet targets

20% emissions reduction

- 20% efficiency improvement
- 20% renewable energy
- Separate targets for each member state
- Trajectory to 2020



Man RE - Discovers Wood as a Source for Fuel



Biomass: The Oldest New Fuel

Ø Sustainable

Ø Proven

Ø Reliable

Ø Accepted

Ø Quickly Deployable

Ø Least Cost Renewable Option

Ø Net ZERO Carbon Emissions







What is Pellet Fuel?

Pellet fuel is a renewable, clean-burning and cost stable heating alternative currently used throughout North America and Europe. It is a biomass product made of renewable residual's – generally recycled wood waste.



Why Wood Pellets

Sizing and Drying Wood Fiber

Changing the Energy Density

Improving the Transportability

Grades of Wood Pellets

There are two main types of wood pellets. Premium- Ash content is less than 1% Industrial- Ash content is 3% or less



Scattered Supply Dry Storage Particle Size Drying Requirements Material blending of various species









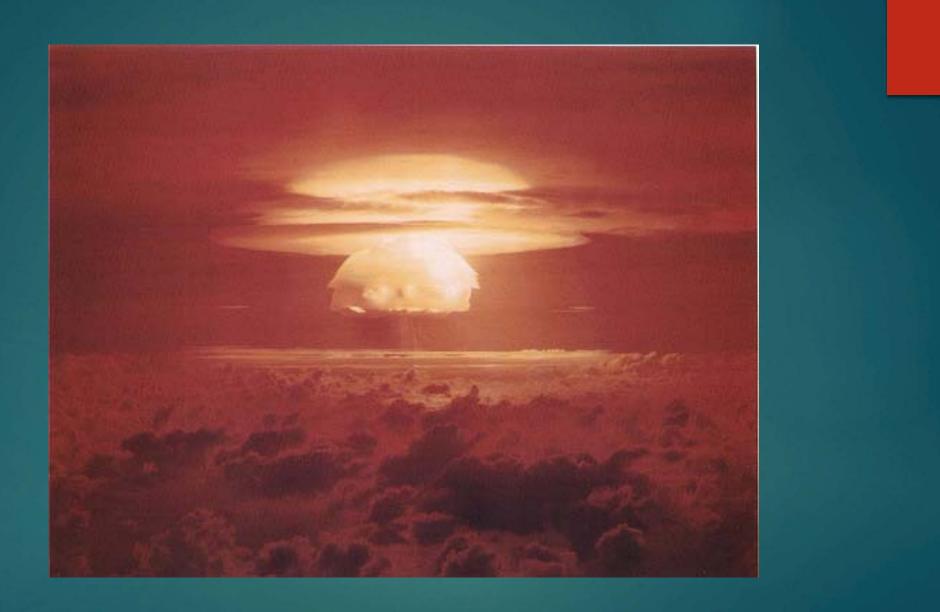


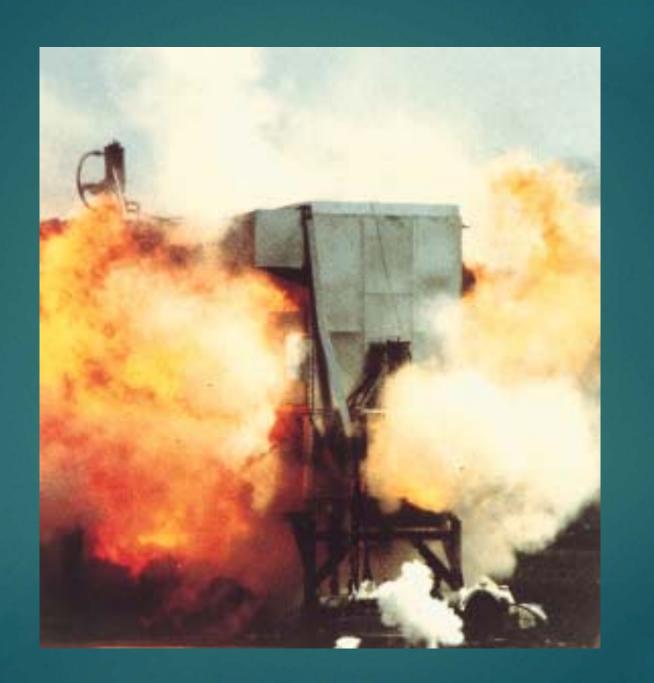
What are wood pellets used for?

Wood Pellets are used for Industrial power plants, CHP (combined heat and power plant), and home heating









Brunswick Port Fire



Logistics.....

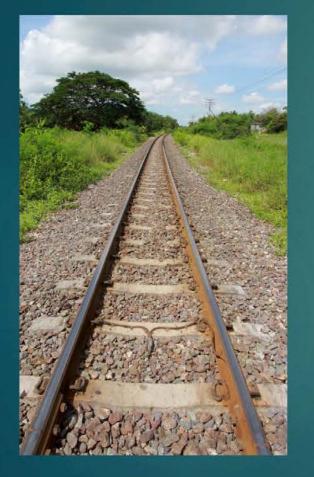


Plan for Challenges..... They will arise!

LOGISTICS: Trucking



LOGISTICS: Rail



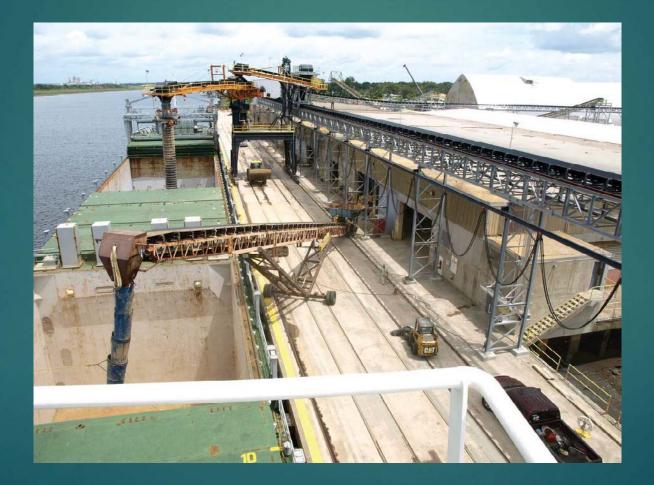


OPTIMIZATION



Logistics = 40% of Delivered Cost

Loading of Vessel







Ocean Freight



Pirate Owners

No Discounts





Smaller = More Expensive

2005 Cost/ton: \$13.50 2008 Cost/ton: \$88.50



Global trade routes



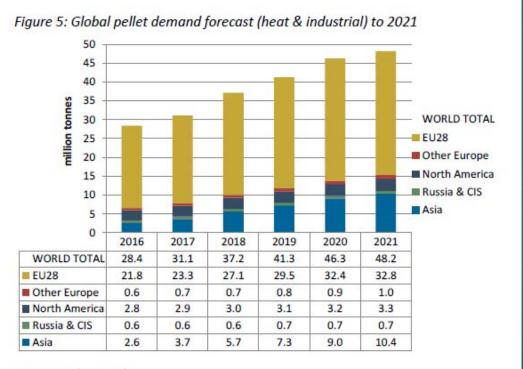
Marketing

Industrial Market Driven by Govt. Subsidies Geographically Diverse Demanding Very Large Buyers Heavy Competition Varying Size Shipping Problems



Residential Market Fickle Market **W**Un-Predictable Seasonal Weather Sensitive **Unforgiving** Customer Service

Wood Pellet Consumption



Source: Hawkins Wright

Japanese Pellet Demand to 2026

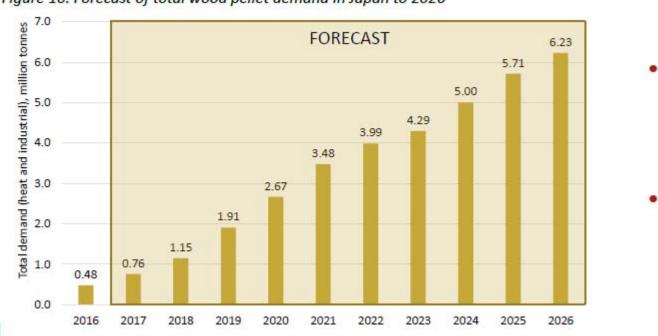


Figure 10: Forecast of total wood pellet demand in Japan to 2026

South Korea Pellet Demand

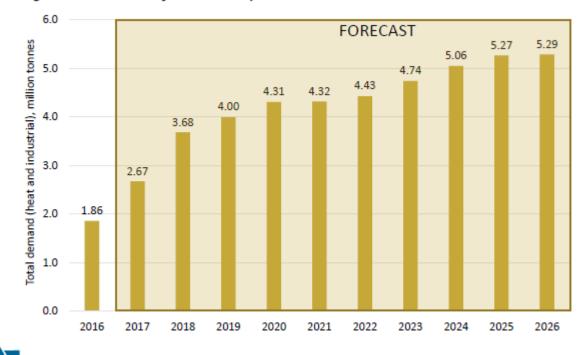


Figure 11: Forecast of total wood pellet demand in South Korea to 2026

EU Heating Demand Forecast 2021

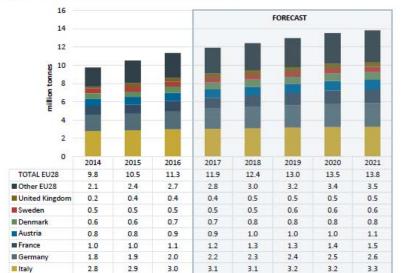


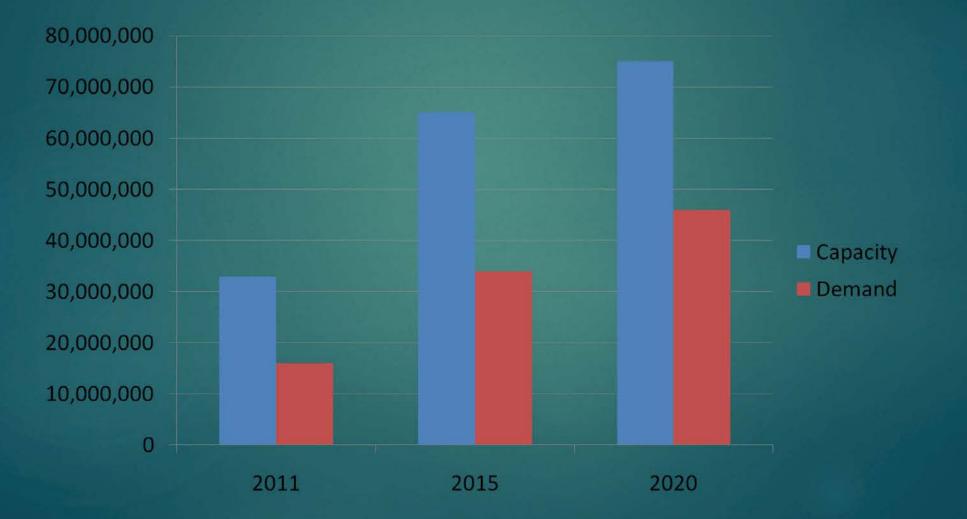
Figure 9: EU heating demand forecast to 2021

Source: Hawkins Wright

Note: Please be aware that there is particular uncertainty in the estimate of demand in Italy presented above. Although the figures published here are broadly in line with those disseminated by the Italian trade association AIEL, we have reason to believe that this figure may overestimate the actual level of consumption in Italy. We will be initiating a review of the Italian market over the next quarter and may revise downwards the demand estimate if better data become available.

Global Market

Demand = 65% of Global Capacity





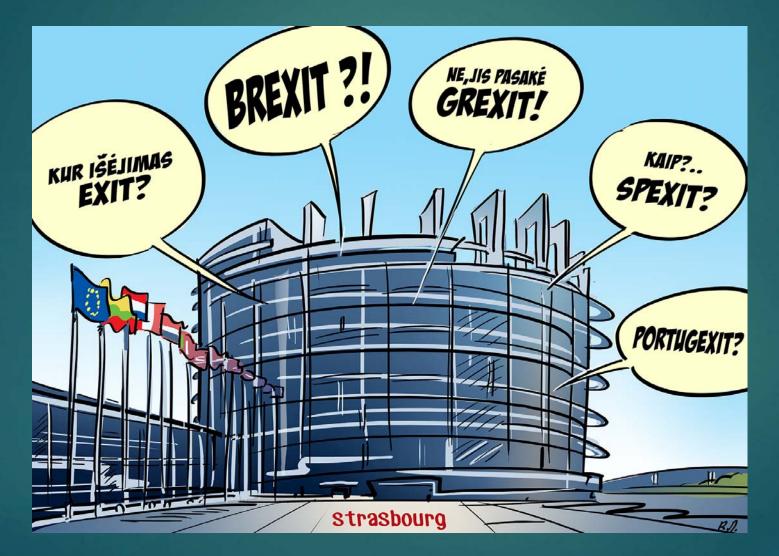
Global Market Factors

Tilbury fire: February 2012 Avedore Fire: August 2012 Delayed UK ROC Release Released August Sustainability Consultation: September 2012 Uncertainty surrounding sustainability

Tilbury Fire- First Market Tremor







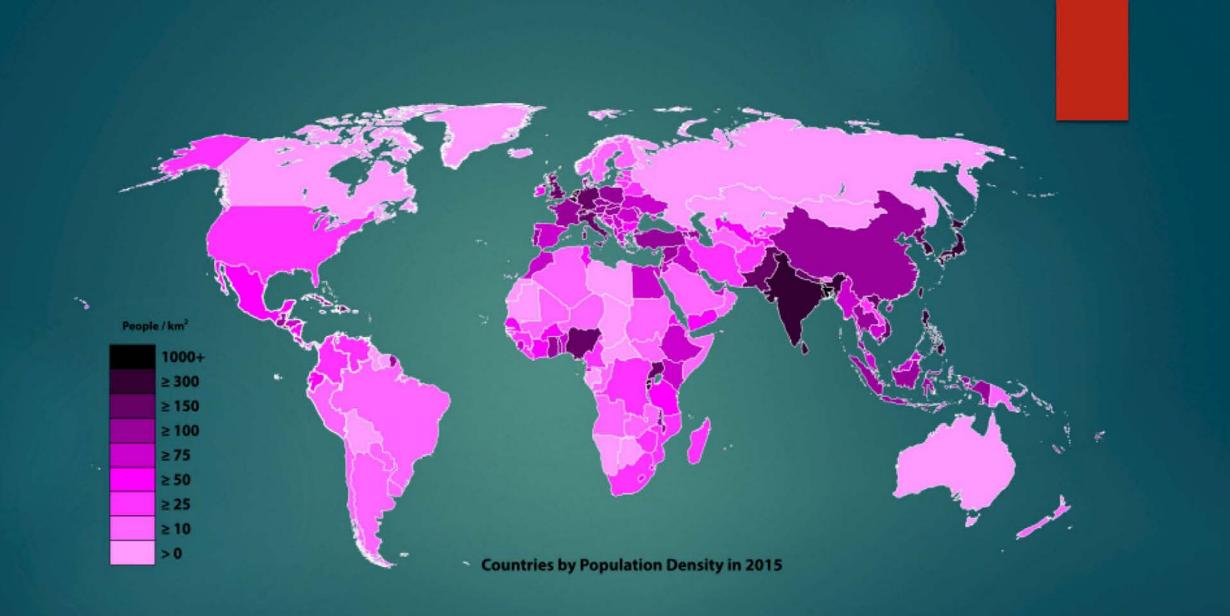
Sustainability- How we are pushed to cut forest









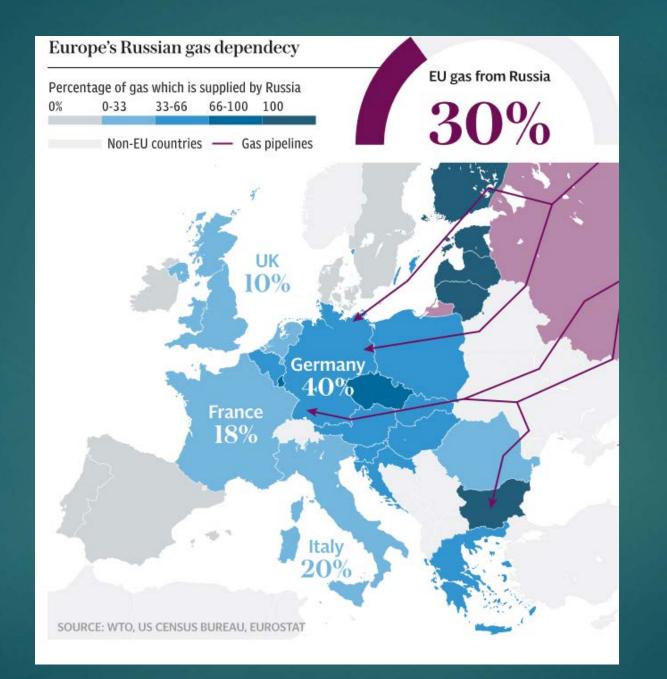


What is to come in the future?

Russian Prime Minister Vladimir Putin exerting his control over EU gas

supply.





Gas Pipelines

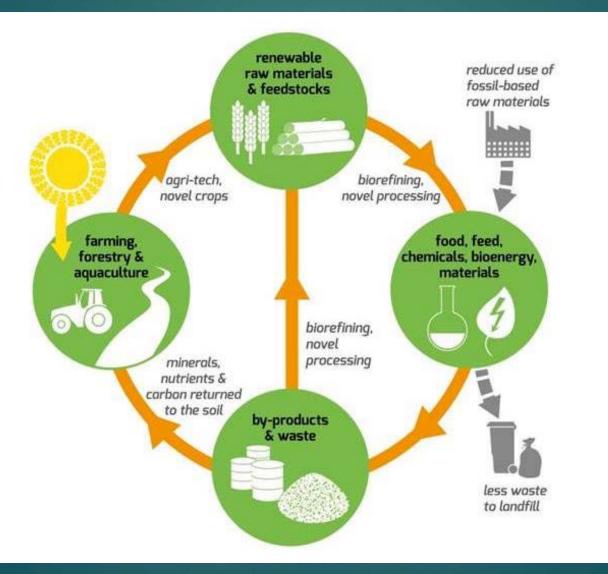




Silk Road



Bioeconomy







Harold Arnold President arnold@framfuels.com