

Firewood Demand, Wood Fuel Quality and Biomass Trade Centres

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FIREWOOD

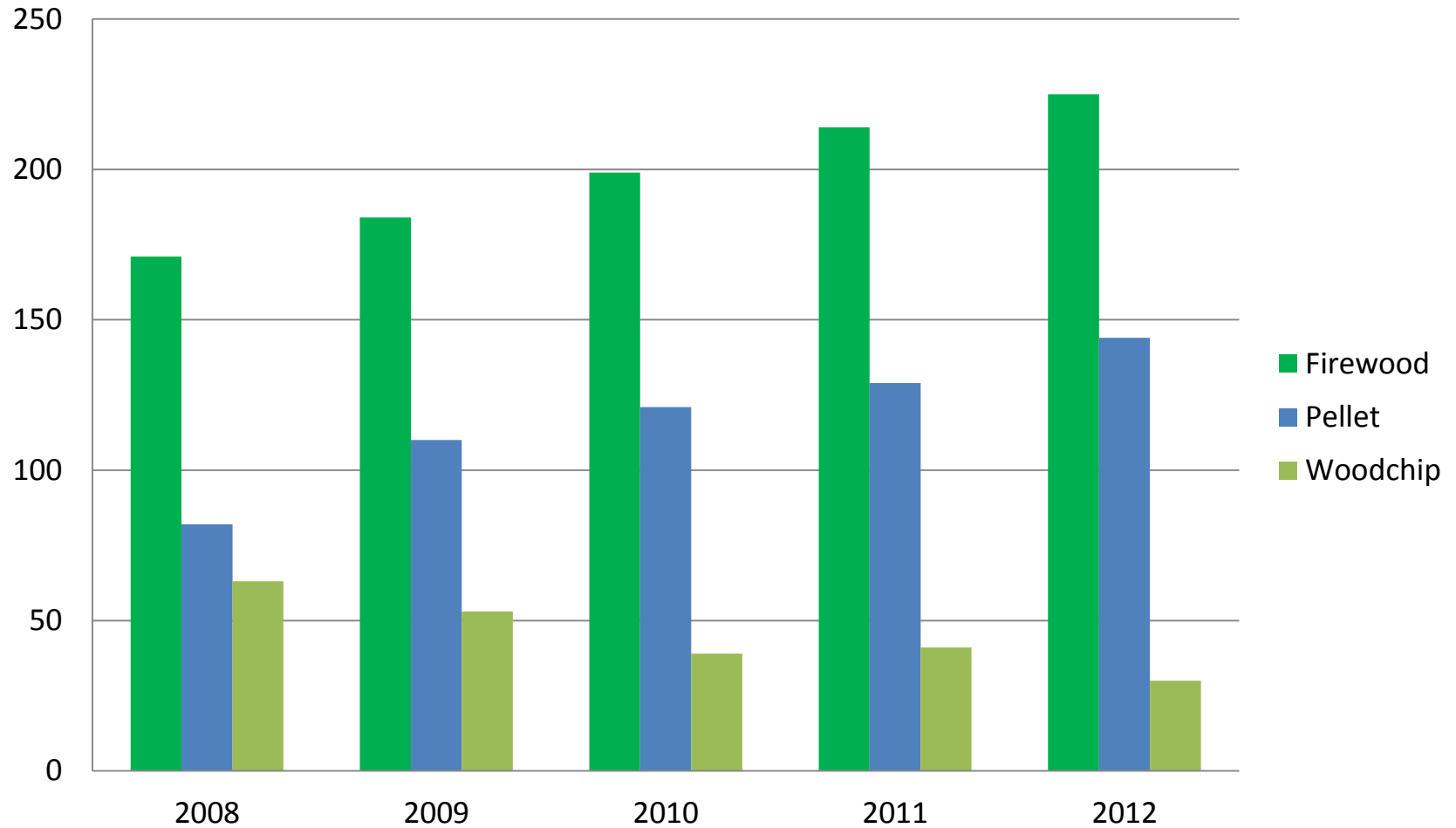


Firewood Demand

- Oil prices high
- Targeted heating
- Surge in stove sales
- Gassification Boilers
- Simplicity of conversion
- Available feedstock



'000 m3 usage (Energy)



*Source: Eoin O'Driscoll – Drima Marketing

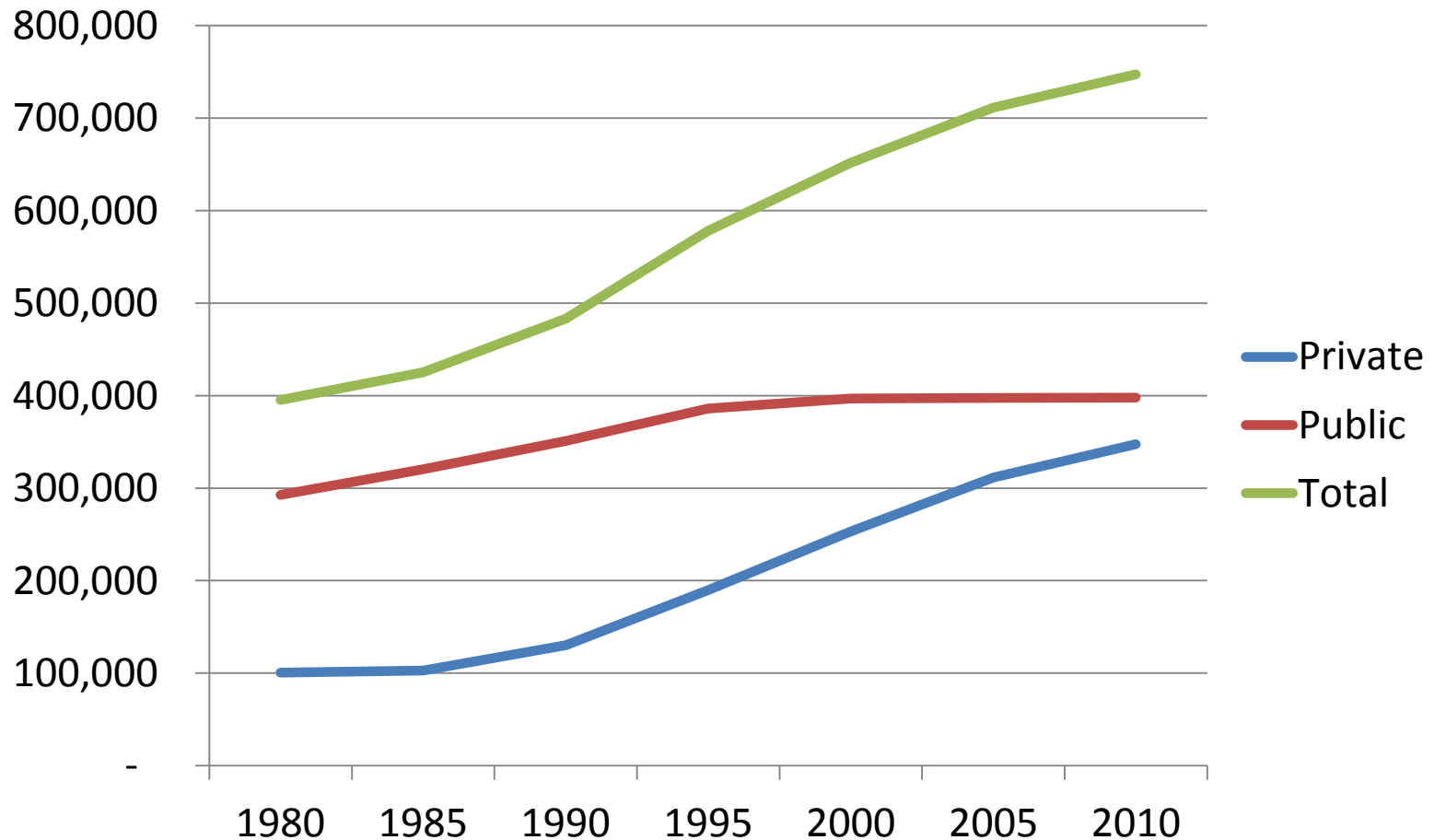
Meeting the Demand

- Feedstock
- Trade Centres
 - Private Processors
 - Co-Operatives
- **Quality**



Feedstock Supply

Land area under Forestry (Ha)



Forestry Source

Public (Coillte)

- Highly organised
- Biomass available through online auctions
- Regular supply possible
- Larger plantations and quantities

Private Growers

- Very fragmented
- Generally single purchase transactions
- Smaller plantations

SOLUTION: Mobilise forest owner groups

What is a Biomass Depot / Trade Centre

- Purchases raw material
- Facilities to process, package, store and market fuel products
- One stop shop for the grower
- One stop shop for the purchaser
- Privately owned or Co-Operative

Setting up a Depot

Requirements

- Site
- Storage Sheds
- Processing equipment
- Office & Weighbridge
- Staff and operation knowhow

Privately owned

- Fast to mobilise
- May be able to utilise existing facility at low cost
- Must purchase all material on the open market

Grower owned (Co-Op)

- Need to form Co-Op
- Animator and time required
- Growers must be mobilised
- Can secure own growers material



BTC II Partners



SFI - Slovenian Forestry Institute (Coordinator) **(WP 1/5/7 Leader)**



Lk Stmk - Styrian Chamber of Agriculture and Forestry **(WP 4 Leader)**

WVB-STMK - Waldverband Steiermark GmbH Styrian Forest Owners Association **(WP 2 Leader)**



AIEL - Italian Agriforestry Energy Association **(WP 3 Leader)**



REGEA - North-West Croatia Regional Energy Agency



CTFC - Forest Sciences Center of Catalonia

AVEBIOM - Spanish Bioenergy Association **(WP 6 Leader)**



CRES - Centre for Renewable Energy Sources and Saving



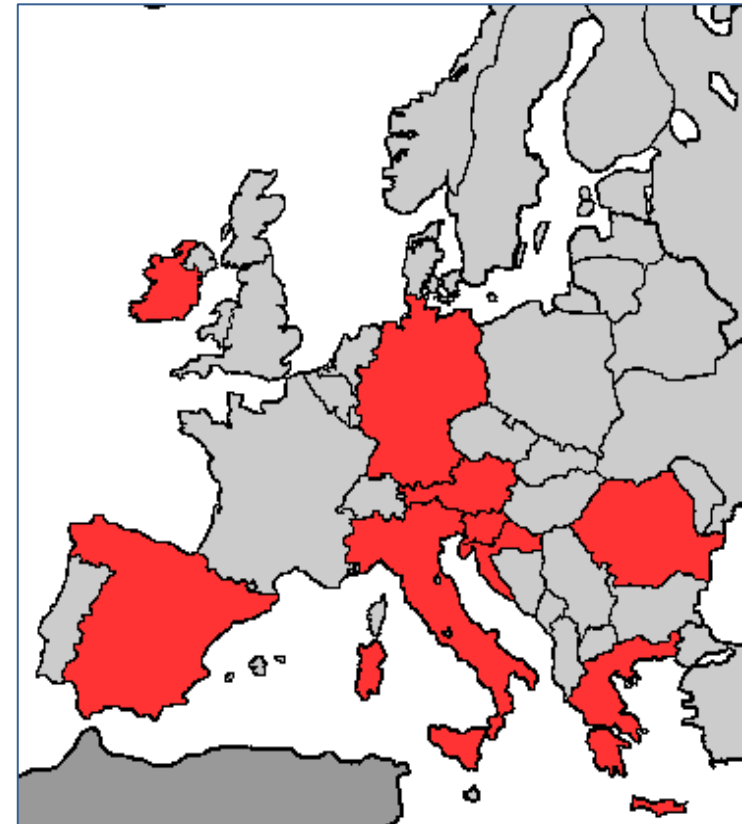
ICPE - S.C. I.C.P.E. BISTRITA S.A.



IrBEA - Irish Bioenergy Association



TUM - Technische Universität München





Quality

- Promote and recognise good practices
- Enhance the reputation of wood fuels in Ireland
- Evidence that the industry is mature
- Give confidence of supply to users
- Encourage new users of wood fuel



Wood Fuel Quality Assurance Scheme

- Pellets, Chips, Logs, Briquettes



What is the



- Opened in 2010
- Certifies wood fuel for:
 - Origin/Sustainability
 - Quality (against any adopted standard)
- Open to all producers on the island of Ireland
- Used as an example for our BTC partners

Quality

Wood Chip

- Size
 - Chipper / not shredder
- Moisture
 - Boiler requirement 20% -60%
 - Dry round timber
 - Floor dry chip



Wood Logs

- Species
 - Hardwood
 - Softwood
- Moisture
 - Dry round wood
 - Seasoned logs
- Size/length



Quality

Wood Pellet

- Dust Level
 - Robustness / manufacturing
 - Moisture
- Moisture
 - 8% standard
- Ash / constituents
 - High hearthwood content
- Delivery

Wood Briquette

- Dust Level
 - Robustness / manufacturing
 - Moisture
- Moisture
 - 8% standard
- Wood Content
 - Hardwood / Softwood
 - High hearthwood content
- Size/length
- Packaging

WFQA Certified Suppliers

- Aughrim Timber and Stake
- Balcas Brites
- O'Brien Timber Products (Celtic Logs)
- Cotter Bros Firewood
- Sherlock Firewood
- Worrell Harvesting
- Hotlogs
- McCauley Woodfuels
- Woodside Garden Products
- Woods Firewood
- K's Sustainable Energy



