



Situation du bois-énergie à l'échelle européenne



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Trelex, Suisse





OUTLINE

- UNECE/FAO Forestry and Timber Section

- Wood energy – why does it matter?

- European wood energy sources

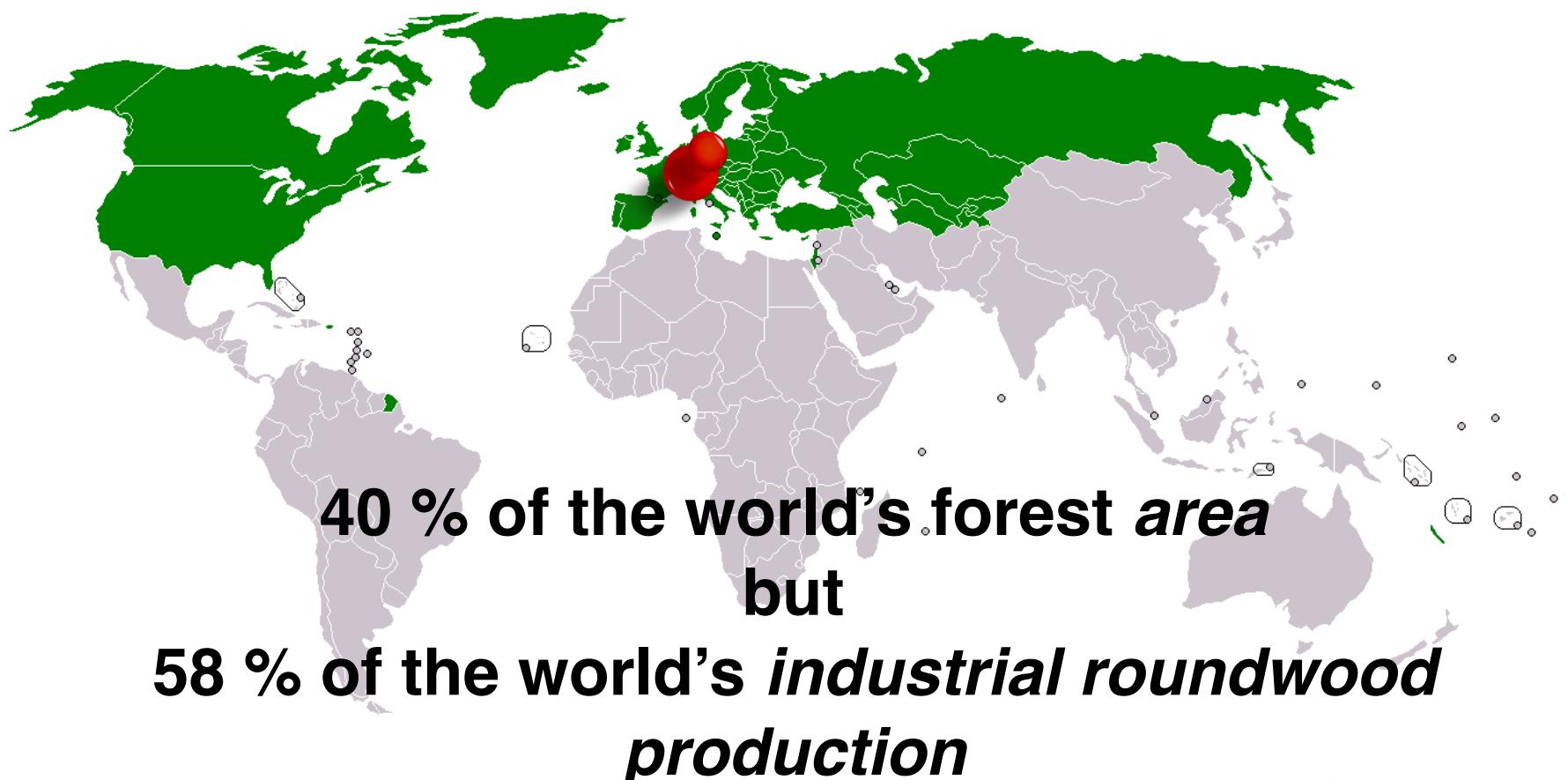
- European wood energy users

- Wood pellets import/export/prices





THE UNECE REGION





FORESTRY AND TIMBER SECTION

WA1

- data, monitoring and assessment

WA2

- policy dialogue and advice

WA3

- communication and outreach

WA4

- capacity building



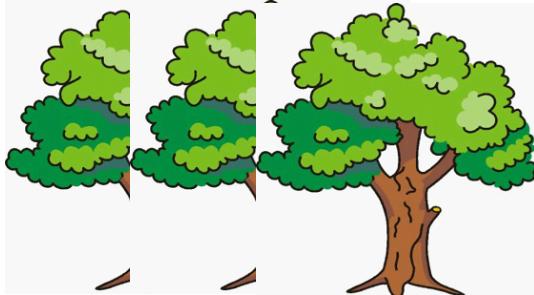


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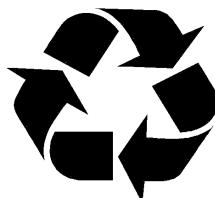
THE FORESTRY PERSPECTIVE



50% of wood removed from forests in the ECE region is directly used for energy generation.



50% of wood removed from forests in the ECE region is used for production of wood products – residues are often used for energy generation

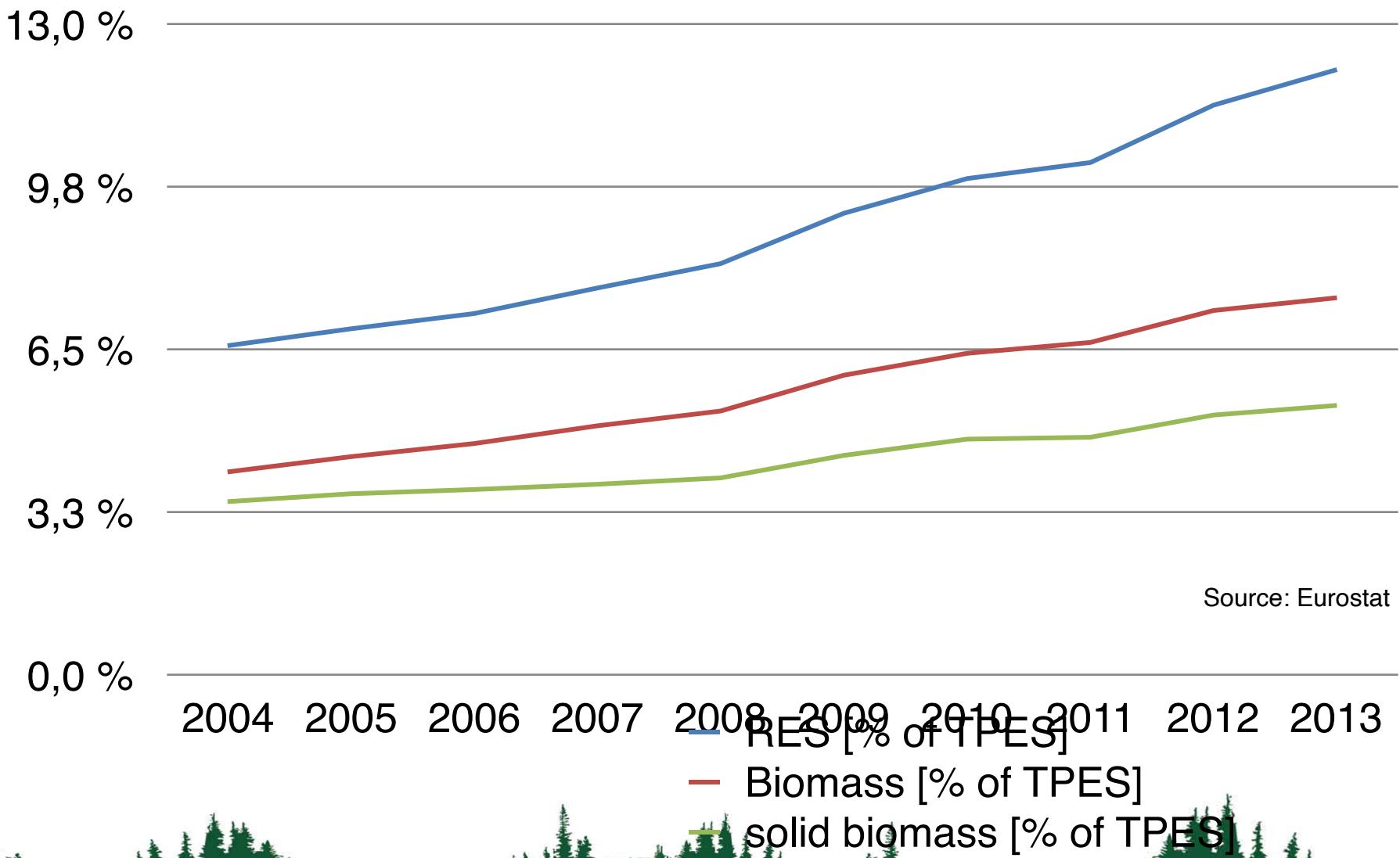


What is the role of post consumer recovered wood (wood waste) in energy generation?





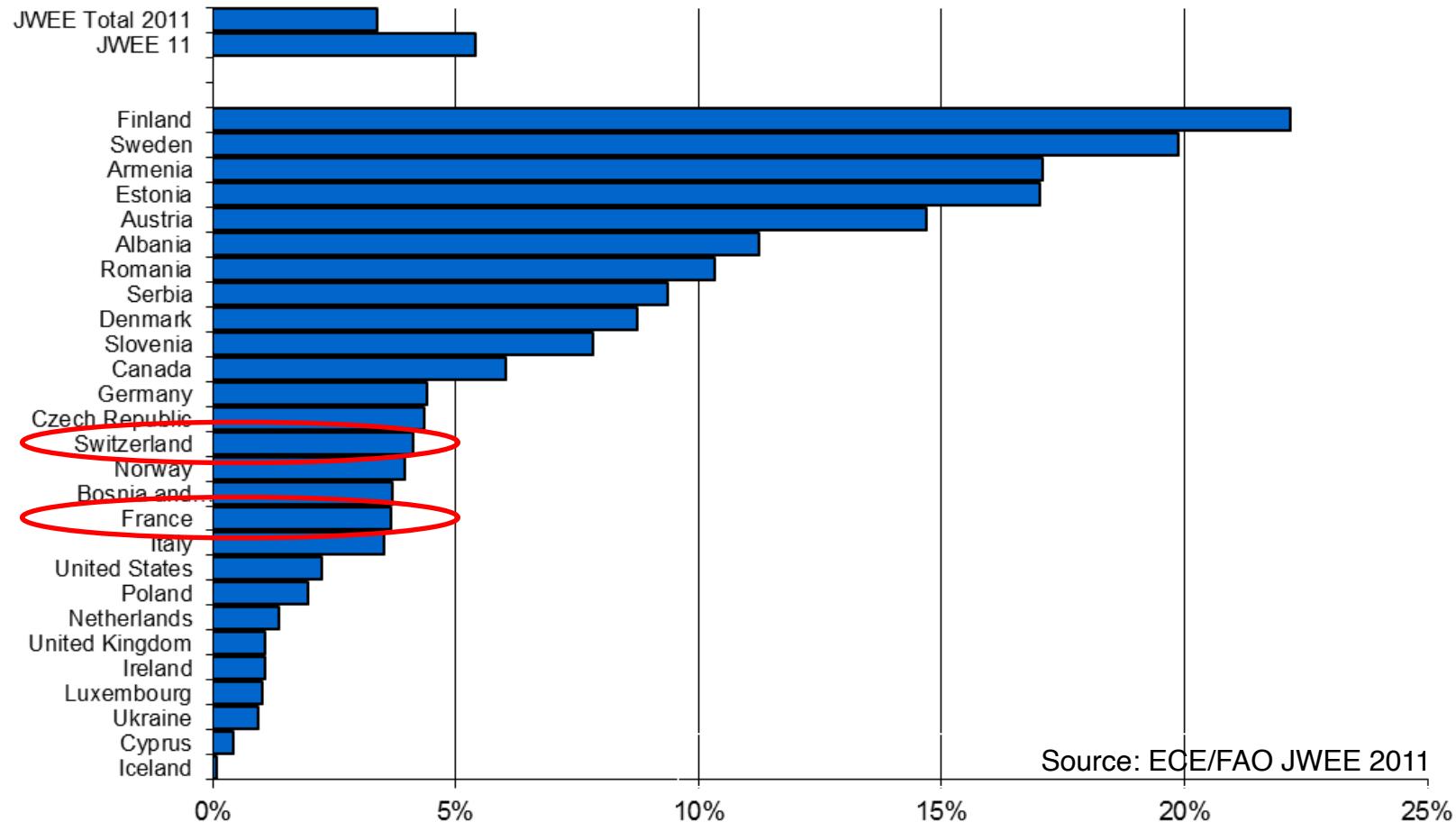
THE ENERGY PERSPECTIVE





SHARE OF WOOD IN TPES*

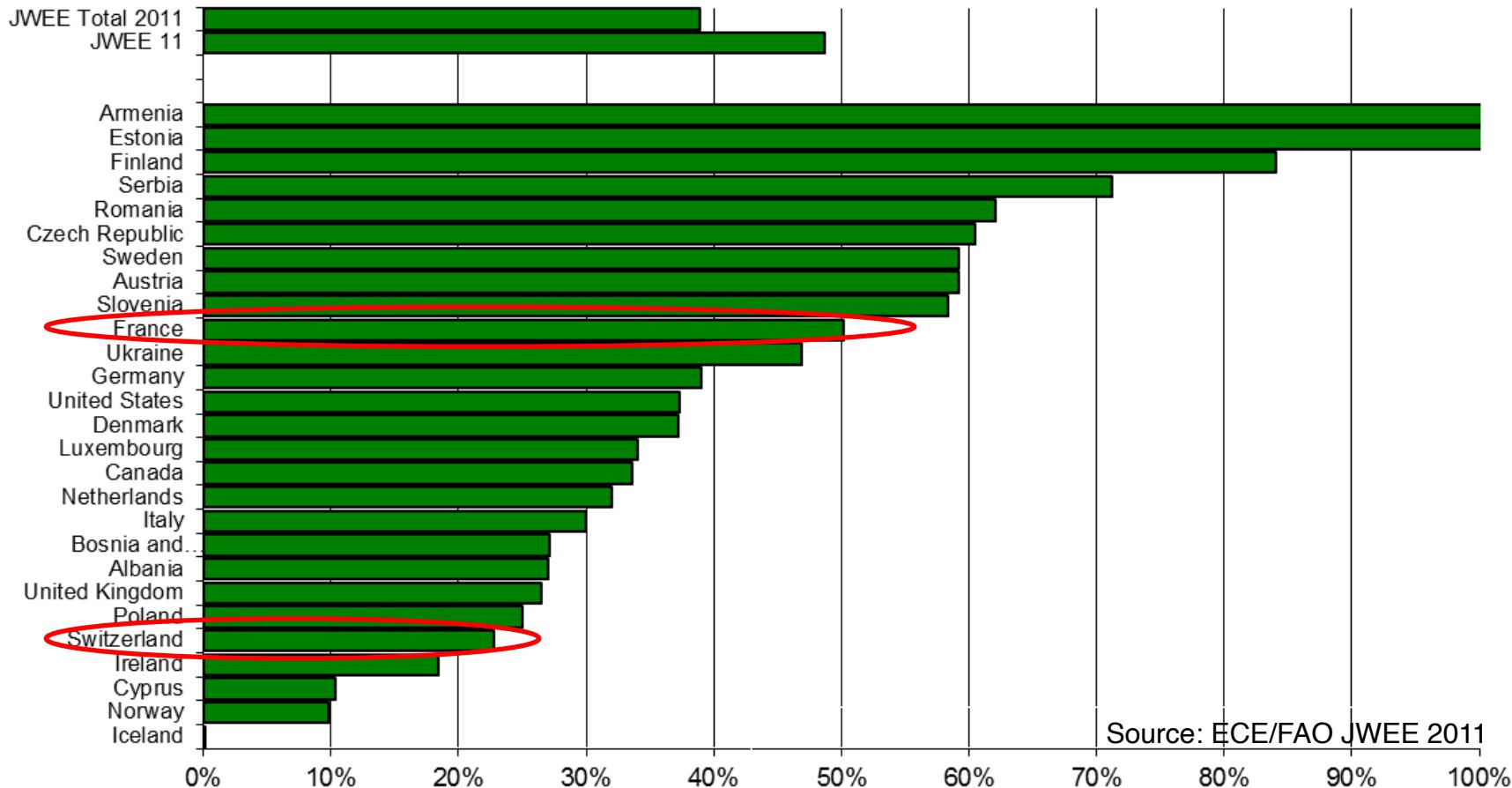
*Total Primary Energy Supply



Source: ECE/FAO JWEE 2011



SHARE OF WOOD IN RENEWABLES





➤ UNECE/FAO Forestry and Timber Section

➤ Wood energy – why does it matter?

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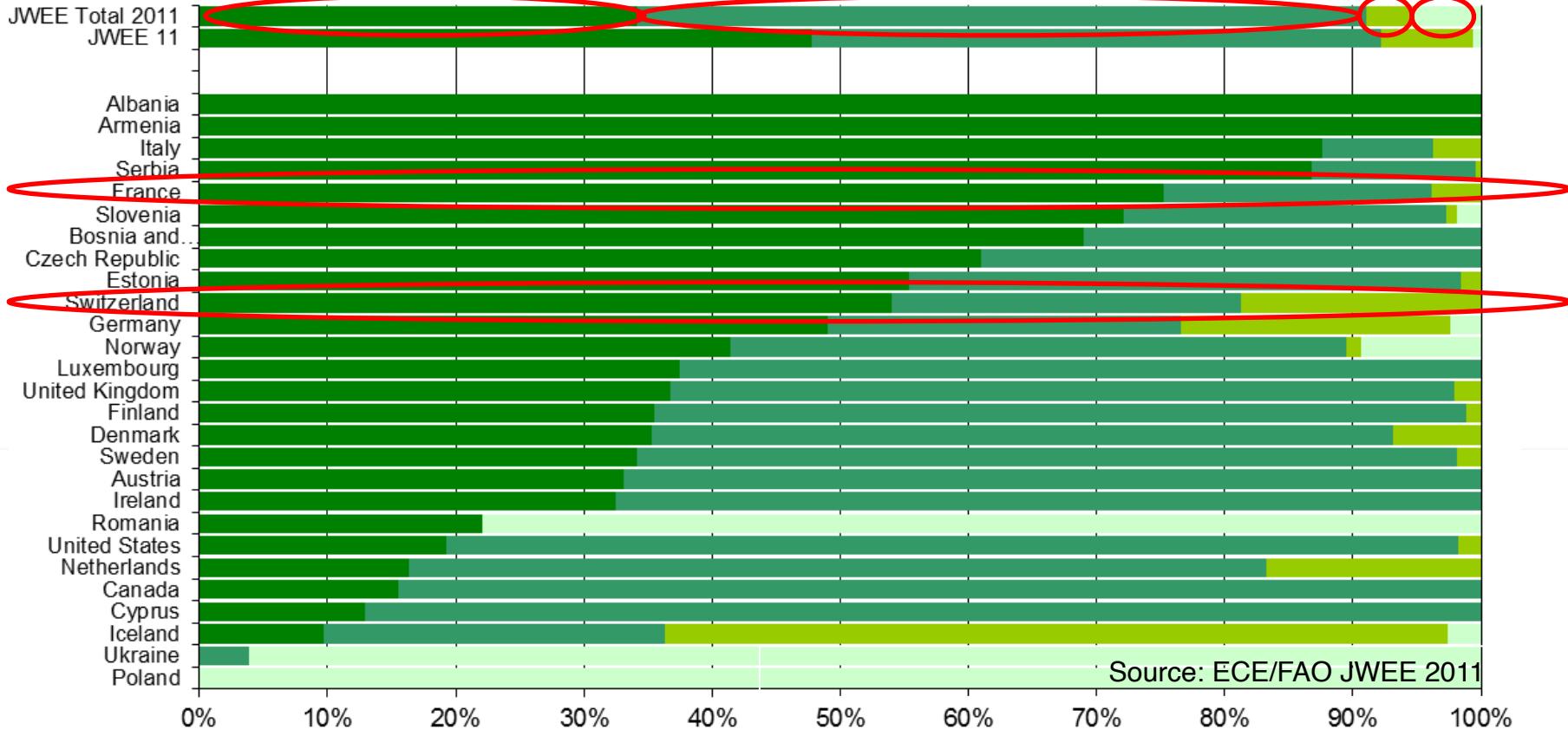
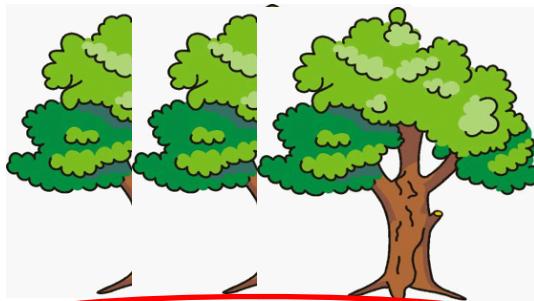
➤ European wood energy users

➤ Wood pellets import/export/prices





SOURCES OF WOOD ENERGY





➤ UNECE/FAO Forestry and Timber Section

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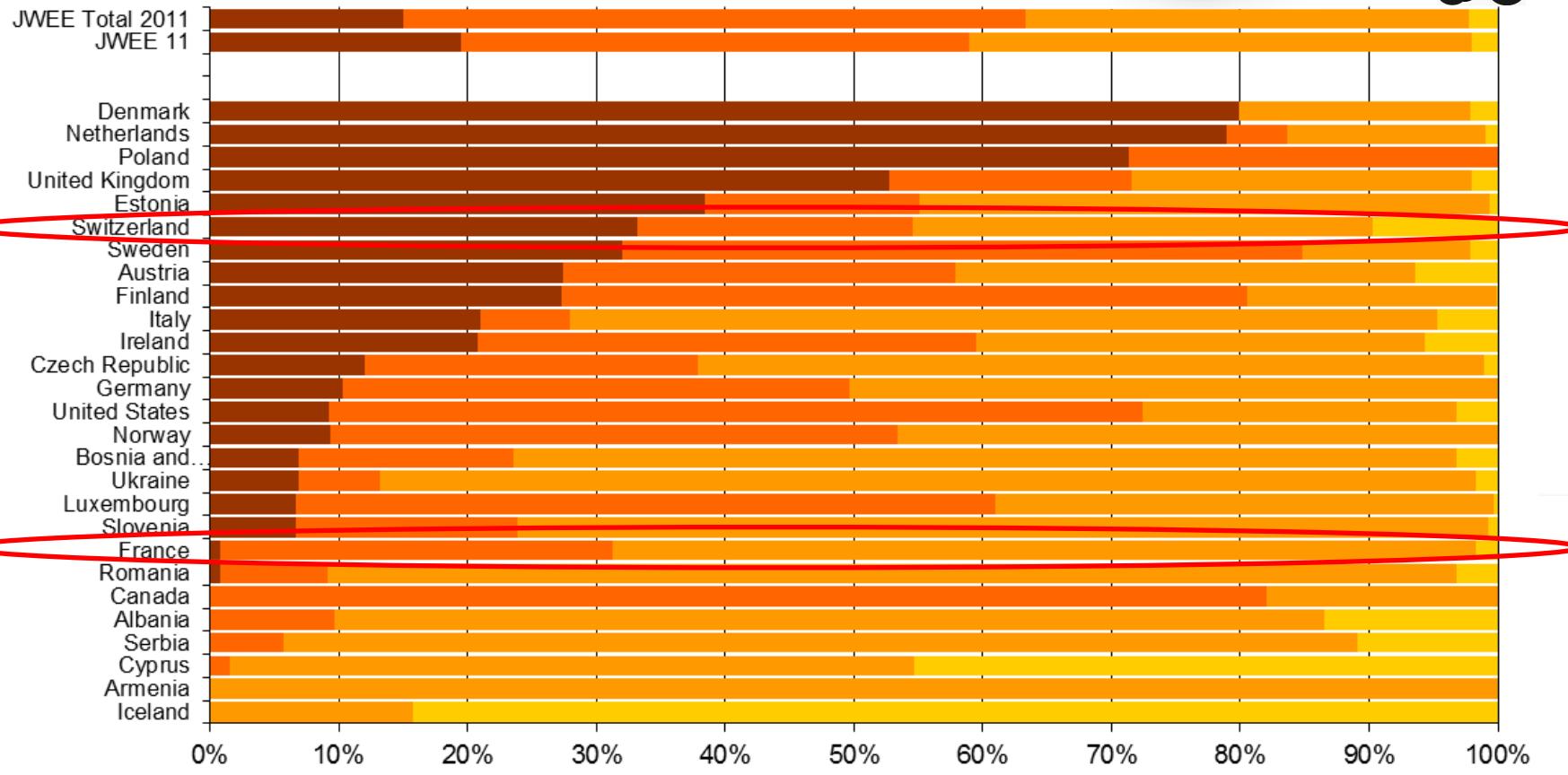
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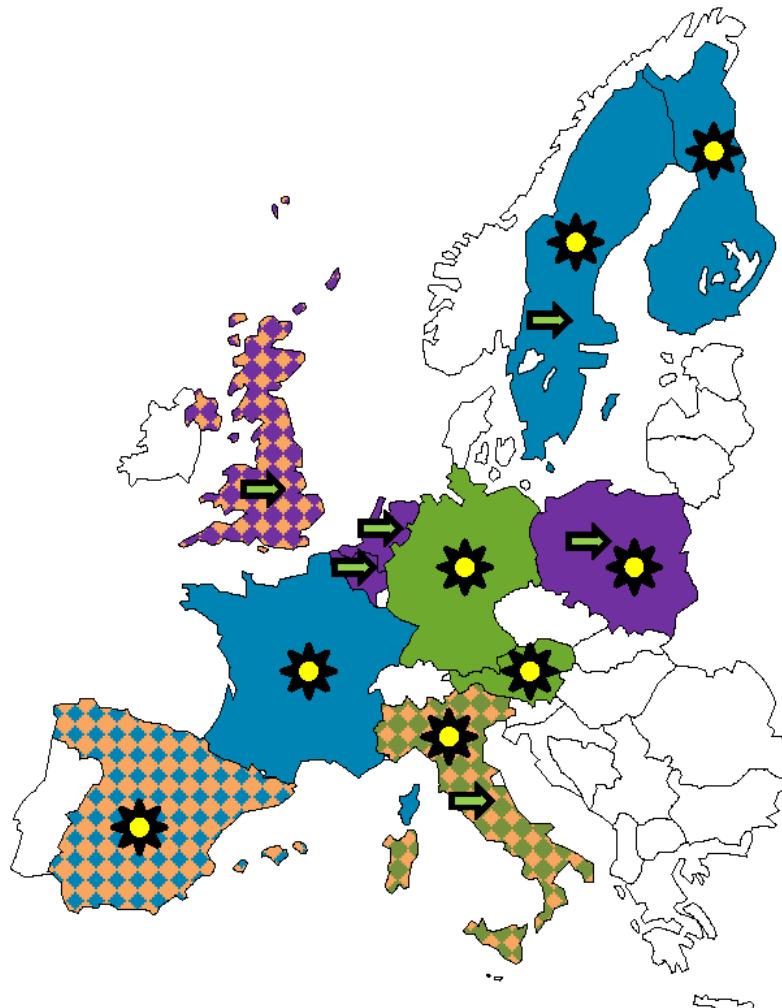
USERS OF WOOD ENERGY



Source: ECE/FAO JWEE 2011



WOOD ENERGY USE PATTERNS



Cogénération de faible et moyenne puissance (<10 MWe)

Cogénération de moyenne à forte puissance (≥ 10 MWe)

Centrales électrogènes (≥ 10 MWe)

Co-combustion dans les centrales à charbon (voire conversion totale)

Place importante du chauffage individuel

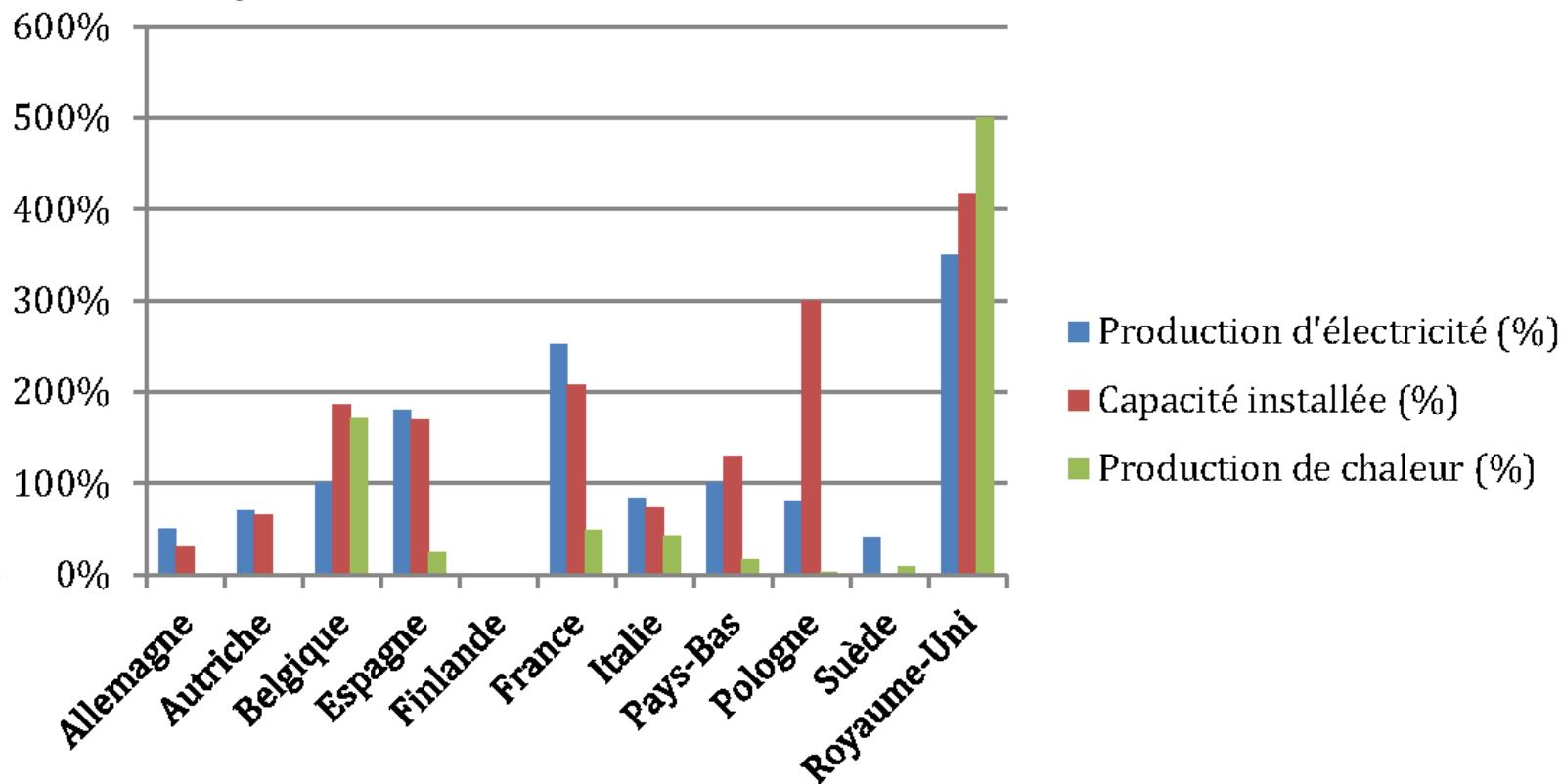
Part importante de biomasse importée dans le pays

Source: Marchés internationaux de la biomasse énergie, 2014



INCREASED DEMAND FORECAST

Taux de croissance nécessaire entre 2010 et 2020 pour atteindre les objectifs 2020 sur la biomasse solide dans différents pays européens (énergie finale)



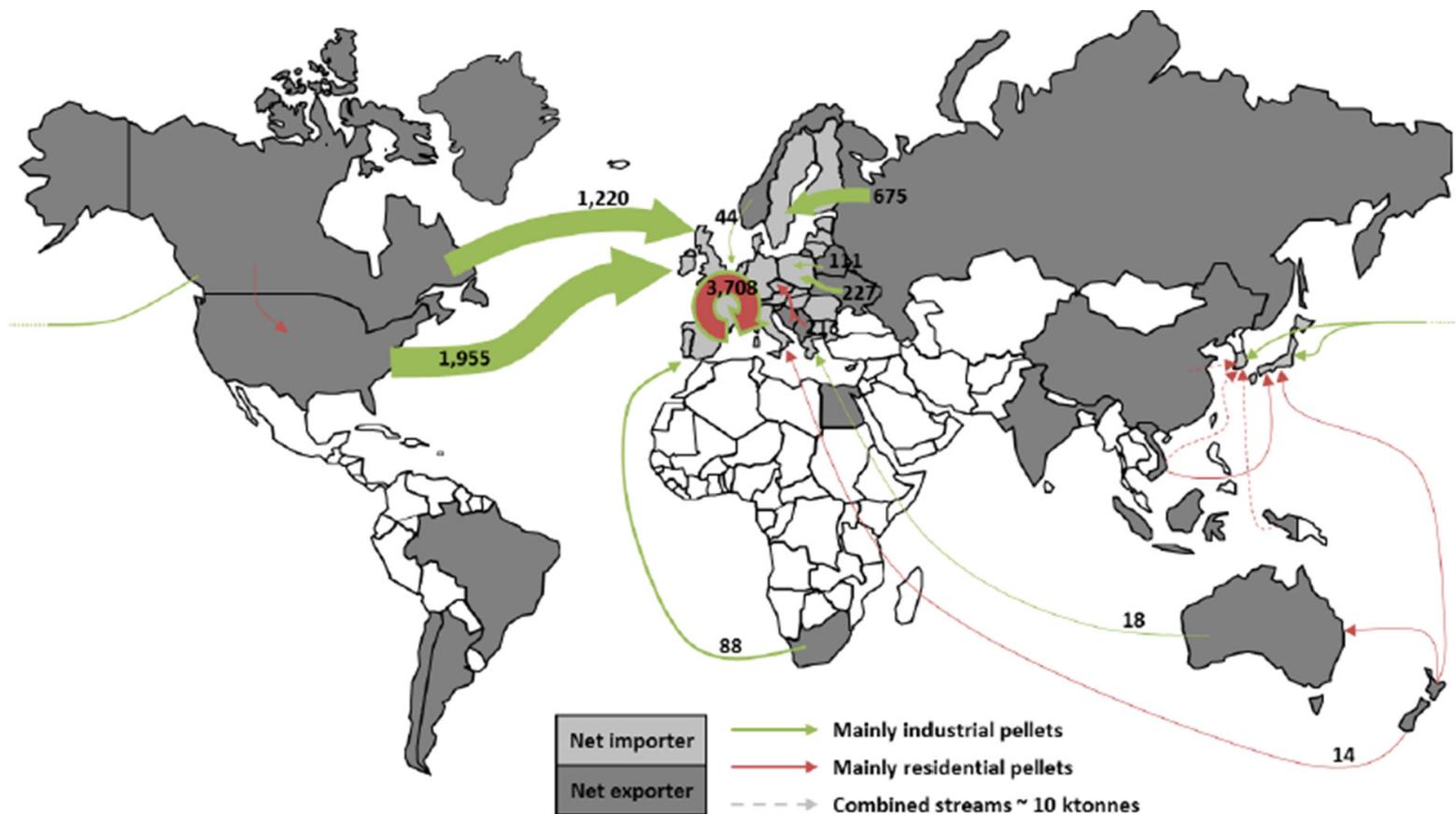


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WOOD PELLET TRADE 2012



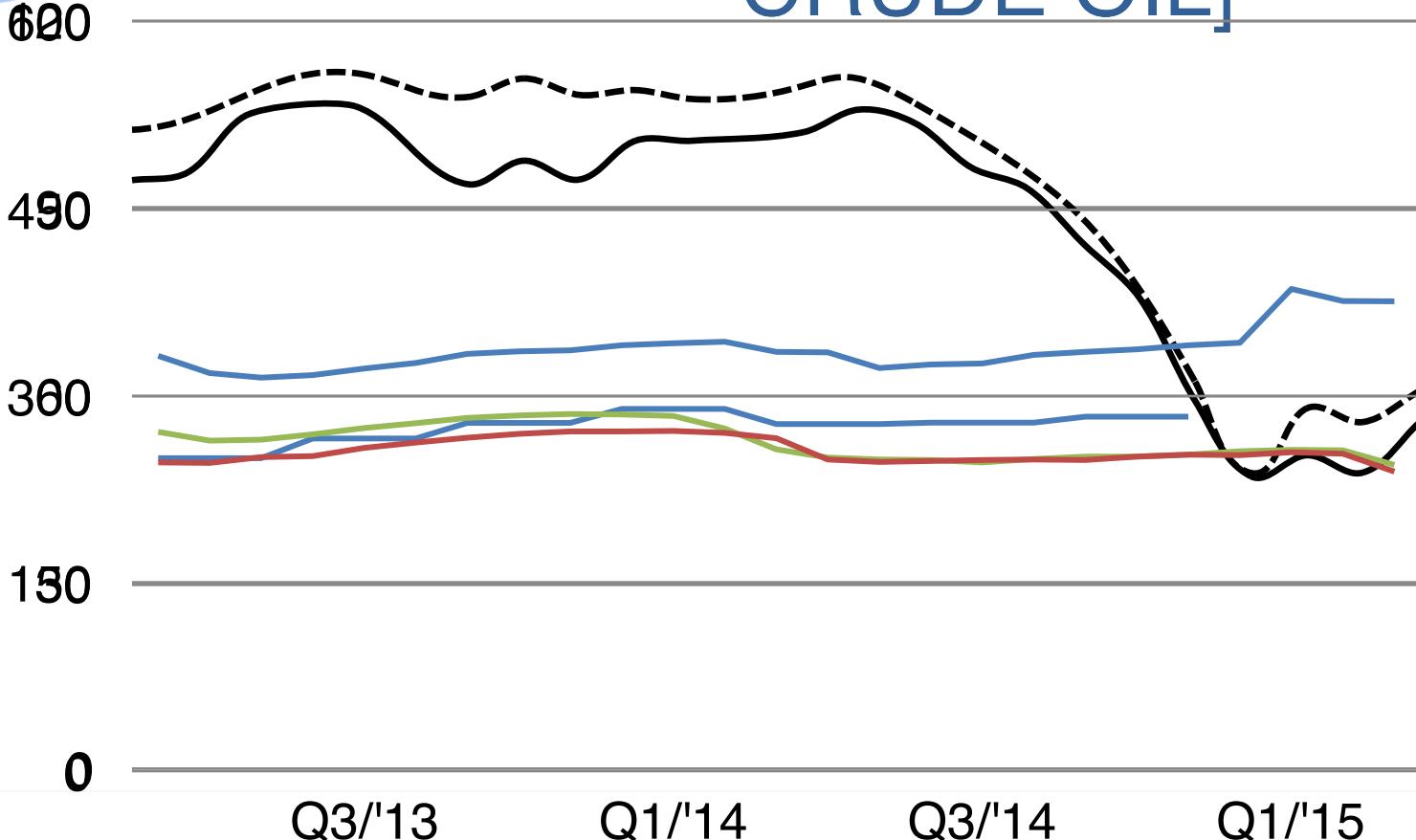
Source: Marchés internationaux de la biomasse énergie,
2014



PRICE VOLATILITY [PELLETS/ CRUDE OIL]

Euro / metric tonne

\$US / barrel



— Switzerland — Austria — Germany — Sweden — Finland — Norway
— France Sources: EIA, www.carmen-ev.de, www.propellets.at, <http://developpement-durable.bsocom.fr>



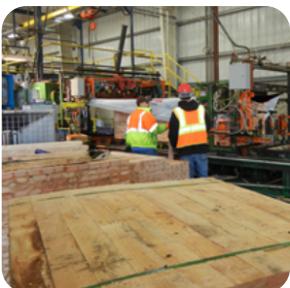
CONCLUSIONS

- Wood energy is important for both, energy and forestry sector
- Wood fuel ≠ Firewood
- Forests are one source among many
- Fuelwood is important for heating individual homes
- Pellets are becoming an important international commodity
- Oil price volatility higher than prices for pellets
- Wood pellets stable, growing markets





Thank you for your attention !



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