Figure 57: Barriers to cascading and potential solutions

Barrier

- Improved cascading requires changes in behaviour patterns and structure
- Lack of data on wood use and cascading
- Lack of responsibility / ownership of cascading between

sectors Wood outside forests Resource stocks: Imports & forests exports Composting **Nood processing** & manufacture Wood products Material Recycling Consumption and use

Measure/Solution

- Improved awareness raising and training
- Development of supporting / responsible bodies
- Investment in R&D and enabling measures
- Improved data reporting requirements incl. a register of wood resources and wastes
- Development of bio-economy clusters

1 Barrier

- Fresh wood available cheaply and easily in some Member States
- Current wood sector geared towards softwood

Measure/Solution

- Promotion of cascading like other recycling
- Technology R&D to utilise hardwoods more

Barrier

- Promotion of use of wood
 Harmonisation or RES for energy competes with cascadable resources
- Energy and material use dealt with separately in policy

Measure/Solution

- policy and material policy under RE agenda
- Include material hierarchy in sustainability criteria for bioenergy and biofuels

3 Barrier

- Creating cascadable products could be costly
- Some products (MDF) can not use recovered wood easily

Measure/Solution

- Technology R&D
- Improved labelling and consumer awareness raising to create new markets

Barrier

 Quality standards limit potential to integrate recovered wood

Measure/Solution

 Review quality standards necessary for certain products and end uses

- Limited markets for cascaded wood currently
- Market value does not reflect resource use/quality •

Measure/Solution

- GPP
- Awareness raising, labelling, promotion activities
- **Economic instruments** reduced tax

Barrier

- for wood in the EU
- Wood not collected separately in some cases

Measure/Solution

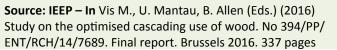
- Inconsistent collection rates
 Separate collection of wood waste across the EU
 - Harmonised categorisation
 - EPR schemes legal requirements for recycling

Barrier

- No reliable technology to recover certain wood fractions (e.g. MDF)
- High energy requirement for reprocessing
- Contamination of waste wood
- Legal status of wood limits recovery
- Incomplete implementation of EU landfill Directive
- Energy recovery can cope with a range of waste materials

Measure/Solution

- Technology R&D
- Improved scanning and collection technology, esp. mobile tech
- Measures to encourage MS to meet landfill Directive targets
- Change in legal status of certain wood waste
- End of waste criteria for some wood products
- · Design for cascading



Energy recovery

Disposal without

recovery