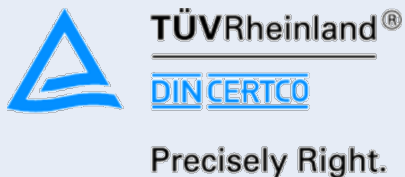


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Gesellschaft für Konformitätsbewertung mbH

The importance of the quality of the pellets for home heating

Marcus Blachnik, 28th September 2013



We create confidence!



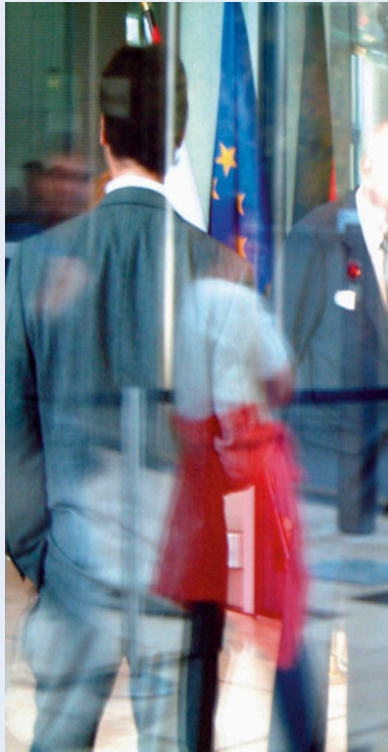


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DIN CERTCO – Data and Facts



1972	Foundation of „DGWK“ Deutsche Gesellschaft für Warenkennzeichnung
1995	Change of name into DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
2005	80 % of shares were taken over by TÜV Rheinland Group (TRLP) 20 % of shares are still held by DIN Deutsches Institut für Normung e. V.
Headquarter	Berlin (Branches in Bonn and Nuremberg)
Personnel	38
Turnover 2012	€ 6.0 Mio.
Certificates	12.450
Customers	4.000



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Certification of Solid Biofuel



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DIN



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Competence und Transparency

DIN CERTCO is:

a certification body, accredited by German DAkkS according to
[DIN EN 45011](#)

neutral

independent and

competent



recognized by German DIBt as “[ÜZ-Stelle](#)” (Inspection and Certification)

[Notified Body](#) (No. 0196) by European Commission

[empowered](#) by CCB as certification body for granting the [KEYMARK](#)

and maintains a certified [QM-system](#) according to [DIN EN ISO 9001](#)

Certification of Solid Biofuel



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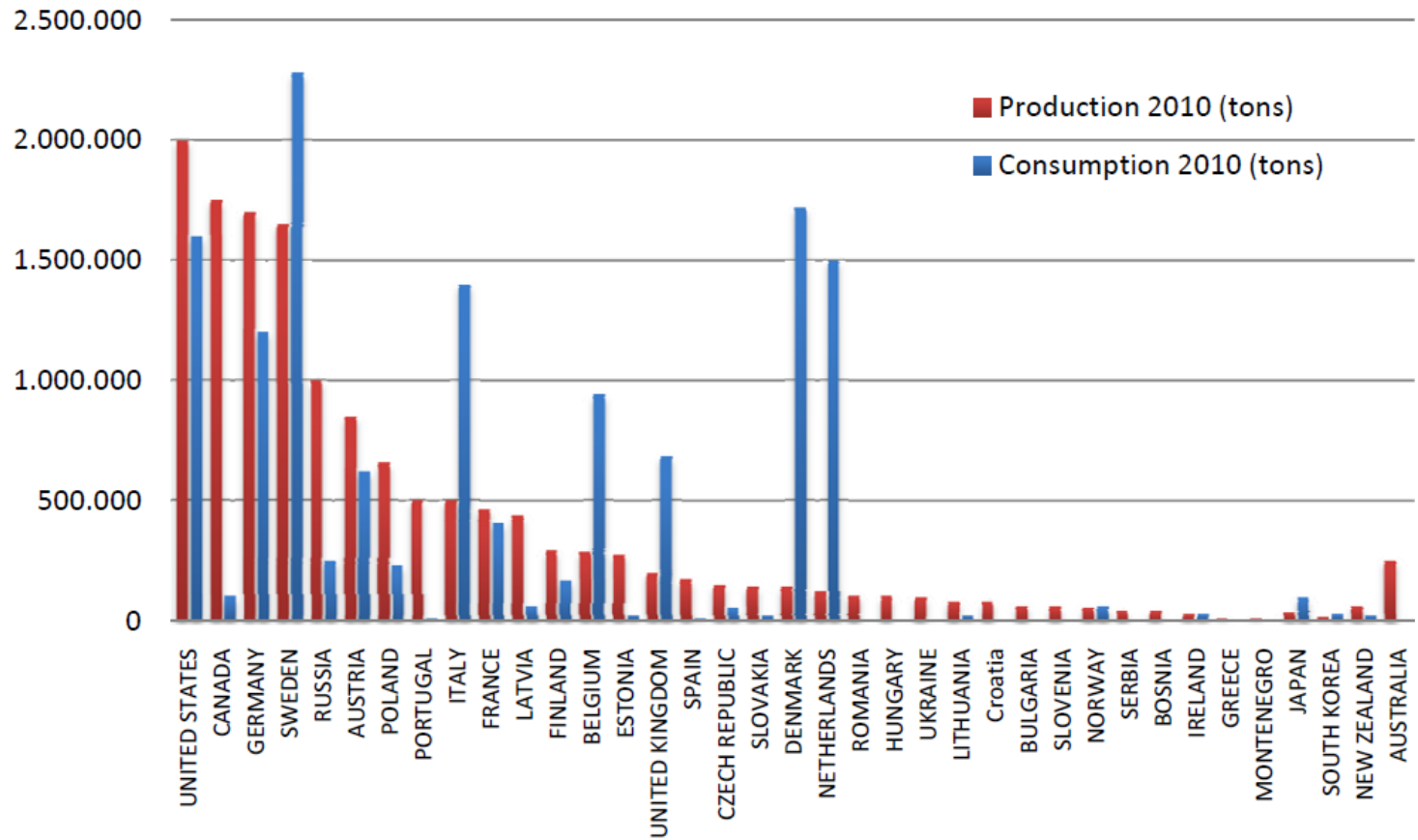
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Pelletproduction



Quelle: Global Wood Pellet Industry Market and Trade Study 2011; S.11

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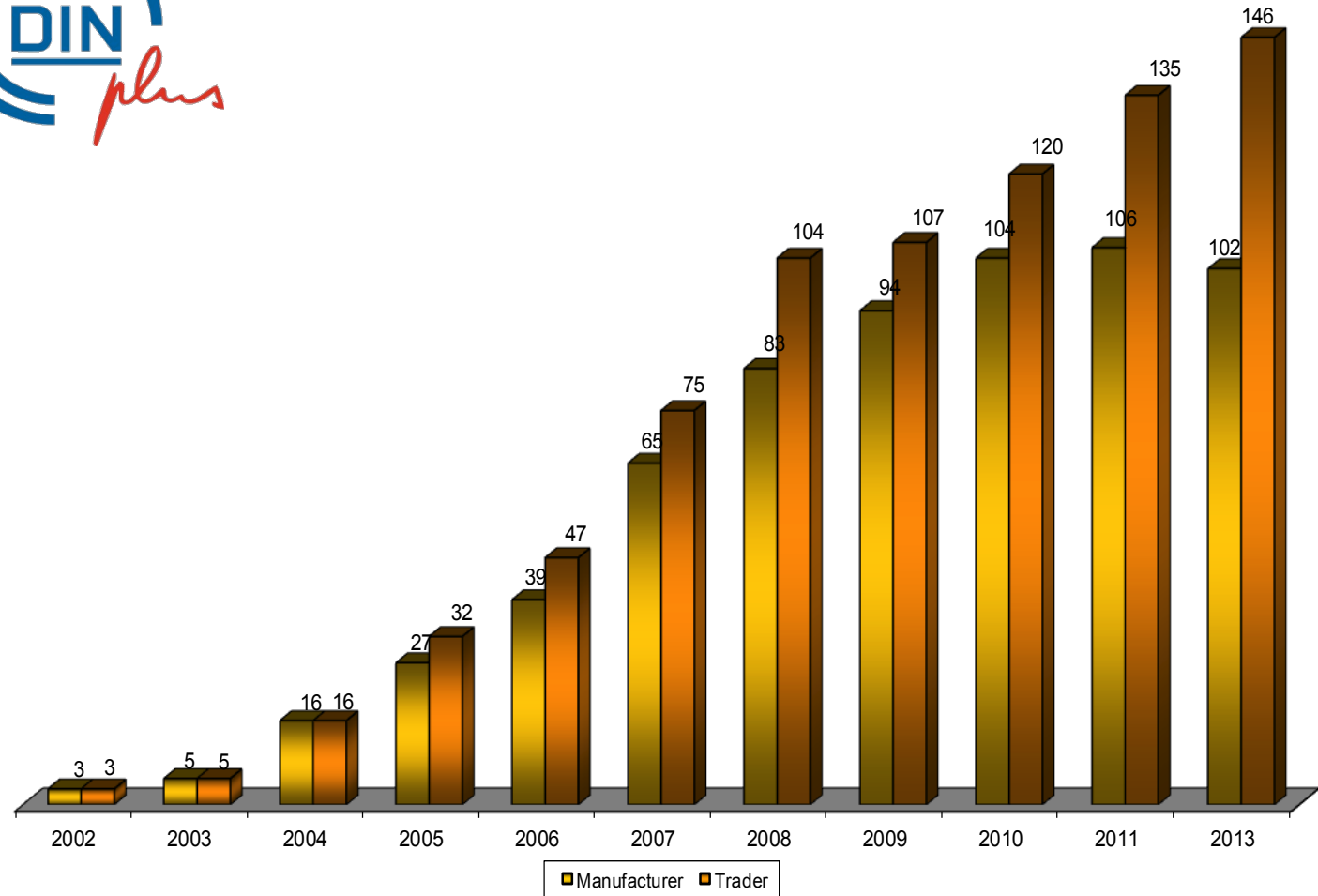


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Trader and Manufacturer DINplus Wood Pellets



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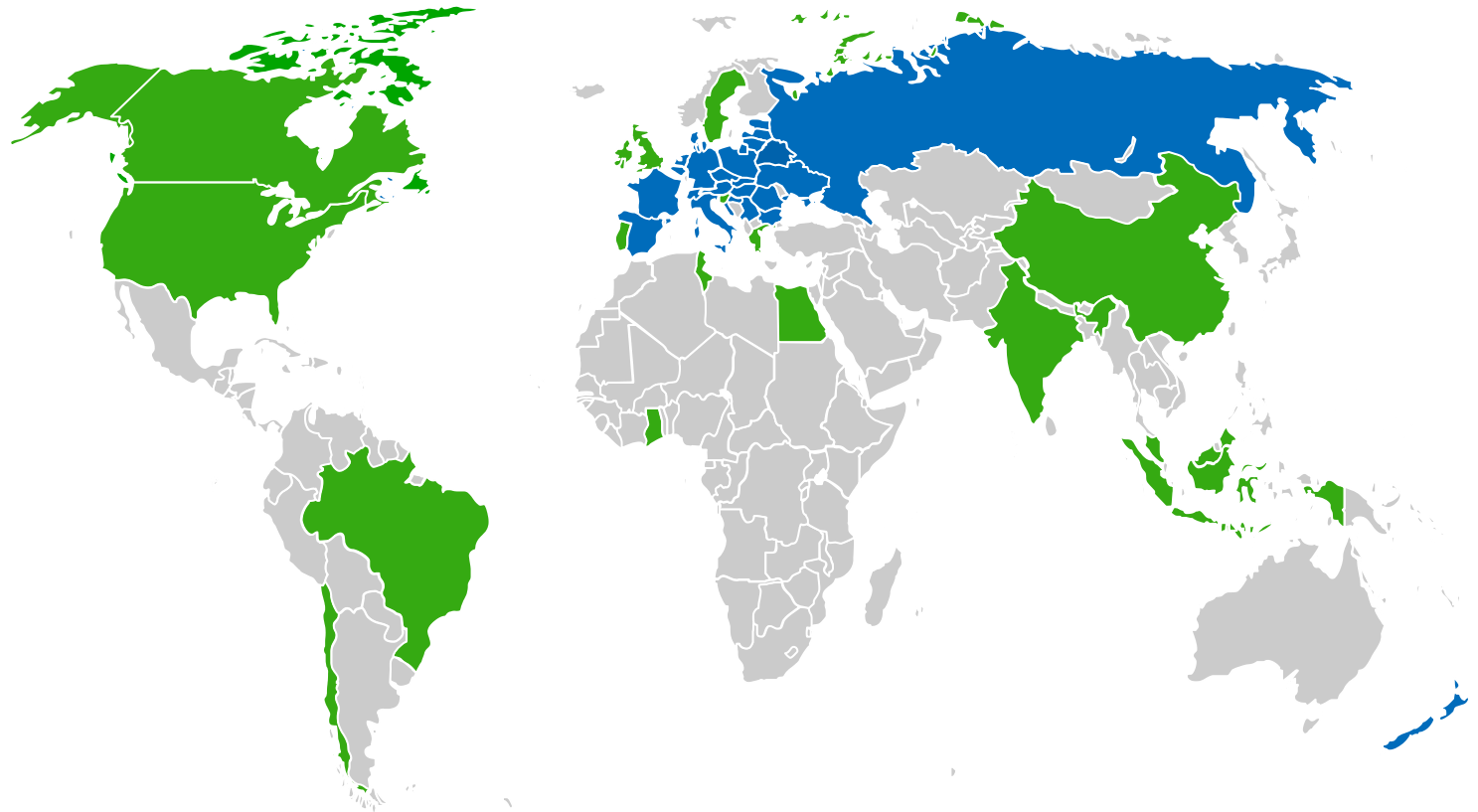


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The world of DINplus for wood pellets



Certified

Candidates



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Requirements Profiles Wood Pellets

Basis of Product Requirements: DIN EN 14961-2:2011-09, Property Class A1



- Diameter
- Nitrogen content
- Length
- Chlorine content
- Bulk density
- Mechanical durability
- Moisture
- Ash melting behaviour
- Additives
- Ash content
- Containments, foreign substances
- Net calorific Value
- Marking
- Sulphur content
- Amount of fines





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Requirements Profiles raw material

- Visual check of incoming raw material
- Seald ground for storage of raw material
- Divited areas for different kind of raw materials



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Not ok



ok



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Influences raw material

- Ash content
- Impurities
- Ash melting behaviour (slagging)
- Color





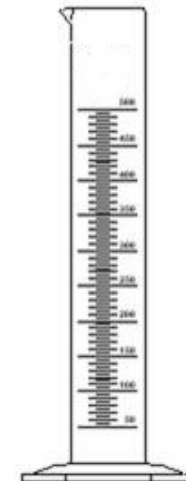
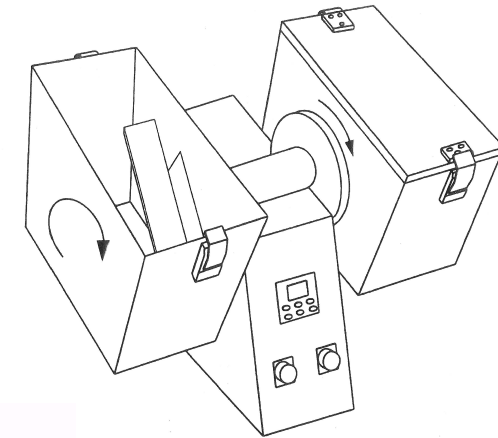
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Requirements Profiles self control

- Water content
- Mechanical durability
- Bulk density





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Influences bulk density, mechanical durability and water content



- Water content
 - Stability of pellets
 - Increasing of combustion temperature
- Mechanical durability
 - Low resistance against stress during transport and delivery-> higher amount of fines
 - Higher flue gas dust emissions
 - Blocking of conveying system
- Bulk density
 - Increasing the temperature in burning room
 - Decreasing temperature in burning room



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Requirements Profiles Production

- Screening before loading and packaging





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Influences fines

- Higher flue gas dust emissions
- Blocking of conveying system
- Higher amount of fines-> dust during delivery and opening of bags





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Requirements Profiles storing

- Taking and keeping of reference samples
- Separation of premium and non premium pellets



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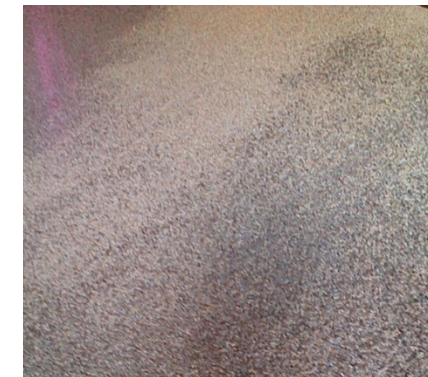
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Advantages Requirements Profiles storing

- Reference samples
 - Quick reaction in case of customer complaints
- Separation of premium and non premium pellets
 - Avoid mixing of different quality classes-> loose of money, unsatisfy customer





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DIN-Geprüft „Pellet Logistics“

Introduction

Certification is applicable for:

- For Dealers and Forwarders

Goal of certification:

- Assurance for high quality pellets during:
 - storing
 - transportation
 - delivery

Normative background:

- ÖNORM M 7137





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Precisely Right.

Certification Scheme Requirements



Self-monitoring

- Visual incoming inspection
- Constant control of transport vehicles with documentation
- Maintaining adequate storage condition
- Screening when loading the pellets

Qualified staff

- Training in accordance with training scheme for delivering staff
- Delivery service in accordance with checklist with documentation

Transport vehicles

- Protection against moisture
- Calibrated on-board-weighing system
- Suction apparatus to prevent over pressure in storage room
- Injection hoses of at least 30 m length



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DIN-GEPRÜFT Industrially manufactured pellet storage



Introduction

Certification is applicable for:

- Industrial produced pellet storages for example Silos, underground tanks

Goal of certification:

- Storage which assure the pellet quality and guarantee automatically heating without disturbance

Normative background:

- ÖNORM M 7137



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Certification Scheme Requirements

Type approval

- Form
- Volume
- Safety aspects

Production

- Implementation of internal quality management system
- Special examination in case of change of production





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Residential space heating appliances fired by wood pellets with low-pollution combustion



Introduction

Certification is applicable for:

- Wood-burning stoves
- Fire place insert appliances / Open Chimneys
- Tiled stoves / Room heater
- Wood pellet stoves / Residential space heating appliances
- Slow heat release appliances
- Slow heat release coal water heaters

Goal of certification:

- Efficient use of high quality solid biofuels

Normative background:

- EN 14785



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Certification Scheme Requirements



Type approval

- Emissions
- Combustion Efficiency
- Dust Emissions

Production

- Implementation of internal quality management system
- Special examination in case of change of production



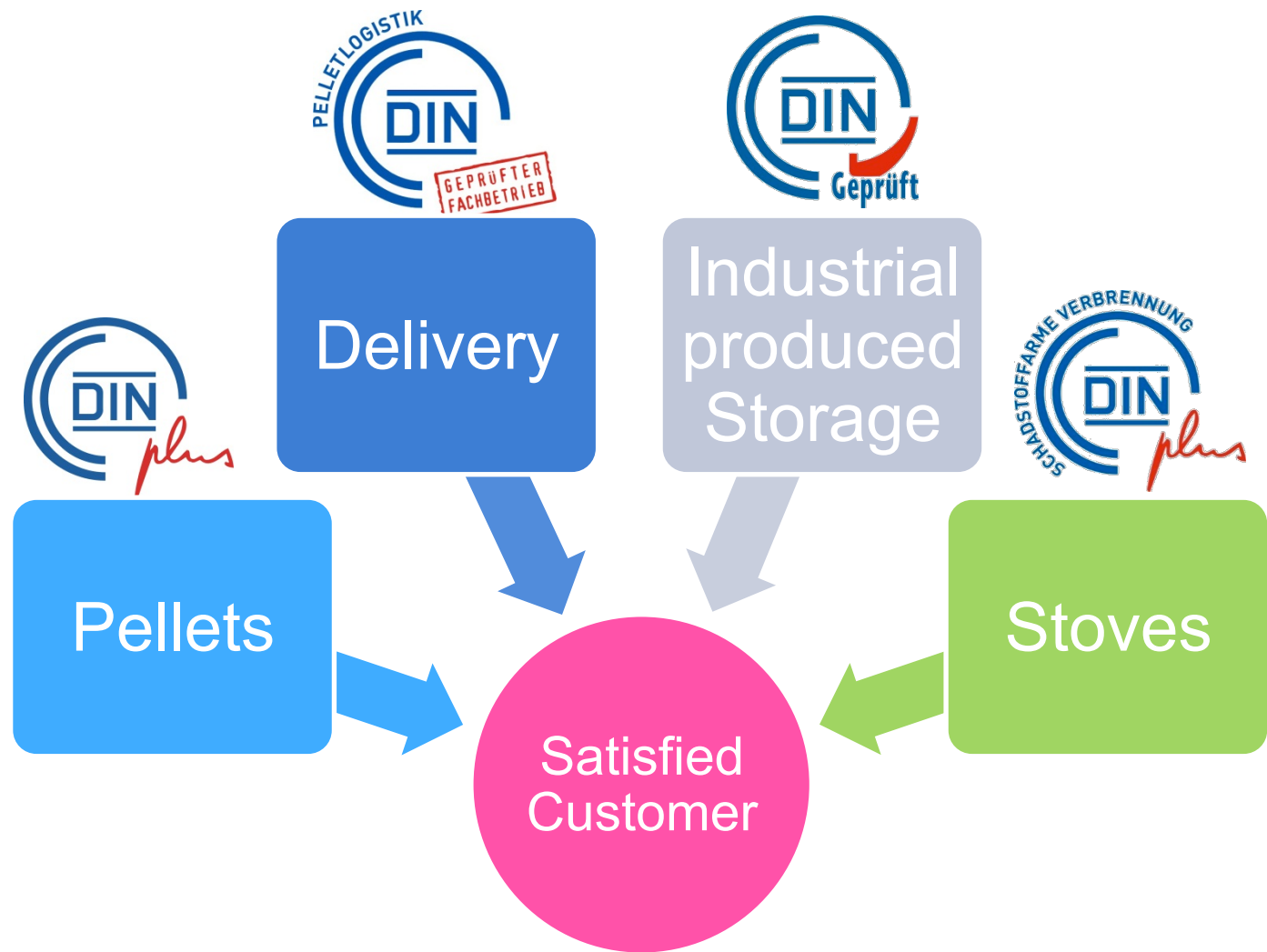


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The save supply chain of wood pellets with the DIN Mark



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> Solid Fuels / Barbeque

- > Firelighters
- > DIN-Geprüft Qualified Enterprises of Pellet Logistics
- > Outdoor Barbecues
- > Grill charcoal and grill charcoal briquettes DIN-Geprüft
- > **Wood Pellets for Central-Heating Boilers**
- > Untreated wood briquettes for Solid Fuel Boilers
- > Grill Charcoal and Grill Charcoal Briquettes DINplus
- > DIN-Geprueft „Industriepellets“ (Wood pellets for commercial use)

Wood Pellets for Central-Heating Boilers



The use of wood pellet heating systems is enjoying increasing popularity in Germany. The German industrial association DEPV informs: In 2009 approximately 20,000 furnaces will be installed in the German household sector (furnaces < 50 kW), so that it can be assumed that at the end of this year there is a number of 125.000 heating systems

in Germany. Pellets, i.e. small, compressed wood pellets, are made of wood shavings, compressed under high pressure without any additional chemical binding agents. They are 100% CO₂-neutral and are, therefore, the ideal climate-friendly fuel.



By the certification of these products, DIN CERTCO following the current trend. Wood pellets that are suitable for the intended heating technology, e.g. pellet central heating boilers, can be certified with the Quality Mark "DINplus" under a new certification scheme.

Requirements for DINplus go European

Within the next year a European standard for wood pellets is going to be published. Further more an European standardization committee is presently developing requirements for quality assurance of the production and supply of solid biofuels.

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Precisely Right.

Finally ...



... thank you very much
for your attention!!

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