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Project results



Co-funded by the Intelligent Energy Europe
Programme of the European Union



www.basisbioenergy.eu

Assess
Feedstock
Risks (GIS)

➔ **BASIS project results shown in a GIS**

Explore EU
Markets
(GIS)

➔ **Combination with Market Analysis – Cross Border Bioenergy**

B2B Market
Place

➔ **Online B2B Platform**

Coordinator:


EUROPEAN BIOMASS ASSOCIATION

Partners:


ASSOCIAZIONE ITALIANA
ENERGIE AGROFORESTALI


AVEBIOM
Asociación Española
de Industrias Biológicas
de la Biomasa


Bundesverband BioEnergie e.V.





ideas into energy.


ÖSTERREICHISCHER
BIOMASSE-VERBAND
Austrian Biomass Association







 Assess
Feedstock
Risks (GIS)**➔ BASIS project****“Assess Your risk for a sustainable wood chip supply”**

- Analysis on the actual use of wood chips : data collection of bioenergy plants (>1MW) and other wood chips users
- Biomass Potential
- Sustainability aspects



- Gain overview of the demand and supply in a specific region
- Assess location for new projects
- Ensuring sustainability of new and existing projects

Project results shown in a GIS

➔ Competition for wood chip supply

- Data collection of biomass plants using wood chips (larger than 1MW fuel input)
- Project partners and AEBIOM members were responsible for data collection (April 13-March 16)
 - Sources used were: national industry reports, industry association directories, company reports, representatives and online presence, published official administrative data and the plants through direct contact

Company	Contact details	Output type	Plant size [MW fuel input]	Annual wood input [odt/yr]	Annual heat/electricity output [MWh/yr]	Electrical/heat capacity [MW]	Load factor	Availability
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3696

plants (> 1MW)
using wood chips as
fuel have been identified
at EU28 level among them:



are Power
plants

are CHP
plants

are
Heat plants

3%

21%

75%



The average European plant size is:



The average European heat plant
consumes
over dry tonnes
of wood per year

5357

EU28 top 5 countries in number of
plants using wood chips

1. France (>600)
2. Austria (>550)
3. Germany (>470)
4. Finland (>470)
5. Sweden (>310)

EU28 top 5 countries regarding
their wood chips consumptions

1. Germany (11,5 Million odt/y)
2. Finland (9,4 Million odt/y)
3. France (7,4 Million odt/y)
4. Sweden (6,2 Million odt/y)
5. Poland (5,2 Million odt/y)

73,24%

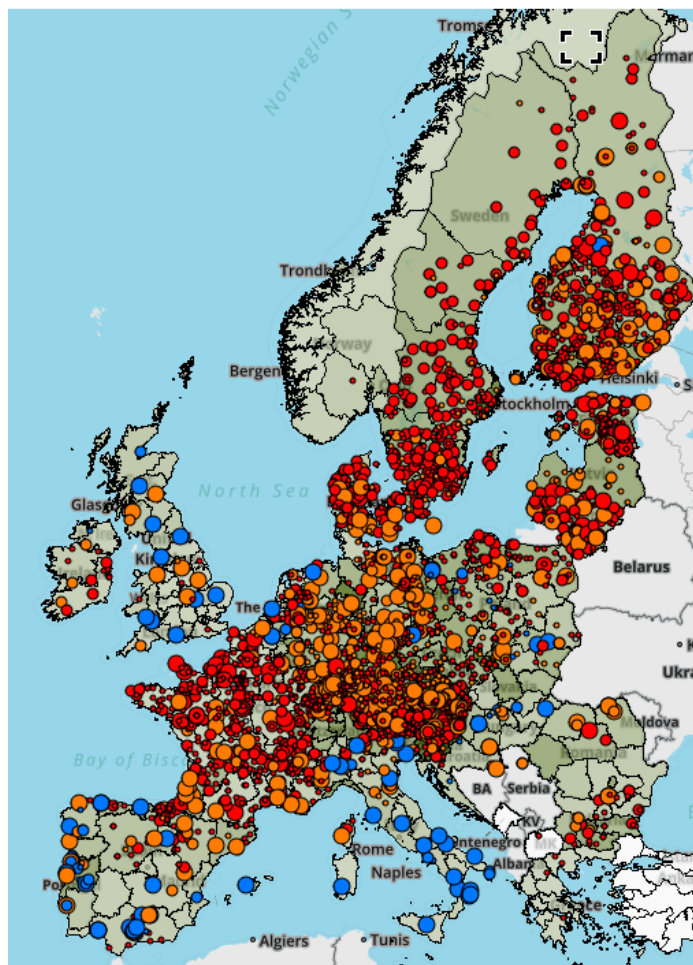
of all plants are between
1 and 10 MW* in Europe



Project results shown in a GIS

- 3696 Bioenergy plants identified in EU28 so far
- Other wood chip users (pulp, particle board, pellet manufacturers)
- Biomass resources (NUTS2 level)
- Sustainability (NUTS2 level)

consortium | Links



Background map

Selection

Map

Standard map

Wood chips consumers

Selection

Bioenergy plants

Heating ● CHP ● Electricity ●
plant type unidentified ●

All plants

Heating ●

CHP ●

Electricity ●

all sizes

1-5 MW ○

5-20 MW ○

20+ MW ○

Show plants with factsheets only

Factsheet can be downloaded after clicking on a specific plant.

Other wood chips users

Infrastructure

Selection

Harbours

Sustainability

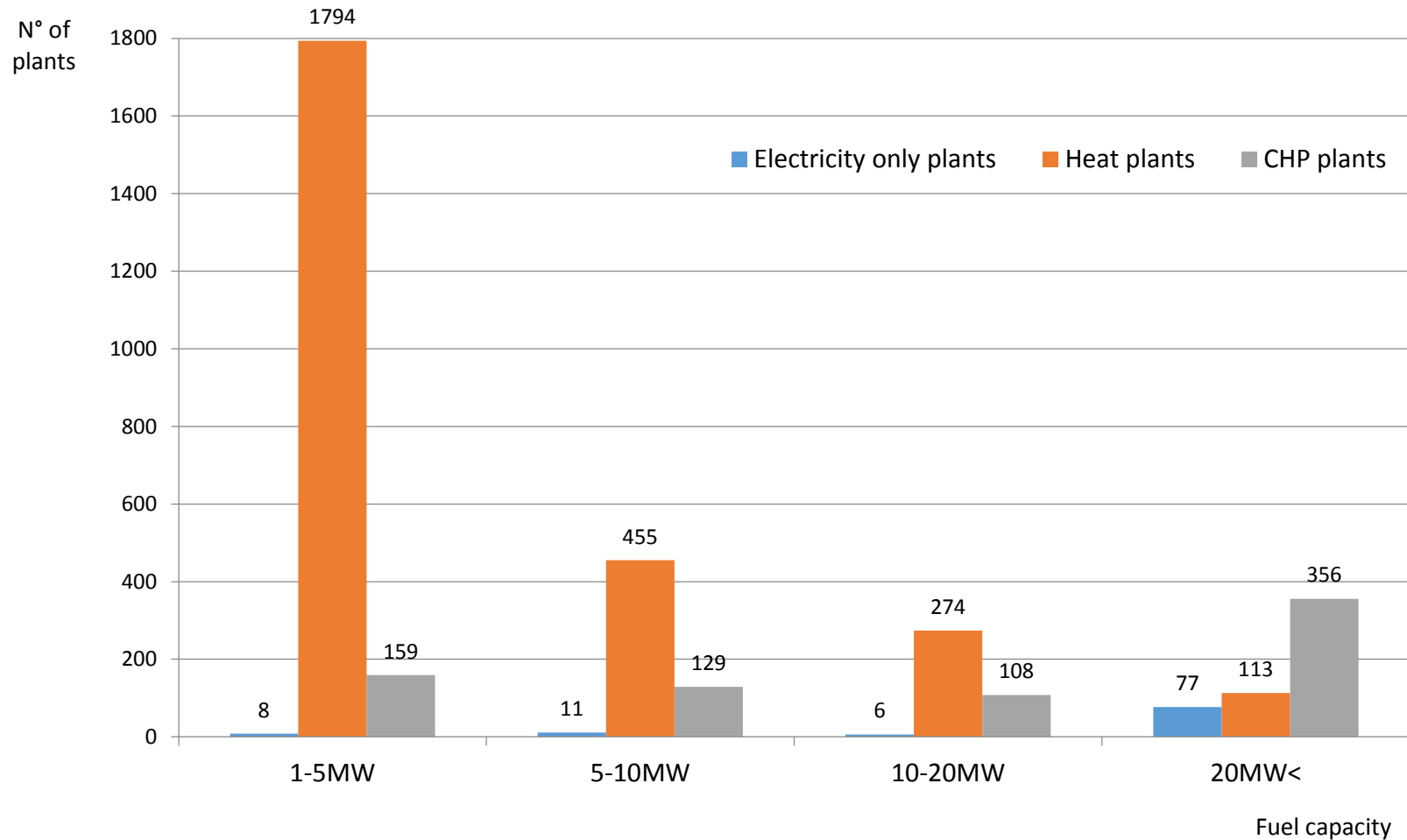
Selection

Designated areas [CDDA]

Forest Statistics

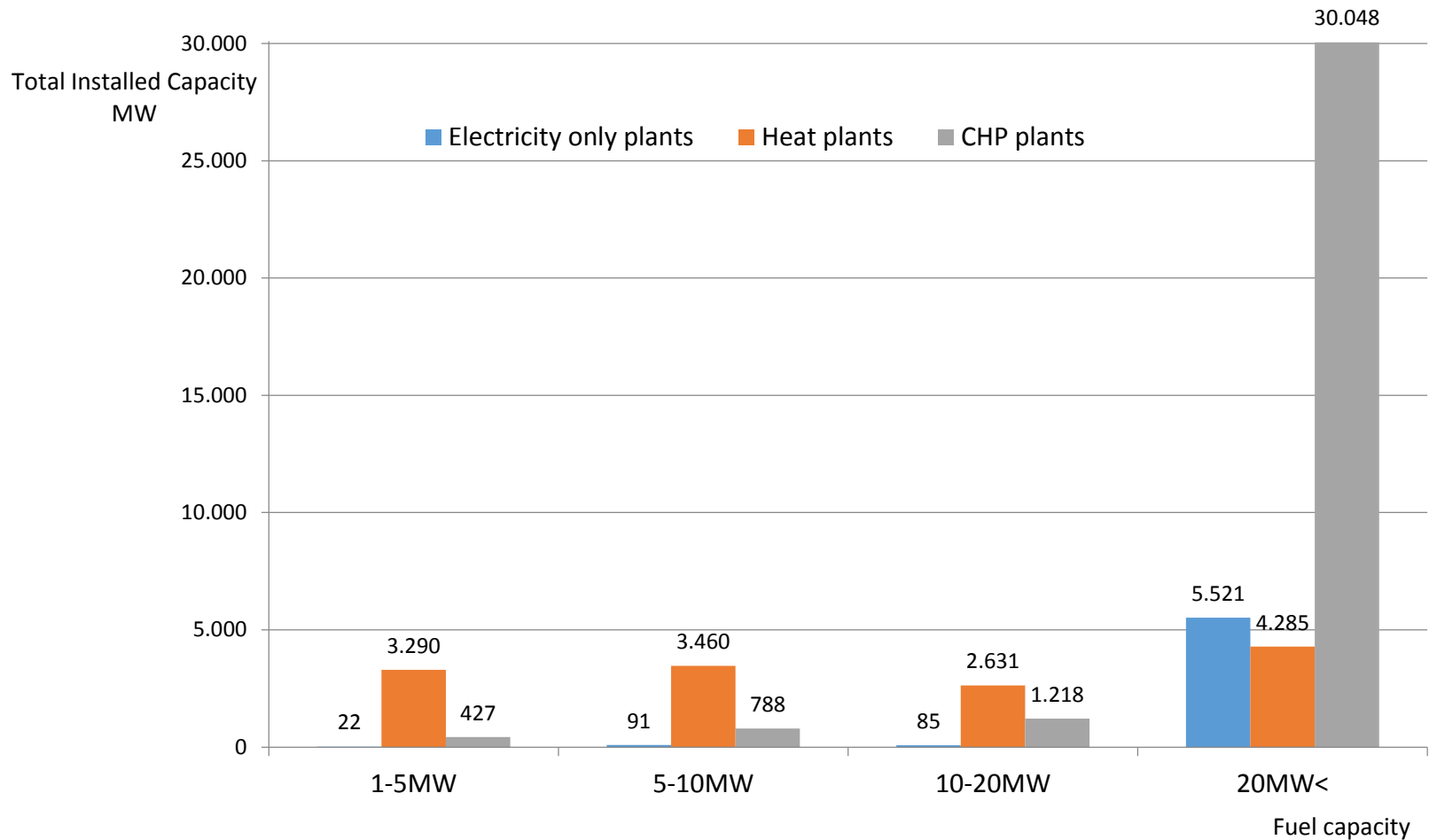
<http://www.basisbioenergy.eu/basis-gis.html>

Number of plants in Europe consuming wood chips



Assess your risk for a sustainable wood chip supply.

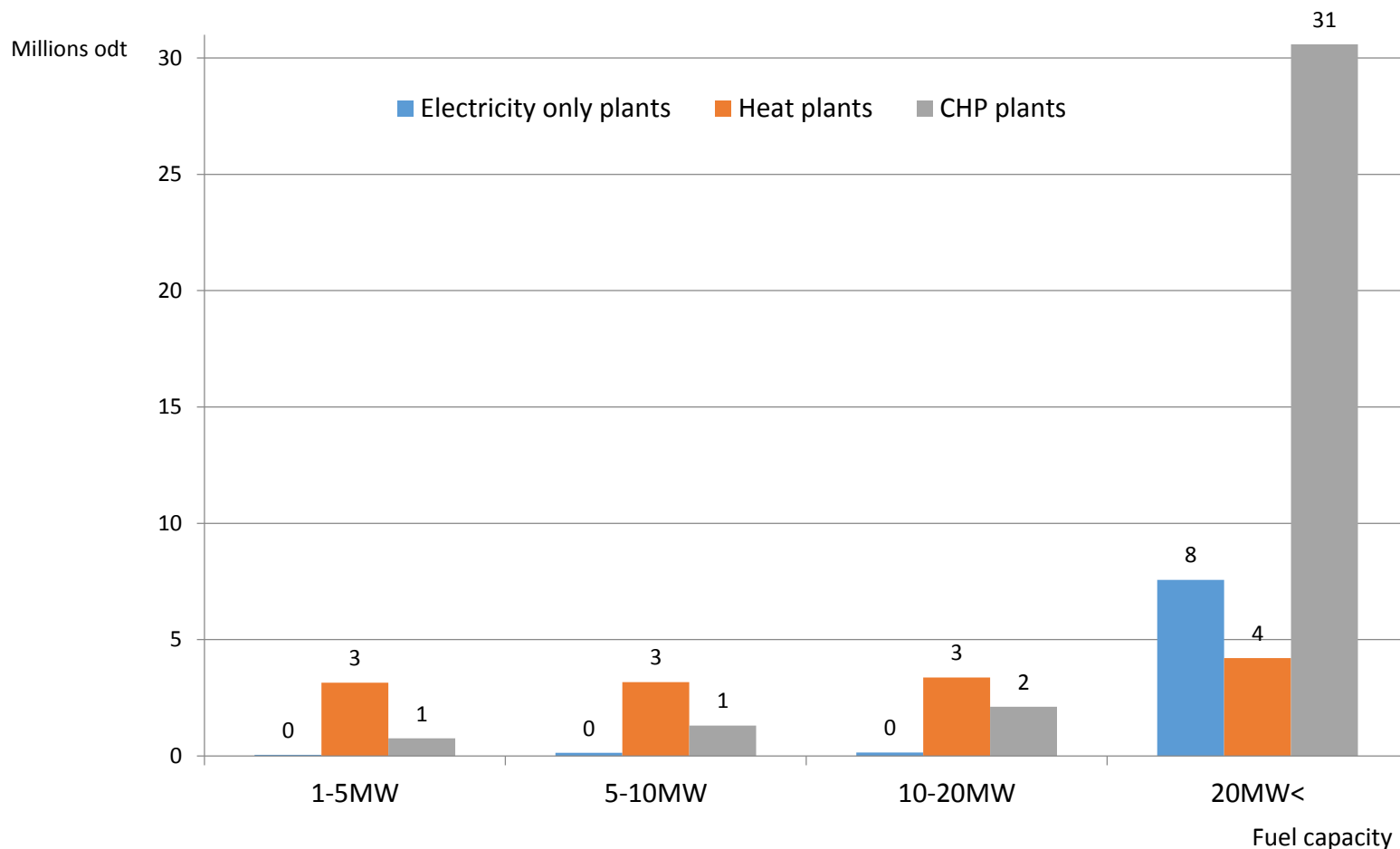
Capacity of plants in Europe consuming wood chips by size categories and type of plant



* Data for Austria is not included

Source: AEBIOM - Basis Bioenergy project (non-final)

Wood chips consumption of bioenergy plants in Europe consuming wood chips by size categories and type of plant

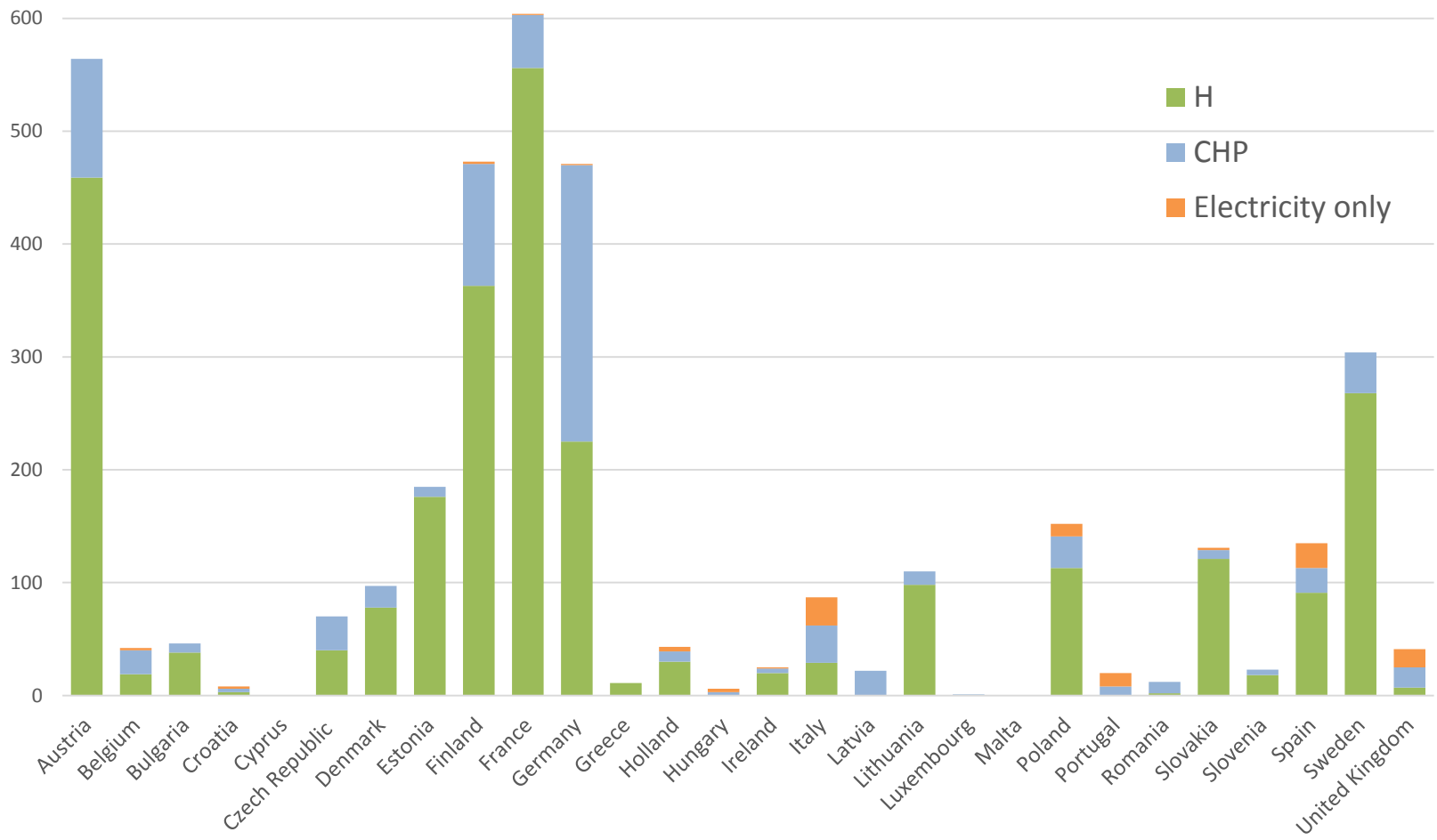


* Data for Austria not included

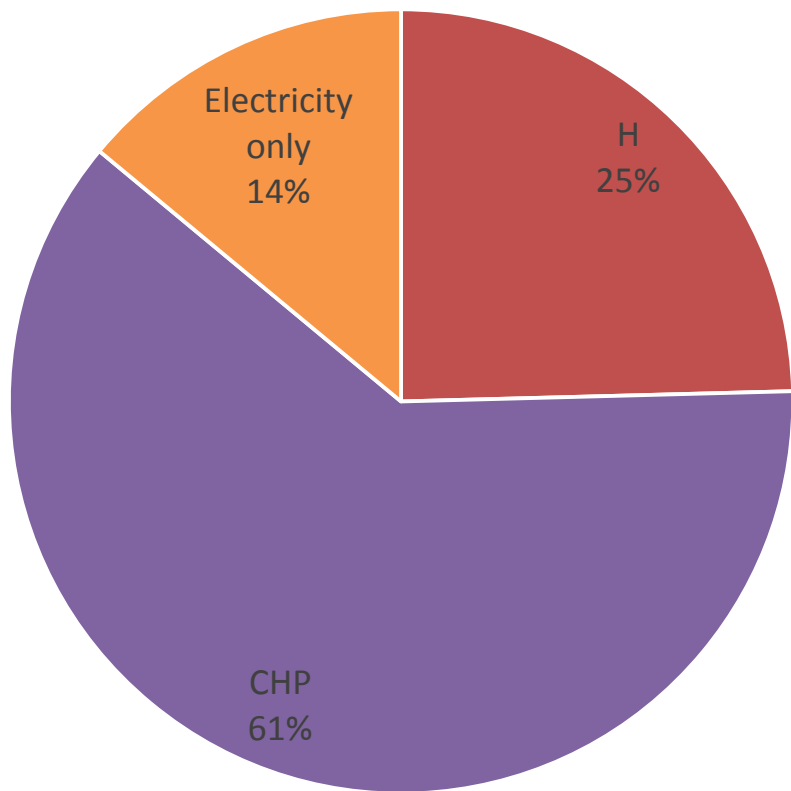
Wood chip consumption is considered as « worst case scenario » if consumption share of wood chips was unknown

Source: AEBIOM - Basis Bioenergy project (non-final)

Number of plants in different EU Member states



Wood chips consumption by use



Wood chips consumption by size class

