



BIOMASS DAY

SUSTAINABLE DEVELOPMENT OF THE BIOFUEL SECTOR: Italian case study

Athens 19 aprile 2019

Who is AIEL

Supply chain association (500 companies)

.... From the forest to the chimney

Production and distribution of
agroforestry biofuels



Technologies

Installers



Autonomous Groups

- own budget
- own operating committee
- shared objectives

who is represented by the groups?



150 Producers and distributors of wood logs, pellet, wood chips and briquette



60 manufacturing companies (heating and cogeneration systems)



250 designers, installers and maintenance technicians



- Energy Service Company (ESCO)
- Farm and forest companies
- Manufacturers of components
- consulting companies, institutions, associations

MAIN CHALLENGES

- guarantee the correct and sustainable energy exploitation of agroforestry biomass;
- represent the interests of the supply chain at national and international level;
- promote good combustion practices among end users;
- support the sector's commitment to innovation;
- support a continuous improvement of the quality standards of the technologies, biofuels and professionalism of the sector.

HOW WE FACE THE CHALLENGES

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HOW WE FACE THE CHALLENGES

CERTIFICATIONS PROMOTED BY AIEL



for pellet



for wood logs,
wood chips and
briquette



for domestic
appliances < 500kW



training standard
for installers and
maintenance
technicians of
biomass plants

HOW WE FACE THE CHALLENGES

TECHNICAL AND INFORMATIVE PUBLICATIONS

- TECHNICAL MAGAZINE: agriforeenergy
- technical manuals
- Dissemination brochures



HOW WE FACE THE CHALLENGES

MARKET MONITORING

COSTO DELL'ENERGIA PRIMARIA (IN EURO/MWH)

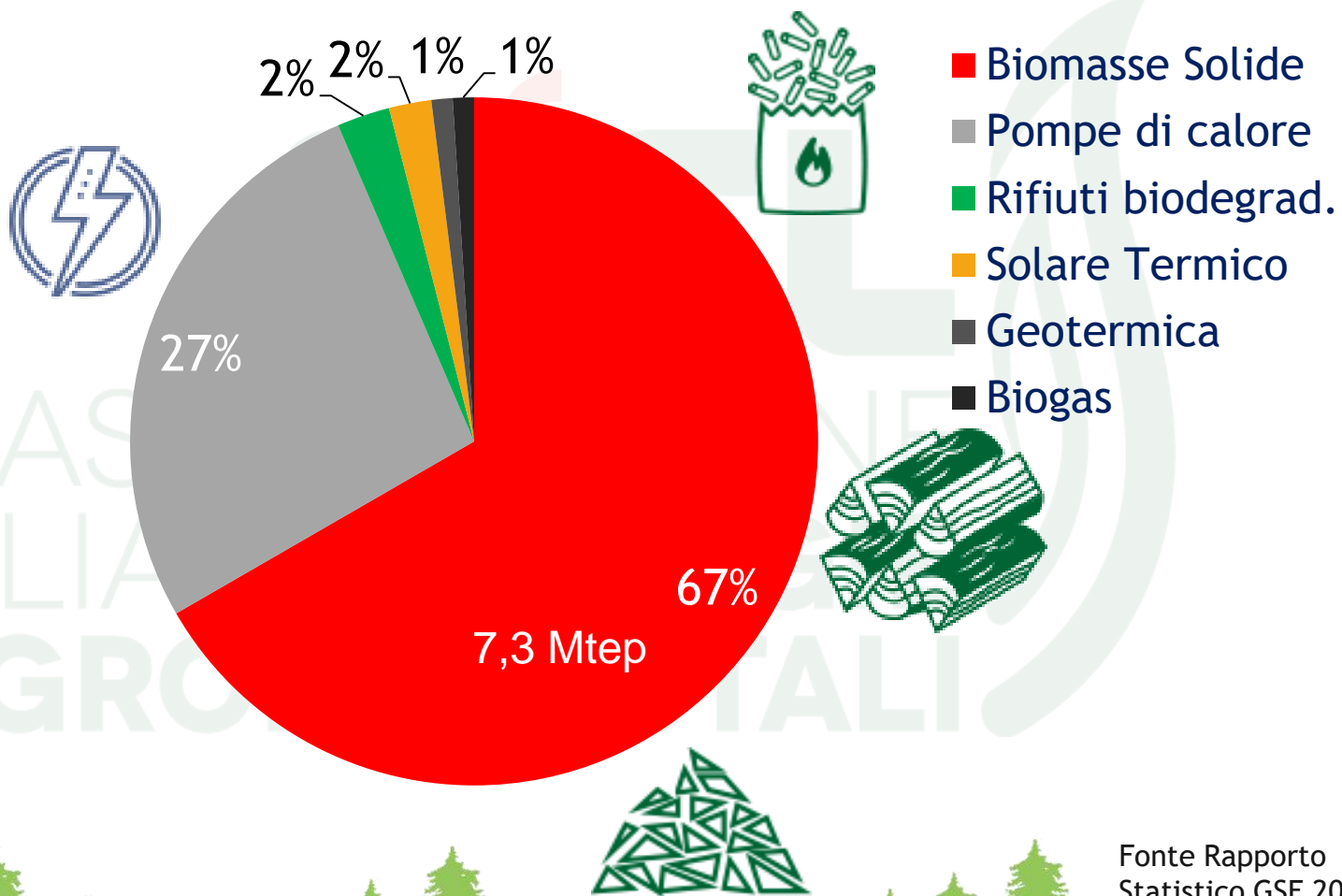
gennaio 2019 - al consumatore finale, Iva e tasse incluse, trasporto escluso

EMISSIONI DI CO2 (in kg CO2eq/MWh) DELL'ENERGIA PRIMARIA

138	< Gasolio da riscaldamento >	302	
90	< Gasolio agricolo e per serre >	302	
85	< Metano (domestico) >	257	
68	< Pellet in sacchi da 15kg >		49
69	< Pellet in autobotte >		49
47	< Legna da ardere sfusa M20 >		26
23	< Cippato M35 >		26
19	< Cippato M50 >		26

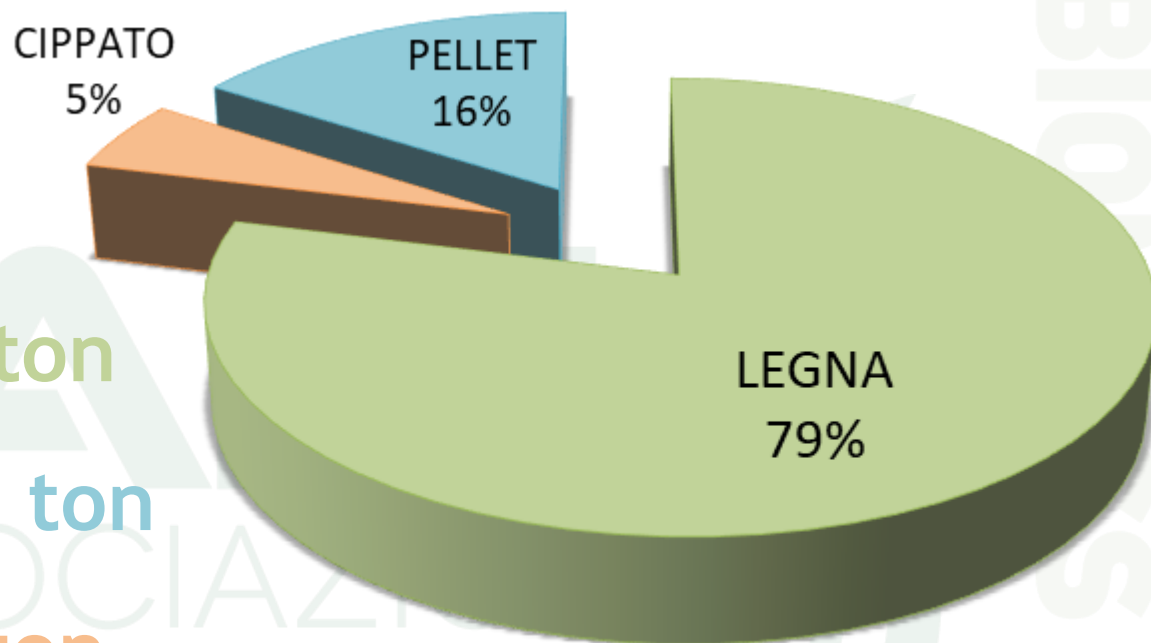
© AIEL RIPRODUZIONE RISERVATA

Thermal 19% of consumption



Fonte Rapporto
Statistico GSE 2016

Used solid biofuels(2017)



Logs: 16,5 mln ton



Pellets: 3,4 mln ton



Chips: 1,2 mln ton (incl. TLR)

Parco installato:

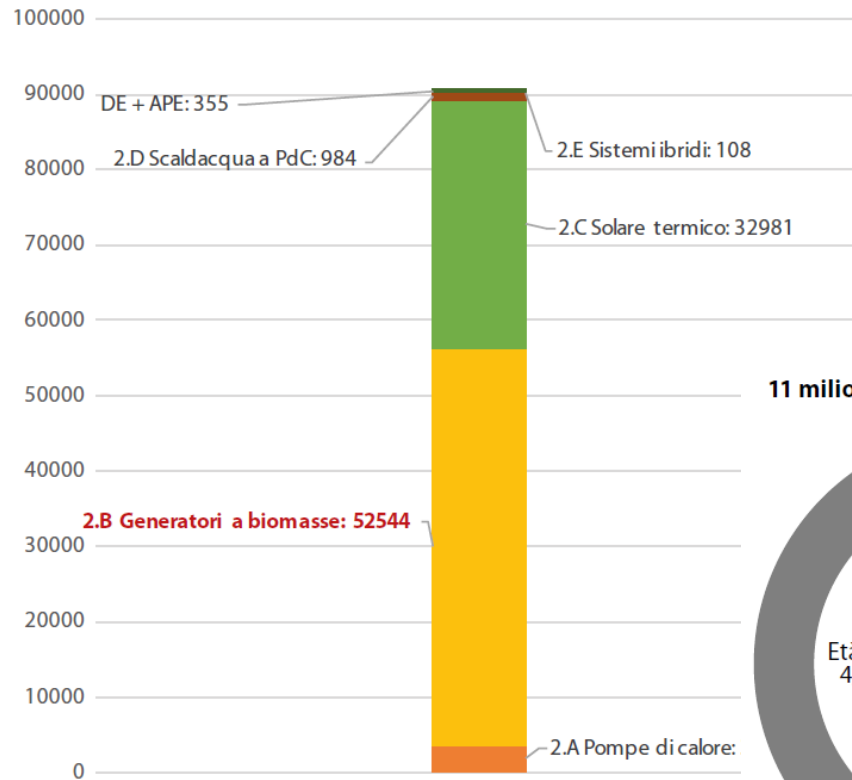
500.000 boilers (400.000 logs and 75.000 pellets)

11.000.000 domestic appliances, (2,6 pellets)

Fonte: elab. AIEL 2017

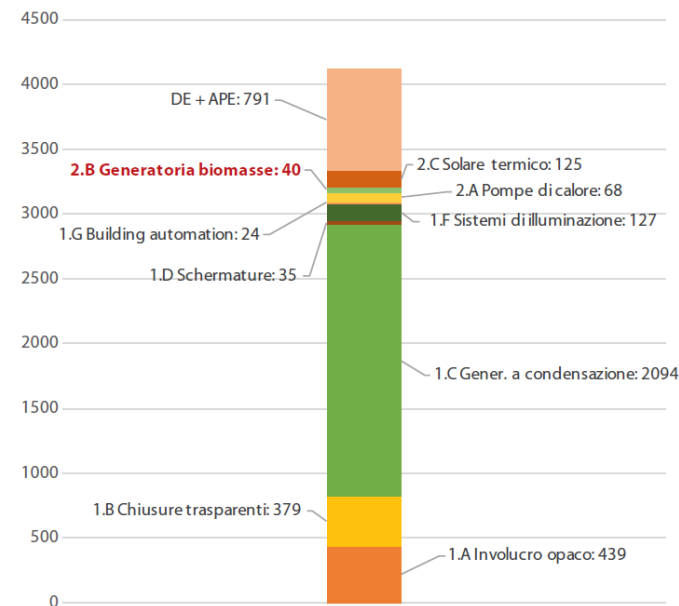
The Italian Market: Driver Thermal Account 2.0

Grafico 3 – Numero e tipologia di interventi dei privati

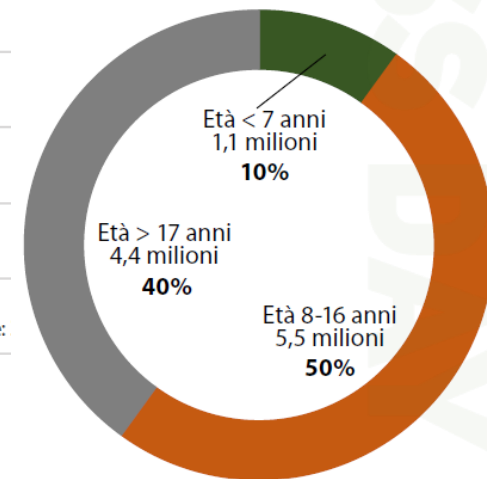


Fonte <https://www.gse.it/contatore-conto-termico>

Grafico 2 – Numero e tipologia di interventi della PA



Oggi in Italia ci sono
11 milioni di generatori a legna e pellet



The central role of the producer biomass

MAPPA DELLE PIATTAFORME DI BIOMASSE



Multidisciplinary role of biomass producer

Possible scenarios in which the biomass producer is involved

	1	2	3	4	5
A. Sustainable forest management (woodcutting)	+	+	+	+	+
B. Collection and processing a of the raw material and products		+	+	+	+
C. Sale of wood fuel			+	+	+
D. Plant management and heat sales with the contracting formula				+	+
E. Construction of the plant and heat sales with the contracting formula					+

Diego Rossi - AIEL



Conclusions

Tools for the success of the wood energy sector

- ✓ Territoriality and involvement of local stakeholders
- ✓ Valorization cascading approach of resources
- ✓ Environmental sustainability
- ✓ Quality of service and professionalism of companies
- ✓ Chain approach with involvement of network operators with different skills

THANK YOU FOR YOUR ATTENTION



to know more:

rossi.aiel@cia.it

www.aielenergia.it

Tel. 049 8830722



www.aielenergia.it