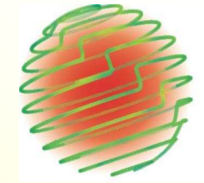


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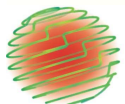
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# Index



**This presentation is divided into 6 parts:**

1. The Italian Legislation
2. Biomass Power Plant in Sicily
3. Biomass Power Plant in Piemonte, Torino
4. Biomass Power Plant in Piemonte, Alessandria
5. Renewable Energy Development in Italy
6. Conclusions

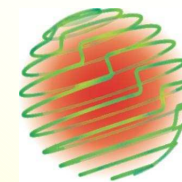


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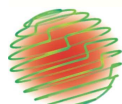
# 1. Italian Decree

The Directive 2001/77/CE was acknowledged in Italy in 2003 by Decree n. 387.

This Decree fixed new rules for renewable energy plant permitting.

The most important changes introduced by this Decree are :

- 1.1 The Renewable Energy Plants are considered as PUBLIC UTILITY (article 12).
- 1.2 The Renewable Energy Plant must be considered NOT PROCRASTINABLE and URGENT (article 12).
- 1.3. The Plant authorization includes authorization of infrastructures (article 12).
- 1.4 The authorization procedures become SINGLE (article 12).
- 1.5 The permitting procedure must start in 30 days from the claim date (article 12).
- 1.6 The permitting procedure must end in 180 days from the claim date (article 12).



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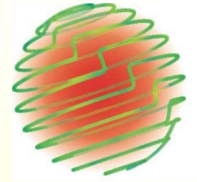
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# 1.1 Public Utility



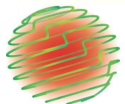
Renewable Energy Power Plant are considered as PUBLIC UTILITY .

It means that :

For constructing the Power Plant you can dispossess the interested area

The Power Plant is a Common Good

Previous points underline how Italian Government consider Renewable Energy

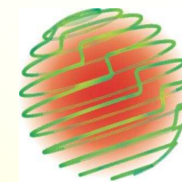


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## 1.2 NOT PROCRASTINABLE and URGENT

**Renewable Energy Power Plant are NOT PROCRASTINABLE and URGENT.**

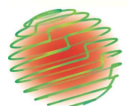
It means that :

**All decisions have to be taken in short time**

**The Plant becomes the first priority for Government**

**None has to act against the Project, because the Project is a Public Utility**

**All previous points underline how Italian Government consider Renewable Energy**



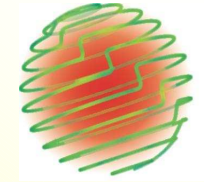
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# 1.3 INFRASTRUCTURES



**Authorizing procedures include infrastructures authorizations.**

It means that :

**During the Permitting procedure ALL the infrastructures needed by the Plant have to be AUTHORIZED.**

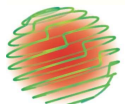
**Electrical lines and electrical station**

**Streets**

**Well**

**Etc**

**At the end of Procedure EVERYTHING related with the plant HAS TO BE identified and authorized, therefore you achieve the authorization you can start IMMEDIATELY the PLANT construction.**



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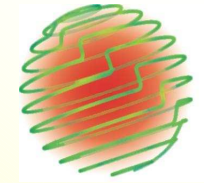
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# 1.4 SINGLE PROCEDURE



The Permitting procedures HAVE to be SINGLE.

It means that :

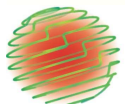
During the Permitting procedure ALL the involved Agencies have to analyze the project, impose Plant modification by law and, at the end of Procedure, give their approval for construction.

Mayor has to give the Construction Licence

District has to give the Air Pollution Authorization

Etc

This is the most important aspect of this Decree: before 387/03 you have to reach every single permission from every single Agency. If an Agency asks you to change the project, you HAVE to restart the ENTIRE procedure with ALL other Agencies



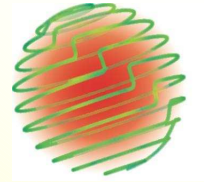
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# 1.5 – 1.6 Procedure time

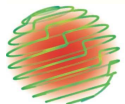


**The Permitting procedure has fixed time.**

It means that :

**In 180 days you can reach the Authorization, and you can start to build the Plant.**

**Before 387/03 the average time to achieve an Authorization was about 3.5 years.**



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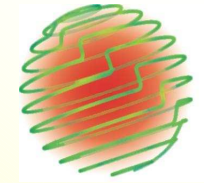
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## 2 Biomass Plant in Sicily

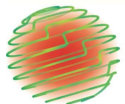


The most important figures of the Plant are:

**Thermal Power: 46 MW**

**Electrical Power: 15 MW**

**Fuel: ONLY NOT TREATED (VIRGIN) WOOD**



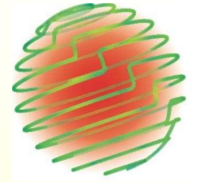
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## 2 Authorising Procedure\_siciliy



The Claim was presented on November 16th 2004.

Regione Siciliana identified 13 Agencies which have to give their own approval.

The first official meeting was on February 15th 2005. Only 6 Agencies came to the meeting.

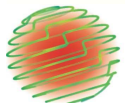
The Agencies asked some integrations.

The Official integrations Request was transmitted on April 7th 2005.

On April 29th 2005 the required documentation were transmitted to Regione Siciliana.

The second meeting was on July 1st 2005 and 19 Agencies were invited to this second meeting, and it ended without any other request.

In particular ENEL gave the authorization for grid connection



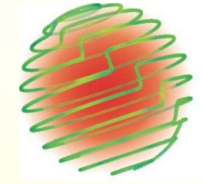
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## 2 Authorising Procedure\_sicily



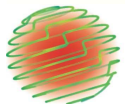
From July 1st 2006 we had to wait that ALL the Agencies that were invited to the meeting sent their own approval.

In particular we had to wait for the Special Agency for High Ambiental Risk Area, to nominate the Director, when he became “active”, he gave his own approval.

The Autorization was issued on February 9th 2007.

25 months after Claim date

During these 25 months the connection rules to the Italian Grid changed.  
As a consequence what ENEL confirmed during the second meeting, wasn't valid any more, therefore we are still waiting for the authorization for the connection.



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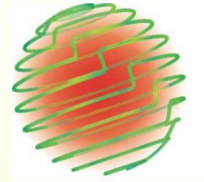
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# 3 Biomass Plant in Piemonte - Torino

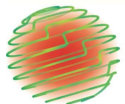


The most important figures of the Plant are

**Thermal Power: 19 MW**

**Electrical Power: 5 MW**

**Fuel: ONLY NOT TREATED (VIRGIN) WOOD**



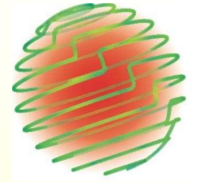
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### 3 Authorising Procedure\_Torino



The Claim was presented on October 7th 2005.

Provincia di Torino identified 7 Agencies which had to give their own approval.

The first meeting was on November 16th 2005.

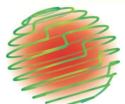
ALL Authorities came to the meeting.

The Agencies asked some integrations.

The Official integration requirement was transmitted on December 7th 2006.

On December 27th 2005 the required documentation was transmitted to Provincia di Torino.

The Autorization was issued on February 14th 2006.



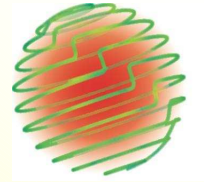
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## 4 Biomass Plant in Piemonte - Alessandria

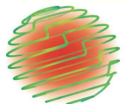


The most important figures of the Plant are

**Thermal Power: 38 MW**

**Electrical Power: 11 MW**

**Fuel: ONLY NOT TREATED (VIRGIN) WOOD**



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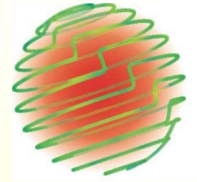
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## 4 Authorising Procedure\_Alessandria



The Claim was presented on April 4th 2006.

Provincia di Alessandria identified 14 Agencies which had to give their own approval.

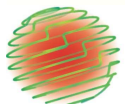
The first meeting was on June 7th 2006. Only 8 Agencies came to the meeting  
In particular ENEL and TERNA did not come .

As it was the first 387 Procedure, the Agencies asked to have the construction drawings and the definitive project.

The Complete Project was transmitted on January 12th 2007.

The second meeting was on February 27th 2007.

All the Agencies gave their own approval except Provincia di Alessandria.



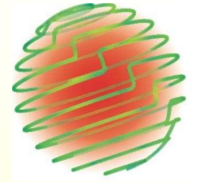
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## 4 Authorising Procedure\_Alessandria



Provincia di Alessandria asked to reduce air pollution to a lower level than the Level fixed by law.

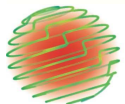
A new project of combustion chamber was made and included in the boiler a NSCR, to reach the required level.

The third meeting was on June 15th 2007. All the Agencies gave the acceptance.

The Major of Coniolo (town where the Plant had to be constructed), who participated both meetings, asked not to give the authorization before its own Technical Commission had decided.

Technical Commission was fixed on July 2nd 2007. The Commission gave its approval.

The Authorization was issued on September 28th 2007.



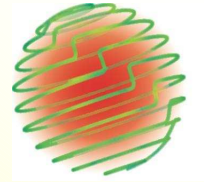
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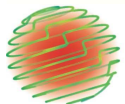
## 4 Authorising Procedure\_Alessandria



Since neither ENEL nor TERNA had participated to the meeting, the authorization was suspended until we had obtained the authorization to grid connection

On April 17th 2008 TERNA gave the authorization for grid connection.

24 months after Claim date we can start the construction.



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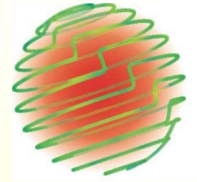
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# 5 Development for Renewable Energy\_1

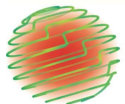


In **2003** the Law 387 fixed the Authorizing Procedure for Renewable Energy Plant  
The validity period for Green Certificate was fixed in **8 years**.

In **2005** the Green Certificate Period became **8 + 4 years**,  
the last 4 years considering only 50% of electrical power.

In **2006** the Green Certificate Period became **12 years**.

In **2008** the Green Certificate Period became **15 years**.



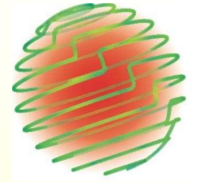
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## 5 Development for Renewable Energy\_2

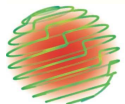


In **1999** was fixed that the Green Certificate Price, would be a market price.

In **2002** The Green Certificate Stock Exchange was Born.

Form **2002** to **2007** The Green Certificate Value passes from **84 Euro/MWh** up to **137 Euro/MWh**.

In **2008** Government fixed a cap to the Green Certificate Price **112 Euro/MWh**.  
The only way to increase the value of Green Certificate is in reaching the biomass within 70 km far from the Plant.



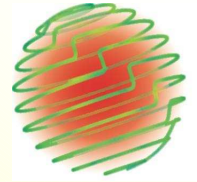
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## 5 Development for Renewable Energy\_3



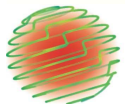
In **2005** the rules for Connectioning the Renewable Energy Plant to National Grid, changed.

The Renewable Energy Promoter has to obtain the authorization for electrical infrastructure,

than transfer the authorization to TERNA (Italian Grid Manager – Owned by Italian Government),

so that they can build an authorized infrastrucure.

Infrastrucuter has to be paid by the Renewable Energy Promoter



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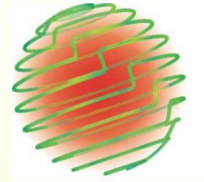
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## 6 Conclusions



After these few exemples is clear that:

The 387/03 is really a good and powerfull Decree.

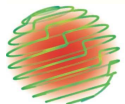
but.....

Every Agency “understands” the Decree and makes its own procedure so it’s impossible to have a “standard” way to act.

Renewable Energy Plant has become the better way to “update” the Infrastructure; so the most difficult aspect of authorization concerns Infrastructure and not the Plant.

The Renewable Energy Plant is used by Governmet Agencies as a Veicle to obtain the authorization for their own project that is impossible to obtain in other ways.

Quite every year the economical/financial “rules” changes, so even a good project can be stopped if the return of investment changes.

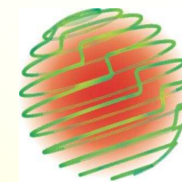


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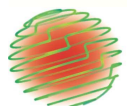
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# Thank you for your attention



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