

RES & Energy Efficiency. Nothing to be Wasted

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- Company Overview
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- TERNA ENERGY (TE) is an Independent Power Producer (IPP), Developer and Operator of Renewable Energy Sources (RES) Assets, with Solid Track Record and Investment Plan for the future.
- Has developed its own knowhow in the whole of the value chain in RES Projects
- Waste-to-Energy projects contributes to the strategy of the company as part of the technological and geographical diversification
- TE owns a mature pipeline of twelve (12) Biogas Projects placed in selected location all over Greece.
- TE is developing three RES projects as an important section of it's ongoing Waste Treatment project in Peloponnese

- A pioneer player in the development of RES Industry in Europe, with a strong portfolio of technologies and a total pipeline of more than 6.300MW (6.3GW)
- Strong operating assets in RES with geographical exposure across Europe, USA and MENA region
- High technological profile and EPC international experience
- Vertical integration business model with a wide portfolio of know-how in RES and waste management technologies including engineering, development, design, procurement, construction, operation and maintenance

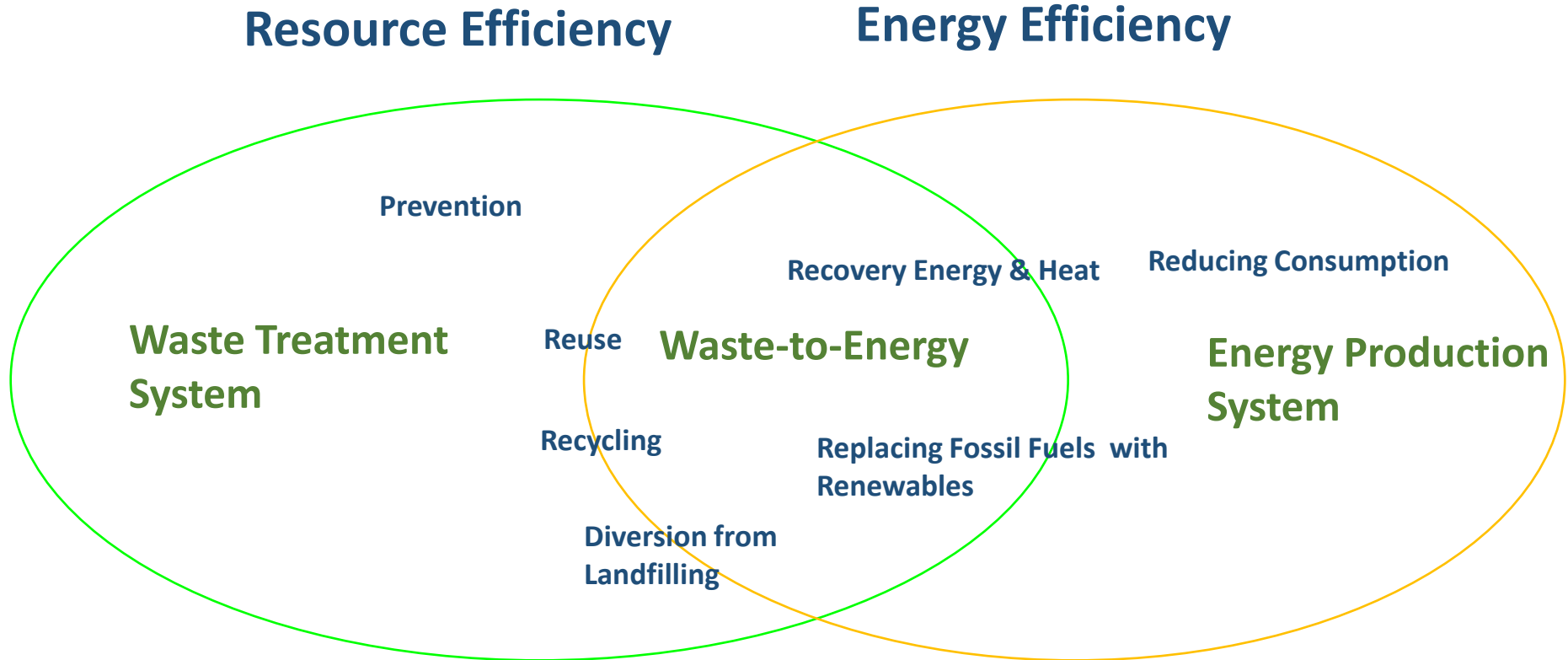
TERNA ENERGY expertise lies with:

- Wind Engineering & Assessment
- Waste Management solutions
- Hydraulics Engineering
- Plant and Substation Development & Design
- Licensing
- Construction & Commissioning
- Hydraulics and related E/M Construction and Commissioning
- Substation Construction and Commissioning
- Operation & Maintenance
- Project Financing
- Procurement

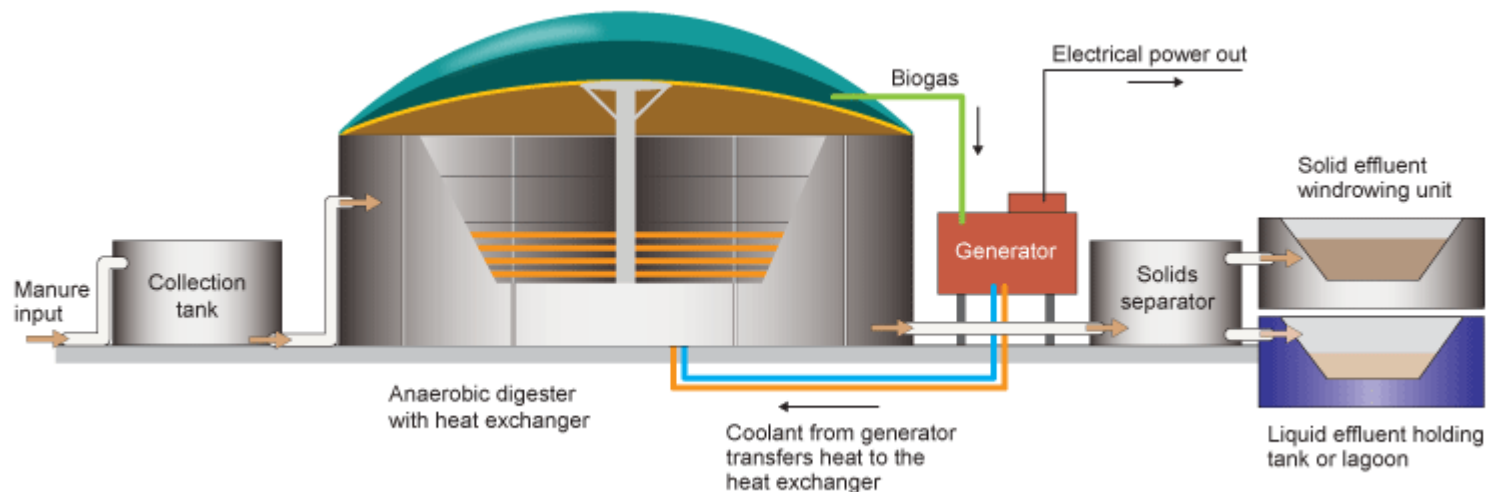
Energy Efficiency Waste-to-Energy Solutions



Waste-to-Energy Projects in a Resource & Energy Efficient Environment



Waste-to-Energy Projects come to fill the gap that exists in the exploitation of biomass and biowaste as a renewable energy source in Greece and at the same time offer a solution to the environmental problem of the correct management of residual and farm waste, which is still heavily relying on outdated and mainly illegal practices.



Benefits

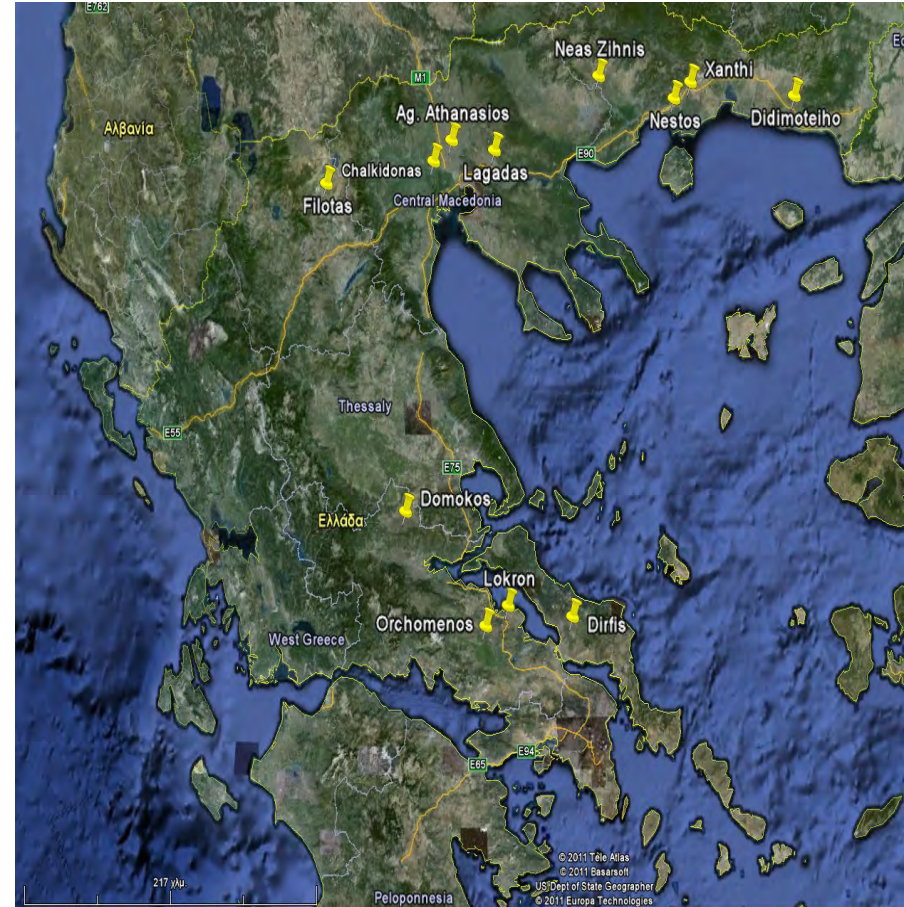
- Managing Resources
- Assuring the substantial recycling of organic waste
- Maintaining a closed, environmentally friendly natural cycle
- Assuring Recovery of energy
- Creating a sustainable and circular economy



- Terna S.A. successfully completed the construction of a sorting plant (500.000 t/y) of commingled Municipal Solid Waste (MSW) in Sharjah of U.A.E. under BOT scheme which is in full operation since January 2010
- TE owns a mature pipeline of twelve (12) Biogas Projects placed in selected location all over Greece. Three of these projects are currently under construction
- Has under final development stage (Environmental Impact Assessment already obtained) an MSW treatment Plant 200.000 t/y in the Peloponnese Region, Greece

Biogas Projects

- TE investment portfolio consists of 12 facilities which are utilizing manures, agricultural residues and energy crops to generate energy through anaerobic digestion technology.
- The power of each facility varies from 1 MW thru 2 MW for a total power of 14 MW
- The lots required for the construction of the plants have been selected to be located near the agricultural and animal growing facilities where the biomasses will be produced.
- Long term agreements for the supply of the biomasses are already in place and have been submitted to the appropriate authorities.
- Participation of cooperating farmers as partners in such projects. Target is to achieve a model development in cycle with the local economies



Investment is EUR 70m.

Peloponnese Waste Management Project

- The Project is a 25 year BOOT with a total waste treatment capacity of 200 ktn/year
- It consists of 3 geographically diverse Mechanical and Biological Treatment (MBT) Plants
- Each plant includes waste-to-energy facilities
 - Renewable energy production of a total power of 3 MW_e utilizing the biogas produced from the anaerobic digestion units
- Auxiliary facilities include:
 - Two **Transfer Stations** (total capacity 84 ktn/year)
 - Three **Sanitary landfills** (total capacity of 90ktn/year for 25 years)
- Project Investment is **EUR 154m.**





on the footsteps of the past... with the means of today...

we are
building
the Energy
Future

Thank you for your attention.