

WASTE MANAGEMENT IN FRANCE

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IEA, PARIS, 9/01/17



KEY FIGURE FOR WASTE IN FRANCE







48 Mt treated in MSW treatment facilities



14.4 Mt in WtE Plants



42 M inhabitant

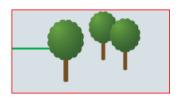


€16.7 Billion spent for waste management

with a local prevention plan 37.7 MT MSW collected by public service



17 Mt of waste recycled



21 Mt CO2 avoit by recycling

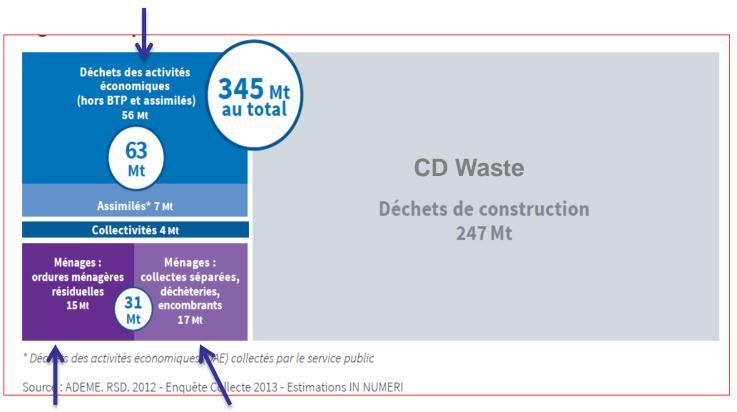


128,000 jobs



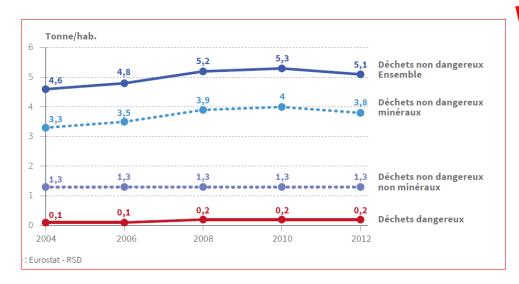
WASTE PRODUCTION IN 2013

Industrial Waste

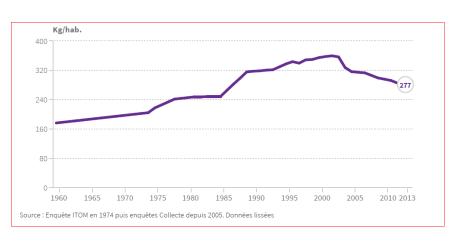


Raw MSW Separated collected MSW





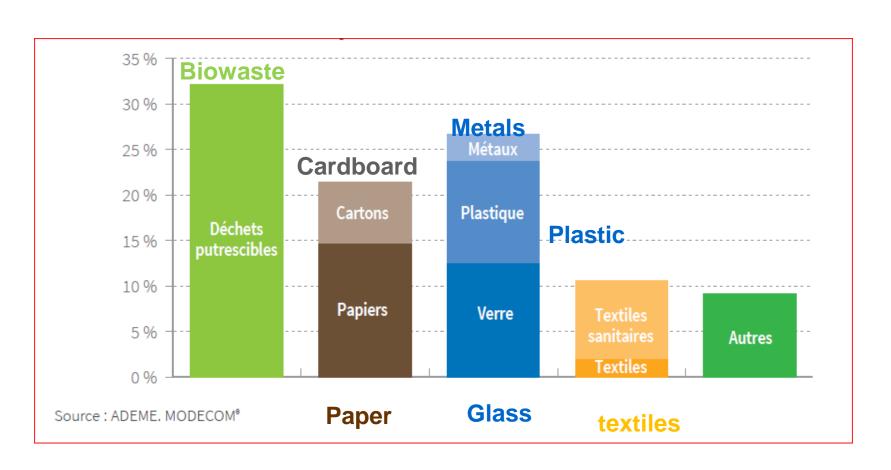
Waste production trends t/ca



Household waste



MSW CHARACTERIZATION

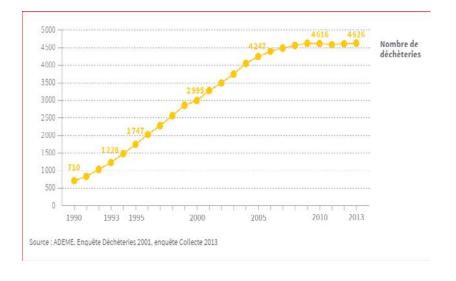




Taux de couverture de la population (2009)décembre 2014) Réunion Martinique Guyane Guadeloupe Taux 80 % 50 à 80 % 30 à 50 % 0 < Taux < 30 % Pas de programme

Local prevention plan

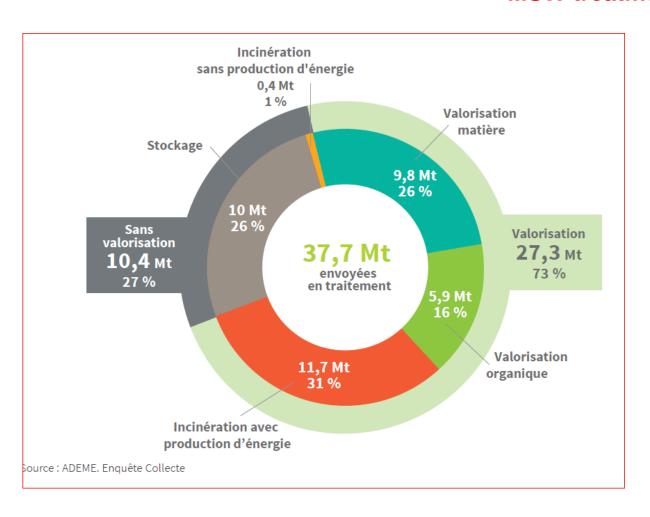
WASTE PREVENTION



Waste recycling centre

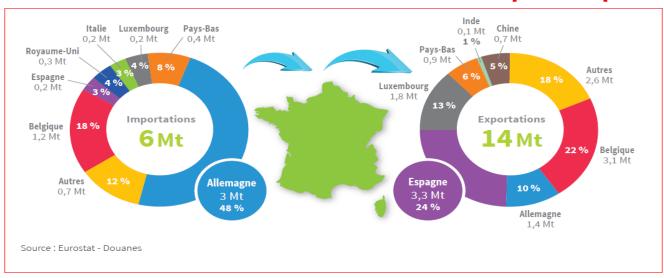


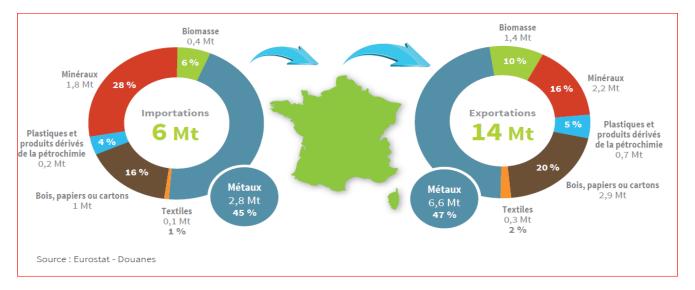
MSW treatment in 2013





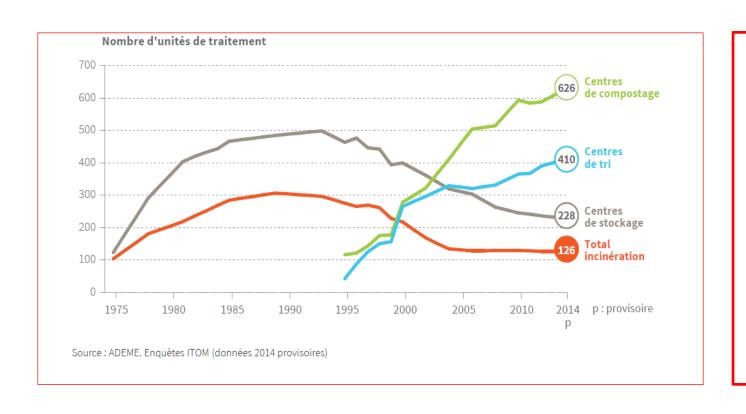
Import-export Waste 2015







WASTE TREATMENT FACILITIES



Composting

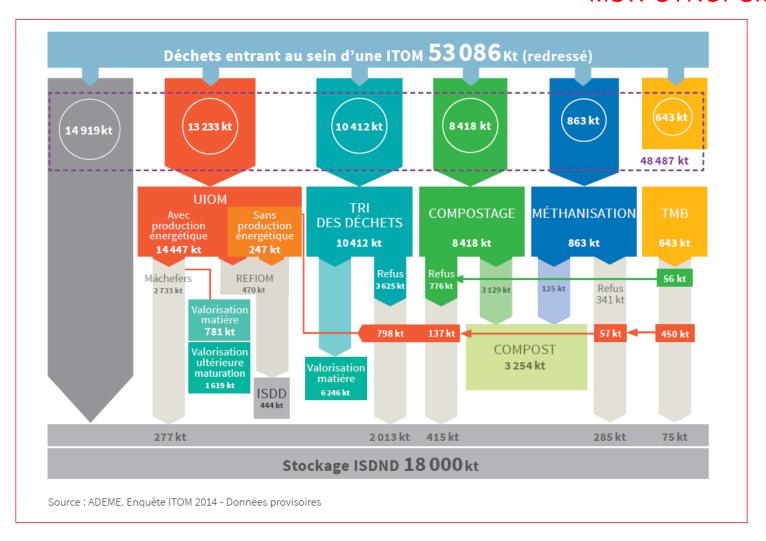
Recycling

Landfill

WtE

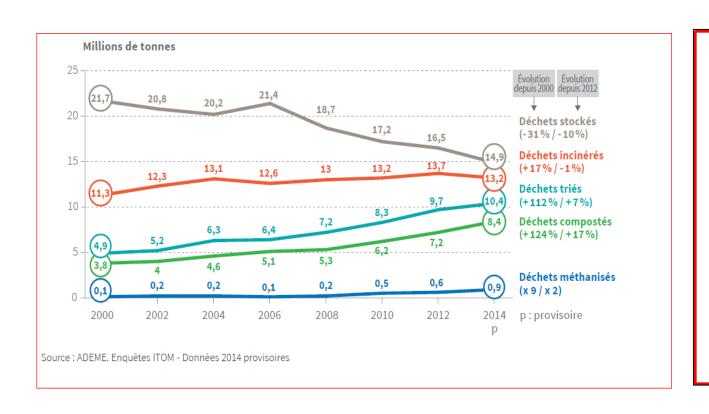


MSW SYNOPSIS





WASTE TREATMENT TRENDS



Landfill

WtE

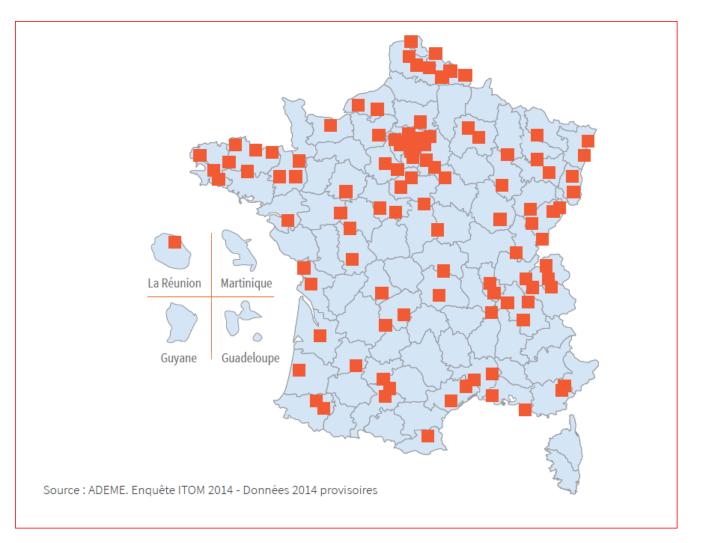
Sorted

Compost

AD



WtE plants in 2014



114 Units

14.4 Mt

34% of MSW

1276 kWh/t heat

422 kWh electric

1078 kWh/t coge

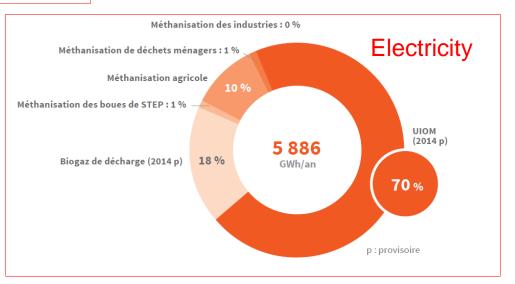


Méthanisation de déchets ménagers : 0 % Méthanisation agricole Méthanisation des industries 5 % Méthanisation des boues de STEP 4 % Biogaz de décharge (2014 p) 6 % 11 519 GWh/an

Energy from waste in 2015

source : ADEME. Enquête ITOM (données provisoires) pour les UIOM et les ISDND. Études ponctuelles sur les STEP, sources administratives pour la méthanisation agricole et étude ponctuelle pour la méthanisation industrielle

p: provisoire

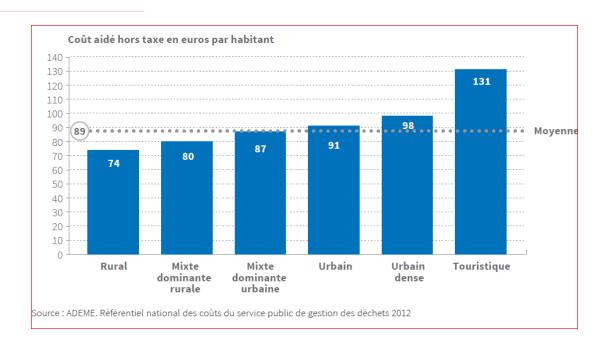




Traitement 38 % Collecte et précollecte 45 % Charges fonctionnelles Fource : ADEME. Référentiel national des coûts du service public de gestion des déchets 2012

WASTE MANAGEMENT COST

Cost included income





RDF

- New legislation for preparation & recovery
- CSR characteristics
 - LHV >12 MJ/kg,
 - CI < 15 g/kg
 - *Hg* < 3 *mg/kg*
 - Br < 15 g/kg
 - Halogens < 20 g/kg
- RDF Boilers
 - Co-combustion, 2971
 - Same requirement than WtE plan
- ADEME tender
 - 14 projets
 - 3 selected: 16 MW, 26 MW, 60 MwW