

The Irish Government's 2020 target for CHP installed capacity

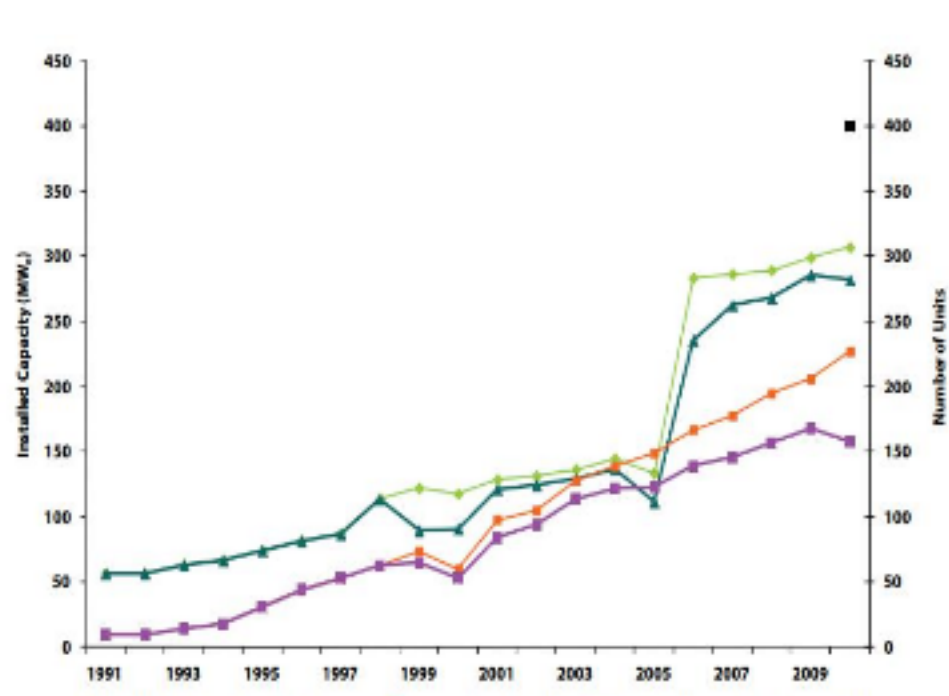
**800 MWe**

**307 MWe**

The amount of CHP installed capacity in Ireland in 2010

## History of Irish CHP

Number of Units and Installed Capacity 1991-2010



**-0.6%**  
Decrease in operational capacity from 2009 to 2010, **-1.7MWe**

**63 Units**  
Status Unknown  
**17.6MWe**

**2.6%**  
The growth in CHP installed capacity between 2009 and 2010

## CHP Fuel Sources

Natural Gas



**93%**  
of CHPs are fuelled by natural gas

Wood Biomass



**2%**  
of CHPs are fuelled from sources such as sawdust and wood chippings

Miscellaneous



**5%**  
Includes fuel sources such as biogas from landfill sites, anaerobic digestion or gasification

## Savings from CHP

**Avoided CO2 Emissions**

The use of CHP in 2010 avoided 531 kt CO2 emissions when compared with separate electricity and heat production

**Primary Energy Savings**

There was a primary energy saving of 26% from CHP plants in 2010 compared to separated heat and electricity production

**CHP Heat Output**

In 2010 CHP installations met 5.4% of Ireland's total thermal energy demand

The useful heat output was 98% of the total heat generated by CHP plants in 2010

## CHP by Sector

Industry



**20%**  
of Irish CHP UNITS

The food & beverages sub-sector contains the largest number of units in industry with 38% of units and 23% of industrial installed capacity

**YET 89%**  
of Irish CAPACITY

Services Sector

**80%**  
of Irish CHP UNITS

**YET 11%**  
of Irish CAPACITY

Within the services sector hotels account for the majority (40%) of units while the leisure subsector is the second largest at 20%

## The Future of CHP in Ireland



According to the SEAI, by 2020, energy costs are set to rise by 30%



CHP efficiency versus traditional grid resources will continue to improve

**2015**

The majority of growth is expected to occur from 2015 onwards

## References

1. Dennehy, Fanning & Howley (Energy Policy Statistical Support Unit) "SEAI: Combined Heat and Power in Ireland 2012 Update" available from [http://www.seai.ie/Publications/Renewables\\_Publications/\\_CHP/CHP\\_in\\_Ireland\\_2012\\_Report.49053.shortcut.pdf](http://www.seai.ie/Publications/Renewables_Publications/_CHP/CHP_in_Ireland_2012_Report.49053.shortcut.pdf)

2. Dunne, E. "Frontline Primary Research". See <http://www.frontlineenergy.ie>

Lo Call: 1850 676 676

E-Mail: [info@frontlineenergy.ie](mailto:info@frontlineenergy.ie)

Website: [www.frontlineenergy.ie](http://www.frontlineenergy.ie)