

COILLTE SUPPORT ABBVIE'S VISION TO REDUCE CARBON EMISSIONS BY 20% BY 2020

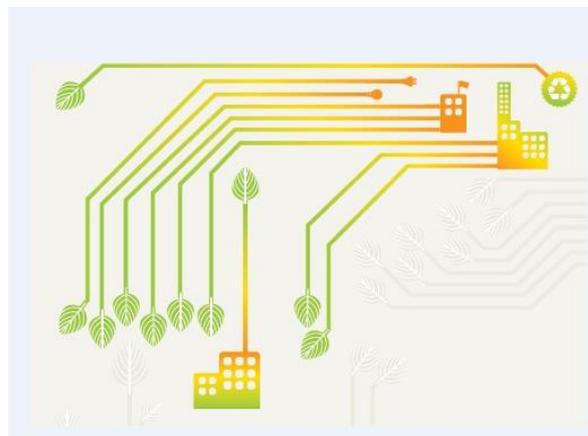
AbbVie is a research-based bio-pharmaceutical company formed in 2013 following separation from Abbott. AbbVie combines the focus of a leading-edge biotech with the expertise of a long-established pharmaceutical leader to develop and market advanced therapies that address some of the world's most serious diseases. AbbVie employs 25,000 people worldwide and markets medicines in more than 170 countries. AbbVie's Irish operations employ more than 400 people across five sites.



AbbVie is committed to reducing global environmental impacts across the business and the Environmental, Health & Safety (EHS) teams across the manufacturing sites continue to lead a wide range of projects that positively impact the environment, the business, communities and employees.

AbbVie's 11,800 m² plant in Carrigtwohill, Co. Cork is a 'bulk tablet' finish facility, which manufactures solid and capsule formulations. This facility employs

the most innovative new technologies, delivering products and processes that support AbbVie's wider global needs. These range from small scale clinical trial supply to large scale commercial manufacturing. AbbVie Cork set a vision to reduce carbon emissions by 20% by 2020. This plan was approached head on with two cutting edge projects undertaken in 2014.



The biomass boiler project saw the installation of a 200kW low pressure hot water (LPHW) woodchip boiler which provides heat for the site. Locally sourced woodchip supplied by Coillte provides the fuel for the boiler, resulting in a 5% reduction in CO₂ emissions from this cost neutral investment. The second initiative was a chiller optimisation and HVAC free cooling project which involved the installation of dampers and ducting on main AHU's to take advantage of cool external air and warm internal air. The project resulted in savings of €180,000 in energy bills per year and a 10% reduction in CO₂.

The biomass boiler system and the 50m² boiler house plant room were designed and installed by Filtrex Ltd. The boiler house was part pre-

assembled off-site allowing for quick assembly following site delivery. The boiler house is separated into two sections; the plant room to house the boiler, flue and fuel handling and the wood chip store with floor mounted circulating fuel agitator. Bulk biomass fuel is delivered into an external fuel delivery hopper which then transfers the fuel to the main fuel store.



Coillte supply the plant from a local biomass fuel processing hub located in Ballynoe, Co. Cork. Operated by Ballynoe Agri, this processing hub stocks round wood for processing into biomass energy and comprises of a large secure log storage yard and fuel storage sheds. Pulpwood logs are sourced and delivered on a pre-planned basis by Coillte for on-site storage and air drying down to 35% moisture content. All wood chip will be produced strictly in accordance with quality specifications set out in I.S. CEN/TS 14961 : 2005. The client is invoiced on a gigajoule (GJ) of energy delivered basis at the end of each month.

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