

[Home \(/\)](#) / [Product news \(.../\)](#) / [15 May 2018 \(.../\)](#) / [Turboden ORC Technology first choice for cement plants](#)

Turboden ORC Technology first choice for cement plants

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Turboden, a supplier of ORC systems for waste heat recovery, states that its ORC Technology is popular with cement plants due to its innovative solutions that increase energy efficiency, such as the direct heat exchange system and the heat recovery through pressurised water circuit.

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In waterless conditions, ORC is also the best solution in terms of efficiency and cost compared to steam technology.

Insights on the latest projects awarded to Turboden in the cement field reflect this popularity.

Turkey: CTP Team S.r.l., CTN Makina Mühendislik Insaat Celik Konstrüksiyon Otomasyon signed an order with Turboden for the supply of a 7 MWe ORC plant with air cooled condenser (ACC) to be installed in the Çimko Çemento Narlı factory (Sanko Group) that recovers heat from the exhaust gas coming from the production process. Since the cement plant is located in a desert area, there is no water available for the cooling system: in waterless conditions, the ORC technology wins the competition with the steam technology, due to its higher efficiency and lower cost/kW.

Switzerland: CadCime SA and Holcim Suisse Eclépens (LafargeHolcim Group) choose Turboden ORC technology for a 1.3 MWe plant that recovers heat from the existing pressurised water circuit, used for the district heating network. LafargeHolcim, through Cadcime, purchases the third Turboden ORC plant for its factories.

Italy: the 2 MWe heat recovery plant with direct heat exchange installed in Cementi Rossi (start up 2Q18). Turboden supplies its signature direct heat exchange system that uses a non-flammable fluid in this case. The Direct Exchange technology brings several advantages: an increase in energy efficiency, the optimisation in the use of the exhaust gases, the reduction of capital and operating costs due to the exclusion of the intermediate thermal oil (or pressurised water) loop, and the greater plant simplicity that comes with it.

Read the article online at: <https://www.worldcement.com/product-news/15052018/turboden-orc-technology-first-choice-for-cement-plants/>