

Partnering in sustainable energy



Photos: Marc Dorleijn

HVC, PUBLIC SERVICE WASTE AND RENEWABLE ENERGY COMPANY, IS EXPANDING ITS CITY HEATING NETWORK IN THE ALKMAAR REGION OF THE NETHERLANDS. THANKS TO GOVERNMENT SUPPORT, HVC DEVELOPED A POSITIVE BUSINESS CASE FOR THE CONNECTION OF TWO DISTRIBUTION NETWORKS TO THEIR OWN BIOMASS PLANT INSTEAD OF THE CURRENT TWO GAS-FIRED CO-GENERATION PLANTS.

These plants would require major adjustments to comply with new emission regulations in 2018. The Dutch government has put an incentive scheme in place for stimulating sustainability in energy production, the SDE+.

History in sustainable energy

HVC was founded in 1991 to build a high-tech waste incineration plant in Alkmaar. First responsibility of the company is the sustainable waste management of its shareholders: 46 municipalities and 6 water boards. Since its foundation, HVC developed into a company with a strong focus on sustainable management of natural resources and sustainable energy. In 2016, it exploits two sorting and recycling plants, two fermentation plants, two waste incineration plants, a sludge incineration plant, and a bio energy plant. In addition, HVC is active

in wind, solar and geothermal energy and has high ambitions to play a role in a sustainable future.

City heating network Alkmaar

In Alkmaar, after producing electricity from incineration heat, the excess heat is transported through the pipelines of a city heating network. This way, households and companies no longer need their own boiler, which means a significant amount of CO₂ reduction. Until the end of 2017 this network will be expanded to a new residential area, also it will expand to other villages and possibly a large greenhouse area. 'We have a very tight schedule', says HVC Project Manager Mr. Nico Glorie. 'A good cooperation and communication with municipalities, contractors and other stakeholders is vital. This is one of the reasons we asked Tebodin to help us. We have partnered up before in similar projects and their

multidisciplinary approach and knowledge of our needs is important to us.' Tebodin Project Manager Mr. Stanley Hunte: 'Tebodin will deliver routing studies, basic design and detail engineering. In those phases we will make route maps, perform permit calculations, write technical work descriptions and perform cost estimations. Because of the tight schedule internal and external communication is key.'

In addition, Tebodin assists HVC during the tender phase, including several trenchless crossings, which will be completed around August. Construction will start subsequently until October 2017. ■