



# GreenRoot

## Lutherstadt Wittenberg

### Green hydrogen for a sustainable future

In Lutherstadt Wittenberg, VNG AG, VNG Handel & Vertrieb and HyCC are planning to build a state-of-the-art plant for the production of green hydrogen from renewable energy.

The electrolyser, with a capacity of up to 500 megawatts, could produce around 50,000 tonnes of green hydrogen annually, providing around 5 percent of Germany's production capacity envisaged in the National Hydrogen Strategy.

While VNG AG and VNG H&V contribute their expertise in the development of marketable hydrogen concepts, HyCC, as a technical partner, will in future provide the necessary know-how in the field of electrolysis – the key technology for the production of green hydrogen.

The hydrogen project is intended to be an important building block for the sustainable future of the region and to assure the continued success of the local industrial base into the long term. At the same time, GreenRoot can promote the ramp-up of the hydrogen market in Germany as a whole by tapping into the core network.

The plant, which is scheduled to come on stream in 2029, is to be built on the site of the former waterworks of the Lutherstadt Wittenberg municipal utilities, opposite the Piesteritz Agro-Chemical Park. The site is therefore in the direct vicinity of SKW Piesteritz, which intends to switch its energy supply from fossil fuels to green hydrogen in the future.

#### Key facts

##### Project objectives

Construction of an electrolyser in Lutherstadt Wittenberg and production of green hydrogen from 2029.

2029

##### Significance

Chemical manufacturers such as ammonia and urea producer SKW Piesteritz want to use green hydrogen to replace natural gas in the medium to long term, and to reduce CO<sub>2</sub> emissions.

CO<sub>2</sub> ↓

##### Output

Electrolysis with a power output of up to 500 megawatts.

500 MW

##### H<sub>2</sub> production

Annual production of approx. 50,000 tonnes of green hydrogen.

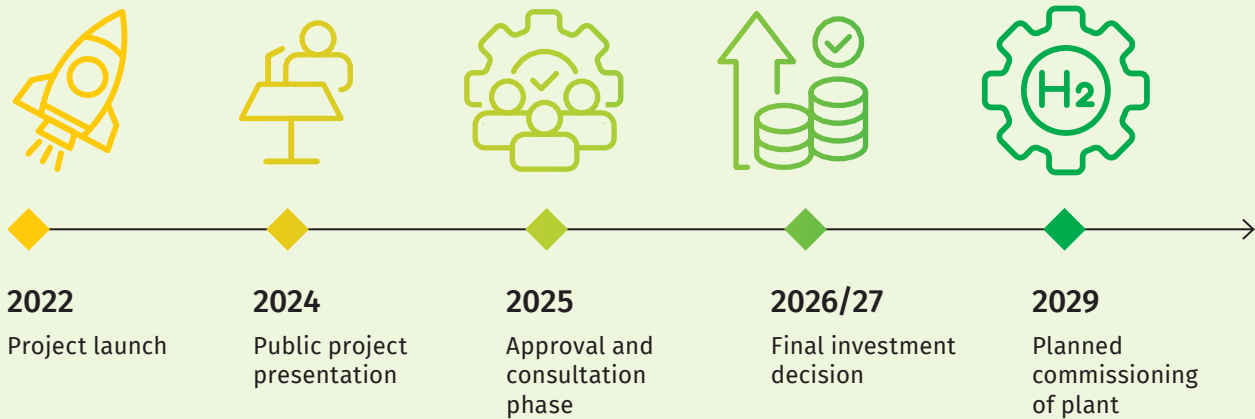
50.000 t

##### Context

According to the German National Hydrogen Strategy, the maximum production quantity of up to 5 percent of the German production capacity.

5 %

## Project plan



## Project partners



**HyCC** is a leading partner for the secure supply of green hydrogen and sustainable solutions in circular chemistry. With over 100 years of experience in electrolysis and a market-leading position in safety, HyCC develops innovative projects for emission-free hydrogen production from renewable energies. The green hydrogen is used, among other things, for sustainable steel and recyclable aviation fuels, thus making a decisive contribution to a carbon-free industry.

As a joint venture between Nobian and the Green Investment Group of Macquarie Asset Management, HyCC promotes sustainable development and global transformation.

More at [www.hycc.com/de](http://www.hycc.com/de)



**VNG** is a Group of over 20 companies active in the European energy industry with a total of around 1,700 employees. As a gas importer and distributor as well as an operator of critical gas infrastructure, the Leipzig-based Group is central to assuring the security of the gas supply in Germany.

With its "VNG 2030+" strategy, VNG is pursuing an ambitious programme for rolling out renewable and decarbonised gases such as biogas and hydrogen, paving the way for the sustainable, secure energy supplies and, in the long term, the climate-neutral energy system of the future. VNG's investments in infrastructure and green gas projects are primarily in Central and Eastern Germany, with the aim of making a significant contribution to structural change as a company firmly anchored in its home region.

More at [www.vng.de](http://www.vng.de)



**VNG Handel & Vertrieb GmbH**, based in Leipzig, supplies natural gas reliably and flexibly to trading companies, redistributors, municipal utilities, power station operators and industrial customers in Germany and abroad. Innovative products, diverse services and individual concepts for an environmentally friendly energy supply provide comprehensive support in the implementation of the energy transition.

With sales offices across Germany and in neighbouring countries, investments and business contacts across much of Europe, and as part of the VNG AG group of companies, VNG Handel & Vertrieb GmbH is always close to its customers yet well positioned internationally.

More at [www.vng-handel.de](http://www.vng-handel.de)

**Any questions?** Let us know!

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