

Ida-Virumaa Hydrogen Cluster Vision

Webinar | Hydrogen – Driver of the Estonian (green) Future

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Ida-Virumaa vesiniku klaster

Why Ida-Virumaa?

- **Strategic location** (Start/end of North Sea – Baltic TEN T corridor)
- **Background in industry and energy production** (100 years of experience)
- **Inevitable need for restructuring and a new vision** (Green Deal, target region for Just Transition Fund)

What is Ida-Virumaa Hydrogen Cluster?

- The overall goal of the cluster is to **improve the living environment of the region and to increase competitiveness** through innovation and high value-added technological solutions.
- The cluster supports the **development of complex solutions based on green hydrogen in Ida-Virumaa**, using various EU and Estonian support measures, networking and the involvement of competencies from Estonia and abroad for the development of projects.
- Companies, organizations and individuals interested in the application and research of hydrogen technologies are welcome to join the cluster.

Vision 2050

- **Ida-Virumaa is known as a Viru Hydrogen Valley** and the leader in the Northern Europe in the field of green hydrogen production and consumption. Ida-Virumaa produces 35,000 tons of green hydrogen per year, which is consumed on site.
- Hydrogen is widely used in Ida-Virumaa, for example **in the transport sector, metallurgy, chemical industry, warehousing.**
- **Public transport in Ida-Virumaa has been switched to green hydrogen**, 1/3 of new cars are hydrogen cars; it is possible to **refuel hydrogen in Ida-Virumaa ports.**
- Components of the entire value chain of hydrogen production **are manufactured** in Ida-Virumaa (tanks, electrolysers, filling station equipment etc).
- Hydrogen-related activities **provide high-paid work.**

Initiatives

- **Development of a hydrogen complex in Narva Business Park:**
 - **Green energy production** (electricity from solar panels)
 - **H2 production** (water electrolysis)
 - **H2 storage**
 - **H2 filling station**
 - **H2 distribution for mobility** (buses, cars)
 - **H2 distribution to other local end users:** industrial feedstock etc
- ...

Key success factors

- Focus on the projects that **cover the whole value chain and are sufficiently large scale ones** (from green energy production to final use of hydrogen)
- Local-national-international **partnership** (this is not a one man show)
- **Financial support** from EU, national and local level combined with private investors (hydrogen is not a business case, at least not yet)

Future in Estonia – **4-5 hydrogen islands?** 😊

Contact for further information:
www.viruvesinik.ee

