



# VORTEX-4-FUSION

## Harnessing the power of light to drive nuclear fusion

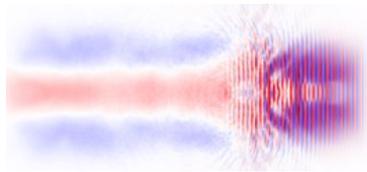
Global demands for energy are rising. Estimates suggest that in **2050** we will need **4.5 times** the energy we use today.

Generating energy from **nuclear fusion** is an attractive option because it will not produce greenhouse gases or radioactive waste. However, we do not yet have a method to get **more energy out** of a fusion device **than is put in**.



### The solution

V4F will design new technology capable of unprecedented control over **interactions of light and matter** to greatly improve the **energy balance** of fusion reactions.



We will use **magnetic fields** generated by a new type of **twisting laser** to force **specially-designed** boron hydride molecules to fuse, releasing **safe energy** directly harnessed as electricity.



Find out more:



[www.v4f.eu](http://www.v4f.eu)



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