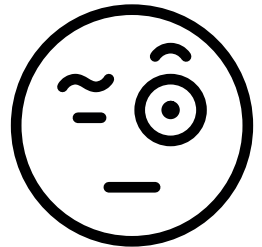


**sustainability &  
supercomputing...**

**those are two words  
that don't match,  
right..?**



**but they do!**

**4** reasons why:

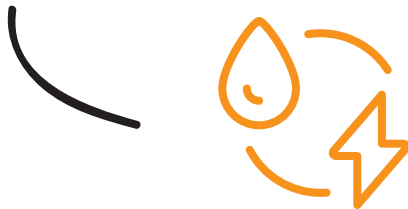
1

## GREEN ENERGY



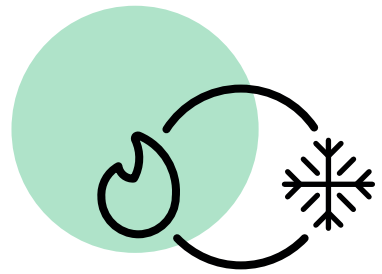
The supercomputer is  
powered by

**100%** renewable energy.

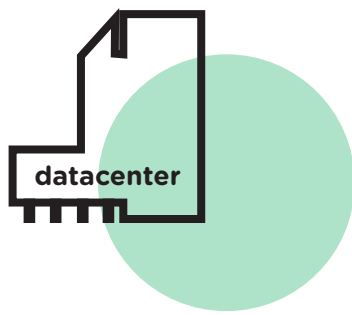


2

## GREEN HOUSING



The building has hot and cold water storage & isles for heating and cooling

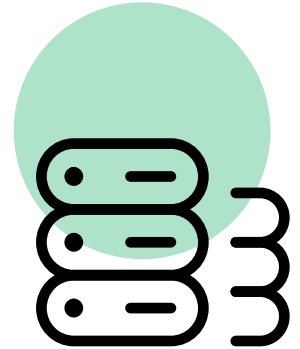


**150m**  
under ground!



3

## GREEN COMPUTER

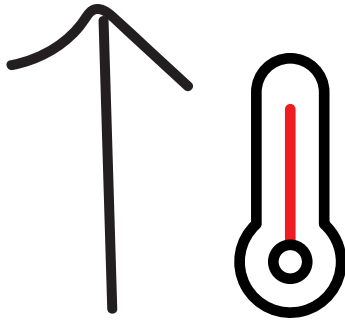


You know how hot a hardworking computer gets, right?

imagine a SUPERCOMPUTER....



So we need **advanced** cooling techniques that are also **green** :)



it can get **SUPER HOT**

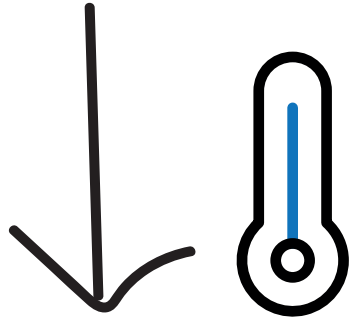


**we use:**

- Water cooling
- Direct liquid cooling for the GPU system

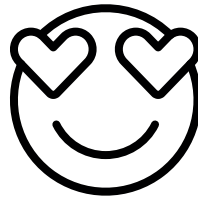


(graphics processing unit)



What is causing all that heat? Oh yes! The **billion scientific calculations** that this beast can do in seconds.

**but what if we could do it more efficiently and save energy?!**



we can with



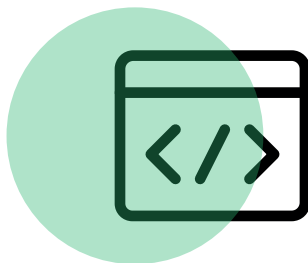



4

## GREEN APPLICATIONS



Using special tools to **optimize** the use of energy for scientific research



That's what we do  
at  SURF

**but we cannot do it all by  
ourselves...**



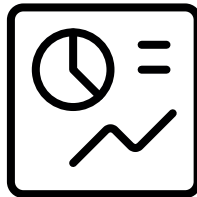
**Hi there user!**

Here's where you  
come in :)

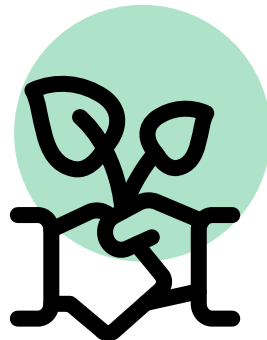
# Become a **GREEN** user!



Become **aware** of the energy footprint of your research



and work  
together to **reduce**  
the environmental  
impact



Ready to  
become a  
green user?



We've got you.

Contact us at [green@surf.nl](mailto:green@surf.nl)  
so we can make **supercomputing**  
**greener** together.