

# Bourakebougou village in Mali, first place to use natural hydrogen used as energy source

Sentinel-2 MSI acquired on 16 March 2021 at 10:50:31 UTC  
Sentinel-1 CSAR IW acquired on 15 July 2023 at 18:45:14 UTC

Author(s): Sentinel Vision team, VisioTerra, France - [svp@visioterra.fr](mailto:svp@visioterra.fr)

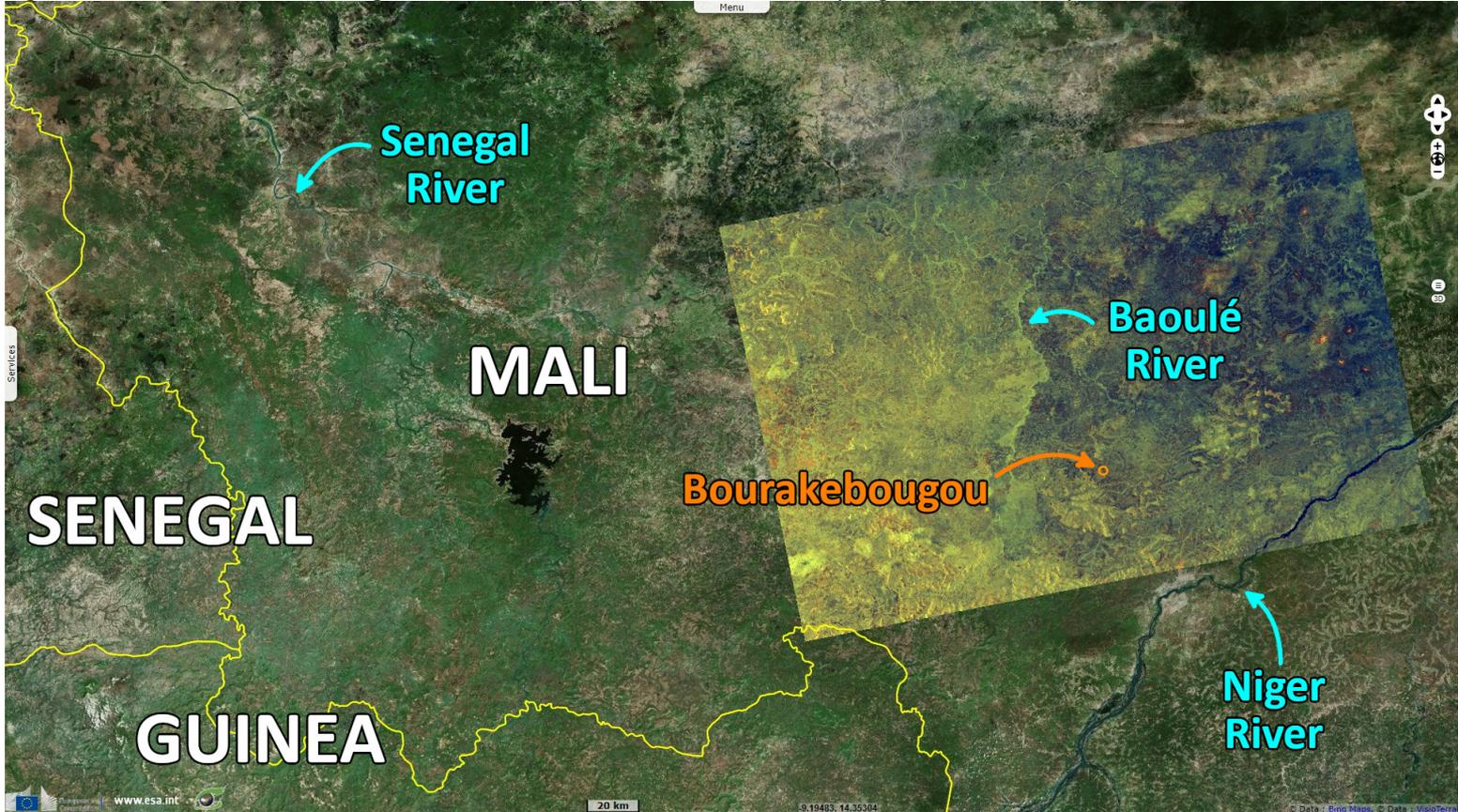
Keyword(s): Climate change, green energy, Mali



[2D Layerstack](#)

Fig. 1 - S1 (15.07.2023) - Bourakebougou became the first place in the world to use hydrogen-based electricity.

[2D view](#)



A major deposit of 98% dihydrogen and 2% methane and dinitrogen was discovered at Bourakebougou, south-west Mali, in 1987.

Fig. 2 - S2 (16.03.2021) - Part of the village is now lit by an electric turbine that delivers 7 kW with a power factor of 20%.

[2D view](#)

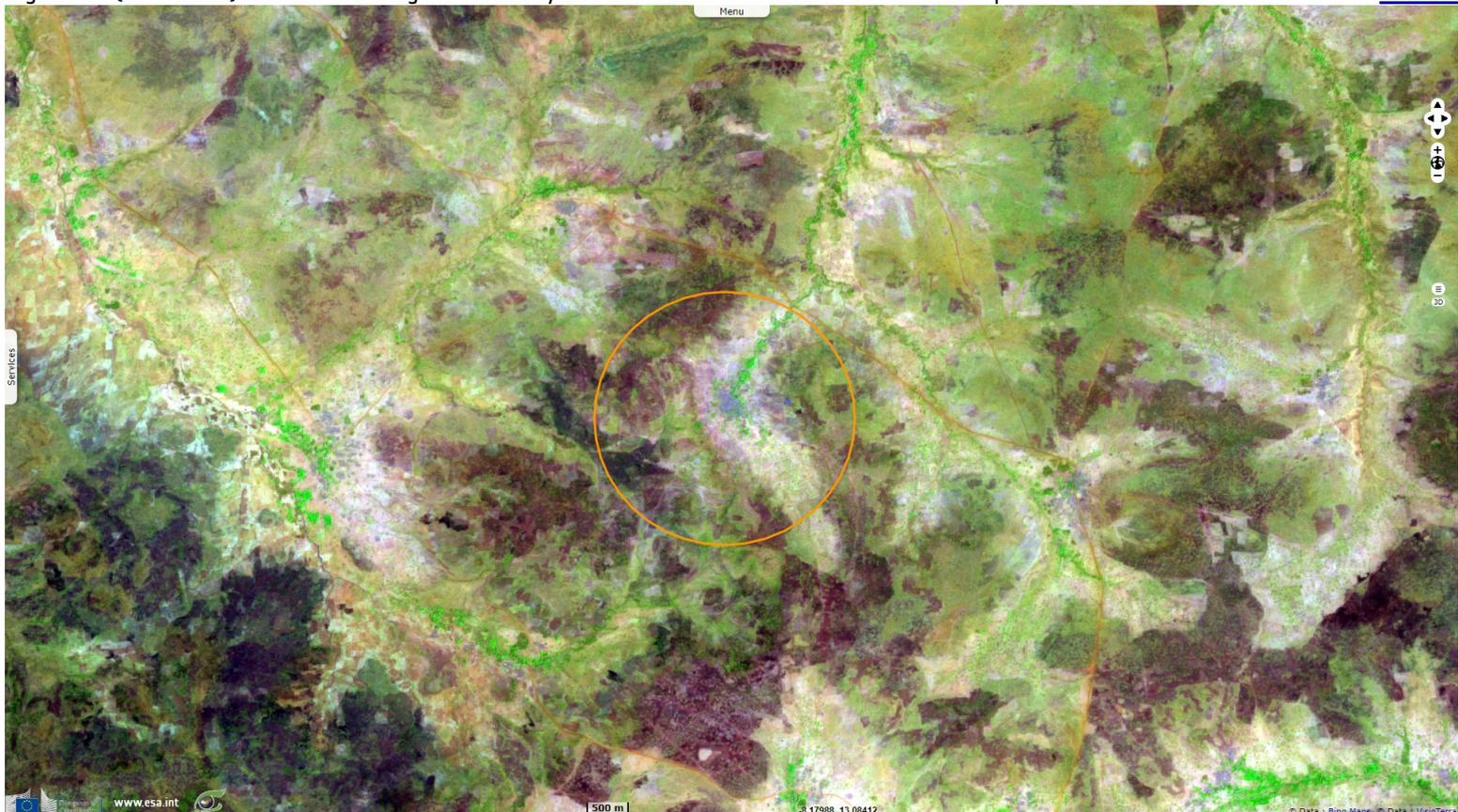


Fig. 3 - S2 (16.03.2021) - This extremely low-pollution electricity emits only pure water as combustion residue and has a very low production cost. [2D view](#)

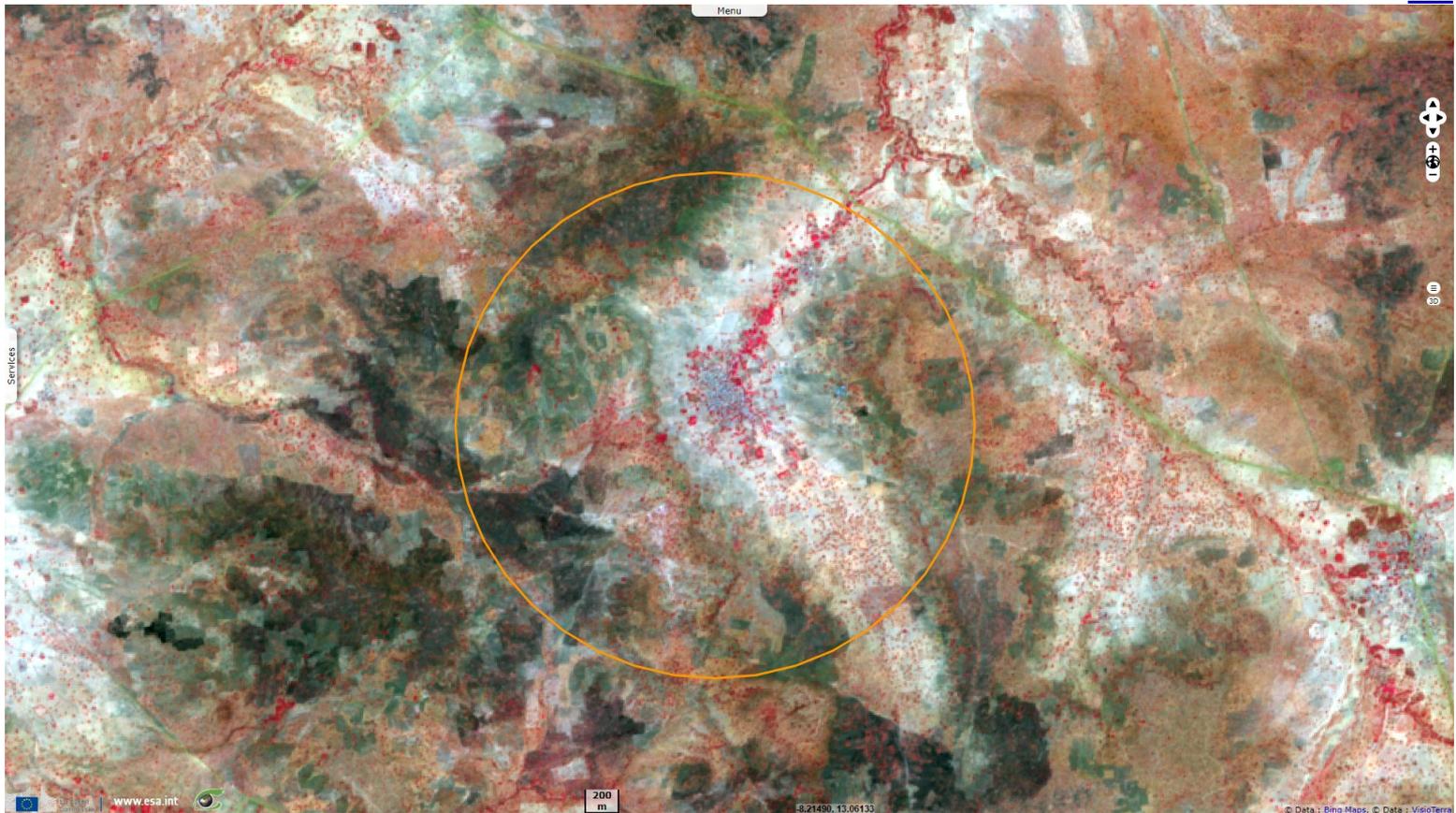


Fig. 4 - 25 exploratory boreholes have also demonstrated the presence of natural dihydrogen in the surrounding area. [2D view](#)



*The views expressed herein can in no way be taken to reflect the official opinion of the European Space Agency or the European Union.  
Contains modified Copernicus Sentinel data 2023, processed by VisioTerra.*

More on European Commission space:						
More on ESA:				<a href="#">S-1 website</a>	<a href="#">S-2 website</a>	<a href="#">S-3 website</a>
More on Copernicus program:				<a href="#">SciHub portal</a>	<a href="#">Cophub portal</a>	<a href="#">Inthub portal</a>
More on VisioTerra:				<a href="#">Sentinel Vision Portal</a>	<a href="#">Envisat+ERS portal</a>	<a href="#">Swarm+GOCE portal</a>
				<a href="#">CryoSat portal</a>		

