SCOUTS of SPIRIT
Umwelt & Energie
Sportstraße 3/1
3131 Getzersdorf
Austria

# Hydrogen xc-smartdrive
# Open Source License Terms
# Declaration of Disclosure and Prior Art Publication
# Date: May 26, 2025

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As of today, the full functionality, underlying thermodynamic principles, and mechanical design of the *Hydrogen xc-smartdrive* are being publicly disclosed. This publication is made **without any patent claims** and with the explicit intention of declaring the technology as prior art.

Core Features of the ***Hydrogen xc-smartdrive***

- Direct combustion of hydrogen and oxygen (or ambient air oxygen) to produce water vapor
- Use of **vapor expansion** to generate mechanical work
- **Targeted cooling and condensation of the vapor** to create vacuum pressure
- **Bidirectional fluid piston process** via communicating cylinders
- Sequential timing logic with dual working strokes
- Open system architecture for third-party development

This description, along with all related content such as sketches, block diagrams, and technical explanations, is publicly accessible at www.xc-smartdrive.com and follows the principles of Open Source Engineering.

The purpose of this publication is to ensure broad public access to the technology, to prevent third-party patent claims, and to promote collaborative development in the spirit of the global energy transition.

**Terms of Use for the Hydrogen xc-smartdrive**

**1. Fair Use Principle**
Use of the Hydrogen xc-smartdrive is based on fairness.
Any individual or organization that makes significant contributions to improvements or further developments should, in the event of commercial use by others, be appropriately acknowledged and financially rewarded.

**2. Commercial Use**
The Hydrogen xc-smartdrive technology may be freely used for commercial purposes.
All products based on this system must clearly reference the name "Hydrogen xc-smartdrive" in technical documentation, devices, manuals, and promotional materials. Additional proprietary brand names are permitted.

**3. Publication Requirement for Improvements**

Before any commercial use of significant technical enhancements, the newly developed components or methods must be published in a comprehensible way to ensure transparency for the community.

**4. Patent Policy for Add-on Modules**

Patents for extensions or supplementary modules based on the Hydrogen xc-smartdrive are permitted under the following conditions:

a) The patented technology must be made available to all manufacturers and suppliers producing Hydrogen xc-smartdrive-based products under FRAND terms (Fair, Reasonable, and Non-Discriminatory Licensing).

b) License fees may be charged, provided they do not result in market distortion or anti-competitive practices.

c) The core of the original technology remains openly accessible at all times.

5. **Ethical Restriction on Use**

This technology is released under an open license to support the development of sustainable, civilian-based energy systems.

It is prohibited to use this technology – in whole or in part – for:

- Military or combat-related applications
- Repression, surveillance, or use of force against civilians
- Active technology transfer to government entities or organizations subject to international sanctions due to severe human rights violations or military aggression

Independent individuals or civil society groups from affected regions are not automatically excluded, provided they commit to the ethical principles of this project.

**Responsible for this publication:**
Reinhard Preiss, Developer of the Hydrogen xc-smartdrive

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