

Measuring ExxFire's Environmental Impact



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Statements in this presentation that are not historical facts are forward-looking statements. These forward-looking statements are based on management's current beliefs and assumptions, which may or may not prove to be correct.

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ExxFire - The Complete Green Solution

*ODP is relative amount of degradation to the ozone layer. **GWP is relative measure of how much heat greenhouse gas traps in the atmosphere.

| Gas storage | Gas Gas type torage | | Ozone Depletion Potential (ODP)* | Global Warming Potential (GWP)** | Remarks |
|--|--------------------------------------|-----------------------------|---|---|--|
| NO PRESSURE | I | ExxFire N ₂ | 0 | 0 | Greenest alternative - Zero ODP* & GWP** No safety issues from installation Maintenance-free for working lifetime |
| HIGH C PRESSURE I C A L | N E R T | Cylinder N ₂ | 0 | 0 | Safety issue due to very high-pressure storage High costs for transport & installation Yearly maintenance + each 10 years hydrostatic test |
| | | Cylinder CO ₂ | 0 | 1 | Not suitable for occupied room protection Lethal due to instant tissue/lung penetration |
| | C H E M I C A L | FKs Novec 1230 | 0 | 1 | Fluorinated ketones produce perfluoro-propionic acid affecting lung tissue. Class action lawsuit initiated in 2018 |
| | | HFCs FM-200 | 0 | >3,800 | Phasing out. 2016 Amendment to Montreal Protocol reducing hydrofluorocarbons by 37% in 2020, 79% in 2030 |
| | | Halon | 16 | 6,900 | Production prohibited, except aviation & military Aviation exemption for new type certifications ends in 2024 |
| AEROSOLS (not a gas, but completing the overview of available technologies) | | 0 | 0 | Sensitive hardware corrodes after deployment despite instant cleaning Lethal incidents | |

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- ExxFire's Business Plan through 2026 forecasts almost 150,000
 Cool Gas N₂ Generators installed throughout the world.
- The assumption is that these will replace existing fire suppression systems, which use different gases for fire suppression.
- Those gases have significantly greater impact on the environment, with most having GWP (Global Warming Potential) effects, expressed in equivalent tons of CO₂ being released into the atmosphere.
- We have adopted two approaches to measuring this impact: 1) a cumulative measure over the period; 2) an annual impact measure.



1. ExxFire's Cumulative Environmental Impact

- ExxFire generators to be sold over period 2021 2016 = 149,745.
- Total period nitrogen generating potential = 848 tons N₂.
- Volume protection potential = 1.1 million m³. (Design concentration: NFPA 2001 Class C: 45.2%)
- This volume protection potential can also be achieved by other agents.
- Unlike N₂, all these other agents have negative Global Warming Potential (GWP) expressed in equivalent emissions of CO₂.

| Agent | Design concentration | Tons required | Global Warming Potential (GWP) | GWP in tons CO ₂ equivalent |
|------------------------------|---|---------------|-----------------------------------|---|
| HFC-227 (<i>FM-200</i>) | NFPA 2001 - Class C: 8.5% | 833 | >3,800 | > 3.2 million |
| FK-5-1-12 (Novec 1230) | NFPA 2001 - Class C: 5.6% | 1,015 | 1 | 1,015 |
| CO ₂ | NFPA 12 - Dry electrical hazards in general: 50% | 2,086 | 1 | 2,086 |

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Cumulative Nitrogen Generating Potential and Volume Protection Potential 2021 - 2026



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Cumulative Mass of Other Agents for Equivalent Volume Protection Potential Over Period 2021-26



NB: In order to achieve same protected volume, other agents can be used.

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Alternative Agents - Cumulative Potential GWP Impact (tons CO₂ equivalent) versus N₂



NB: N₂ reference line is 0, this value cannot be expressed in logarithmic scale.

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2. Measuring ExxFire's Annual Potential Impact

 In the global gaseous fire suppression industry, between 5 and 10 million cylinders are being produced and installed annually:

| | Market shares* | Agent | Market shares** |
|----------------|----------------|----------------------------|-----------------|
| Chamical gasas | 270/ | HFCs (FM-200) | 28 |
| Chemical gases | 5770 | FKs (Novec 1230) | 9 |
| Inort gasas | 629/ | N ₂ | 31.5 |
| mert gases | 03% | CO2 | 31.5 |

• Over their lifetime (12+ years), at least 25% of these cylinders will be deployed, releasing their gases into the atmosphere.

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** Source: Management estimates

^{*} Source: Zion Market Research



Annual Global Warming Potential - Fire Suppression

| Agent | Market share based on cylinders (%) | Corresponding mass (tons) | GWP (tons CO ₂ equivalent/tons agent) | Impact (tons CO ₂ equivalent/year) |
|----------------------------|---|------------------------------|---|---|
| HFCs (FM-200) | 28 | 90,000 | >3,800 | 340 million |
| FKs (Novec 1230) | 9 | 35,000 | 1 | 35,000 |
| N ₂ | 31.5 | 116,000 | 0 | 0 |
| CO2 | 31.5 | 288,000 | 1 | 288,000 |
| Potential | | | | 340 million |

• Every year @5 million cylinders, potential GWP of 340 million tons CO₂ equivalent is introduced by industrial fire protection equipment.

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Global impact -Actual Greenhouse Gases Emitted Each Year

- Potential GWP = 340 million tons CO₂ equivalent/year.
- Annually, 2% 3% of installed park is triggered for actual fire suppression, or false alarm, or leakage.

| Deployment | GWP emission (tons CO ₂ equivalent/year) |
|------------|---|
| 2% - 3% | 6.8 million - 10.2 million |

• In perspective:

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- The impact of fire protection systems worldwide represents 4% 6% of entire emission of the Netherlands in 2019 (182.5 millions tons CO₂ equivalent*);
- The value of this impact represents €211m €316m, expressed in EU emission trading costs (CO₂ allowance price of €31 per ton, Dec. 11, 2020).

*Source: https://www.cbs.nl/nl-nl/nieuws/2020/19/uitstoot-broeikasgassen-3-procent-lager-in-2019

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ExxFire's Global Impact - Reducing Greenhouse Gases

- The deployment of ExxFire generators will reduce harmful Global Warming Potential gasses.
- The nitrogen resulting from any discharge will not contribute at all to Global Warming and thereby tip the atmospheric balance back.
- As these facts becomes known, environmental pressures from global governments will increasingly favour ExxFire generators.
- We anticipate our solution will become increasingly standard.