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Siemens' new natural extinguishing agents protect business continuity in critical areas

- **Environmentally-friendly and sustainable portfolio**
- **New Siemens ADVtechnology ensures more efficient design process with multi-use components**
- **Support throughout the entire fire safety system lifecycle thanks to extensive Siemens expertise and access to digital tools**

Siemens Smart Infrastructure introduces its new natural agent extinguishing portfolio, Sinorix NXN. Focusing on the protection of lives, assets and business continuity, the new fire extinguishing portfolio combines simplicity with advanced technology to modernize traditional fire safety. The agents consist of the natural gases argon, nitrogen and carbon dioxide. They are ideal for specific application areas such as storage rooms for chemicals (argon), critical electrical infrastructure (nitrogen) or unmanned areas (carbon dioxide). The new Sinorix NXN portfolio uses only agents and compounds that are naturally found in our atmosphere and do not harm the environment. It also has a reduced ecological footprint, thanks to its compact and versatile product design.

Environmentally-friendly and sustainable portfolio

The new Sinorix NXN extinguishing agents are chemically inert and do not create harmful reactions or byproducts on contact with fire. Even in case of an incident, the activated extinguishing agents do not leave any residue behind for clean up or disposal and therefore ensure a rapid resumption of business operations. Inert agents have poor electrical conductivity properties making them ideal in any application where protection of mission critical infrastructure is important. Argon, nitrogen or carbon dioxide offer excellent extinguishing properties for fire Classes A (solids), B (flammable liquids) and C (flammable gases), whereas argon is optimally

suited for fire Class D (metal fires) and nitrogen for Class E (electrical fires). The new Sinorix NXN natural extinguishing agents feature zero ozone depletion potential (ODP) and they are not subject to regulatory restrictions or phaseout. In addition, the extinguishing products follow EN standards and guidelines, and are backed by appropriate certifications, including VdS and CNPP to ensure sustainability of the extinguishing solution.

New design concept

The new ADVtechnology (Advanced Double Actuation Valve) by Siemens saves costs and increases efficiency through all lifecycle phases of a fire extinguishing system. The product portfolio has been simplified by introducing multi-use components that are the same for all agent types. Furthermore, only one type of pneumatic actuator is now used for all pressure ranges (8-360 bar) and only one type of cylinder valve is used for both electrical and pneumatic actuation. This makes the design process more flexible and efficient (for example, calculations for new configurations or new agents are made more quickly). With the help of the ADVtechnology, cylinder exchange as well as time needed for installation has been drastically improved. Now users can install and maintain an extinguishing system more easily and much faster.

Building lifecycle support

In addition to local representation, Siemens operates a Competence Center in Vienna and a testing facility in Switzerland, where new and special extinguishing solutions are tested and improved. These facilities provide specialized expertise for new and highly challenging applications. Additionally, Siemens supports the full building lifecycle with the latest digital tools including specification texts, BIM data, as well as online product selection, configuration, ordering and online calculation tools. Access to Siemens expertise, design know-how and experience avoids over-engineering and minimizes project costs while increasing fire safety.

The new Sinorix NXN extinguishing systems are developed for easy integration in complete fire safety solutions, including fire detection and evacuation to increase safety and reduce risks. This integration also optimizes facility management by enabling cloud-based, digital services that substantially reduce operational and maintenance costs.

The new Sinorix NXN portfolio is currently available in Europe and will be released globally at a later date.

This press release and a press picture are available at <https://sie.ag/3y1UiTi>

For more information on Siemens Smart Infrastructure, see

www.siemens.com/smart-infrastructure

For further information on Sinorix NXN, please see

<https://new.siemens.com/global/en/products/buildings/fire-safety/extinguishing/natural-gas-systems/sinorix-nxn-en.html?stc=wysi110421>

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Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. SI creates environments that care. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2020, the business had around 69,600 employees worldwide.

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. Active around the world, the company focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process and manufacturing industries. Siemens brings together the digital and physical worlds to benefit customers and society. Through Mobility, a leading supplier of intelligent mobility solutions for rail and road transport, Siemens is helping to shape the world market for passenger and freight services. Via its majority stake in the publicly listed company Siemens Healthineers, Siemens is also a world-leading supplier of medical technology and digital health services. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power that has been listed on the stock exchange since

September 28, 2020. In fiscal 2020, which ended on September 30, 2020, the Siemens Group generated revenue of €57.1 billion and net income of €4.2 billion. As of September 30, 2020, the company had around 293,000 employees worldwide. Further information is available on the Internet at www.siemens.com.