El ITC-AICE optimiza la eficiencia energética en la rehabilitación de edificios

El **Instituto de Tecnología Cerámica (ITC-AICE)** trabaja desde hace años en la incorporación de la cerámica en la edificación y en las ciudades, siendo este uno de sus ejes estratégicos de investigación más destacados.

En esta ocasión, y en el marco del proyecto **ES4RE3,** está desarrollando envolventes semiactivas para optimizar la eficiencia energética en la rehabilitación de edificios.

ES4RE3 cuenta con la financiación de Conselleria de Innovación, Industria, Comercio y Turismo de la GVA, dentro del Programa de Ayudas a los Institutos Tecnológicos para proyectos de Innovación en colaboración con empresas en el marco de la especialización inteligente.

Según **Gonzalo Silva,** subdirector de la organización e investigador principal del proyecto, "es una prioridad clave la rehabilitación del parque de edificios existente hacia un nivel cercano a cero emisiones de carbono para poder lograr los objetivos de descarbonización del sector en los años 2030 y 2050, como marca la Unión Europea".

Aproximadamente un 40% de los edificios actuales en los países desarrollados datan de antes de 1980.

En su conjunto, a escala mundial, los edificios y el sector de la construcción representan un 30% de la energía global consumida y un 27% de las emisiones de CO_2. Para alcanzar el objetivo en 2030, la tasa de rehabilitación debería ser superior al 2%, pero la Agencia Internacional de la Energía (International Energy Agency -IEA) confirma que apenas se alcanza el 1%. Este escaso porcentaje se limita en su mayor parte a ligeras renovaciones superficiales y esto ocurre porque se necesita un alto nivel de inversión inicial y existen unos largos períodos en cuanto a plazos de amortización.

Gonzalo Silva explica: "Este proyecto busca acelerar el proceso de rehabilitación. Por eso su objetivo principal se centra en la búsqueda de combinaciones óptimas y rentables de soluciones para la rehabilitación de envolventes de edificios desarrollando sistemas técnicos de alta eficiencia que utilicen fuentes de energía renovables. Estas soluciones deberán adecuarse de forma específica para cada rehabilitación, en función de las condiciones climáticas de la ubicación del edificio, y del tipo y orientación de la edificación a que se destine".

Del mismo modo y estudiando los distintos escenarios que plantea el cambio climático, en el marco de **ES4RE3** se estudiarán especialmente posibles estrategias adicionales de enfriamiento pasivo o semiactivo, puesto que la mayoría de los desarrollos actuales en este ámbito se han orientado a mejorar la eficiencia energética en climas fríos.

Este proyecto, en el marco del compromiso del Instituto de Tecnología Cerámica con los criterios ESG referidos a factores sociales, de sostenibilidad y buen gobierno, se alinea asimismo con los Objetivos de Desarrollo Sostenible (ODS) de la ONU números 11 (Ciudades y comunidades sostenibles) y 13 (Acción por el clima). ◆

Prototipo del proyecto ES4RE3 en las instalaciones del ITC

Interactive spares service now standard on Sacmi high pressure casting equipment

How do you measure the efficiency of a spare parts service? Quick and punctual? Yes, but it is even more effective if, before that, the customer is given the right tools to identify immediately and independently the type of action required automatically generating an order and minimizing the risk of inefficiencies which can be caused by human error.

Sacmi is responding to this challenge with its interactive spare parts service now available on all the latest generation Sacmi high pressure casting solutions. The user simply must access the machine **HMI** interface and select the icon showing the required spare part. By clicking on the icon, the system automatically generates the relevant spare part list, i.e., an actual order which can be downloaded onto a flash drive, printed out or sent by email.

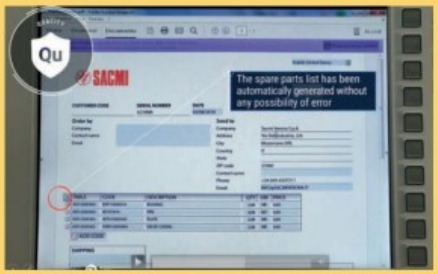
For complex configurations (for example, cells where several machines, robots, etc., are working) it is also now possible to access the cell layout on the interface. The layout is also interactive and can be used to identify quickly and with certainty the machine of interest and part required.

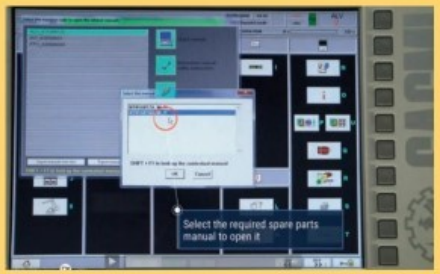
Contrary to the traditional approach, this interactive service not only allows the user to access machine specifications remotely but makes available directly on the machine all the features necessary to identify the spare part and generate the order.

All the same advantages are true also for technical documentation and user manuals, managing of fault signals and maintenance schedules. In this case too, the operator can use contextual manuals on the **HMI** interface to access direct links between the production stage (or critical area) and the fault diagnostics available in the manual.

If necessary, again using the **HMI** interface, it is possible to activate a remote assistance service, where a **Sacmi** operator guides the customer step by step to resolve the problem.

Zero paperwork, minimum risk of error; these are just some of the benefits of this system which results in a reduction of the average problem-solving time (MTTR, mean time to repair) but also significantly decreases the number of critical issues for which an external technician must come into action. This adds up to a revolution in the running of the machines, thanks to the availability of graphic layouts to help identify the individual parts of the machine, thus making both training and the work of the operators easier. ◆





Eriez® names Daryl Leach as CFO and Treasurer

Eriez® has announced the appointment of **Daryl Leach** (pictured) as Chief Financial Officer (CFO) and Treasurer. According to **Lukas Guenthardt,** President and CEO, Leach brings a wealth of financial expertise and leadership experience to the Eriez corporate team.

Prior to joining **Eriez,** Leach played a pivotal role in driving financial excellence and strategic growth at Zeus Industrial Products in Lexington, South Carolina. His career has encompassed a variety of growth-oriented finance roles across diverse sectors, including consumer goods, medical devices, and industrial manufacturing, both in publicly traded and privately held companies.

Guenthardt says, "Daryl's arrival marks a significant milestone for Eriez, as we welcome an accomplished financial professional and visionary leader who is poised to positively shape our company's future. I am confident that his guidance will help propel us toward our strategic objectives and elevate our organization to new heights."

Leach holds a Bachelor of Science degree in finance and economics from Charleston Southern University and a Master of Business Administration from the Ross School of Business at the University of Michigan. After nearly two decades residing in the southern U.S., Leach has relocated to Erie to assume his new position as Eriez CFO and Treasurer.

Guenthardt says that Leach's initial goal will be to connect with teams to gain a deeper understanding of Eriez' global business, operations, and culture. He anticipates a natural alignment, stating, "Daryl embodies our core values and shares an unwavering commitment to innovation, growth, and excellence."

Established in 1942, **Eriez** is a global leader in separation technologies. Their commitment to innovation has positioned them as a driving market force in several key technology areas, including magnetic separation, flotation, metal detection, and material handling equipment. The company's 900+ employees provide trusted technical solutions to the mining, food, recycling, packaging, aggregate, and other processing industries. Headquartered in Erie, Pennsylvania, USA, Eriez designs, manufactures, and markets on six continents through 12 wholly owned international subsidiaries and an extensive sales representative network. ◆