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JHB, "Energy recovery is not a new idea, but with new technology and efficient heat-exchanger." **SOUTH AFRICA** designs emerging in the market, energy recovery is becoming an attractive option for many businesses," he says. He adds that, over the past year, Mechinox SA has invested significantly in advanced technology and software packages that enable it to size heat exchangers for any application, using finite element analysis (FEA) and computational fluid dynamics (CFD). "Using FEA and CFD, we design and size heat exchangers to our customers' exact requirements. "We have clients from various industries and currently have energy recovery systems running in food, chemical and industrial plants, and even in the marine industry. GOSCOF "Many manufacturing and processing plants have sources of waste energy, such as waste heat leaving a chimney stack. We can recover this energy by means of efficient heat exchangers and use it for heat processes or as input heat for heat pumps, for **ENGINEERING NEWS** example," explains De Beer. He notes that new automation and measurement systems are also driving energy recovery through intelligent energy management systems, like a system that recovers waste heat from a building. "Waste heat recovery can potentially save hundreds of megawatts of power for energyintensive industries. "The challenge is what to do with the energy once it has been recovered and this is where innovation comes in. Industrial "Typically, high-grade heat recovered from these industries can be used for processes." like driving power-generation equipment and turbines, which can then deliver energy Cleaning back to the national grid," he states, adding that this benefits not only those industries but also the country as a whole. Future Outlook The company, which is the South African agent for Swedish separation, heat transfer and treatment and fluid-handling equipment manufacturer Alfa Laval, plans to continue Booking expanding its heat- and energy-recovery equipment base with new systems. HEAT RECOVERY SYSTEM A computer-aided design layout of Deadline: a heat recovery system designed for a chocolate factory in Cape : "As energy costs increase, so will the demand for heat- and energy-recovery systems." 14 August 2012 "We plan to increase our offering and ensure we keep up with demand," De Beer says. RELATED ARTICLES Mechinox SA does, however, face one challenge with regard to its energy recovery work, ARTICLES he notes. GENERATE "We rely on our clients to give us accurate information and data when designing a BUYING system. Getting the correct data and information has been challenging at times." **ENQUIRIES** Edited by: Chanel de Bruyn To subscribe to Engineering News's print magazine email No related articles subscriptions@creamermedia.co.za or buy now. LATEST ARTICLES AdChoices ▷ LATEST VESSELS, HEAT EXCHANGERS, TANKS Solar Solutions Government approved inspection authority under new... **FULL ACCESS to Engineering News** & Systems Insulation specialist introduces new developments to SA. and Mining Weekly websites Costeffective a year Solar Local group to launch new fully welded heat exchanger in \* including search and backcopies components No1 SA Distributor and Manufacturer promotes steel reservoirs SUBSCRIBE NOW ▶ Design Centre www.sinetech.co.za New company to empower women. Rubber company develops new pressure vessel lining. Already an online subscriber? 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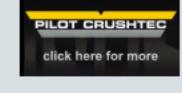


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