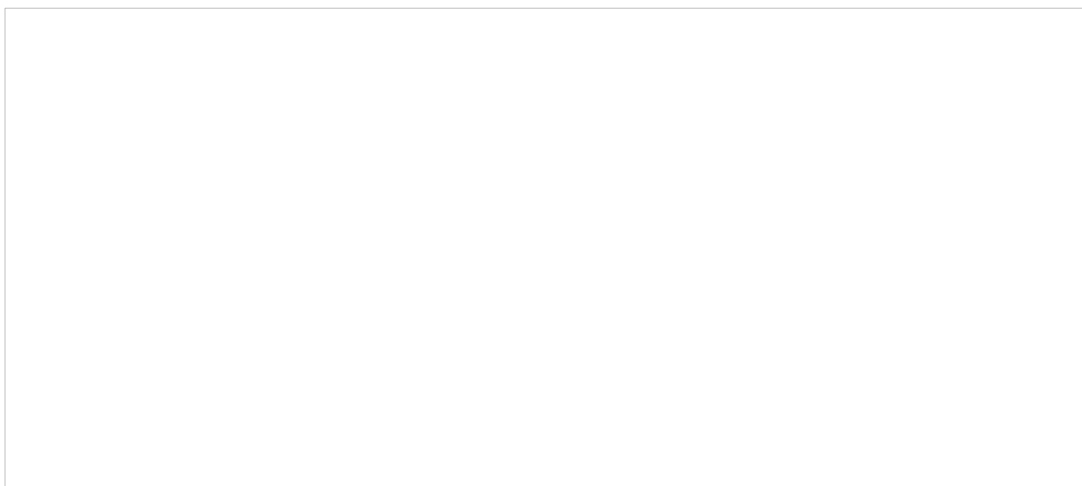


[PDF] Residential Energy: Cost Savings And Comfort For Existing Buildings

Chris Dorsi, John T Krigger - pdf download free book



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About the Author John Krigger is the founder of Saturn Resource Management, and a nationally recognized expert in the field of energy conservation for buildings. For over 20 years, he has presented seminars and produced publications on residential energy-

efficiency, building maintenance, and health and safety. John combines years of hands-on energy service experience with solid academic knowledge, and is the author of 5 books and numerous publications on energy efficiency. His publication Residential Energy is used as a training manual by some of the largest weatherization organizations in the country. John is a Certified Energy Manager of the Association of Energy Engineers.

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Within buildings energy saving can take place through refurbishment of existing property or by building new buildings which replace old buildings and/or which energy performance is better than that of existing buildings. Introduction. Buildings' energy consumption in the EU represents about 30% of total EU energy consumption and between 25 and 40% in OECD countries (OECD, 2003). The recent EU Directive on Energy performance of Buildings (European Commission, 2002) applies to residential and tertiary sectors (offices and public buildings, etc.) and involves all aspects of energy efficiency in both new buildings and major renovation. Find many great new & used options and get the best deals for Residential Energy : Cost Savings and Comfort for Existing Buildings by John Krigger (Trade Paperback) at the best online prices at eBay! Free shipping for many products! Satisfaction Guaranteed! 100% Money Back Guarantee. Book is in typical used-Good Condition. Will show signs of wear to cover and/or pages. There may be underlining, highlighting, and or writing. May not include supplemental items (like discs, access codes, dust jacket, etc). Will be a good Reading copy. EU countries must set cost-optimal minimum energy performance requirements for new buildings, for existing buildings undergoing major renovation, and for the replacement or retrofit of building elements like heating and cooling systems, roofs and walls. all new buildings must be nearly zero-energy buildings (NZEB) from 31 December 2020. Since 31 December 2018, all new public buildings already need to be NZEB. Renovation of existing buildings can lead to significant energy savings, as it could reduce the EU's total energy consumption by 5-6% and lower CO2 emissions by about 5%. Investments in energy efficiency stimulates the economy, especially the construction industry, which generates about 9% of Europe's GDP and directly accounts for 18 million direct jobs. Greenhouse gas emissions associated with residential energy use account for a fifth of all emissions in the U.S. Retrofitting existing houses to achieve a two- to three-fold reduction in energy use is necessary if we are to achieve the emissions reductions scientists say are required for avoiding catastrophic climate change. Here's a look at how it can be done. The report also finds that, although new buildings present opportunities for the most energy savings per building, existing buildings represent a greater opportunity for energy savings overall. According to a 1998 study prepared for the U.S. Environmental Protection Agency, about 290,000 buildings are demolished every year, 245,000 of which are residential (about 0.2% of all residential buildings). Building management systems (BMS) or building automation systems (BAS) are the traditional solution to addressing the problem of energy waste. Companies such as Johnson Controls, Trane, and Honeywell make excellent, sophisticated BMS systems tailored for applications in very large buildings, typically focused on HVAC system management. Unfortunately, BMS is traditionally expensive, complex, and requires specialized installation, programming, and maintenance. The very high cost of traditional BMS means ROI is a challenge for all but the largest buildings; often it takes at least four years to recover the cost of a BMS installation.