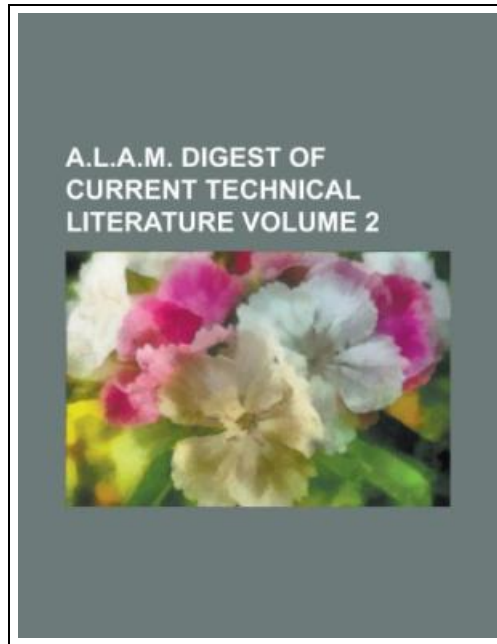


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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 50 pages. Original publisher: Washington, D. C. : U. S. Environmental Protection Agency, Combined Heat and Power Partnership, 2007 OCLC Number: (OCoLC)277477320 Subject: Sewage disposal plants -- Environmental aspects. Excerpt: . . . Table 8 presents the capital costs for the three sample CHP systems. Generally, the largest cost component is the gen-set package, which contains the prime mover and the generator. However, for small projects, the fuel treatment system is often the largest cost component. The fuel treatment system removes moisture, siloxanes, and sometimes hydrogen sulfide to ensure that the biogas is of operational quality. Fuel treatment systems consist of chillers, moisture separators, siloxane removal vessels, heat exchangers, blowers, and associated connections. The costs for fuel treatment in Table 8 do not include hydrogen sulfide removal because the majority of WWTFs already have hydrogen sulfide removal in place. Fuel compression is required for the microturbine case; these costs are included in the fuel treatment category. Switchgear and controls are required for system operation and paralleling with the utility grid. Additional switchgear (transfer switches, wiring, and electrical panels) would also be needed if the WWTF decides to configure back-up capabilities into the system (i. e. , to allow the system to serve critical loads during a utility outage). The heat recovery equipment in each of these sample systems produces hot water for the digesters and other facility needs. For the three CHP systems, the major equipment costs range from 58 to 65 percent of the total installed costs. Remaining costs include those for design, engineering, consulting, installation, and obtaining necessary permits. Typically, municipal facilities use a design-bid-build approach in which the facility is first designed and then the system components are competitively bid. In...



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