

ASR Well Equipment, Above & Below Ground

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ABSTRACT

The growing installed base of aquifer storage & recovery (ASR) well equipment is broadening and accelerating our accumulation of operational data. Based on the author's growing field experience, this paper summarizes "lessons learned" and "best practices," with emphasis on practical examples. Specifically, it outlines above-ground considerations for well head facilities. Below-ground considerations center around equipment choices for pumps, column piping, valving, sensing and controlling ASR wells. Aimed primarily at consulting engineers, this talk discusses how these equipment decisions, in conjunction with well construction decisions, shape the investment and operation costs of projects, and ultimately their failure or success.