



NEW STORAGE LATENT AND SENSIBLE
CONCEPT FOR HIGH EFFICIENT CSP PLANTS



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ABSTRACT

In this report the fundamentals of each fiber optic sensor technology selected to develop the monitoring system for the NEWSOL prototypes is showed. The technology selected are Fiber Bragg Grating (FBG) punctual sensors and Brillouin distributed sensors (BOTDA). Moreover, the optimized methodologies developed for coating optical fiber, specifically for FBG sensors and sensor packaging is described. In addition, the FBG sensor interrogator developed work is detailed. Finally, a summary table with the number of sensors for each NEWSOL layer and prototype is presented.