

General information about the steel tower at PSA

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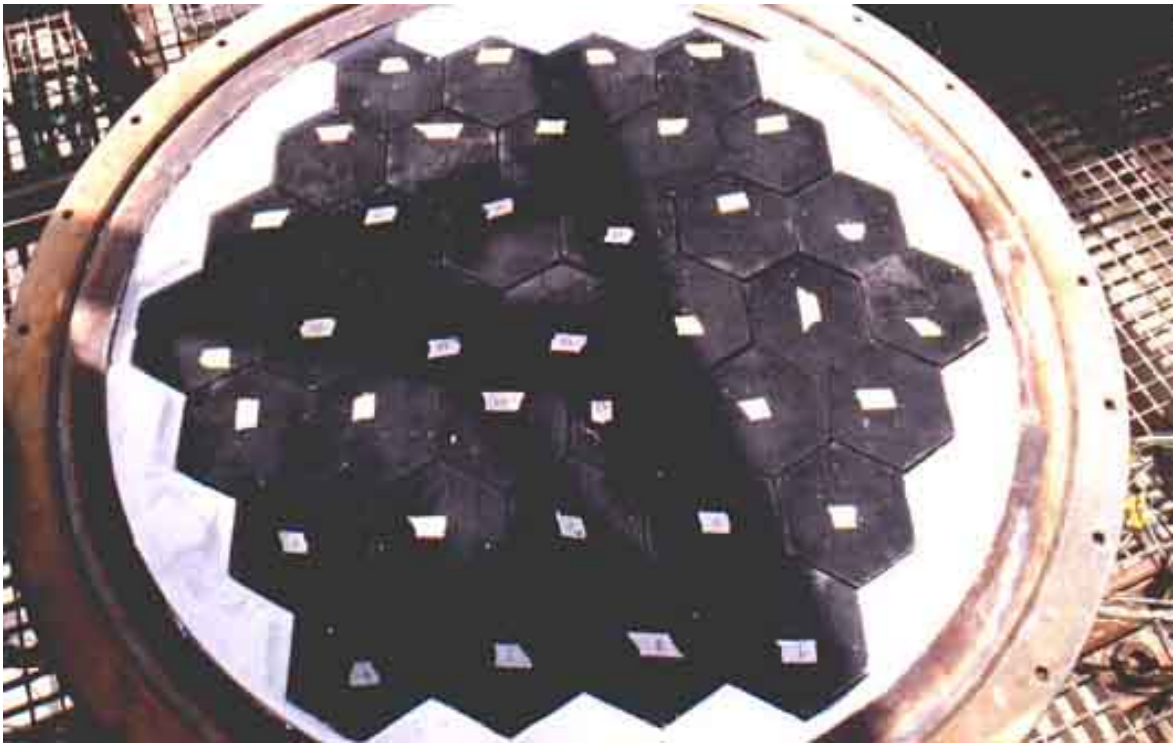
Year 2005



The CESA-2 steel tower itself is 42 meter high and accessible through an outside elevator system. The tower was constructed very light.



The Sulzer testbed originally designed for ... We see here only the half rear section with the speed controlled blower.



HitRec1 prior to mounting 1998 where the re-circulation of the air medium is increased to 85% with the new design. Maximum irradiance effect was 0.3 MW which gives a total efficiency of 68%. Mass flow through the receiver at 960°C is between 0.2-0.6 kg/sec.



HitRec 1 in 1998 with white Alumina fiber insulation surrounds the hexagonal ceramic modules inside a mounting flange. Combined weight for the 37 ceramic modules is less than 50 kg. Coupled to a computer in the control room, more than 60 NiCrNi thermocouples gather data to evaluate the output.



HitRec2 close up fall 2000 on the tower with the 36 VR units being encapsulated in alumina insulation boards



HitRec2 being tested April 2001 with air return piping



The rectangular shaped HitRec2 system tested fall 2000 with no air-return system



SolAir200 being tested