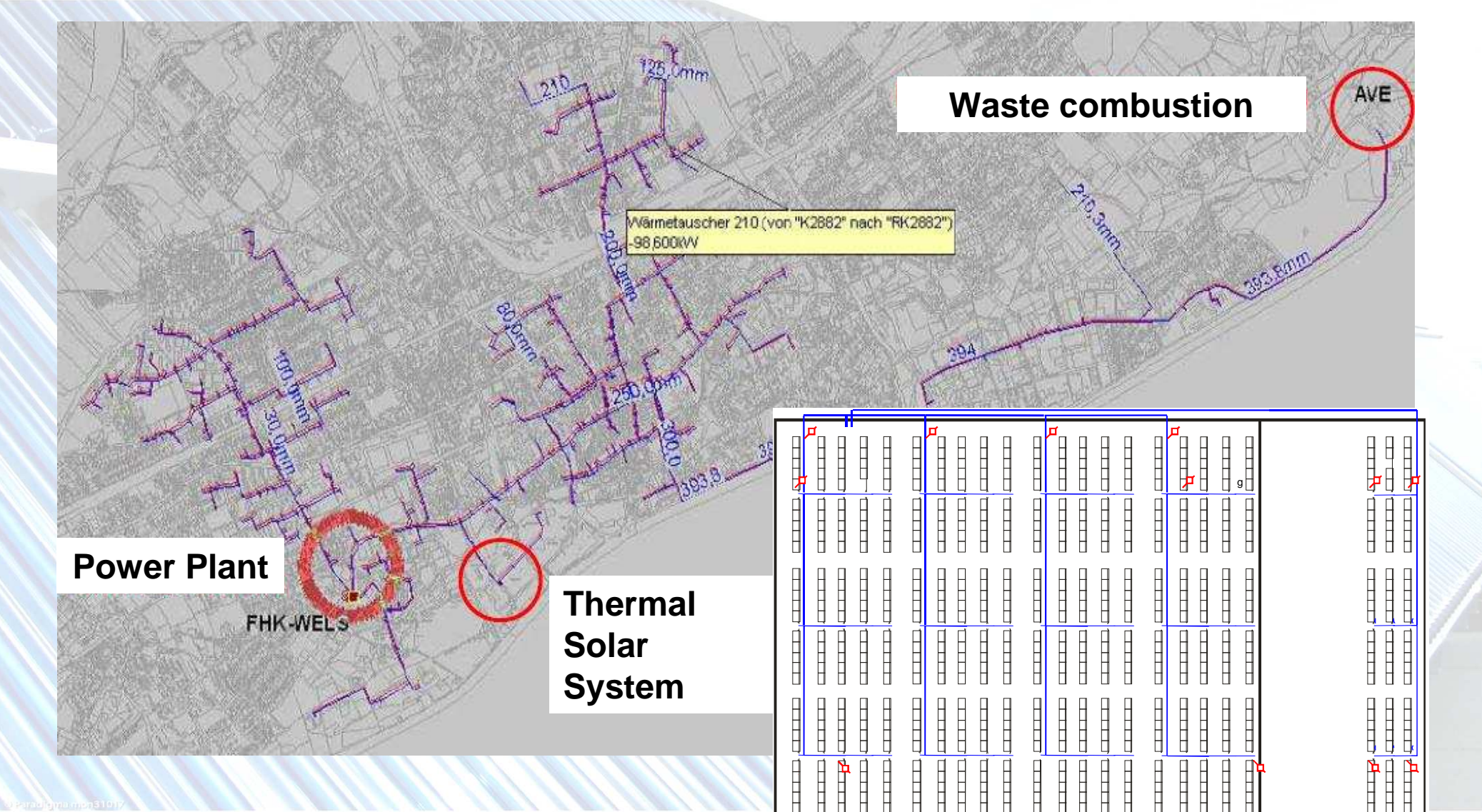


# Trading Centre Wels, Austria





# Domestic Heating Network in Wels





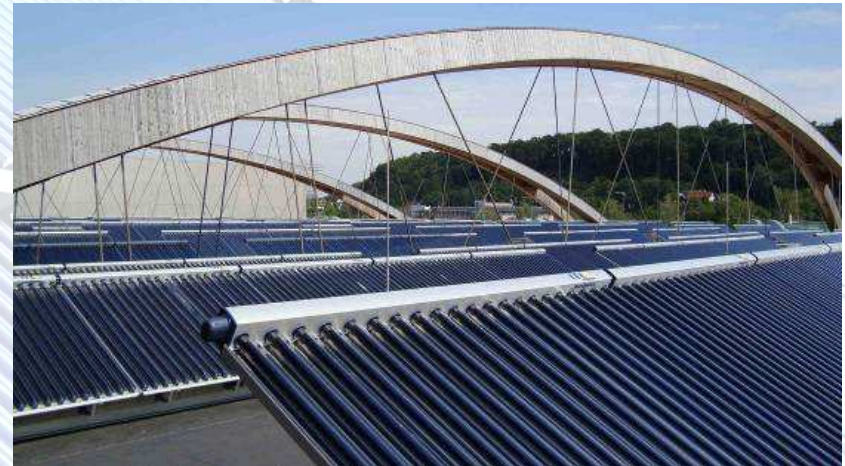
# Trading Centre Wels, Austria



**Largest pressurized ETC, first DHN application with DHN-water in the collectors,  
Status: finished in May 2011**

## **District heating provision**

temperatures	85...100 °C	(185-212 °F)
water volume	ca. 12 m <sup>3</sup>	(3.200 Gal.)
gross collector area	3388 m <sup>2</sup>	(40.743 ft <sup>2</sup> )
peak power	2,8 MW	(9.560 MBH)
max. constant power	1,8 MW	(6.150 MBH)
energy yield	1.300 MWh/a	(44.358 therms)
electric power	6 MWh/a	
(+ 24 MWh for net feeding pumps up to 9 bar (130,5 PSI) that, however, will be avoided in the DHN station)		
solar fraction in winter	<2 %	
in summer up to	50 %	



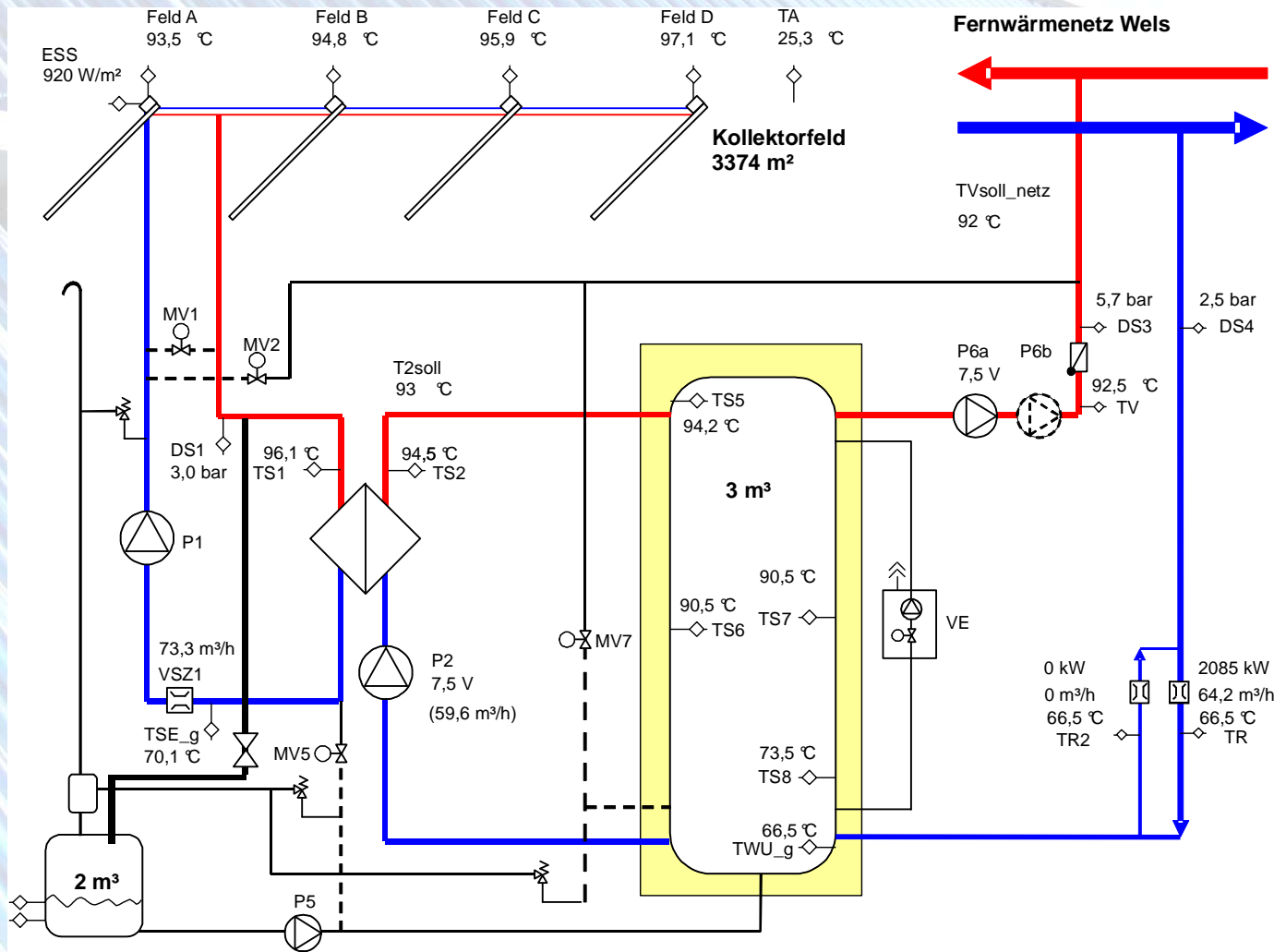
  
**E-Werk Wels**

  
**mea solar**  
Ein Unternehmen der Elektrizitätswerk Wels AG

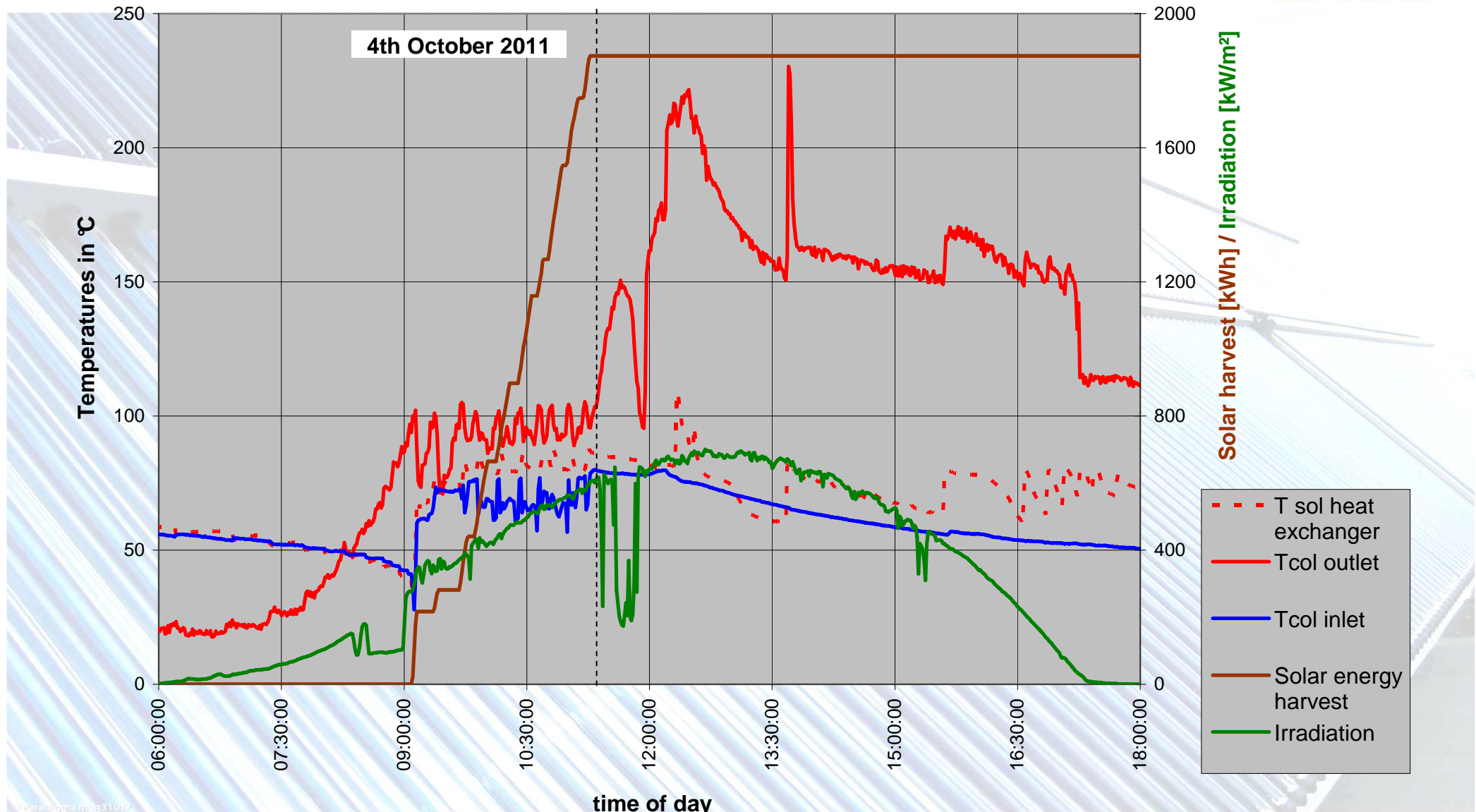
  
**AS/C**  
Austria Solar Innovation Center



# Trading Centre Wels, Austria

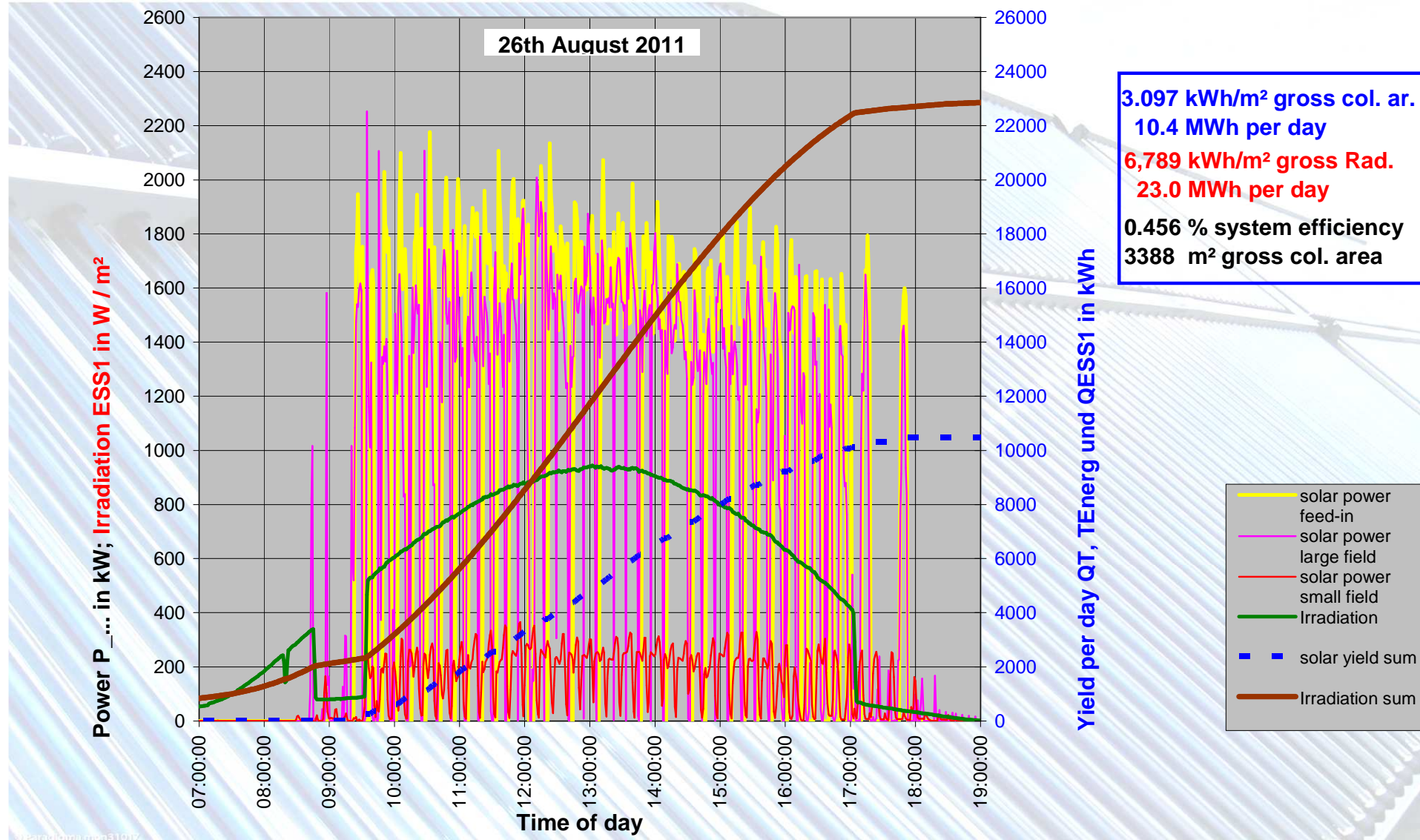


# One day with thermal stagnation

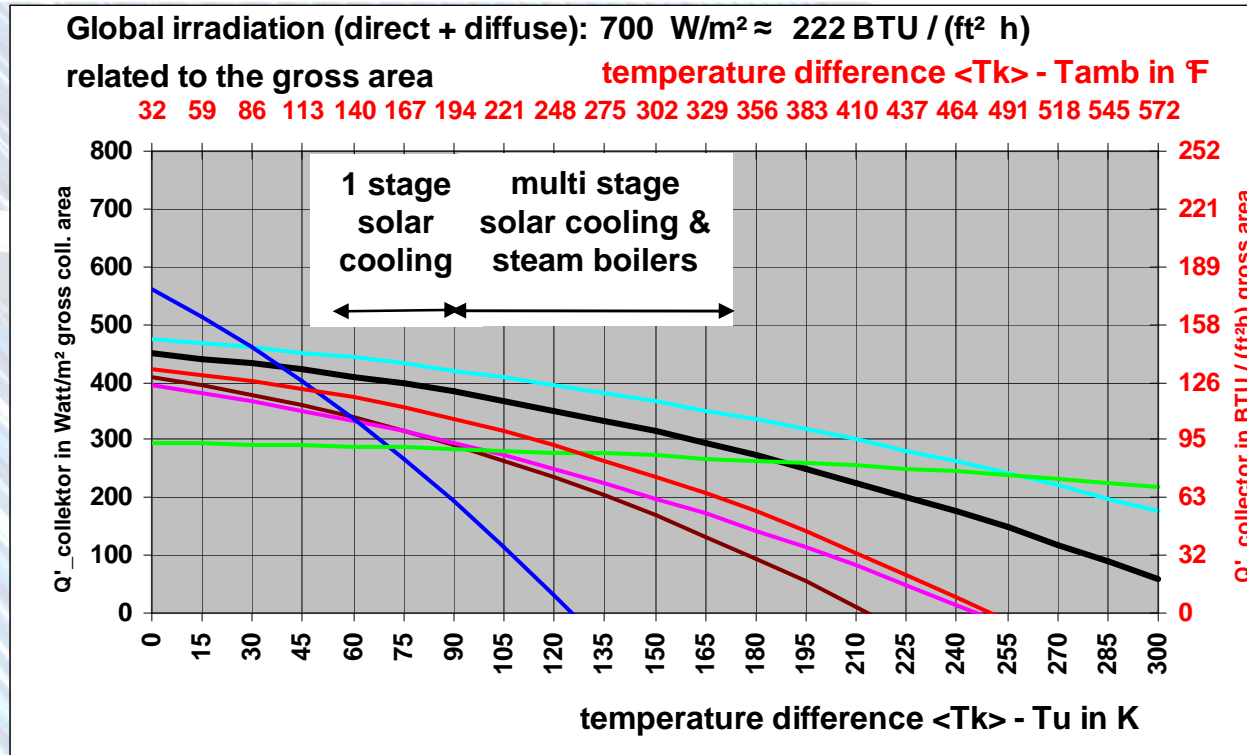




# One day of solar harvest in Wels



# Thermal Collector Comparison



solar cooling  
 and heating  
 Istanbul, Turkey  
 $1031 \text{ m}^2$ ,  $15 \text{ m}^3$

- CPC-VTC pressurized collectors Standard 1999 – 2012
- CPC-VTC open loop collector (quite cheap, in Europe not yet available)
- CPC-VTC titanium absorber, Standard 2012
- CPC-VTC High End, available maybe 2014/15
- VTC with Heatpipes
- FPC with selective absorber (e. g. Heliodyne)
- Concentrating tracked Fresnel Mirror Collector or parabolic trough



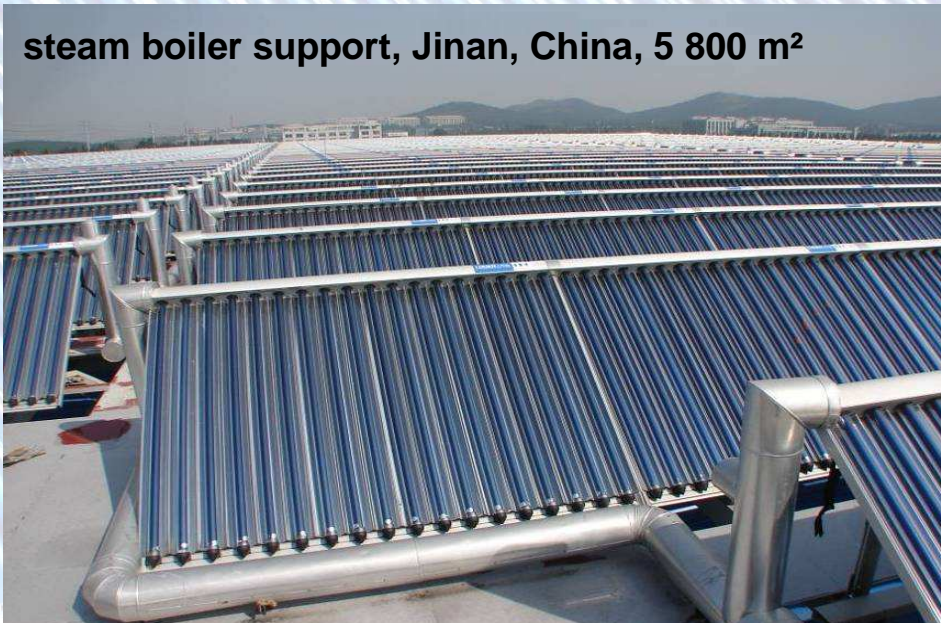
# XL Installations in Asia



**CPC VTC test center Tokyo Nakahara, 400 m<sup>2</sup>**



**steam boiler support, Jinan, China, 5 800 m<sup>2</sup>**



**swimming stadium, Jinan, China, ca. 800 m<sup>2</sup>**

