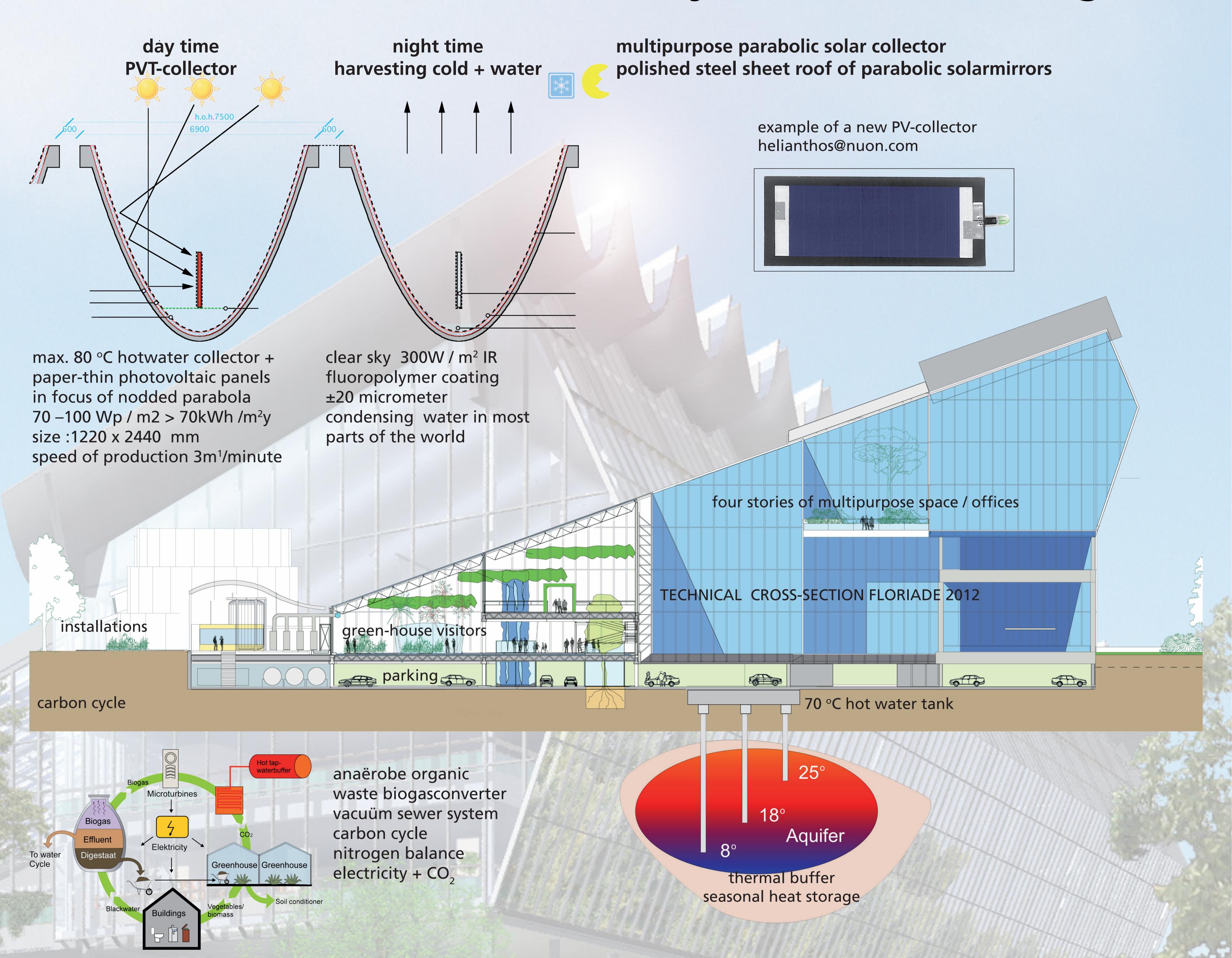
## THE GREENEST BUILDING IN THE NETHERLANDS

integrated design Floriade 2012, international horticulture exposition at Venlo

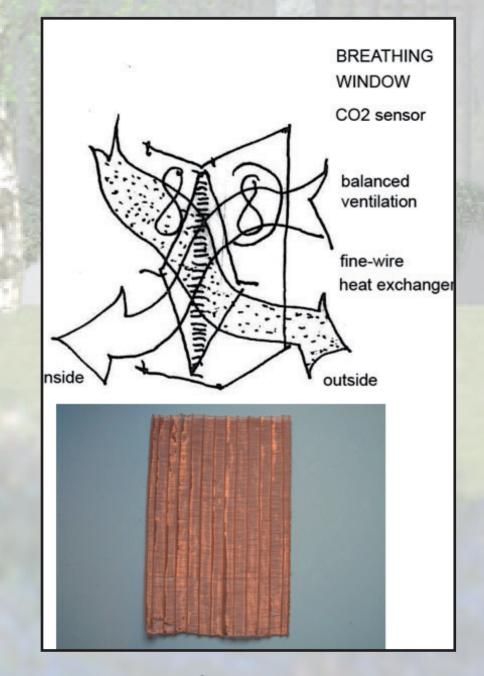
# no external fuel, electricity, water or sewage



#### new fine wire heat exchangers, use of very-low temperature

Energy Producing Greenhouses water / air heat exchangers very low temperature heating 25°C very high temperature cooling 15°C fine-wire exchanger is 7x more effective than traditional ones info@fiwihex-international.com

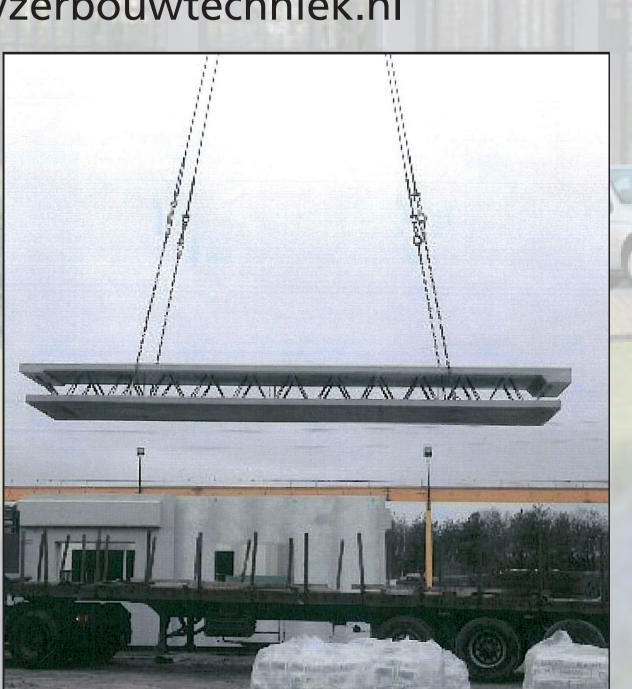
BreathingWindow.com
air / air heat exchanger 85% h-r.
decentral, balanced room-ventilation
CO2-detaching, intelligent display
compact 7.5 km, 1/10mm, 500 g
copperwire air guides, two 4W fans.
ontwerpadvies@brinkclimatesystems.nl



twinning of 1/10 mm copperwire

## new light-weight concrete large span double floor

Two 100mm thick upper and under concrete slabs connected by special structure of reinforcement. The firesafe cavity in the floor is accessible. The use of the building is flexible forever and also detachable. keyzerbouwtechniek.nl



20m¹ span, 0.7m thick concrecte double floor

## self-sufficiency of general utilities



#### conclusion

On the scale of a 8ha green-house area and a living quarter of at least 250 householdings an ecologically self-supporting community seems to be already realistic.

weaving of 2mm copperpipes 1 / 10 mm tinned copperwire

author: jon kristinsson, kristinsson architectural engineers, noordenbergsingel 10, 7411se, deventer, the netherlands, j.kristinsson@kristinsson.nl principals: InnovationNetwork and SIGN, www.innovatienetwerk.org/en/, p.t.oei@innonet.agro.nl