Hugo Jansen
Future for Energy Costs Zero?
Energy Costs Zero, how?

+ Insulation
+ Ventilation
+ Air to Water Heatpump
+ Solar panels
Why Air to Water Heatpump?

400 % efficiency
Why Air to Water Heatpump?

Cylinderunit

Evaporator

Existing radiators

Domestic Hot Water
Why Air to Water Heatpump?

+ Air source heat pumps are fit for the typical Dutch Climate
References

+ Soesterberg project
Industrial pre fabrication makes it possible to build a house in one day without construction failures often seen in the traditional building process.
The heat pump unit is also completely mounted at the factory and pre-designed together with the building company.
Renovation project of Energy Costs Zero
Heat pump module as standardized concept pre fabricated by manufacturer
Stroomversnelling (renovatie Van Wijnen)
Overcharged network

The grid may not be capable of accepting high loads of electricity demand in peak periods for heating.
Energy storage
Smart Grid?
Smart Grid Ready
Multy buildings are a real challenge. Example of a solution.
References

Standardized concepts and solutions
Integration in facade
Integration in facade
The overall solution is a combination of developments available now!
BEDANKT VOOR UW AANDACHT

Maak de volgende stap in klimaatbeleving