

Towards a carbon-free urban energysystem in 2050



TU Delft's urban energy research agenda

Challenges ahead and expertise
available at TU Delft

Kornelis Blok, Symposium Urban Energy Innovation, 30 mei 2018

Six Themes & Six Challenges

Buildings

Neighbourhood

District

City

Theme 1: Towards zero-energy buildings & beyond

Theme 2: Fast transition of the existing building stock

Theme 3: Thermal urban energy systems

Theme 4: Solar Urban

Theme 5: Smart monitoring, management & control

“Robust, integrated local energy transition plans”

“Future-proof buildings & neighborhoods”

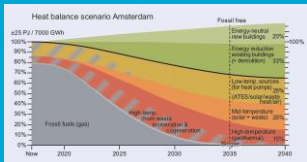
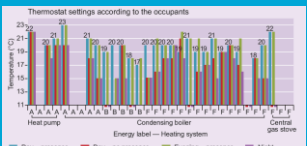
“Delivering 200,000 high-performance renovations per year”

“Deliver heat, in the right place, at the right time and at the right temperature”

“Utilisation of solar energy everywhere”

“Give brains to urban energy systems”

Theme 6: Transforming the cities



Our scope: Bringing knowledge to broad application

