



Federal Ministry
for Economic Affairs
and Energy



**MITTELSTAND
GLOBAL**
ENERGY SOLUTIONS
MADE IN GERMANY

HIGHLY ENERGY EFFICIENT BUILDINGS

Current Techniques and Products

20.10.2020, Lisbon

DR. DANIEL SCHERZ
Speaking about Sustainability



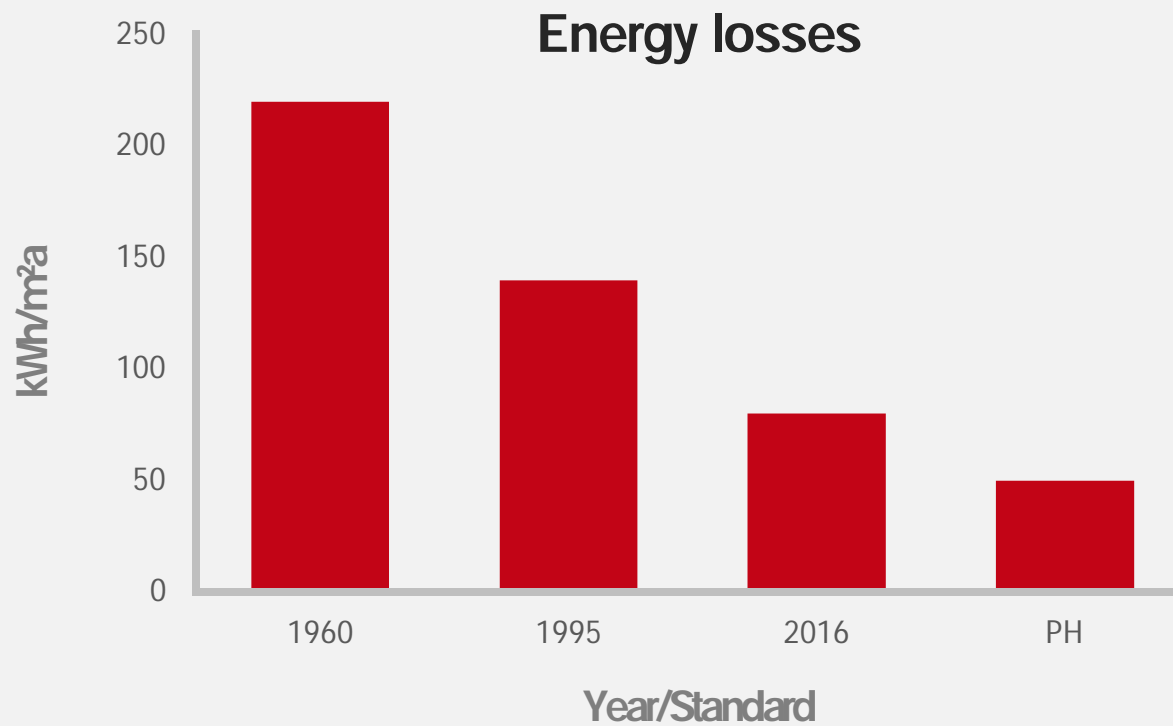
Facilitator

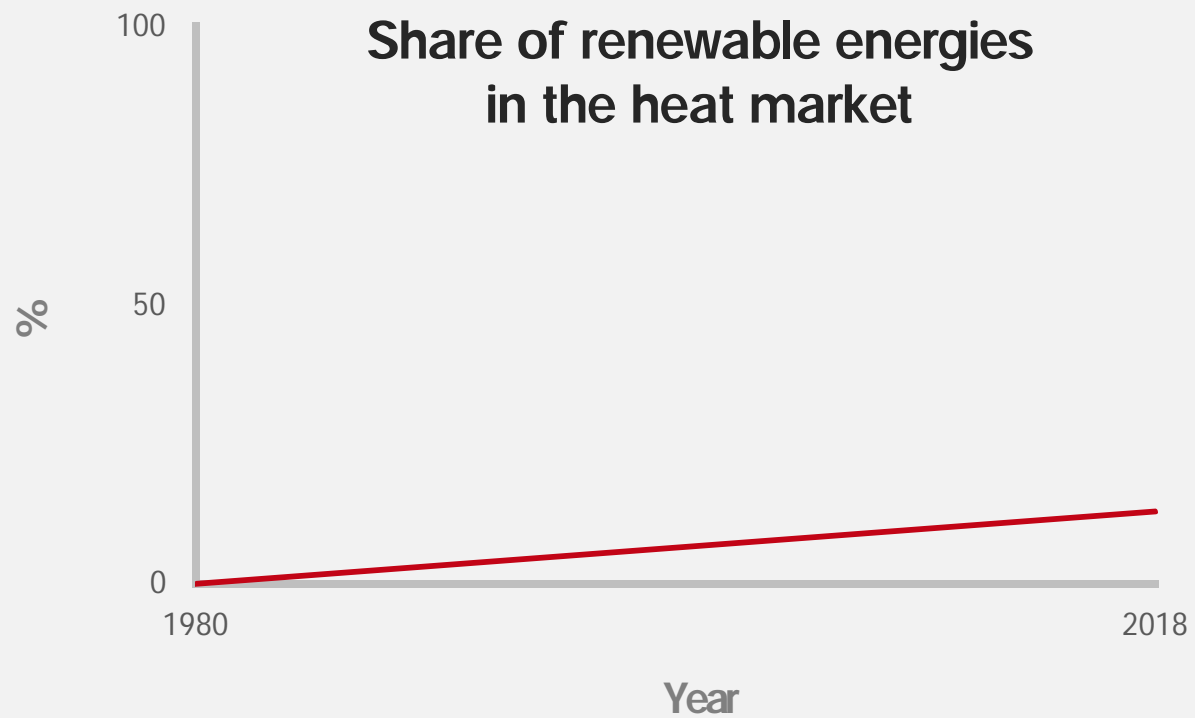


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WHAT

makes a building energy efficient ?





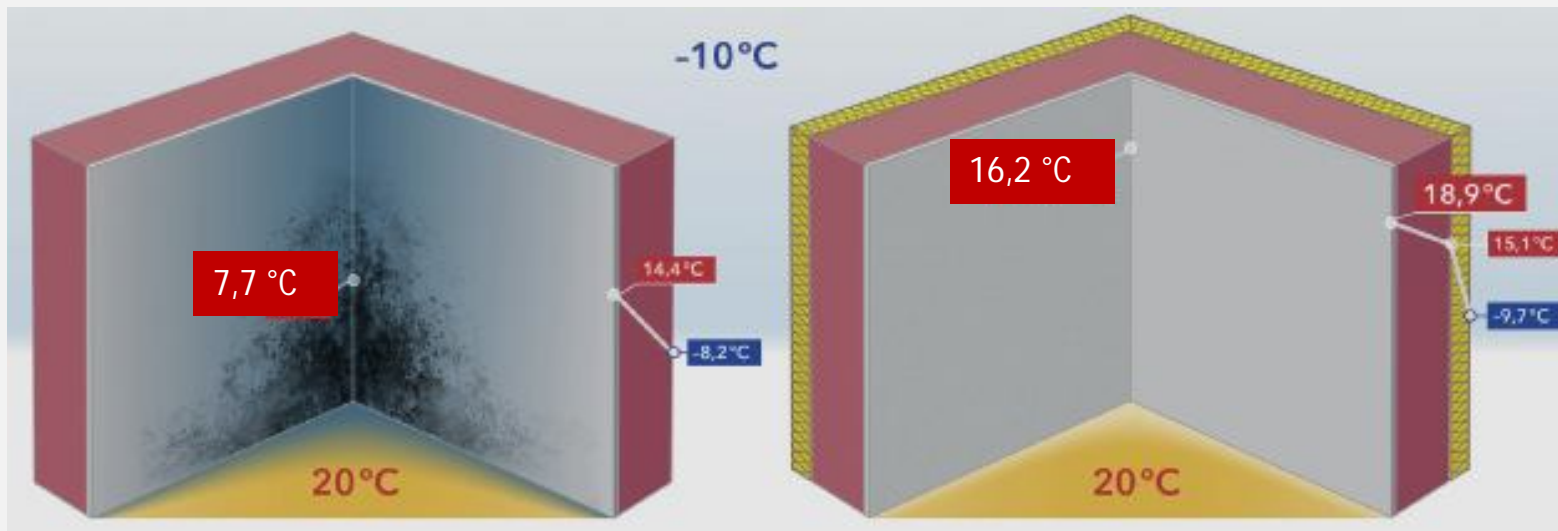
Insulation capacity



Source: Homatherm / Knauf / InnoDämm / NASA / Va-Q-Tec

cold radiation

warm surface



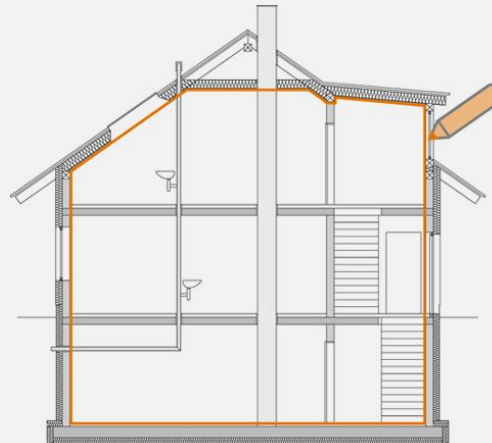
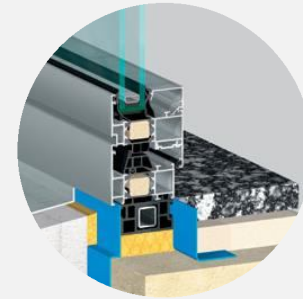
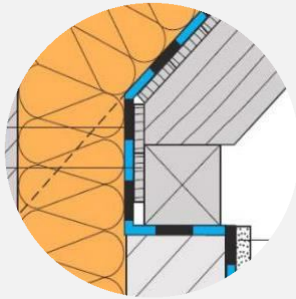
+ 1°C air temperature = + 5 % heating energy

Source: Energieverbraucher

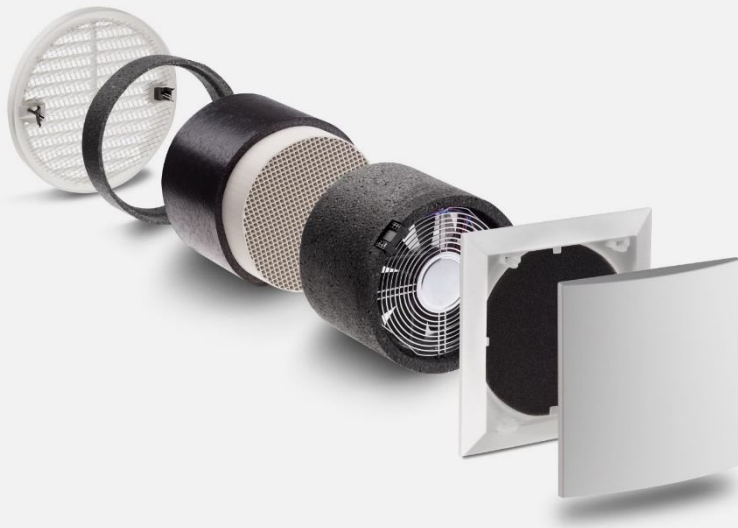




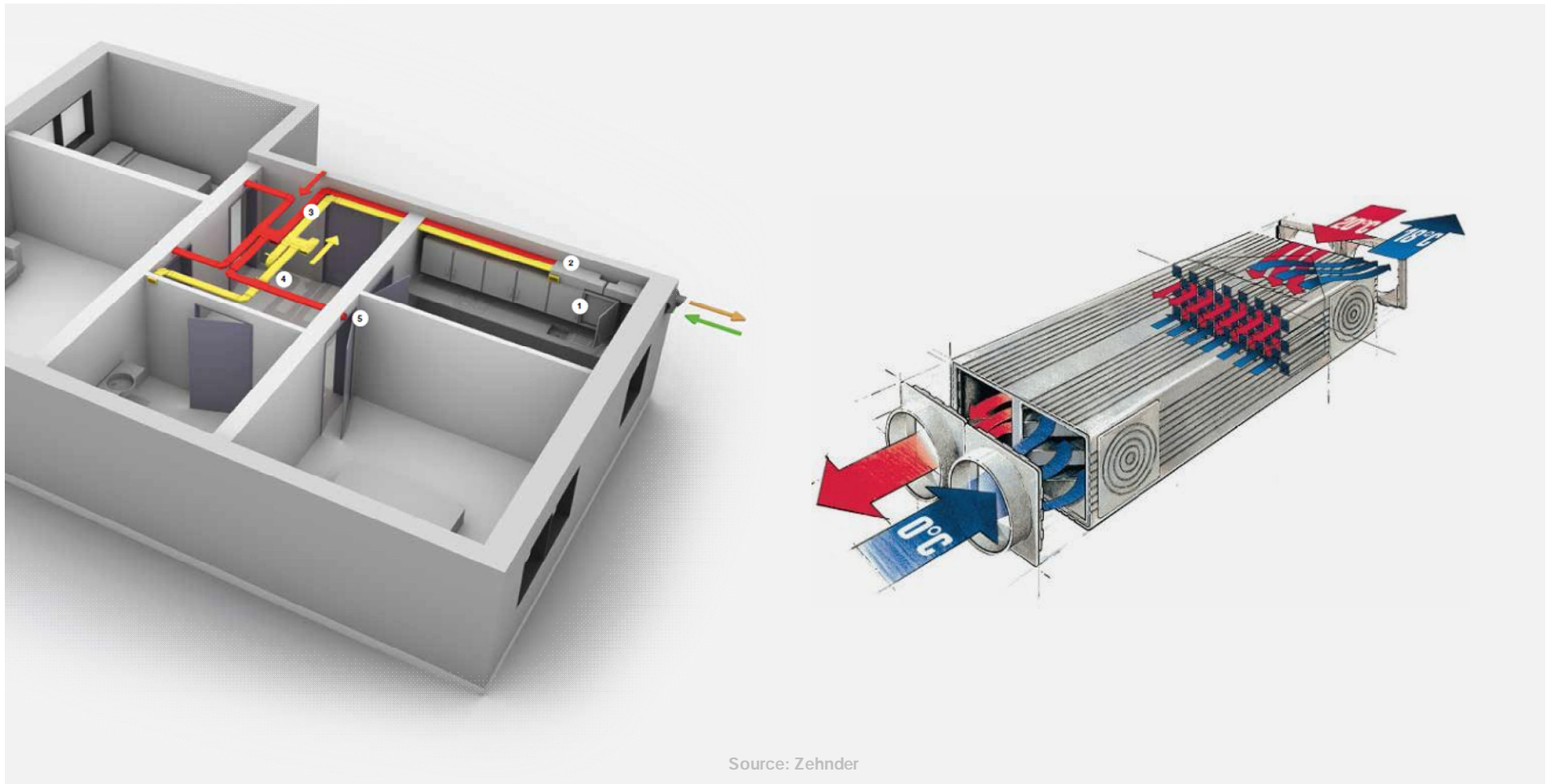
Source: Schreinerei Koch



Source: Luftdicht.de, FLiB e.V., PH Roenn, Schüco, Passivhaus-2001

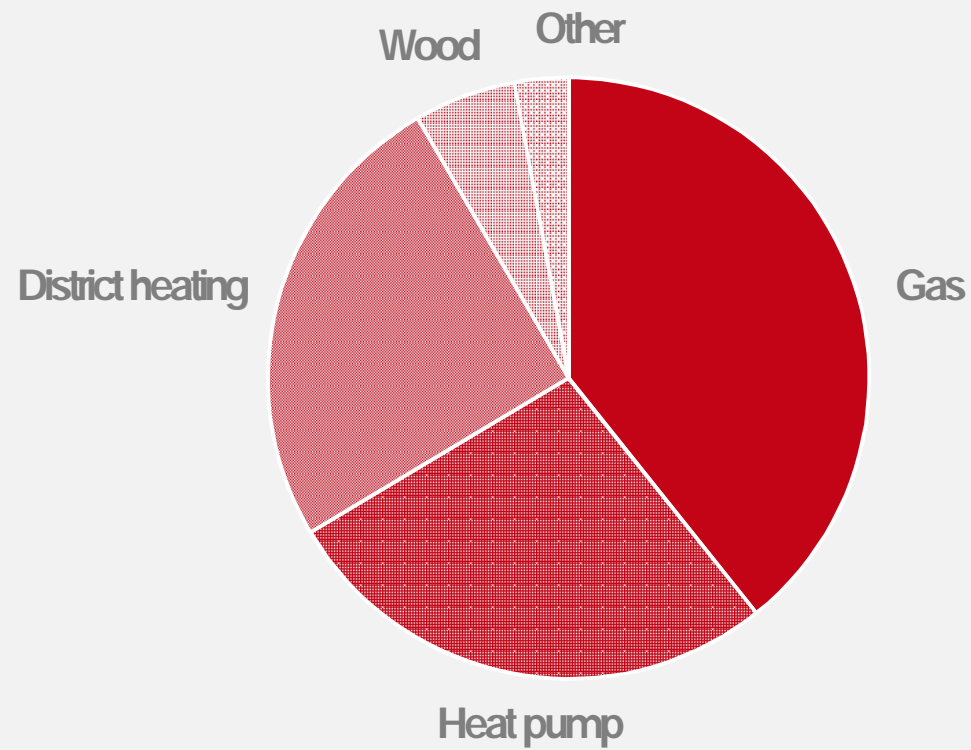


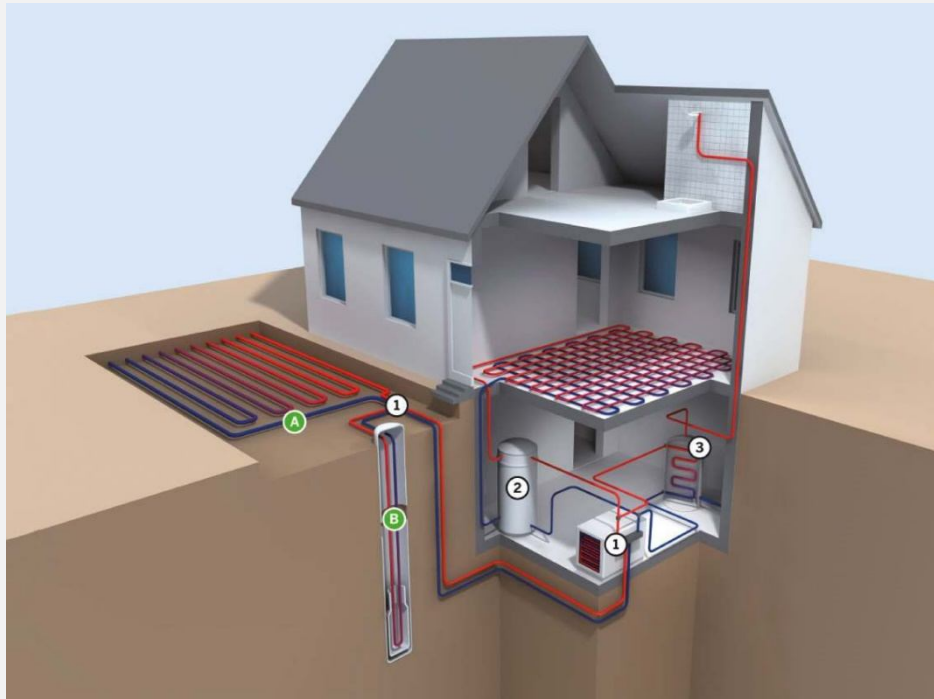
Source: Lunos



Source: Zehnder

Distribution of heating systems in new buildings



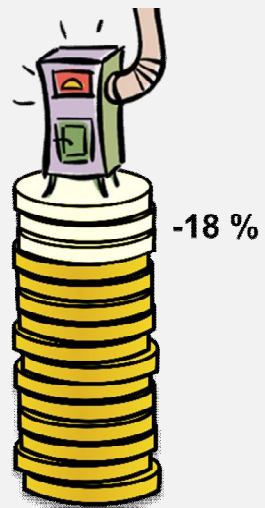


Source: Energieagentur NRW



Source: Junckers





Data source: +EINS, HS München, TU Dresden



WHY

do companies invest in this sector ?



Source: Igors Jefimovs

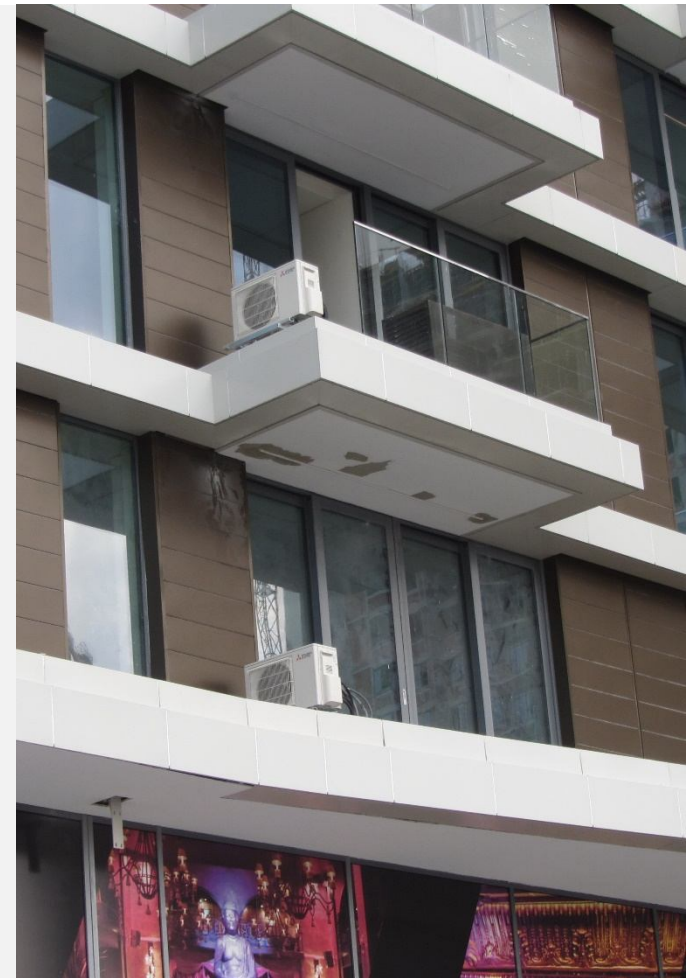


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Better comfort

Higher quality

Lower costs





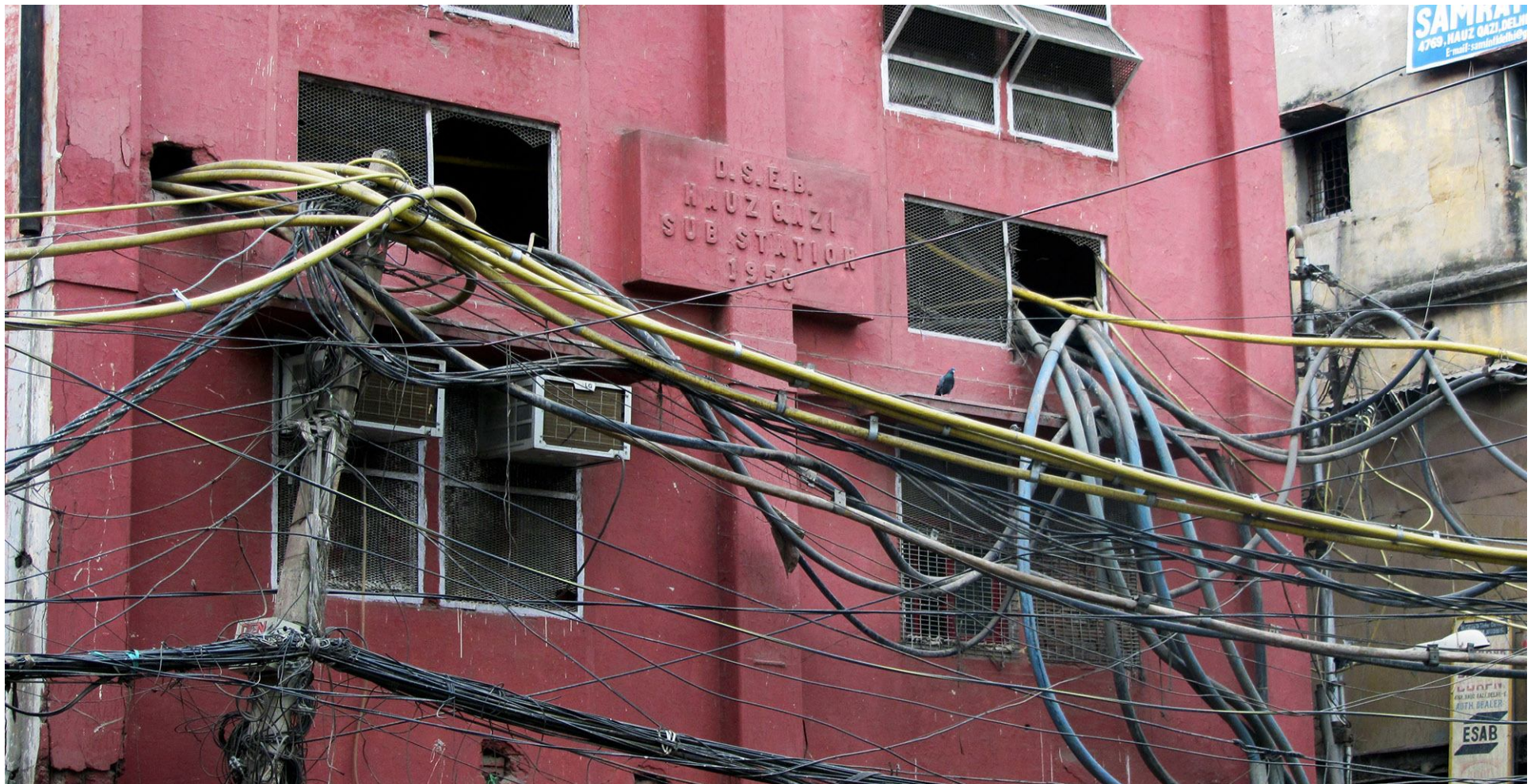
Source: Tesla



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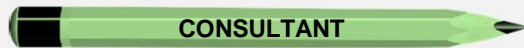
HOW

can we make sure that energy efficient buildings work ?





+



KFW



Source: Rolls-Royce



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Facilitator



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