Heat pumps in Europe as easy as 1-2-3

1. Heating

1. In cold

1. Residential

2. Cooling

2. average

2. Commercial

Hot water

3. warm climates

Industrial applications

2017

1. 1.1 mill. units sold (+13%)

2. Stock: 10.6 mill units

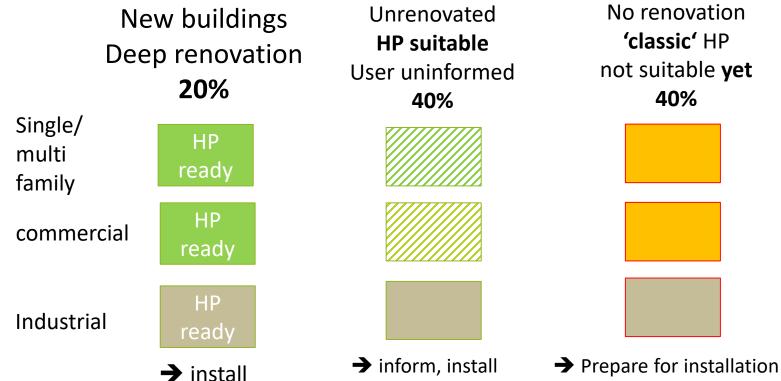
HybridHP?

gasHP?

3. HP share 8% of all boilers



Heat-pump readiness per market segment





Under development

- Large/industrial heat pumps: 160°C 200°C, 3 15 MW
- Standard solutions for the renovation sector
- Basic efficiency (3,5 4) low cost
- Sound emission updates: Design / Control
- Heat pumps for smart buildings/Smart grids



A decarbonised building stock – a question of faith? "religion" of green molecules "religion" of renewable electrons

"We can't electrify everything. It will be too costly and the gas infrastructure is there anyway. So we need to green the gas energy carrier"

- High upstream investment
- End-user tech often identical
- Low hanging fruit: boiler replacement



"Gasification cannot be sustainable and electrification will happen anyhow. So we need to quickly switch to already existing RES-E systems"

- High downstream investment
- Need to educate end-user
- Low hanging fruit: deploy HPwhere possible

United in the faith of a decarbonised building stock? Common "Saints": Efficiency? Smartness?

--> New "Heating and cooling package"



Future cities (including their industrial areas) can be heat pump cities



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