Interreg CENTRAL EUROPE
European Union
European Regional Development Fund

REEF 2W

INCREASED RENEWABLE ENERGY AND ENERGY EFFICIENCY BY INTEGRATING, COMBINING URBAN WASTEWATER AND WASTE MANAGEMENT SYSTEM

TAKING COOPERATION FORWARD

REEF 2W Final Conference

REEF 2W application - case study Austria

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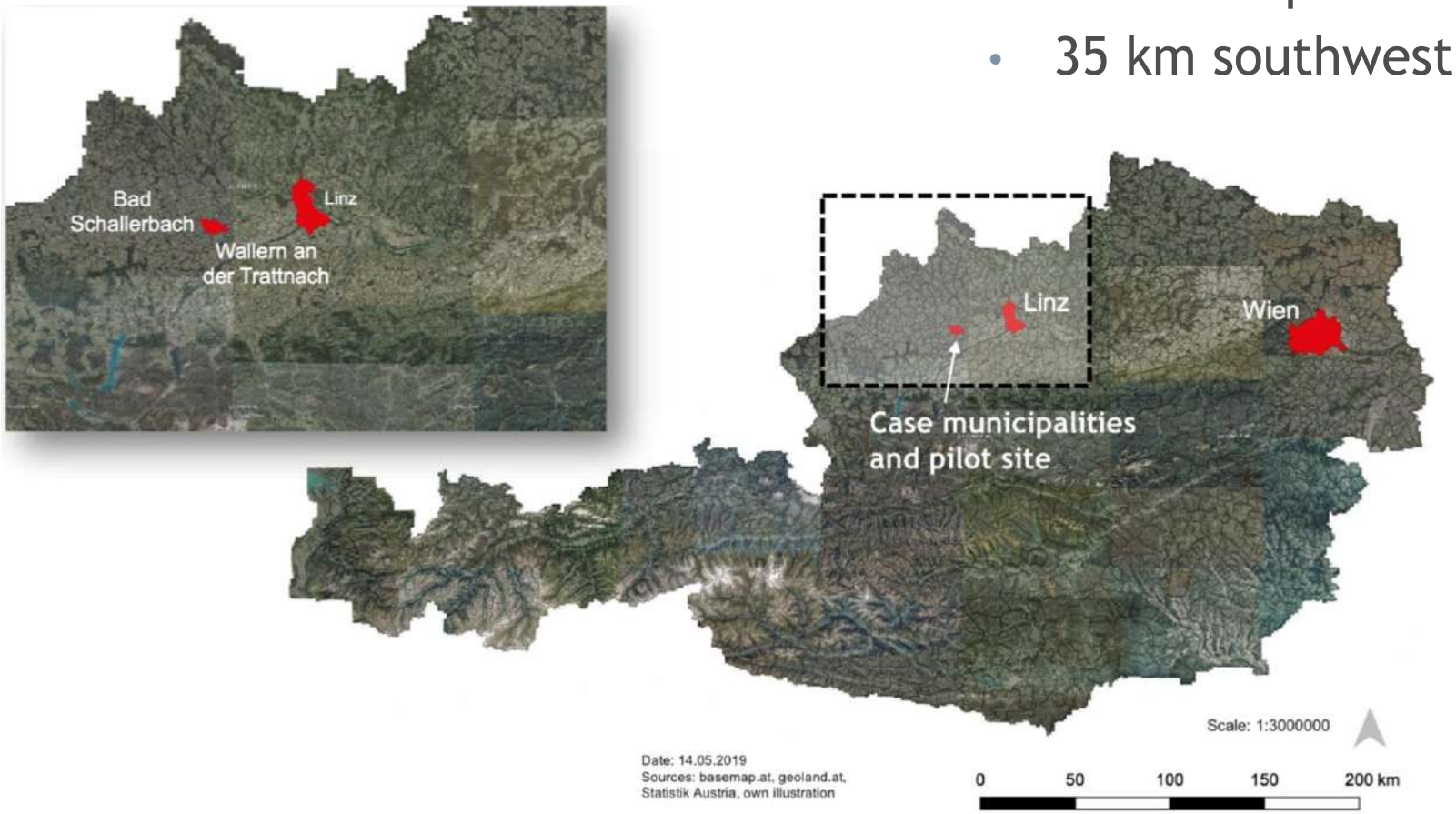
CASE STUDY AUSTRIA

The RHV Trattnachtal

- 13 municipalities
- 35 km southwest of Linz

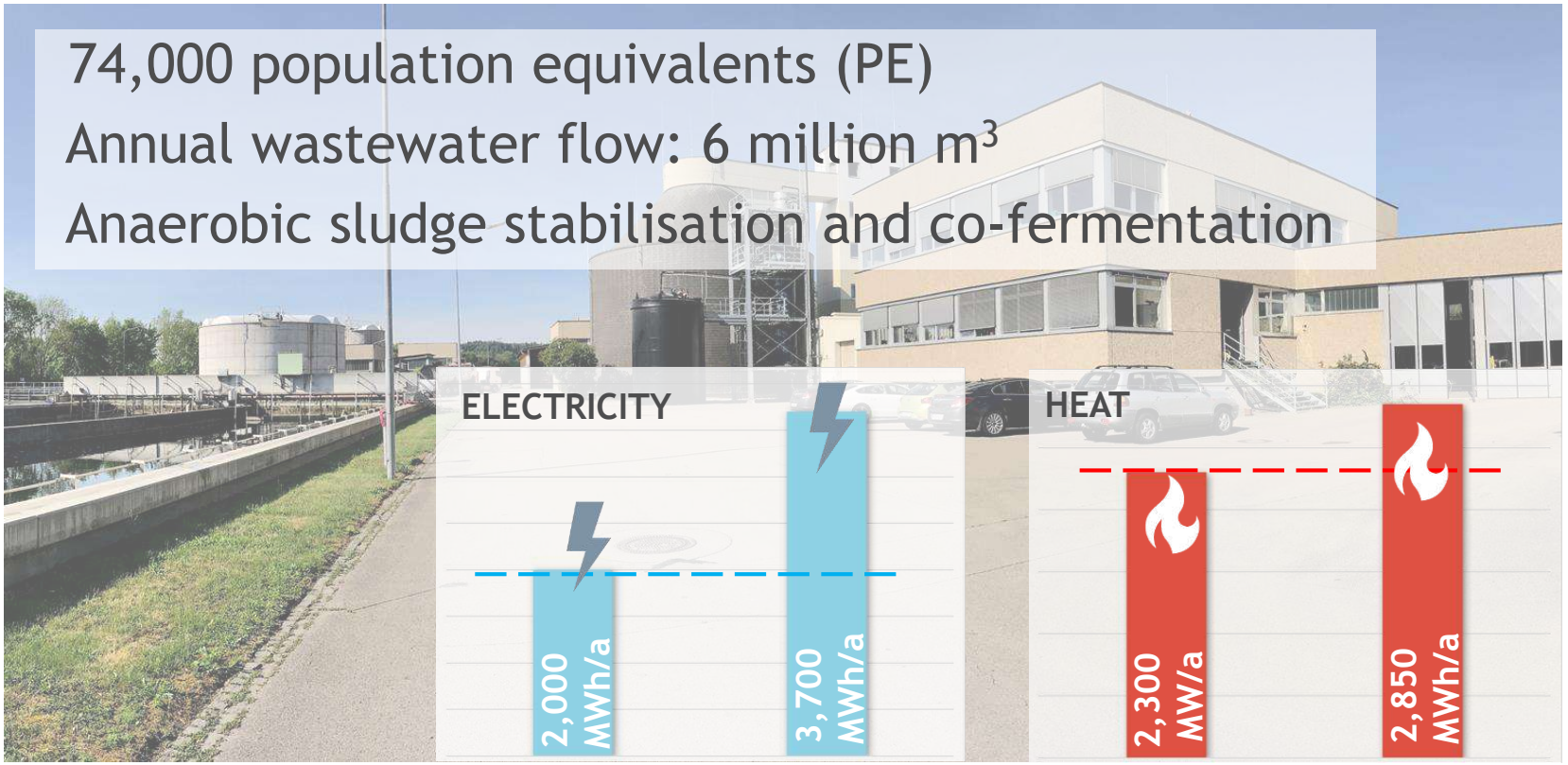


The Wastewater Treatment Plant

74,000 population equivalents (PE)

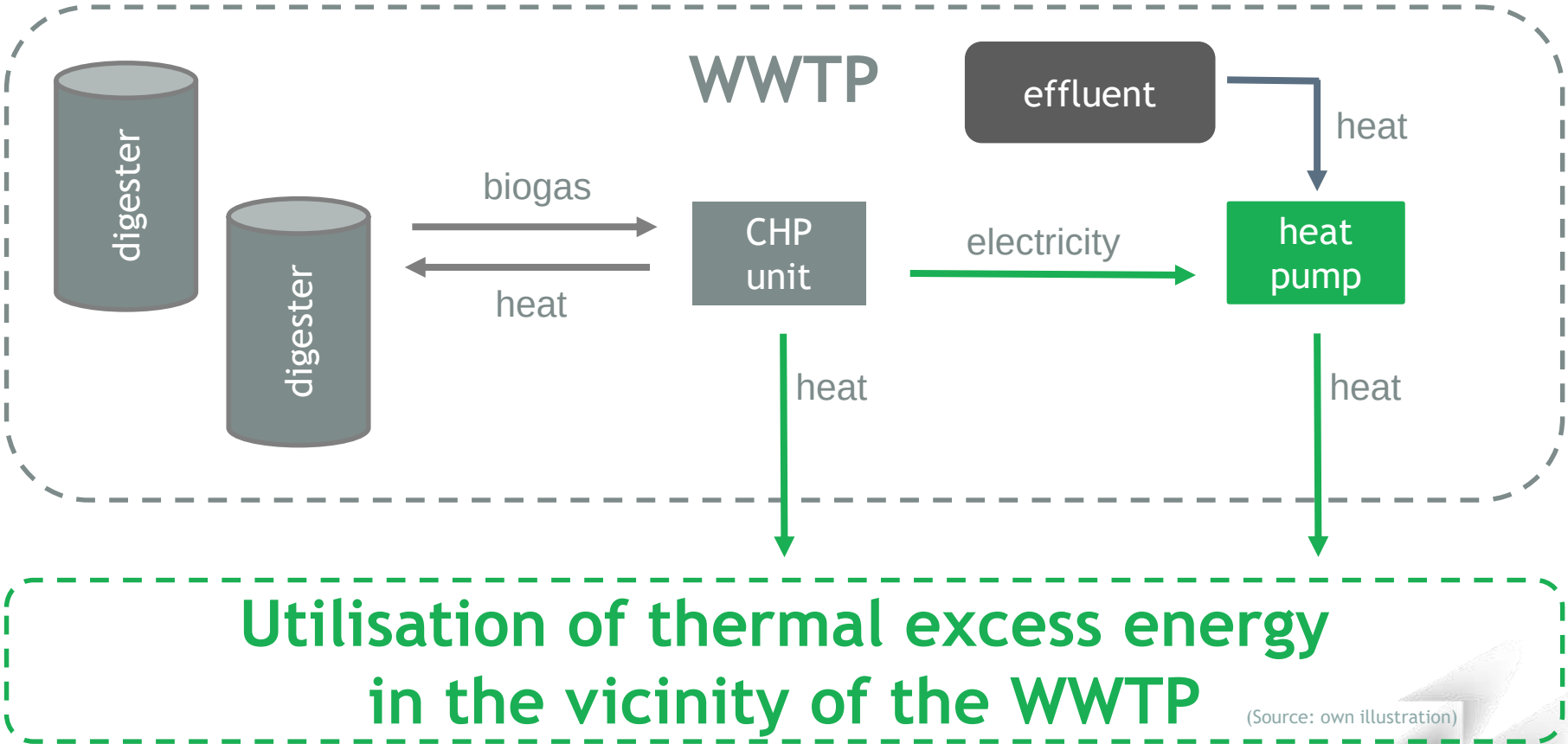
Annual wastewater flow: 6 million m^3

Anaerobic sludge stabilisation and co-fermentation



Picture: Peter Lichtenwöhrer

REEF2W Approach



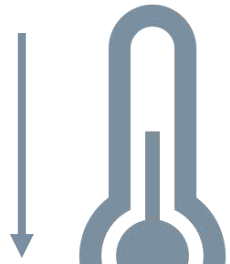
(Source: own illustration)

CASE STUDY AUSTRIA

Wastewater heat recovery potential

6 mio m^3 wastewater
(average 190 l/s)

14,3 °C



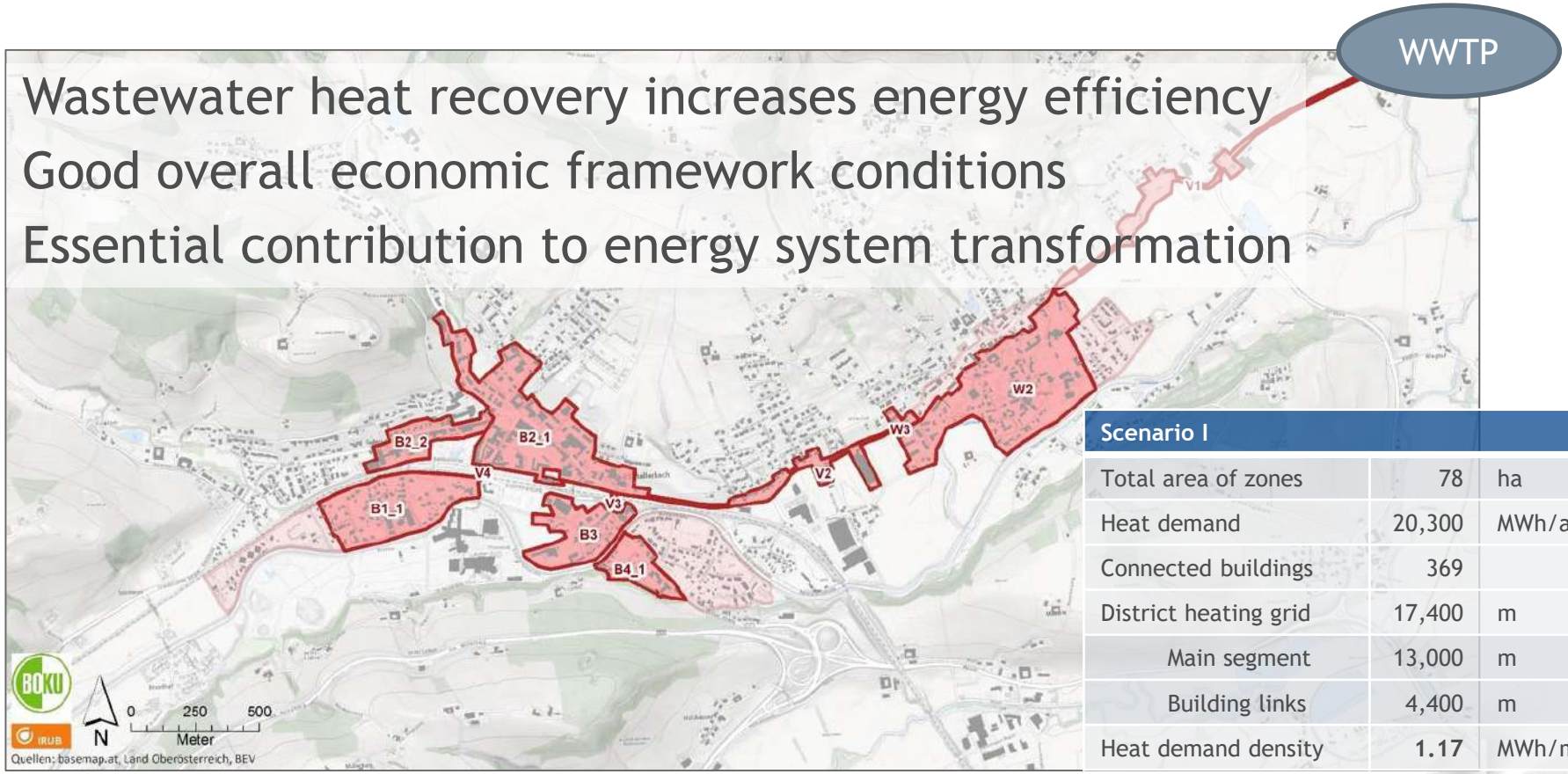
12,3 °C

14,000 MWh/a
(heat extracted from wastewater)

4,600 MWh/a (needed electricity)

18,600 MWh/a
(total heat potential)

Utilisation of excess heat in the vicinity of the WWTP



Scenario I		
Total area of zones	78	ha
Heat demand	20,300	MWh/a
Connected buildings	369	
District heating grid	17,400	m
Main segment	13,000	m
Building links	4,400	m
Heat demand density	**1.17**	MWh/m.a

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