



Country fact sheet: Key tool parameters – Poland

When considering an energy efficiency retrofit within your national housing market, a wide plethora of consideration needs to be made. Below, we list the key parameters that will later be used and combined within the RentalCal tool to facilitate your analysis of this retrofit investment. More details and backgrounds on these parameters can be found in the corresponding deliverables as indicated in the first and last column of this table.

Deliver	Parameter	Default Value	From Fact sheet / Source
D2.1	Building types	SFH/TH/MFH/AB	D2.1 Country section: Fact sheet on the national (rental) housing stock (Poland)
			TABULA 2012, EPISCOPE update 2016
D2.1	Predominant heating systems	SFH/TH Local boilers (90%)	D2.1 Country section : Fact sheets on national technical framework conditions (Poland)
		MFH/AB District heating	National Census 2002, 2011, TABULA project
D2.1	Predominant energy carrier	SFH/TH Coal (70%), gas (15%), biomass (14%)	D2.1 Country section : Fact sheets on national technical framework conditions (Poland)
		MFH/AB Coal	National Census 2002, 2011, TABULA project
D2.2	Energy consumption before refurbishment	SFH/TH: - 138/280	D2.2 Table 5: Cross country comparison on results of the energy balance calculations according to TABULA, page 27
		MFH/AB: - 105/220	TABULA 2012, EPISCOPE update 2016
D2.2	Energy consumption after refurbishment	Standard package: SFH/TH: - 98-159 MFH/AB: - 95-145	D2.2 Table 5: Cross country comparison on results of the energy balance calculations according to TABULA, page 27
		Advanced package: SFH/TH: - 83-112 MFH/AB: - 72/144	TABULA 2012, EPISCOPE update 2016
D2.2	Investment costs (ranges; without VAT)	Standard package: SFH/TH: - 131/503€/m ² MFH/AB: - 83-189€/m ²	D 2.2 Table 3: Cross country comparison on calculation results for costs of system and building packages, page 25
		Advanced package: SFH/TH: - 254-548€/m ² MFH/AB: - 127-260€/m ²	-----
D2.3	Energy balance calculation method	Energy performance calculation method as defined by the Ordinance on the methodology of calculating buildings energy performance (DzU 2014)	D2.3 Country section : Fact sheet on nationally used energy performance calculation methods Poland
		Energy performance calculation method as defined by the Ordinance on the methodology of calculating buildings energy performance (DzU 2014)	-----



D2.3	Non-renewable primary energy factors	Heating Oil 1,1 kWh/kWh Natural Gas 1,1 kWh/kWh LPG 1,1 kWh/kWh Hard Coal 1,1 kWh/kWh Lignite 1,1 kWh/kWh Heat from cogeneration - coal or gas 0,8 kWh/kWh Heat from cogeneration - biomass, biogas 0,15 kWh/kWh Heat from heat only boilers-coal 1,3 kWh/kWh Heat from heat only boilers - gas or oil 1,2 kWh/kWh Electricity 3,0 kWh/kWh Local RES (solar, wind, geothermal energy) 0 Local RES – biomass 0,2 kWh/kWh Local RES – biogas 0,5 kWh/kWh	D2.3 Country section : Fact sheet on national primary energy and emission factors Poland
			Ordinance on the methodology of energy performance calculation for whole building, separate apartments or building parts constituting separate technical/functional areas, along with the scope of template for the energy performance certificates
D2.3	CO2 emission factors	Heating Oil 275 g/Kwh Natural Gas 277 g/Kwh LPG 225 g/Kwh Hard Coal 337 g/Kwh Lignite 394 g/Kwh Heat from cogeneration - coal or gas 342 g/Kwh Heat from cogeneration - biomass, biogas N/A Heat from heat only boilers-coal 342 g/Kwh Heat from heat only boilers - gas or oil 275 g/Kwh Electricity 617 g/Kwh Local RES (solar, wind, geothermal energy) N/A Local RES – biomass N/A Local RES – biogas N/A	D2.3 Country section : Fact sheet on national primary energy and emission factors Poland
			(KOBIZE 2015)
D3.1	Rent Increase Method 1	Annual rent increase should not exceed the limit of 3% of the replacement value of the property	D3.1 Country section : Fact Sheets regarding rent regulations Poland
			Uool 2016
D3.1	Rent Increase Method 2	N/A	D3.1 Country section : Fact Sheets regarding rent regulations Poland

D3.1	Rent Increase Method 3	N/A	D3.1 Country section : Fact Sheets regarding rent regulations Poland

D4.1	Depreciation system	linear	D4.1 Country section : Fact sheet – relevant decision making parameters (part 1) Poland
			Tax Law
D4.1	Depreciation rate	2,5%-10%	D4.1 Country section : Fact sheet – relevant decision making parameters (part 1) Poland



			Tax Law
D4.1	Marginal tax rate	19%	D4.1 Country section : Fact sheet – relevant decision making parameters (part 1) Poland
			Tax Law
D4.1	VAT deduction	yes	D4.1 Country section : Fact sheet – relevant decision making parameters (part 1) Poland
			Tax Law
D4.1	Direct subsidies (grants)	N/A	D4.1 Country section : Fact sheet – relevant decision making parameters (part 1) Poland
			Particular schemes
D4.1	Interest rates on loans	4,9%	D4.1 Country section : Fact sheet – relevant decision making parameters (part 2) (Poland)
			http://www.nbp.pl/home.aspx?f=/statystyka/pieniezna_i_bankowa/oprocentowanie_n.html
D4.1	Interest rates on deposits	1,4%	D4.1 Country section : Fact sheet – relevant decision making parameters (part 2) (Poland)
			http://www.nbp.pl/home.aspx?f=/statystyka/pieniezna_i_bankowa/oprocentowanie_n.html
D4.1	LTV ratio	0-125	D4.1 Country section : Fact sheet – relevant decision making parameters (part 2) Poland
			https://www.knf.gov.pl/Images/RAPORT_O_SYTUACJI_BANKOW_2014_12_tcm75-41472.pdf
D4.1	Debt repayment structure	N/A	D4.1 Country section : Fact sheet – relevant decision making parameters (part 3) Poland



D4.1	Planning (calculation) period	1-20	D4.1 Country section : Fact sheet – relevant decision making parameters (part 3) Poland
			Depends on scheme
D5.2	Energy price level	Electricity: 0.1178 €/kWh Oil: 0,51 €/kWh Gas: 0.0491 €/kWh	RentalCal web tool (default values)

D5.2	Vacancy rate (national average)	5%	D5.2 Country section : Table regional rental market disparities Poland
			Global property guide, 2015
D5.2	Size of Value premium (national average)	Currently no empirical evidence available in Poland	-----

D5.2	Size of Rent premium (national average)	Currently no empirical evidence available in Poland	-----
