

A European Voluntary Certificate and Energy Rating



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CONTEXT AND OBJECTIVES

Common EU commitments towards a <u>carbon</u> <u>neutral building stock</u>



- ✓ Different assessment methodologies
- **Different indicators** for benchmark
- Different ambition levels for rating and targets towards carbon neutrality

Who could profit from common comparable EU tool?

Owners of non-residential buildings

- International (branches, real estate funds, developers)
- For EP assessment based on transparent and best today know-how (hourly simulation, CEN EN / ISO standards)
- EU market professionals able to work EU wide, products, software
- Banks for green financing (green bounds)
- Public authorities implementation of EPBD (amendment 844/2018)
- EU funds, Renovation Wave (Green Deal) (EVC before-after renovation)
- EU Commission EPBD Art. 11(9) voluntary common EU certification scheme for the energy performance of non-residential buildings









THE MAIN PRINCIPLES FOR THE METHODOLOGY

CALCULATION METHODOLOGY

✓ Based on CEN standards as the reference methodology in line with EPBD, Annex I, using the hourly calculation step, climate of building location (JRC TMY) - <u>close to actual consumption</u>

INDICATORS & SCALE

- Indicators in line with EPBD, harmonized with existing schemes (BREEAM, DGNB, HQE, BES-IVE) to enable EVC to be used as an energy module. Indicators are compliant with Level(s)
- <u>Ambitious</u> scale able to show also <u>step-by-step renovation</u>

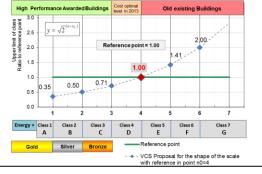
DEFINITION OF ALDREN NZEB

 Setting targets for <u>4 criteria</u>: primary energy, the needs related to fabrics and geometry, the efficiency of systems, thermal comfort score (<u>new</u>) to link energy and EN 16798

Steps required are close to the usual practice of energy assessor







Common European Voluntary Certificate (EVC, EVC+)

EVC

is reporting results on several pages:

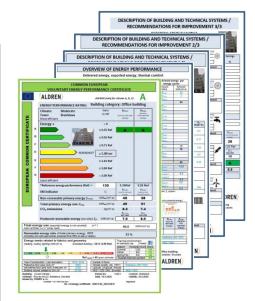
- The first page (can be displayed) Energy class rating, environmental indicators, highlighting NZEB level by Green Certificate
- Details on delivered energy per service / energy carrier link to energy costs
- Recommendations for improvement to NZEB, energy savings, reference to BRP (RenoMap)

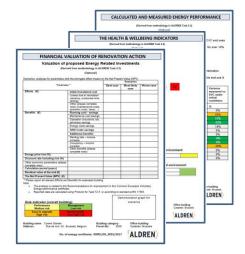
EVC+

One additional page per each ALDREN task (optional)

- ✓ Gap measured vs. calculated energy
- ✓ Health & Wellbeing, IEQ
- ✓ Financial valuation, Risk Indicator on obsolescence

The content is in line with all requirements on EPC in EPBD Art. 11















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