Main issues and definitions

- Improving the glazing quality (e.g. from single to advanced glazing) is among the most energy efficient measures
- ► Sometimes the glazing area can be modified: e.g. reduced in a north facade, increased in a south facade
- Attention should be also paid to solar protection, and possible ventilation air inlets placed in window frames
- The three important characteristics of windows / glazing are : the heat loss factor (U in W/m²/K), the light (τ) and solar (g) transmittance factors
- ► A glazing is chosen according to the climate, orientation and exposure, in order to maximize the heat gains losses balance





Main recommendations

- Keep large glazing area in living rooms (daylighting)
- ► Keep large glazing % in south facade and integrate solar protection (e.g. overhangs, external blinds)
- Reduce glazing area in north facades
- ► Choose low emissivity argon filled glazing (but high g-value in south facades), well insulated window frames, possibly triple glazing according to the climate
- ► If possible, compare different types of glazing using calculation (see section 2.1 and 2.2)





Example: Montreuil, France



Before renovation: single glazing 50% of the facades are glazed

After renovation:
Low emissivity double
Glazing, argon filled,
Reduced glazing area
In the north facade,
Glazed balconies





