

Appendix 2. Lighting guidelines and policies

Security is an important aspect in urban lighting guidelines. Various CIE (Commission Internationale de l'Éclairage) technical reports exist on this topic (e.g. CIE 1995, 2000). However, besides security aspects, pioneering regional laws have been introduced to protect dark sky close to astronomical observatories. Methods to reduce sky glow were defined by the IAU (International Astronomical Union) and the CIE (Cayral et al. 1980). On the Canary Islands and in Chile, international observatories are protected by law (Instituto de Astrofísica de Canarias (IAC) 1988, Ministerio de Economía, Fomento y Reconstrucción 1998). The regional law of Lombardy, Italy, and the national law of Slovenia are influenced by both energy efficiency and astronomical concerns (LR Lombardia 17/2000, Uradni List 2007). The Fatal Light Awareness Program (FLAP) is an example of efforts by cities (Toronto, in this case) to address the issue of light pollution that links both energy efficiency and ecology; in this case bird conservation (FLAP 2010). The Catalan Law strives to restore and protect natural nighttime conditions for the benefit of fauna, flora, and the general ecosystem (Font 2002).

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