**Social Impact Method of Energy Analysis: improvements and results**

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| **Study ID** | **indicators** | **Methods** | **scale** | **practices** |
| ID82 | Initial indicators considered: | SIMEA (Social Impact Method of Energy)  The SIMEA approach is based on “enlarged  environment” definition. considering as environment not only the  natural environment, but also the “human environment”, with so including the economy structure, social organisation, cultural and  historical aspects of the site.  To evaluate the impact of a technology on the site, the effect of each impact indicator on each environmental indicator has been considered assigning a “weight” because, regardless of its value, an impact indicator can have null or relevant effects on  a number of environment indicators. The weights can range from 0 to 1.  The social impact evaluation is done in the same way  described for the impact evaluation. The social impact is  defined as the effects on social indicators of the  impacts calculated. | Likert-type scale:    The impacts of a technology on the site can be positive or negative, so the range of values is from -9 to +9 | - |

The paper proposes a methodology for evaluating the environmental impact of energy systems. on “enlarged environment” definition. considering as environment not only the natural environment, but also the “human environment”, with so including the economy structure, social organisation, cultural and historical aspects of the site.

SIMEA has been refined in an iterative process. In its first application both the area and energy system characterization and the impacts evaluation has be done in qualitative way and a few number of social indicators has been considered:

* Education level
* Health system
* Housing conditions
* Industrial level
* Social conditions
* Economic conditions
* Historical-cultural traditions

The authors argued that the social indicators chosen, which concern the economic, technological, environmental and social conditions, have proved to be effective. The second application of SIMEA is oriented towards a more quantitative approach (weights ranging from 0 to 1 have been assigned.