

THE IMPACT OF ENERGETIC ENGINEERING ON HEALTH AND ENVIRONMENT

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Rezumat. *Această lucrare se referă la impactul tehnologiei energetice asupra sănătății și mediului. Aici sunt descrise rețele electrice și emisii de poluări în atmosferă, politica de mediu, este prezentată structura raportului de mediu Transelectrica, generarea în câmp electromagnetic și influența câmpurilor electromagnetice în bio-organisme.*

Abstract. *This paper handles the impact of energetic engineering on health and environment. Here are described the electrical networks and the emissions of pollutants in the atmosphere, the environment policy, it is presented the structure of Transelectrica environment report, the generation of electromagnetic field and the influence of electromagnetic fields on bio-organisms.*

Keywords: energetic engineering, electromagnetic field, electrical networks, environment policy, consumption

1. Electrical networks and emissions of pollutants in the atmosphere

The negative impact of overhead electrical lines on the surrounding environment is of type:

- *physical*, through possession of the territory, clearing of vegetation;
- *electromagnetic*, through effects of the electric and magnetic field on beings and systems of telephony, radio, TV etc.;
- *visual*, through effects on the landscape;
- *mechanical*, through possible danger of collision with the flight devices, fall hazard at road, railway, water crossings, etc. and fire hazard during accidental contact with objects or dry vegetation;
- *sound-like*, through noises caused by operation, vibration of network's elements or "corona" phenomenon;
- *chemical*, through generation of ozone and nitrogen oxide because of the "corona" phenomenon.

The positive impact of electrical lines on the social and economic environment is present through:

- *Creation of employment* during the entire service life of lines and electrical stations (design, operation, maintenance);

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