



SEA for “State Strategy on Alternative and Renewable Energy Sources – 2015-2020”

HUMAN HEALTH

Ph.D in medical sciences, assistant professor
İsmail Efendiyev



Impacts on human health in the use of ARES- I

Wind

- Insomnia, dizziness, headaches, ringing in the ears, stress and depression symptoms
- Development of local and general vibration disease

Solar

- Electromagnetic field generation and its impacts on human health
- Professional risks(workers contact with toxic substances in factories, greenhouse effect generation)
- Negative impacts of toxic substances in accident cases
- Improper disposal of solar panels, toxic effects of lead and other metal compounds

Impacts on human health in the use of ARES - II

SHPP

- Pollution of water resources and drinking water sources during installation of SHPP
- Marsh, siltation, flow and development of Vector disease during construction
- Indirect impacts of change in artesian water quality and composition on human health
- Danger in interruption of natural absorption of toxic substances in water

Geothermal

- Release of toxic gases into the atmosphere during the operation of plants
- Risks arising from the use of subsoil water polluted with toxic substances in welfare

Biomass

- Risk of development of allergic respiratory diseases
- Acute and chronic pesticide poisoning
- Emergency situations such as fire and explosion

Mitigation measures and suggestions - I

Wind

- Installation of wind turbines 300 m far from residential areas and work places

- Use of modern technology to reduce noise

Installation of wind turbines far from buildings and facilities

- Preparation of impact assessment and environmental management plan at the stage of drafting

Solar

- Take measures for regular cleaning of dust from solar panels

- Minimize the use of chemical detergents, waste water management, avoid discharge into the natural environment to prevent indirect impacts on human health

- Preparation of impact assessment and environmental management plan at the stage of drafting

Mitigation measures and suggestions - II

SHPP

- Taking measures to prevent the spread of vector disease, delay and stagnation in water flows, any obstacles in water pipes
- Preparation of impact assessment and environmental management plan at the stage of drafting

Geothermal

- Prepare plans for safety to avoid dangerous situations which may occur at the stage of drafting

Biogas

- It is possible to minimize potential hazards through placing restrictions on the biomass reservation and bio fuel storage



Diqqətinizə görə təşəkkür edirəm!

Thanks for your attention!

Спасибо за внимание!