

## Examining the Change of Power Transmission Line in Urban Regeneration with Geographical Information System

**Authors :** C. Yagci, F. Iscan

**Abstract :** In this study, spatial differences of Power Transmission Line (PTL) and effects of the situation before and after the urban regeneration are studied by using Geographical Information System (GIS). In addition, a questionable and analyzable structure is acquired by developed system. In the study area many parcels on the PTL were analyzed. The amount of the parcels, which are affected by the negativity of PTL is clearly seen with the aid of generated maps. Some kind of changes are exhibited in the system, which are created by GIS, for instance before urban regeneration PTL was very close to people's private properties and huge parts of PTL were among the buildings, however; after urban regeneration electricity lines were changed their locations to the underground. According to the results, GIS can be used as a device in planning and managing of PTL in urban regeneration projects and can be used for analyses. By the help of GIS technology, necessary investigations should be carried out in urban regeneration applications for creating sustainable cities.

**Keywords :** GIS, power transmission line, technology, urban regeneration

**Conference Title :** ICPT 2015 : International Conference on Power Transmissions

**Conference Location :** Paris, France

**Conference Dates :** August 27-28, 2015