The Government of the Republic of Slovenia has adopted a document "Resolution on National Development Projects for the period 2007 – 2023" in October 2006. Among several projects which all support sustainable development of Slovenia, an option of a new nuclear power plant was proposed. Thus, the Slovenian Government showed obvious intention and direction of Slovenian future energetic situation.

The supply of electricity has been sharpening in Slovenia in the last few years. Growing of gross domestic product (GDP) and approaching to the life standard of developed EU countries has caused increased consumption of electricity. Since domestic electricity production does not follow the increased consumption, Slovenia already imports nearly a quarter of its needed electricity.

Slovenia would need 400 MW of installed electrical power now for covering of its base load needs only. Based on recent electricity consumption forecasts, Slovenia will need 800 MW of new electricity generation capacities by 2015 and 1500 MW by 2025 respectively.

Besides high annual growth rate and high dependance on electricity import, a problem of relatively old power generation objects and realization of new energy and climate package for Europe exists. All together dictates our options for expansion of capacity production of the proposed Nuclear power plant Krško 2. Experience and knowledge of light water pressurized reactor can be effectively used at NPP Krško 2. Planned NPP Krško 2 would have between 1100 and 1600 MW of installed electrical power. If the decision is taken in 2009, construction could start in 2013 and finish in 2017.

Keywords: nuclear, project