

Workshop on Steps for Conducting Nuclear Power Plant
Technology Assessments, Vienna, Austria, 17-20 November 2008

VENEZUELA Perspective for Introduction of a Nuclear Power Programme

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Venezuela



The Bolivarian Republic of Venezuela is located on the northern coast of South America.

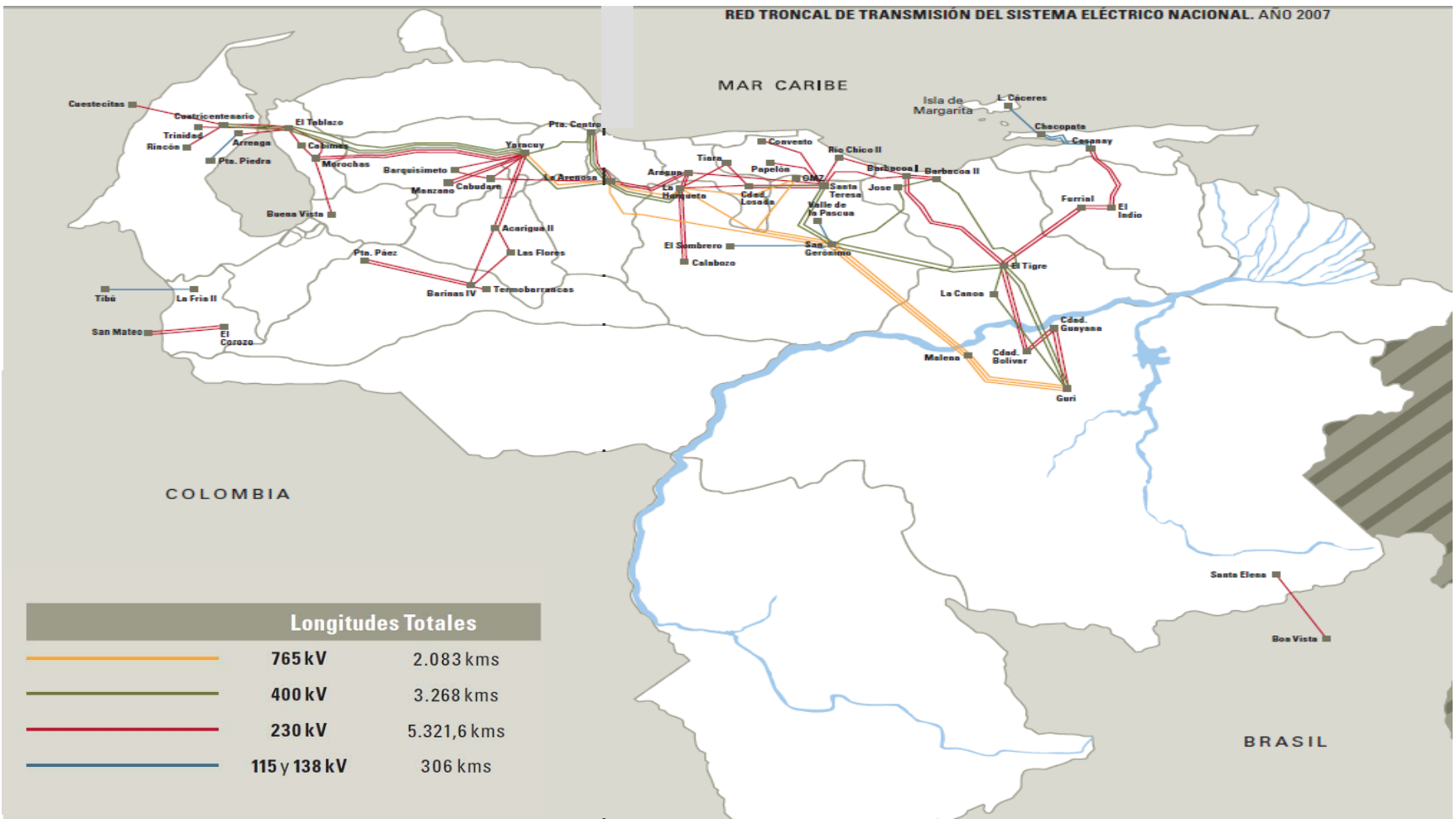
The estimated population is 27,500,000 persons.



National Electric System



RED TRONCAL DE TRANSMISIÓN DEL SISTEMA ELÉCTRICO NACIONAL. AÑO 2007



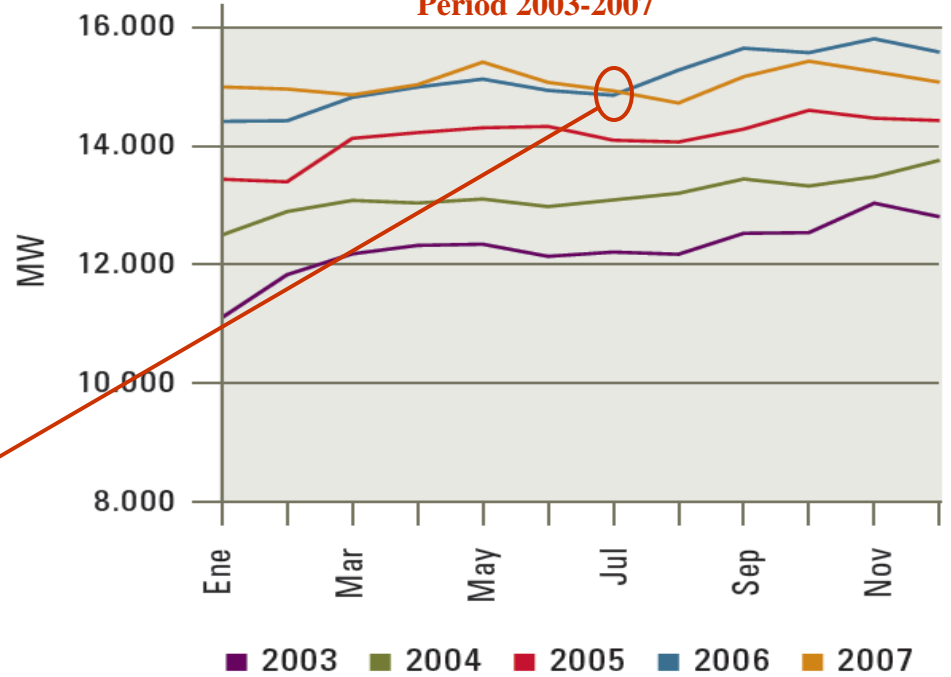
Source: Informe 2007. Centro Nacional de Gestión del Sistema Eléctrico

National Electric System



The national electrical grid have total installed capacity 22,540 MW. 14,597 MW are hydro units (65% of installed capacity) and 7,943 MW (35%) are thermal units.

Distribution of monthly maximum demand of National Electric System (MW) Period 2003-2007



In the year 2007, National Electric System had a peak demand of power, which declined 2.47% over the previous year due to an **Energy Efficiency Program**.

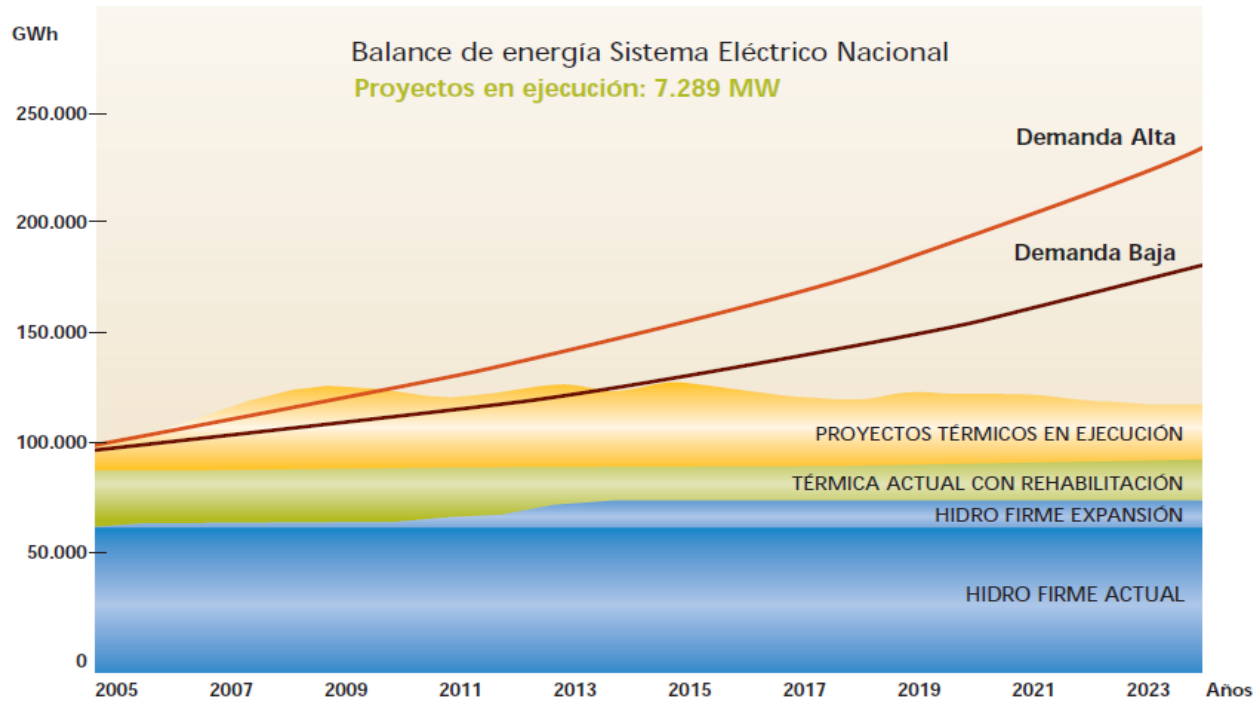
Source: Informe 2007. Centro Nacional de Gestión del Sistema Eléctrico

Electric Demand



The generation in 2007 was about 113,000 GWh, which 73% was produced with water sources and 26% remaining were supplied with heat sources.

At the scene of high demand, the total requirements of new generation for the period 2005 - 2024 are 22,000 MW, while for the scenario of low demand the requirements are 13,000 MW.



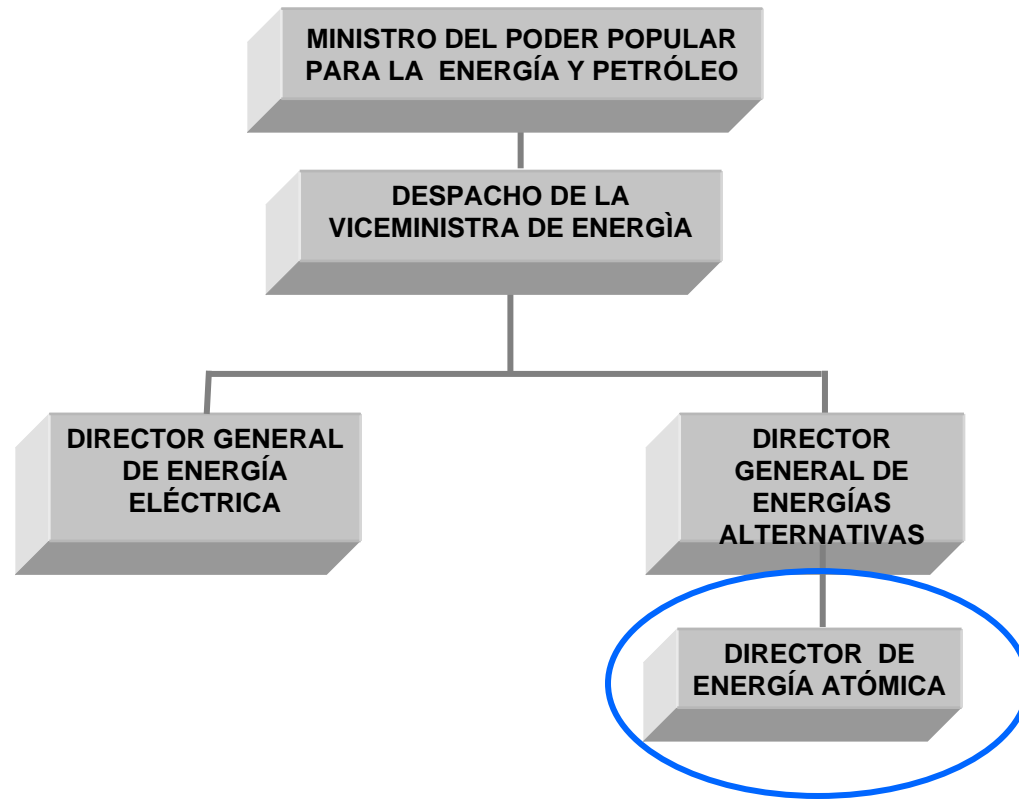
Source: Plan Estratégico de CVG EDELCA | Dirección de Planificación • División de Planificación Corporativa 2007- 2011

National Infrastructure



The *Direction of Atomic Energy* is the Regulatory Authority for the control of radiation sources in Venezuela.

This Direction is coordinating the atomic energy committee.



CEA



- The Atomic Energy Committee (CEA) is our “*Nuclear Energy Programme implementing Organization (NEPIO)*”¹ since 2007.
- The CEA is conformed by
 - Ministry of Science and Technology (MCT)
 - Ministry of Energy and Petroleum (MENPET)
 - Ministry of Basic Industries and Mining (MIBAM)
 - Electric Companies (CORPOELEC)
 - Universities (UCV, USB)

¹ NEPIO is the designation used in the IAEA by the guide “Milestones in the Development of a National Infrastructure for Nuclear Power”

National Position



Venezuela has developed the *Plan for the Economic and Social Development of the Nation 2007-2013*, within the framework of Sustainable Development, the General Alternatives Energy Direction (DGEA), has been working in the strategic line that corresponds to the energy development of the country.

In the case of alternative energies, in the strategies, policies and projects, is encouraging the use of alternate energy sources, renewable and environmentally sustainable, through applied research for energy: wind, solar, small hydro, the funding facilities for the use of alternate sources, technical assistance to communities and research on other alternative sources and **nuclear energy**.

Perspective..



PROJECTS: 2009-2011 Group Development of Nuclear Energy

Main Areas

Projects

Energy Planning

VENEZUELA (POAN 2009) “*Design scenarios of demand and supply of energy including alternative sources and environmentally sustainable*”

Site Selection and Evaluation

VENEZUELA (POAN 2009) “*Feasibility study for the assessment of sites in Venezuela for a nuclear power plant*”

Planning Program Nuclear

AIEA-MENPET (VEN2007002) “*Developing National Human Resource Skill for the Production of Electricity using Nuclear Power*” (2009-2011)

AIEA-MENPET (RLA2007024) “*Support for the Introduction of Nuclear Energy* (2009-2011)

VENEZUELA (POAN 2009) “*Developing a Strategic Plan for the Introduction of a Nuclear Program for Electricity Generation*”

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Thanks you.

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