



Sustainable  
Energy  
Communities



**Tool No: 3.3.6 Model**

**SEC-TOOLBOX**

Tool Category no. 3.3 Scenario Analysis

Overview	
<b>ID-number</b>	3.3.6
<b>Name</b>	WASP
<b>Date</b>	N/A
<b>Type</b>	Model
<b>Language</b>	English
<b>Developer</b>	International Atomic Energy Agency
<b>Contact Data</b>	<a href="http://www.adica.com">www.adica.com</a>

**Description**

Long-term electricity generation planning including environment analysis. WASP is the International Atomic Energy Agency’s (IAEA) most widely used tool for electricity system planning. The model determines the least-cost generating system expansion plan that adequately meets demand for electrical power while respecting user-specified constraints on system reliability. WASP uses probabilistic simulation to calculate production costs for a large number of possible future system configurations and dynamic programming to determine the optimal expansion plan for the electric power system considered.