

**Suggested Programme for
Developing Sinai Desert
Community Using Nuclear
Energy.**

By:

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INTRODUCTION:

- **Shortage of water in Egypt and North Africa.**
- **The need for both water and electricity.**
- **The desert lies beside the sea in most cases.**
- **Dual purpose plants are recommended.**
- **Nuclear Energy for peace and progress.**

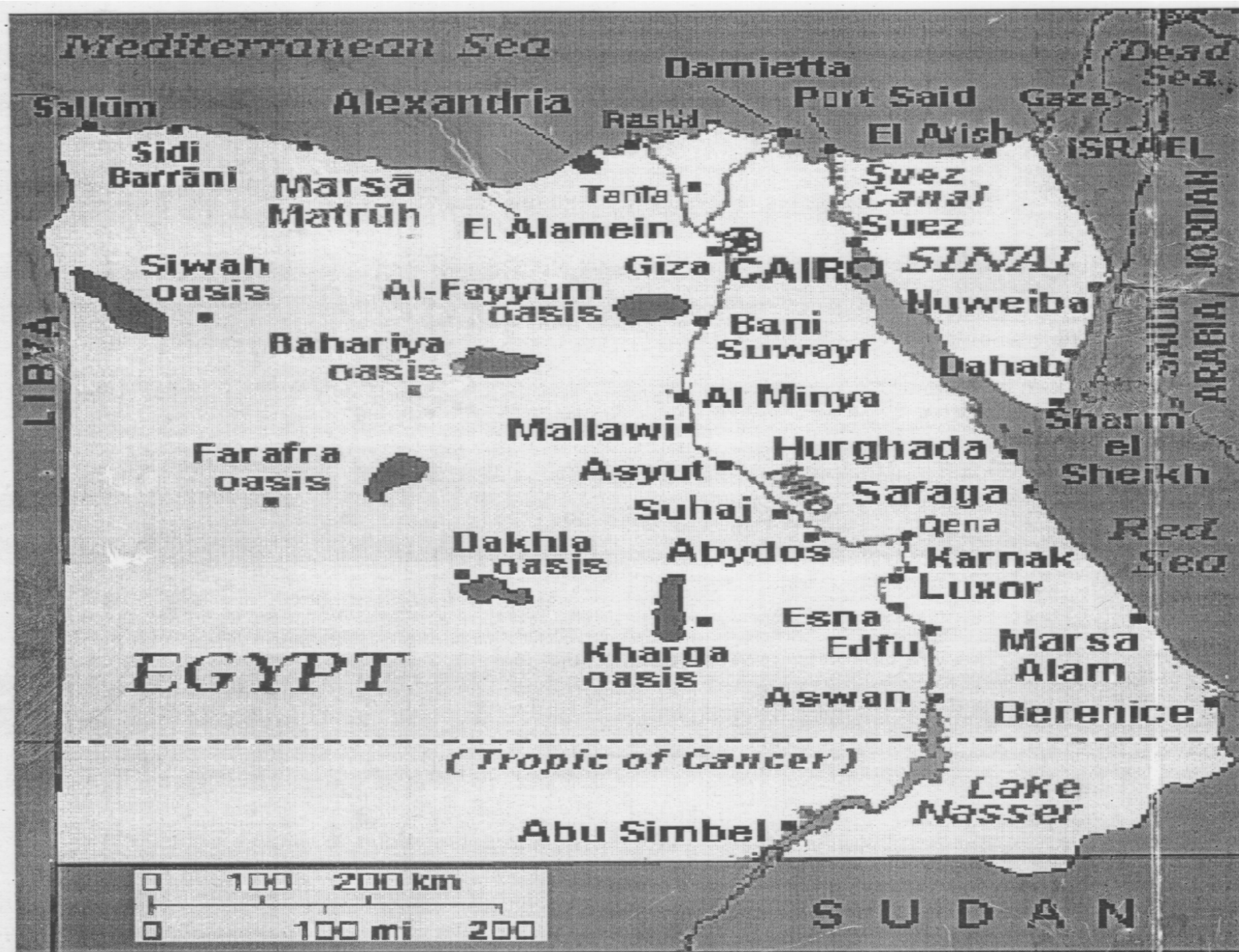
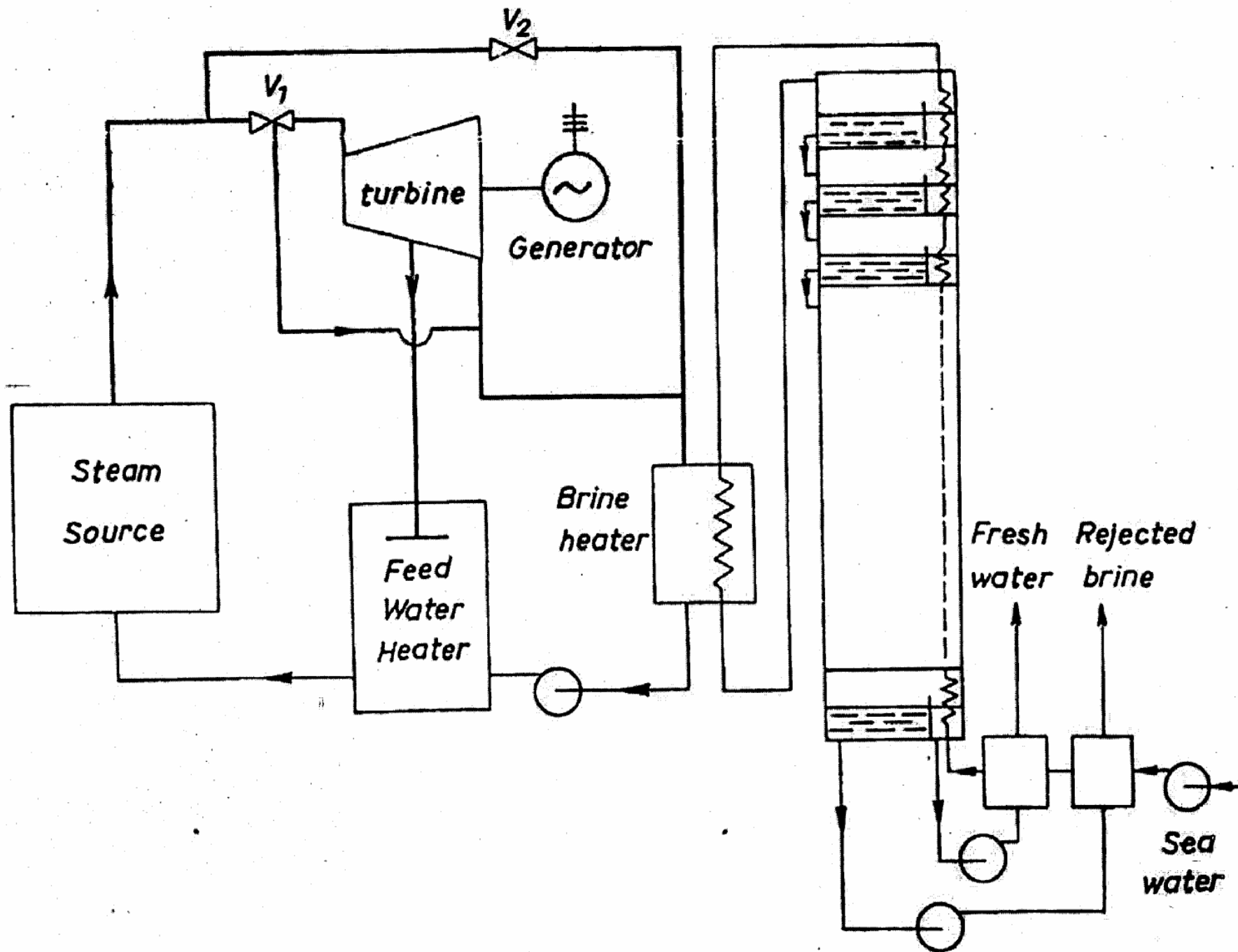




Fig. 1. The War of Sinai, 1956-1957.

SUGGETED METHODS:

- **The Plant Size (medium)**
- **Reactor Type (PWR)**
- **Back-Pressure scheme.**
- **MSF evaporator.**



THE PLANTS FEATURES:

Thermal power 1950 MW

Electric power 400 MW

Water production 250 MGD

Fuel (uranium dioxide)

Enrichment 3.4%

Load factor 70%

Multiplication factor 1.09

