



**INSTITUTO
DE INGENIERÍA
UNAM**



Energy in Mexico and its contribution to air quality

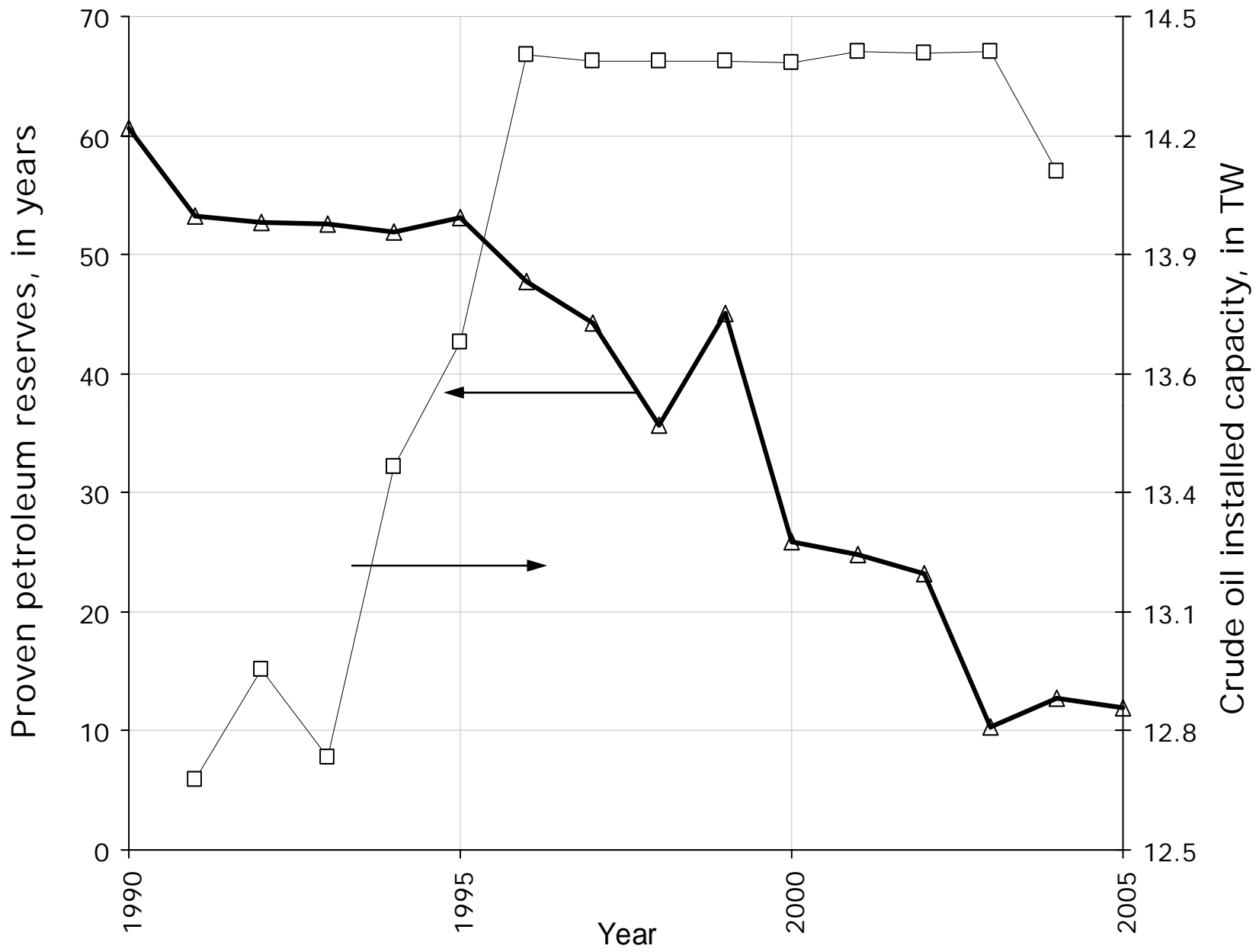
José Luis Fernández Zayas

10 April, 2008

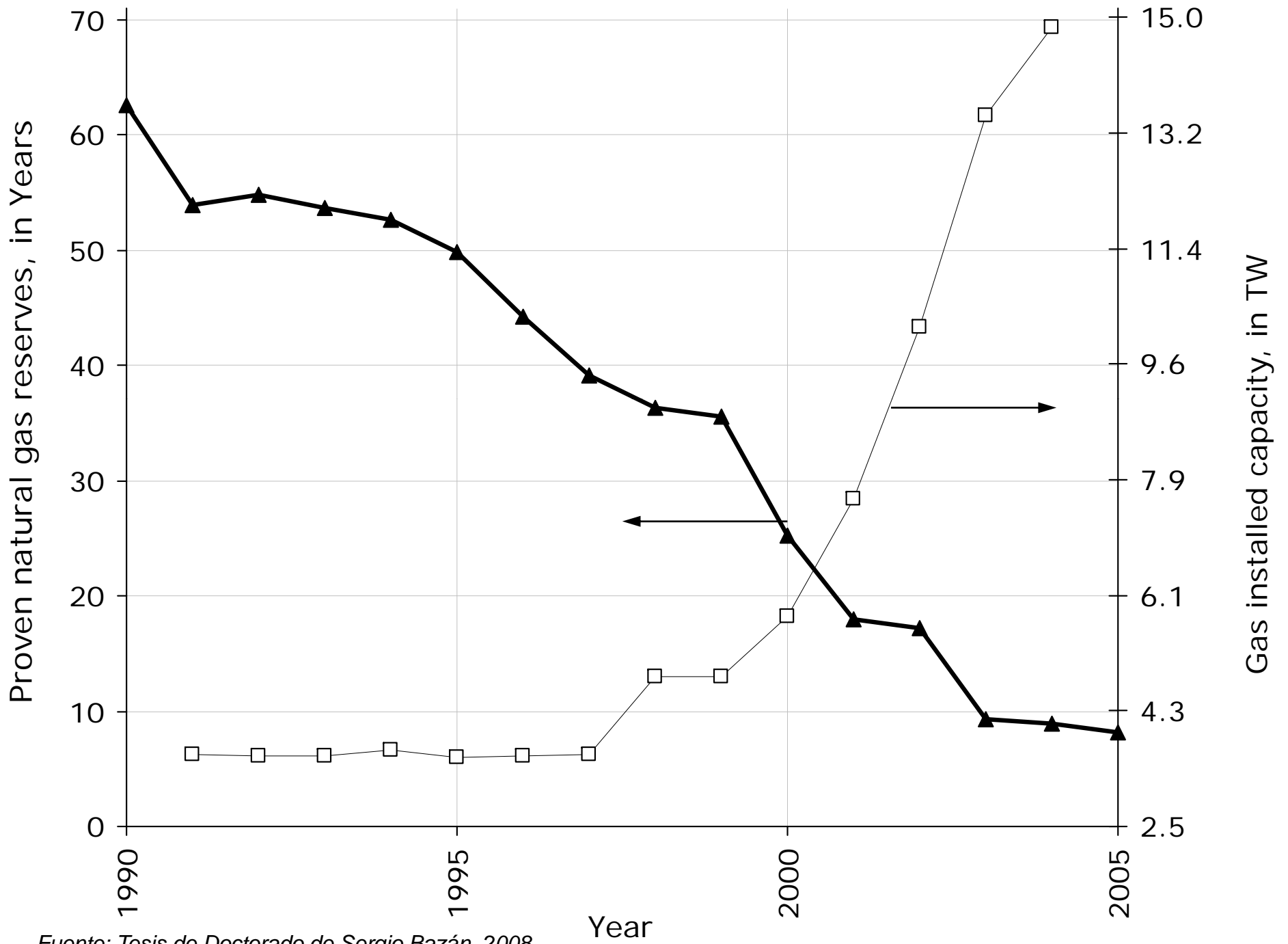
NARSTO/INE/MCE2 Technical Symposium

Present policy

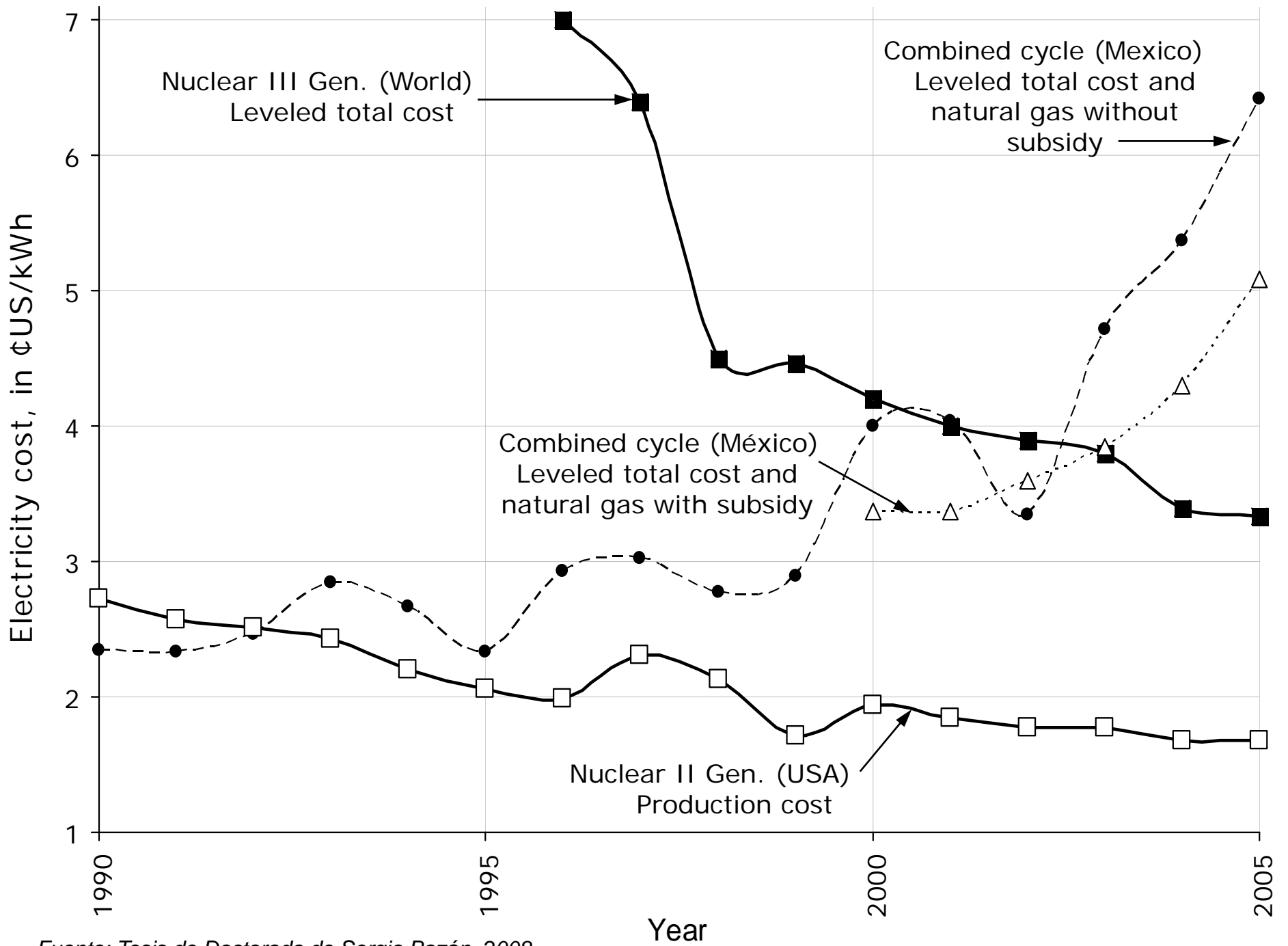
Unsustainable in the near term.



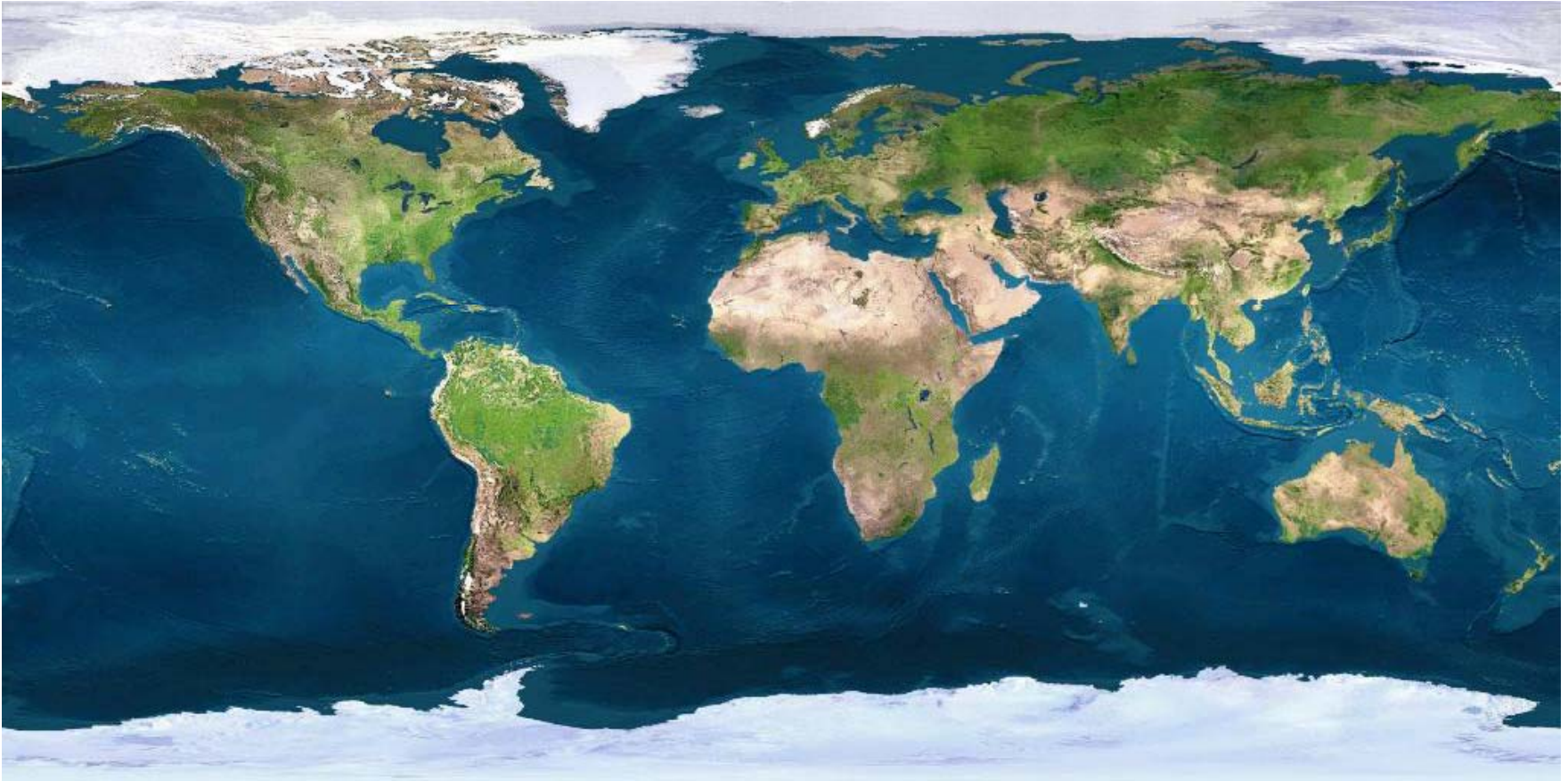
Fuente: Tesis de Doctorado de Sergio Bazán, 2008



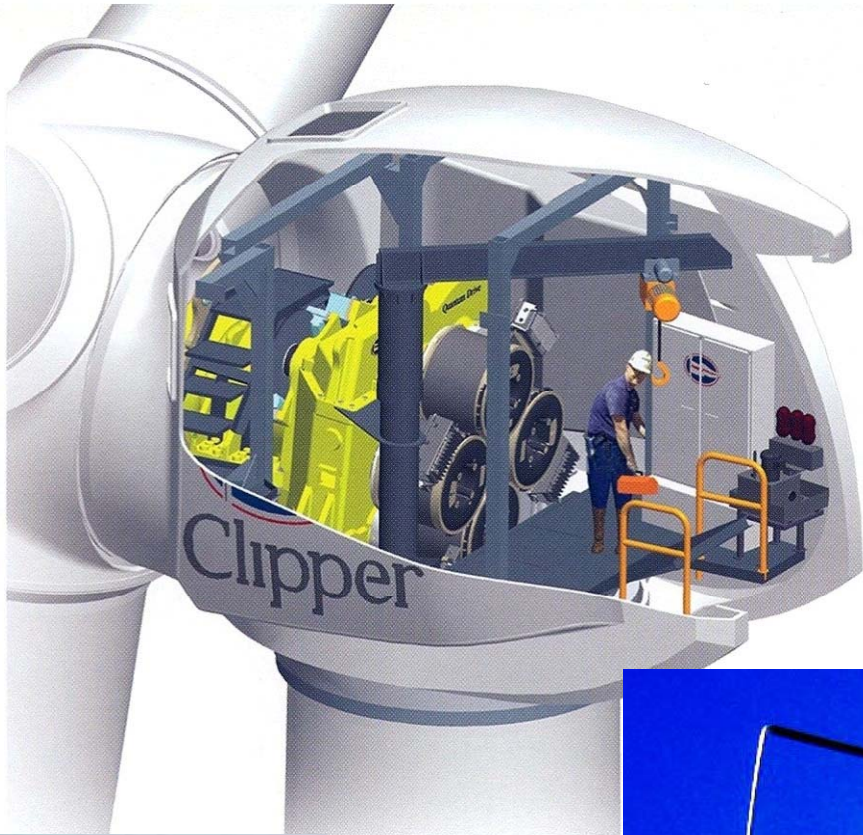
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Mexico: A plausible quest for zero emissions



Wind energy





Wind energy

Isthmus of Tehuantepec region

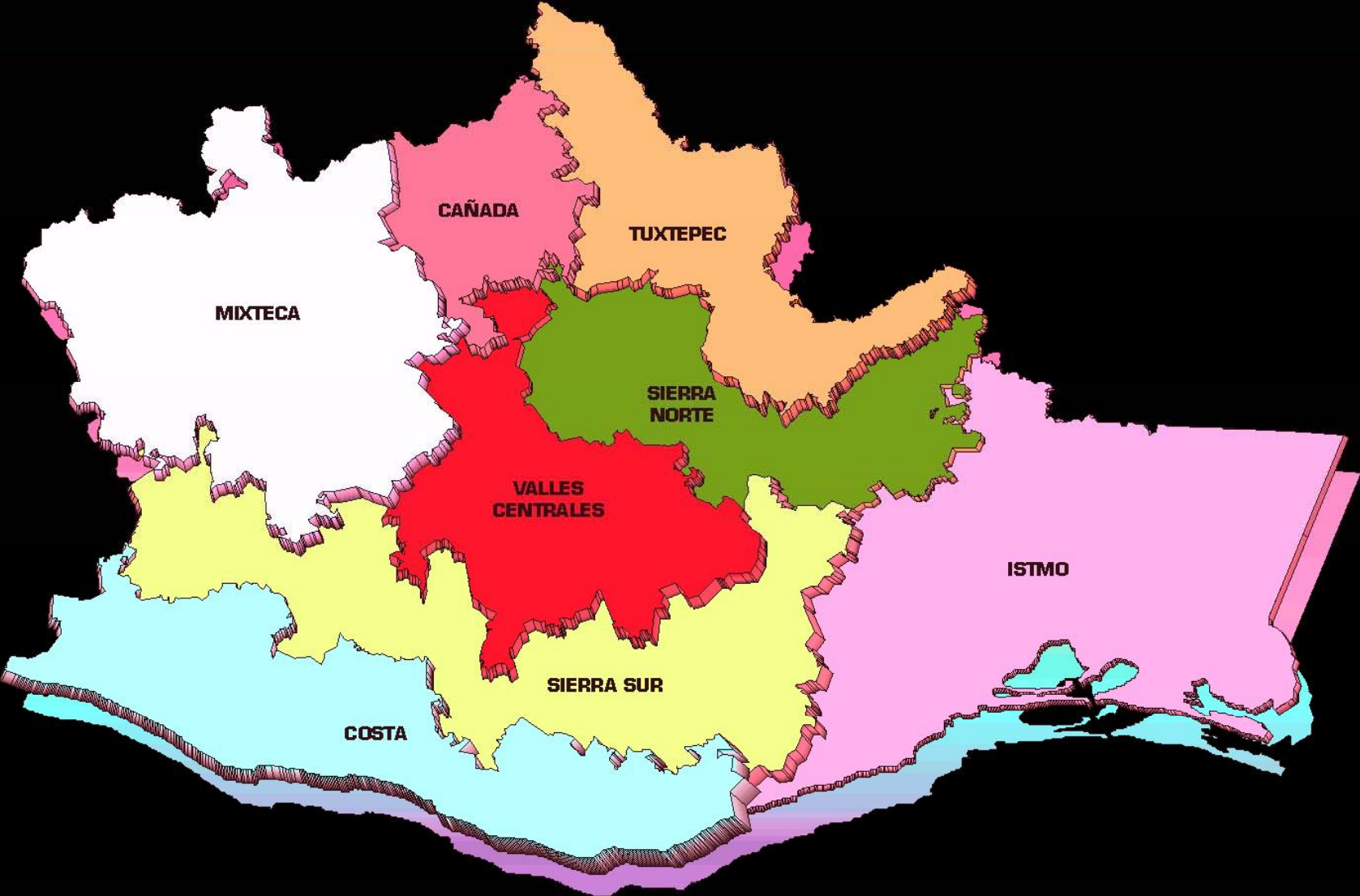
CALIFICACIÓN	POTENCIA A 50 M (W/m ²)	ÁREA Km ²	CAPACIDAD MW
Moderada	300-400	2 234	11 150
Buena	400-500	2 262	11 300
Excelente	500-600	1 370	6 850
Excelente	600-700	1 756	8 800
Excelente	>800	1 248	6 250
TOTAL		8 870	44 350

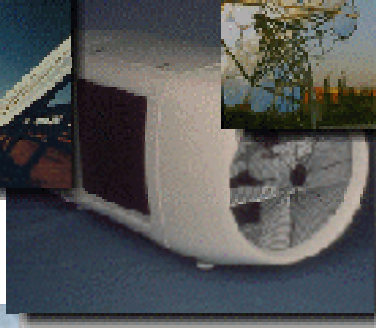
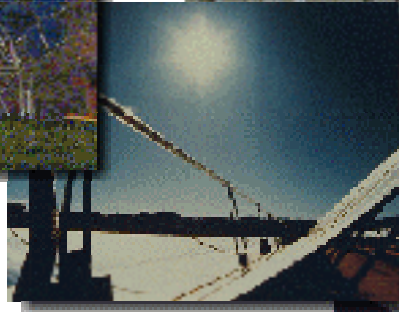
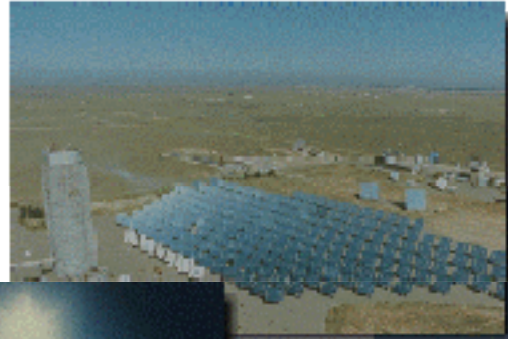
Estimated capacity

Source: Wind Energy Resource Atlas of Oaxaca
National Renewable Energy Laboratory, USA

**Evaluated by CFE:
2 000 MW**







Solar energy



Photovoltaic systems

- Lighting
- Public lighting
- Backup systems
- Signaling
- Communications



Geothermal energy

Cerro Prieto
720 MW

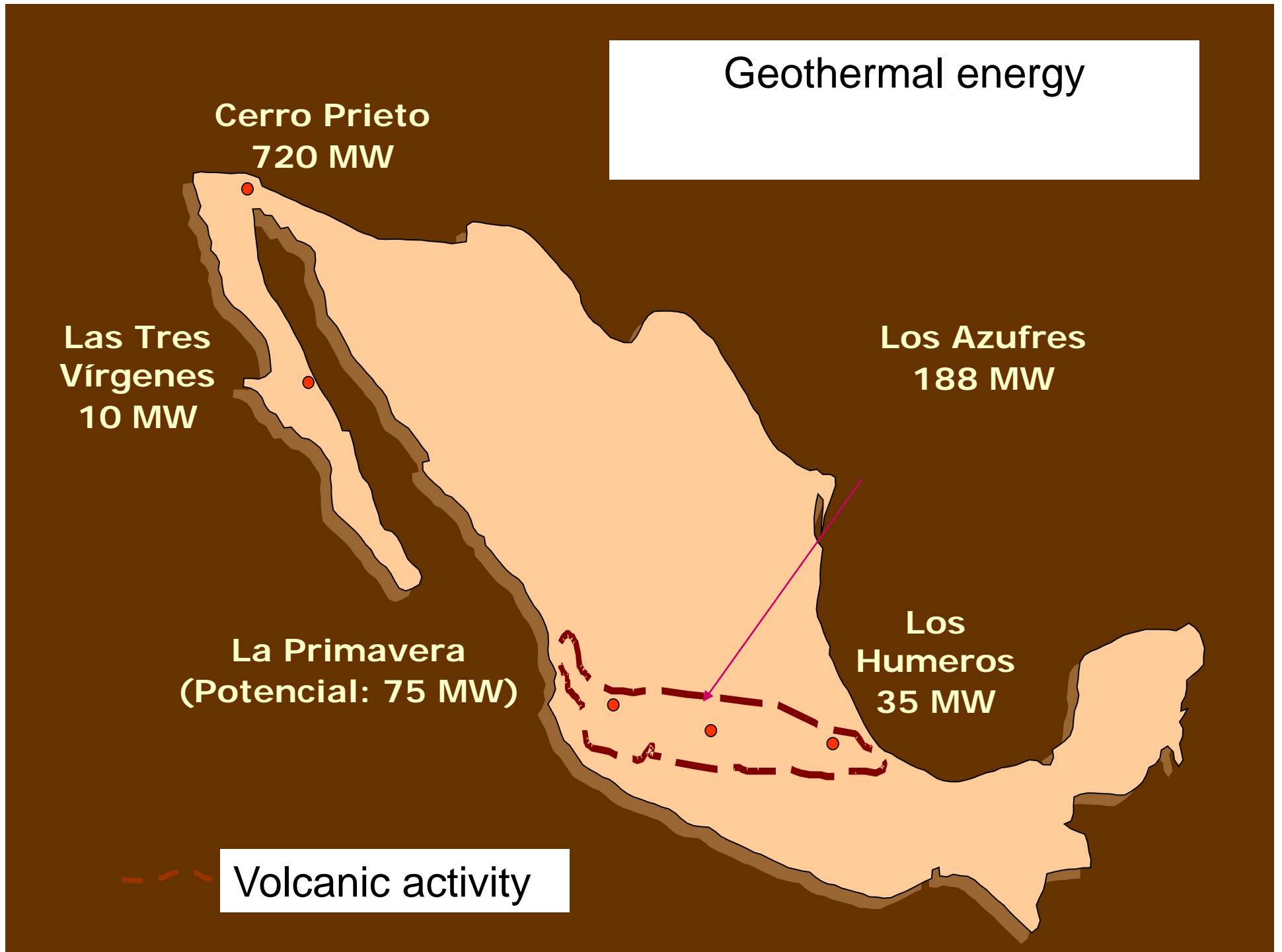
Las Tres
Vírgenes
10 MW

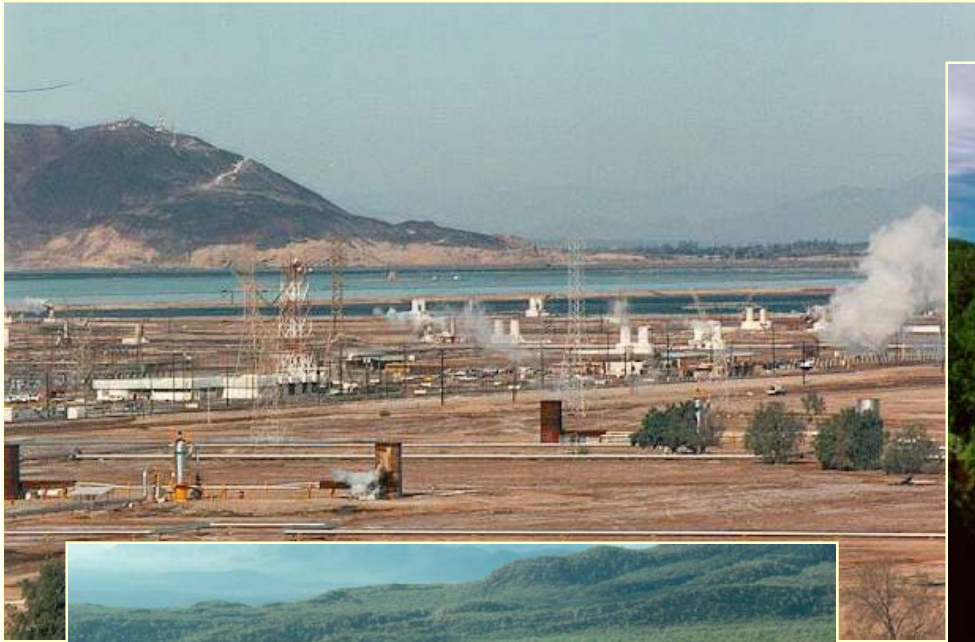
Los Azufres
188 MW

La Primavera
(Potencial: 75 MW)

Los
Humeros
35 MW

Volcanic activity





The end