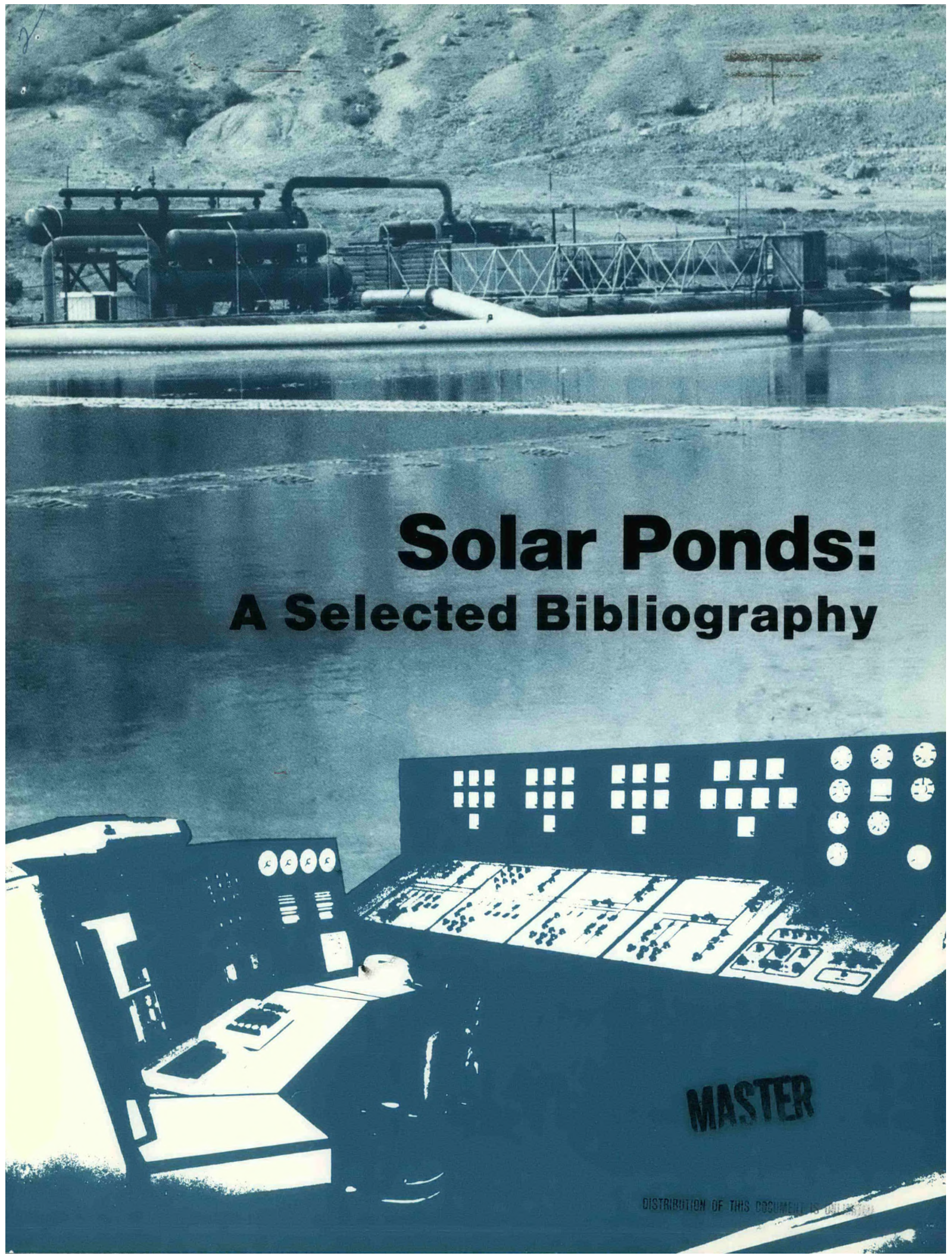


The image is a composite. The top half shows a solar pond system in a desert environment. In the background, there is a large, arid hill. In the middle ground, a long, narrow body of water (the solar pond) is visible. To the left of the pond, there is industrial equipment including large black cylindrical tanks and a network of pipes. A white metal walkway or bridge structure extends over the pond. The bottom half of the image is a high-contrast, black and white photograph of a control room. A person is seated at a desk, facing a large control panel. The panel is filled with numerous analog gauges, dials, and switches. Above the panel, there are several rows of small, square indicator lights. The overall image has a grainy, historical quality.

Solar Ponds: A Selected Bibliography

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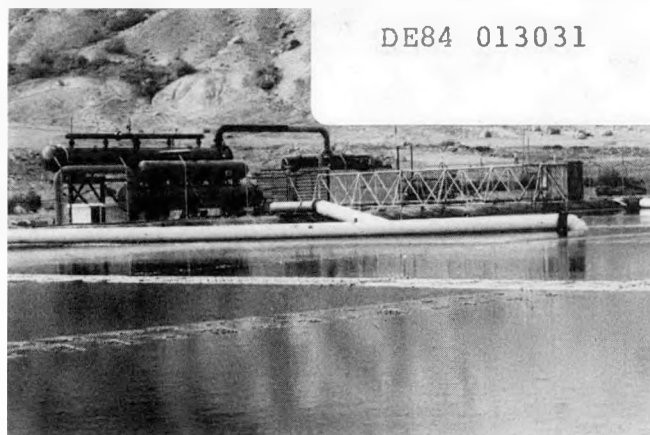
On the cover . . .

The control room for the 5-MW solar pond power plant at Beit Ha'arava, Israel is superimposed upon the 150-kW solar pond power plant at Ein Bokek, Israel. Cover design by Susan Szczepanski.

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150-kW Solar Pond Power Plant at Ein Bokek, Israel

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Contents

	Page
Preface	ii
Introduction	iii
How to Use This Bibliography	iii
Obtaining Documents	iv
Topic Index	v
Bibliography	1

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Preface

This bibliography updates *Solar Ponds: A Selected Bibliography* (SERI/TR-752-711), published in November 1981. This new version incorporates that bibliography with new citations compiled from conference proceedings and journals published since November 1981. Additionally, bibliographic data bases used in creating the original bibliography were searched for citations entered from March 1981 through March 1984. These are the data bases searched.

1. AGRICOLA (Agricultural On Line Access) — Provides extensive coverage of worldwide agricultural literature from 1970.
2. CA SEARCH — The on-line version of *Chemical Abstracts*, this data base provides extensive coverage of the worldwide chemical literature.
3. CLAIMS™ — Contains citations and abstracts for patents issued by the U.S. Patent Office from 1950.
4. COMPENDEX — The machine-readable version of *Engineering Index*, which indexes the world's significant engineering and technological literature from 1970 to the present.
5. COMPREHENSIVE DISSERTATION ABSTRACTS — A data base containing records of American Doctoral dissertations accepted at accredited institutions since 1861.
6. CONFERENCE PAPERS INDEX — Provides an index to papers presented at approximately 1000 scientific and technical meetings worldwide each year. Covers the period 1973 to the present.
7. ENERGYLINE — Provides broad coverage of scientific, engineering, political, and socio-economic aspects of energy policy, resources, conversion, and consumption. Covering the period 1971 to the present, this data base corresponds to the printed *Energy Information Abstracts*.
8. GPO MONTHLY CATALOG — Corresponds to the printed *Monthly Catalog of United States Government Publications*. This file indexes public documents published by the U.S. government from 1976 to the present.
9. INSPEC — Covers the fields of physics, electrical engineering, electronics, computers, and control engineering. Corresponds to the hard copy *Physics Abstracts*, *Electrical and Electronics Abstracts*, and *Computer and Control Abstracts* from 1969.
10. NTIS — Covers government-sponsored research, development and engineering reports, plus analyses, journal articles, and translations prepared by federal agencies, their contractors, and grantees from 1964 to the present.
11. PAIS INTERNATIONAL — Covers the entire range of the social sciences with emphasis on contemporary public issues and the making and evaluating of public policy. Corresponding to the hard copy *PAIS Bulletin*, it covers documents published since 1972.
12. SCISEARCH — A multidisciplinary index to the literature of science and technology. Contains all records published in *Science Citation Index* from 1974.
13. SPIN (Searchable Physics Information Notices) — Abstracts and indexes a selected set of the world's most significant physics journals from 1975 to the present.

Each new item cited in this updated bibliography was obtained and verified by the compilers during the six weeks assembling this publication. Regrettably, some works were unobtainable and, hence, excluded.

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Introduction

Most users of this bibliography will be familiar with solar ponds. Those who are not can gain a general understanding of the technology by reading the works listed here, according to topic, by their citation number in this bibliography.

Solar Pond Technology

- 271. (Kooi, 1979)
- 360. (Nielsen, 1980)
- 424. (Sargent, Neeper, 1980)
- 497. (Tabor, Weinberger, 1981)
- 577. (Zangrando; Bryant, 1978).

Shallow Solar Ponds

- 94. (Clark, Dickinson, 1980)
- 130. (Dickinson, Clark, Day, Wouters, 1976).

Shallow Pond Research

- 72. (Casamajor, Parsons, 1979)
- 130. (Dickinson, Clark, Day, Wouters, 1976)
- 131. (Dickinson, Clark, Iantuono, 1976).

For current information on worldwide activity in solar pond research and development, consult the *International Solar Pond Letters*. This newsletter is edited by M. Edesses and sponsored by the Engineering Division of the American Solar Energy Society.

How To Use This Bibliography

The 581 citations in this bibliography are arranged in alphabetical order and numbered sequentially. Each citation is assigned according to its subject matter and by number to one or more of the categories in the topic index. This index is the guide to documents in the user's area of interest. Because it is the key to the use of this publication, the index is located in front of the bibliography rather than in its more traditional location at the rear.

With few exceptions, the citations begin with and are alphabetized according to the last name of the principal author. Therefore, users seeking a specific document for which they know the principal author can bypass the topic index and search the bibliography. If they fail to locate the work, they can search by title which leads a citation whenever the author is unknown to the bibliographer. Finally, they can resort to the topic index and continue their search by subject matter and citation number.

The Topic Index divides the citations into the following 13 major topics and 26 subtopics (parentheses enclose examples of coverage):

General Descriptions (fairly nontechnical)

- Salt Gradient
- Shallow
- Saturated
- Other (such as gel ponds and immiscible fluids)

Specific Descriptions (specific existing ponds)

- Artificial
- Converted from Existing Bodies of Water (Israeli Dead Sea ponds)
- Natural

Thermal Performance (calculating heat balance)

- Collection Efficiency (optical properties of brine)
- Ground Losses
- Storage Fluid Mechanics
- Surface Layer (creation of wind-mixed surface layer)
- Gradient Layer (stability and interface with other layers)
- Storage Layer
- Withdrawal and Injection of Brine

Mass Transfer (rate of salt diffusion from bottom to top)

Design and Construction

- Construction (sizing for specific site and application)
- Design (of existing ponds and "how to" design)

Operation and Maintenance

- Gradient Layer Maintenance
- Stability (controlling depth of surface-mixed layer)
- Extraction of Heat (performance of heat exchangers)

Environmental Effects and Safety (brine leakage)

Instrumentation (measuring temperature, salinity, density, optical and physical properties, and radiation intensity)

Economics (costs of constructing and operating)

Applications

- Buildings (heating, cooling, and hot water)
- Industrial Process Heat
- Agriculture (crop drying)
- Power Generation (electrical, power-producing heat engine, and direct contact heat exchangers)
- Desalination
- Chemical Processing (producing salt)
- Cooking

Site Specific and Regional Studies (Salton Sea, Great Salt Lake, Truscott Brine Lake)

Patents

Obtaining Documents

Documents listed in this bibliography are available at public, academic, and special libraries either directly or through interlibrary loan services. Most U.S. government publications and Department of Energy reports are maintained at one or more specially designated repositories in each state and librarians are familiar with these resources.

To purchase publications cited in this bibliography, you must first consider their source. If published commercially, they may be ordered through your local bookstore.

Documents resulting from government-funded research and development accomplished by federal agencies, their contractors, and grantees are usually available from the National Technical Information Service (NTIS). Availability and pricing information can be obtained by writing to

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300 N. Zeeb Road
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Many libraries have a catalog of the serials available from U.M.I.

Documents cited in this bibliography that are available only through a special outlet, such as a professional society, will have that as the source of availability listed in the citation.

An effort has been made to ensure that all documents cited in this bibliography are currently available through some outlet. We would be interested in hearing of any problems encountered in trying to obtain a document. Write to

Technical Information Branch
Attn: Solar Ponds Bibliography
Solar Energy Research Institute
1617 Cole Blvd.
Golden, CO 80401

Topic Index

I. General Descriptions

100, 142, 147, 148, 181, 192, 229, 240, 241, 242, 243, 244, 247, 257, 273, 309, 339, 343, 408, 411, 423, 438, 464, 526, 535.

A. Salt Gradient

13, 31, 34, 44, 56, 64, 80, 96, 137, 138, 145, 168, 170, 178, 180, 193, 196, 204, 206, 269, 271, 282, 297, 310, 342, 344, 347, 360, 369, 375, 409, 410, 412, 422, 424, 427, 475, 479, 481, 484, 485, 488, 489, 490, 491, 492, 493, 494, 496, 497, 505, 506, 517, 543, 577.

B. Shallow

4, 67, 68, 69, 70, 71, 72, 73, 88, 89, 90, 91, 92, 93, 94, 114, 115, 116, 117, 118, 125, 126, 130, 131, 132, 133, 134, 135, 164, 165, 177, 184, 185, 186, 201, 256, 267, 272, 276, 277, 278, 334, 345, 397, 402, 403, 457, 462, 463, 465, 466, 522, 559, 561.

C. Saturated

58, 61, 161, 234, 238, 270, 311, 323, 328, 378, 379, 381, 382, 384, 385, 415, 416, 420.

D. Other

1, 2, 105, 107, 143, 217, 220, 262, 264, 265, 266, 285, 294, 295, 296, 298, 301, 338, 390, 407, 436, 437, 506, 523, 525, 537, 538, 539, 540, 540a, 541.

II. Specific Descriptions

A. Constructed

47, 48, 57, 59, 62, 76, 86, 101, 103, 108, 112, 120, 122, 126, 131, 132, 133, 139, 154, 169, 179, 219, 223, 232, 237, 251, 252, 274, 348, 361, 368, 370, 373, 384, 398, 414, 425, 426, 445, 446, 456, 495, 549, 550, 554, 556, 573, 575, 576, 578.

B. Converted from Existing Bodies of Water

19, 22, 24, 48, 205, 421, 518.

C. Natural

18, 97, 98, 99, 208, 212, 253, 472, 478, 542.

III. Thermal Performance

3, 7, 60, 71, 83, 92, 100, 101, 114, 115, 123, 124, 155, 156, 187, 197, 198, 200, 201, 208, 214, 216,

219, 221, 222, 235, 236, 245, 246, 260, 261, 269, 270, 271, 295, 302, 319, 349, 350, 360, 362, 363, 377, 387, 391, 392, 393, 394, 395, 400, 401, 409, 410, 414, 418, 419, 420, 427, 431, 432, 439, 440, 441, 443, 445, 456, 461, 465, 479, 481, 484, 489, 497, 516, 518, 528, 529, 533, 534, 535, 549, 550, 556, 557, 558, 561, 573, 575.

A. Collection Efficiency

15, 34, 35, 58, 83, 85, 110, 135, 149, 153, 157, 159, 176, 195, 230, 231, 306, 318, 460, 511, 512, 513, 515, 524, 532, 546.

B. Ground Losses

33, 40a, 121, 209, 210, 224, 226, 286.

C. Storage

8, 9, 106, 113, 203, 328, 353, 365, 460, 480, 482, 483, 519.

IV. Fluid Mechanics

46, 56, 81, 82, 109, 228, 293, 327, 331, 332, 333, 377, 432, 508, 530.

A. Surface Layer

12, 25, 26, 27, 38, 77, 78, 218, 294, 324, 359, 371, 388, 389.

B. Gradient Layer

5, 6, 16, 45, 61, 158, 194, 221, 222, 225, 227, 254, 255, 259, 292, 303, 304, 341, 351, 355, 404, 429, 459, 477, 500, 509, 525, 527, 567, 574.

C. Storage Layer

38, 39, 326, 350, 353, 357, 405, 547.

D. Withdrawal and Injection of Brine

32, 79, 111, 150, 188, 233, 239, 404, 514, 569, 570, 571.

V. Mass Transfer

5, 6, 10, 37, 84, 152, 358, 381, 415, 416.

VI. Design and Construction

62, 76, 86, 104, 170, 223, 245, 251, 252, 289, 311, 320, 321, 361, 368, 398, 531, 548, 573, 575, 577.

A. Construction

172, 179, 190, 223, 249, 251, 252, 553, 560.

B. Design

14, 54, 72, 73, 95, 149, 207, 235, 274, 316, 391, 393, 433.

VII. Operation and Maintenance

12, 58, 59, 62, 92, 101, 103, 154, 169, 170, 173, 179, 223, 237, 251, 252, 348, 360, 361, 368, 370, 373, 377, 378, 379, 384, 425, 426, 479, 481, 484, 489, 497, 534, 553, 555, 556, 558, 573, 576

A. Gradient Layer Maintenance

10, 30, 87, 122, 211, 213, 213.a, 238, 356, 358, 364, 372, 374, 434, 572, 578.

B. Stability

45, 218, 225, 227, 290, 291, 292, 293, 304, 366, 367, 372, 405, 428, 429, 551, 569, 574, 575.

C. Extraction of Heat

29, 30, 32, 122, 191, 203, 258, 263, 267, 315, 324, 352, 357, 514, 547, 552, 569, 570, 571, 578.

VIII. Environmental Effects and Safety

136, 160, 317, 406, 510.

IX. Instrumentation

83, 85, 171, 182, 183, 250, 280, 281, 292, 293, 316.

X. Economics

71, 75, 86, 125, 127, 134, 147, 148, 279, 325, 502, 503.

XI. Applications

40, 43, 67, 68, 70, 126, 177, 241, 242, 413, 475, 476, 554.

A. Buildings

4, 30, 59, 74, 108, 124, 175, 199, 256, 283, 284, 287, 288, 307, 308, 314, 329, 330, 409, 410, 455, 456, 457, 474, 519, 576.

B. Industrial Process Heat

17, 28, 52, 53, 68, 69, 70, 89, 90, 117, 118, 125, 126, 127, 128, 129, 131, 132, 133, 134, 184, 185, 186, 205, 232, 278, 380, 474, 522, 554.

C. Agriculture

30, 101, 102, 169, 173, 230, 231, 247, 335, 402, 403, 414, 430, 439, 440, 441, 442, 443, 446, 447, 448, 449, 450, 451, 452, 453, 454, 520, 559.

D. Electricity

20, 23, 24, 36, 41, 47, 48, 49, 50, 51, 54, 55, 65, 66, 75, 93, 103, 104, 120, 140, 141, 142, 166, 167, 202, 248, 287, 288, 289, 316, 320, 321, 323, 336, 337, 399, 407, 421, 444, 458, 467, 469, 470, 473, 483, 490, 491, 492, 494, 498, 499, 502, 521, 544, 562, 563, 564, 565, 566, 568.

E. Desalination

40b, 42, 65, 66, 151, 248, 268, 396, 413, 469, 470, 486, 487, 501, 504.

F. Processing Chemicals

11, 63, 312, 383, 435.

G. Cooking

146.

XII. Site Specific Studies

3, 7, 41, 42, 47, 48, 54, 55, 60, 80, 95, 104, 120, 136, 140, 141, 159, 166, 167, 189, 275, 279, 289, 299, 300, 313, 316, 317, 320, 321, 322, 376, 386, 398, 399, 418, 458, 503, 507, 518, 568.

XIII. Patents

20, 21, 23, 64, 65, 66, 144, 162, 163, 174, 211, 213, 215, 296, 305, 328, 334, 340, 346, 354, 396, 417, 433, 434, 435, 436, 468, 469, 470, 471, 545.

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5-MW Solar Pond Facility at Beit Ha'arava, Israel

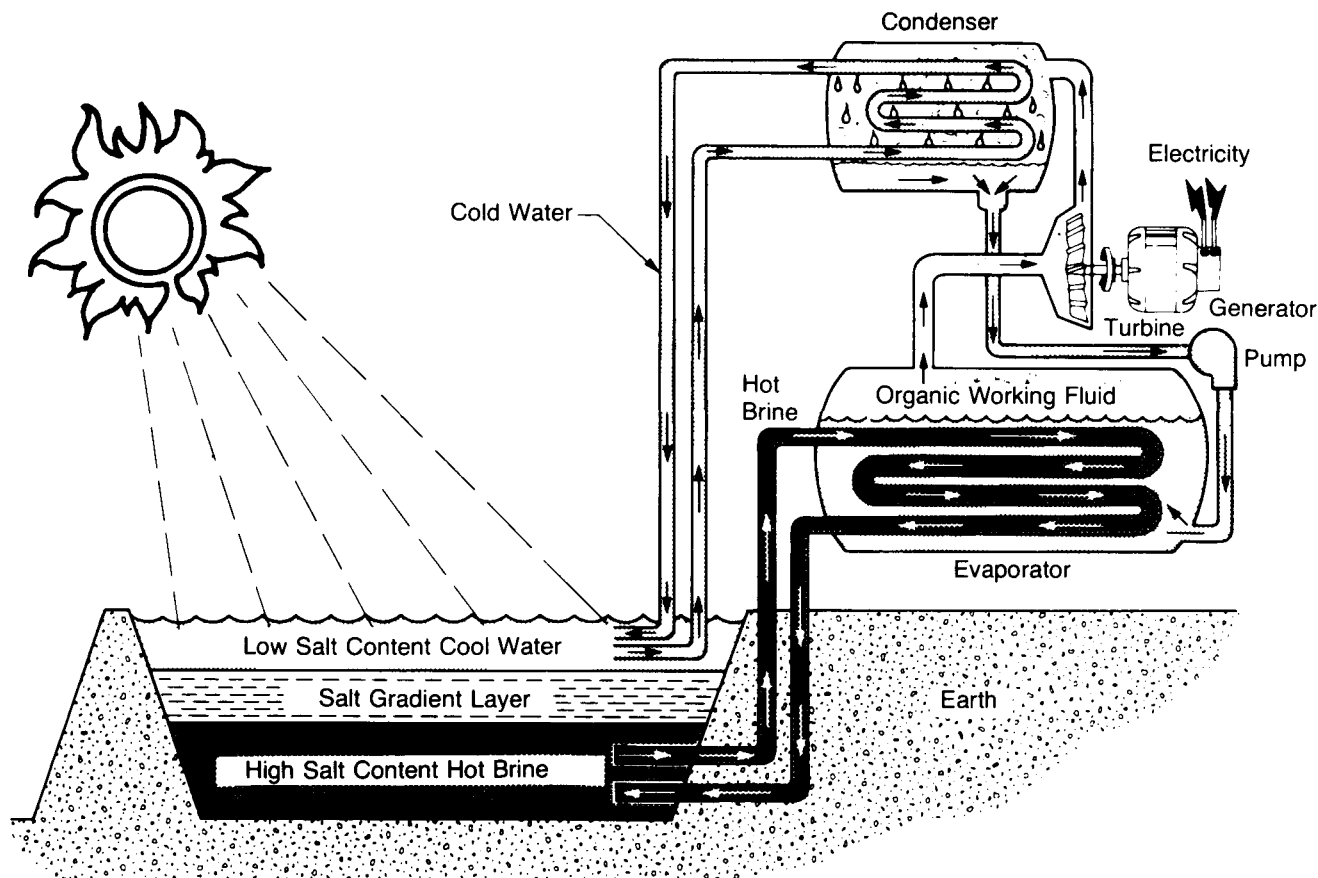
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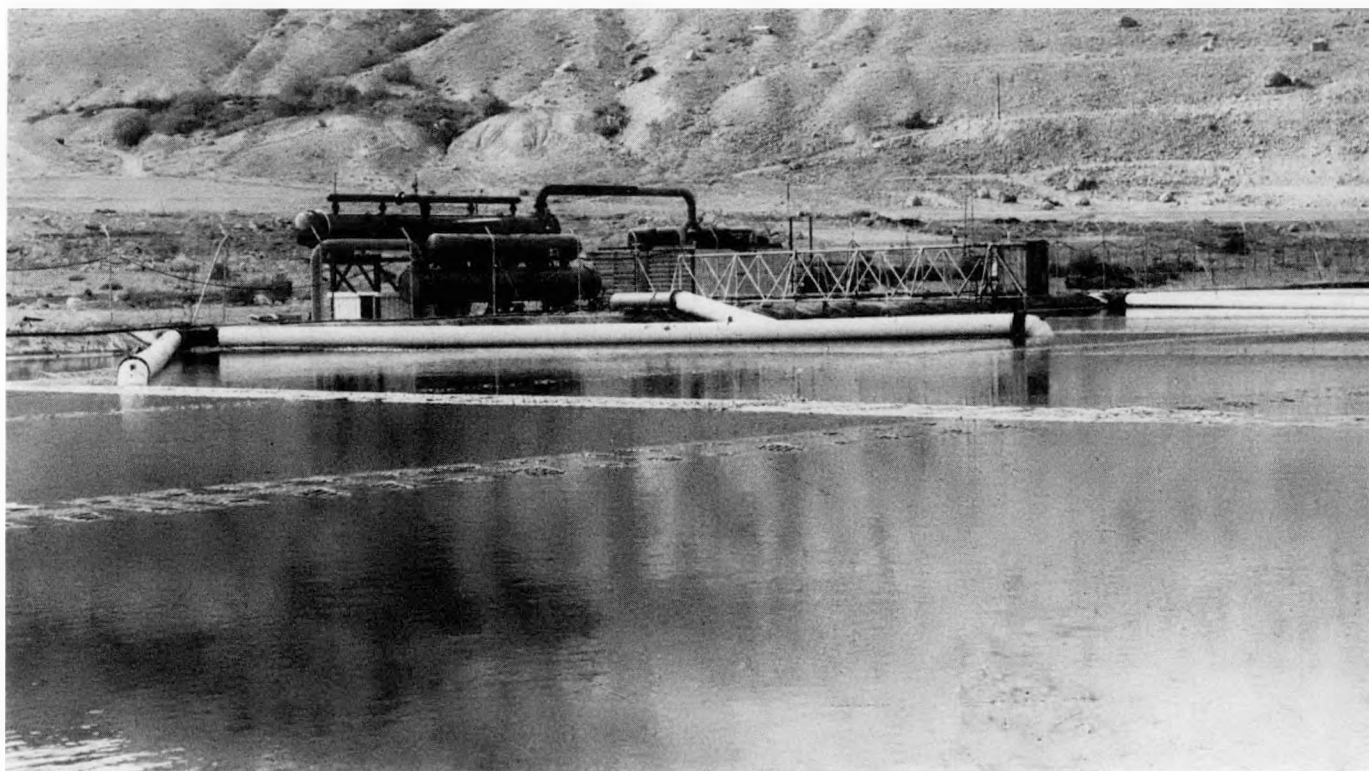
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150-kW Solar Pond Power Plant at Ein Bokek, Israel

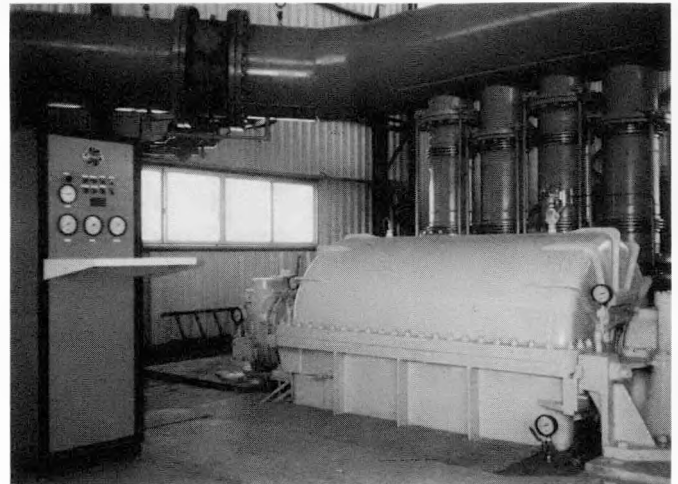
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Electric Power Generating Unit for 5-MW Solar Pond Power Plant at Beit Ha'arava, Israel

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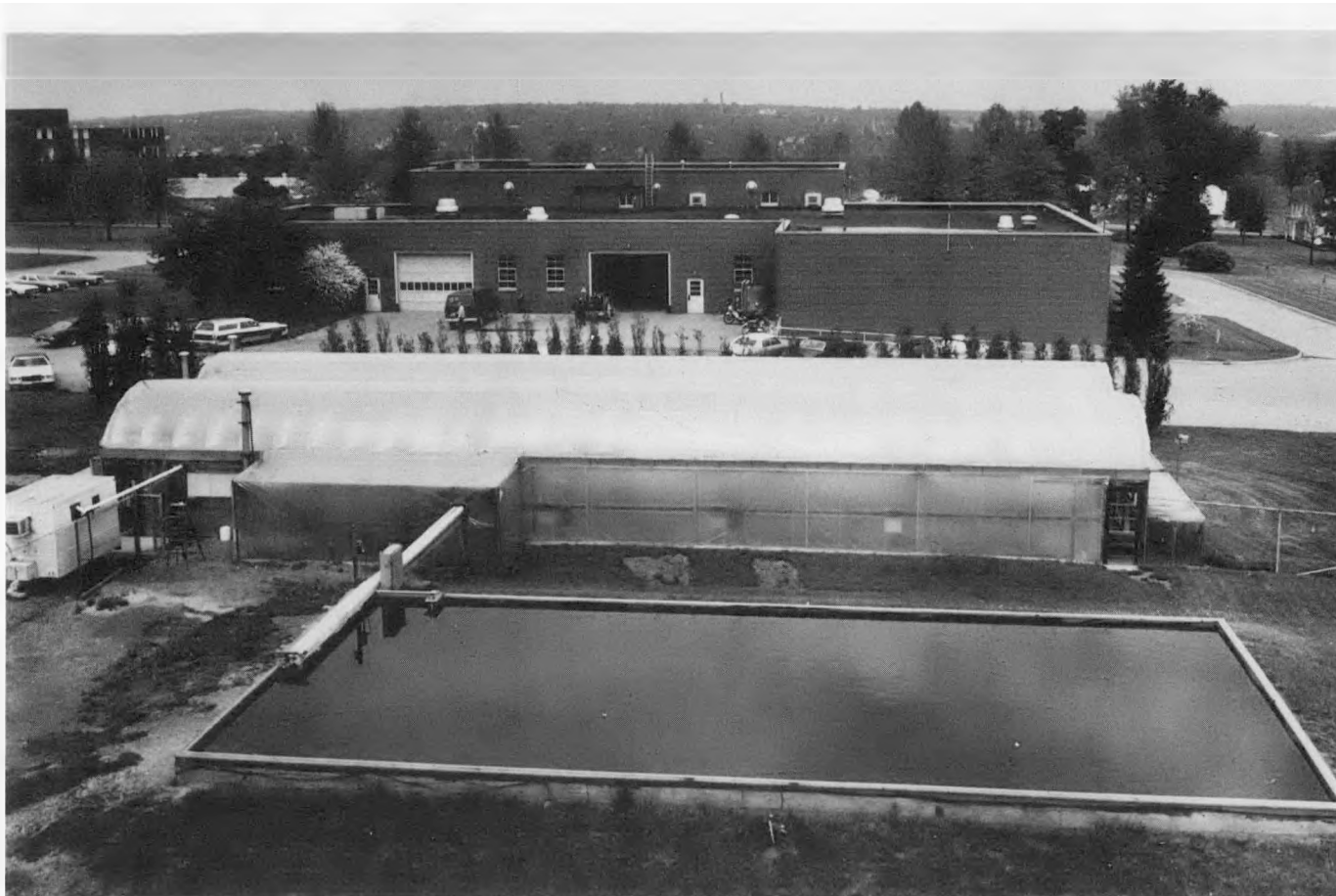
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