



Department of State.

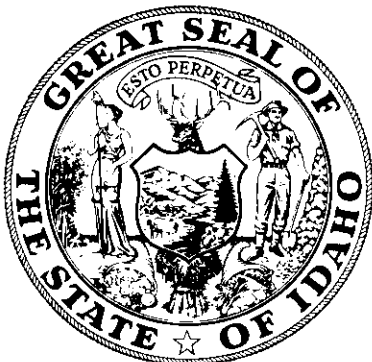
**CERTIFICATE OF AUTHORITY
OF**

Appropriate Technologies Incorporated

I, PETE T. CENARRUSA, Secretary of State of the State of Idaho, hereby certify that duplicate originals of an Application of Appropriate Technologies Incorporated for a Certificate of Authority to transact business in this State, duly signed and verified pursuant to the provisions of the Idaho Business Corporation Act, have been received in this office and are found to conform to law.

ACCORDINGLY and by virtue of the authority vested in me by law, I issue this Certificate of Authority to Appropriate Technologies Incorporated to transact business in this State under the name Appropriate Technologies Incorporated and attach hereto a duplicate original of the Application for such Certificate.

Dated November 1, 19 79



Pete T. Cenarrusa

SECRETARY OF STATE

Corporation Clerk

APPLICATION FOR CERTIFICATE OF AUTHORITY

FILED

To the Secretary of State of Idaho.

10-22-79

9:00
am

Pursuant to Section 30-1-110, **Idaho Code**, the undersigned Corporation hereby applies for a Certificate of Authority to transact business in your State, and for that purpose submits the following statement:

1. The name of the corporation is Appropriate Technologies Incorporated
2. *The name which it shall use in Idaho is Appropriate Technologies Incorporated
3. It is incorporated under the laws of Montana
4. The date of its incorporation is July 23, 1979 and the period of its duration is perpetual
5. The address of its principal office in the state or country under the laws of which it is incorporated is 205 West Main Street, White Sulfur Springs, Meagher County, Montana, 59645
6. The address of its proposed registered office in Idaho is 255 B Street, Idaho Falls, ID, and the name of its proposed

registered agent in Idaho at that address is George L. Smith

7. The purpose or purposes which it proposes to pursue in the transaction of business in Idaho are:

Investigating, Planning, Engineering, Developing, Equipping
application and use of every kind or character of and resource
Constructing and Managing installations related to the practical/

8. The names and respective addresses of its directors and officers are:

Name	Office	Address
Michael E. Grove	Director	205 West Main St. White Sulphur Springs, Montana
R.J. Schultz	Director and President	1142 E. 21st Street Idaho Falls, ID 83401
L.E. Donovan	Director and	East River Road, Idaho Falls, Idaho 83401
**	Board Chairman-Asst. Secretary	

9. The aggregate number of shares which it has authority to issue, itemized by classes, par value of shares, and shares without par value, is: 250,000 shares of class common par value per share .10;

Number of Shares	Class	Par Value Per Share or Statement That Shares Are Without Par Value
250,000	common	.10 cents

** George L. Smith Vice-President and Secretary
 Route 4, Box 475
 Idaho Falls, Idaho

(continued on reverse)

10. The aggregate number of its issued shares, itemized by classes, par value of shares, and shares without par value, is:

Number of Shares	Class	Par Value Per Share or Statement That Shares Are Without Par Value
150,000	common	.10 cents

11. The corporation accepts and shall comply with the provisions of the Constitution and the laws of the State of Idaho.

12. This Application is accompanied by a copy of its articles of incorporation and amendments thereto, duly authenticated by the proper officer of the state or country under the laws of which it is incorporated.

Dated October 11, 19 79.

APPROPRIATE TECHNOLOGIES INC.

By

Its

President

and

Its

Secretary

STATE OF IDAHO)
)ss:
COUNTY OF Bonneville)

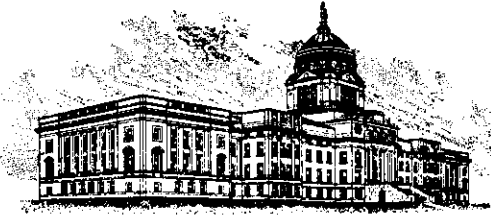
I, TERRY L. CRAPO, a notary public, do hereby certify that on this 11th day of October, 19 79, personally appeared before me R.J. Schultz, who being by me first duly sworn, declared that he is the President of APPROPRIATE TECHNOLOGIES INC.

that he signed the foregoing document as President of the corporation and that the statements therein contained are true.

Terry L. Crapo
Notary Public

*Pursuant to section 30-1-108(b)(1), **Idaho Code**, if the corporation assumes a name other than its true name, this application must be accompanied by a resolution of the Board of Directors to that effect.

Office of the Secretary of State



OF THE STATE OF MONTANA

I, Frank Murray, Secretary of State of the State of Montana, do hereby certify that the annexed is a full, true and correct copy of Articles of Incorporation for

_____ APPROPRIATE TECHNOLOGIES INCORPORATED _____

as received and filed in this office on the 23rd day of July A. D. 1979, with the Certificate issued thereon.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Great Seal of the State of Montana, at Helena, the Capital, this 13th day of September A. D. 1979.

Frank Murray
FRANK MURRAY
Secretary of State

Thomas Tucker
Thomas Tucker
By ~~Richard O. Larson~~
Chief Deputy



Office of the Secretary of State



OF THE STATE OF MONTANA

CERTIFICATE OF INCORPORATION

I, FRANK MURRAY, Secretary of State of the State of Montana, do hereby certify that duplicate originals of Articles of Incorporation for the incorporation of

APPROPRIATE TECHNOLOGIES INCORPORATED

duly executed pursuant to the provisions of Section 35-1-201 of the ~~Montana Code Annotated~~ ^{Revised Codes of Montana}, have been received in my office and are found to conform to law.

NOW, THEREFORE, I, FRANK MURRAY, as such Secretary of State, by virtue of the authority vested in me by law, hereby issue this Certificate of Incorporation to

APPROPRIATE TECHNOLOGIES INCORPORATED

and attach hereto a duplicate original of the Articles of Incorporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Great Seal of the State of Montana, at Helena, the Capital, this 23rd

(GREAT SEAL)

day of July A.D. 19 79

Frank Murray
FRANK MURRAY
Secretary of State

Leonard C. Larson
By LEONARD C. LARSON
Chief Deputy

275052

STATE OF MONTANA

FILED

JUL 23 1979

FRANK MURRAY

SECRETARY OF STATE

By *Samuel W. Brown*
Deputy

ed 240
6.16

ARTICLES OF INCORPORATION
OF
APPROPRIATE TECHNOLOGIES INCORPORATED

THE UNDERSIGNED INCORPORATOR, for the purpose of forming a corporation under the Montana Business Corporation Act, does hereby adopt the following articles of incorporation:

ARTICLE ONE

The name of the corporation is
APPROPRIATE TECHNOLOGIES INCORPORATED.

ARTICLE TWO

The corporation is to exist perpetually.

ARTICLE THREE

The purposes for which this corporation is organized are as follows:

To conduct generally the business of an ENERGY TECHNOLOGY FIRM providing full and complete services to clients in investigating, planning, engineering, developing, constructing, equipping, and managing installations related to the practical application and use of all and every kind or character of energy source and resource, and including particularly energy derived from geothermal and hydro sources.

To provide a means and method of evaluating, examining, financing, leasing, purchasing, selling, promoting, expediting, developing, testing, producing, and marketing inventions, processes, machines, equipment, and any other product or service of any kind or character related to energy development and production; to employ technicians, experts, and engineers and to initiate, direct and supervise their efforts in research, investigations, surveys, and plans related to the practical application and use of any kind and character of energy

source in connection with any enterprise, project, or matter conducted by or under the supervision of this corporation; and to accumulate data and findings and to compile papers, reports, and books based thereon, practical and theoretical, in connection with development and use of energy sources.

To engage in the business of buying, selling, manufacturing, assembling, fabricating, distributing, leasing, installing, servicing, and managing equipment, machinery, fixtures, and other works of improvement related to energy production and use, either as a principal or as an agent or sales representative for other firms, foreign or domestic.

To act as a general contractor in providing machinery, equipment, and all other materials and supplies related to or associated with the production and use of energy in all forms and from all sources, and furnishing, fabricating, installing, repairing, remodeling, and managing the same, including, but not limited to, the drilling and development of water wells or wells having geothermal energy potential, the construction of reservoirs or other works related to the production of hydro energy and the doing of any and all other business and contracting incidental thereto or connected therewith.

To acquire by purchase, lease, exchange, or otherwise, land and interests in land; to own, hold, improve, develop, and manage the same for purposes of producing, developing, using, selling, or making available to others energy from sources in, under, or upon said lands, and for such other corporate purposes as might be incidental or related thereto; and to sell or dispose of the same, in whole or in part, when desirable.

To negotiate for and obtain loans, grants, or other financing from sources, either public or private, for accomplishing any or all of the purposes hereinabove set forth, either for itself, or as an agent or broker for other persons, firms, or corporations.

To carry on any business whatsoever that this corporation may deem proper or convenient in connection with any of the foregoing purposes or otherwise, or that it may deem calculated, directly or indirectly, to improve the interests of this corporation, either alone or in conjunction with other corporations, firms, or

individuals, and to do all things specified in the Montana Business Corporation Act and to have and to exercise all powers now or hereafter conferred by the laws of the State of Montana upon corporations organized pursuant to the laws under which this corporation is organized, and any and all acts amendatory thereof and supplemental thereto.

ARTICLE FOUR

The aggregate number of shares which this corporation shall have authority to issue shall be Two Hundred Fifty Thousand (250,000) shares common stock and which shall be all of the same class; each share shall be of the par value of One Dollar (\$1.00).

ARTICLE FIVE

The address of the corporation's initial registered office is 205 West Main Street, P. O. Box 581, White Sulphur Springs, Meagher County, Montana 59645, and the name of its initial registered agent is Michael E. Grove.

ARTICLE SIX

The number of directors constituting the initial board of directors is three (3), and the names and addresses of the persons who are to serve as directors until the first annual meeting of shareholders or until their successors are elected and qualify are:


<u>Name</u>	<u>Address</u>
Michael E. Grove	P. O. Box 581, White Sulphur Springs, MT 59645
Lawrence E. Johnston	P. O. Box 501, White Sulphur Springs, MT 59645
John V. Potter, Jr.	P. O. Box 629, White Sulphur Springs, MT 59645

ARTICLE SEVEN

The name and address of the incorporator is:

<u>Name</u>	<u>Address</u>
Michael E. Grove	P. O. Box 581, White Sulphur Springs, MT 59645

IN WITNESS WHEREOF, these Articles of Incorporation have been executed in duplicate this 18th day of July, 1979.



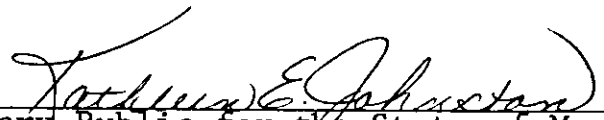
Michael E. Grove

STATE OF MONTANA)
 : ss.
County of Meagher)

On this 18th day of July, 1979, before me, the undersigned, a Notary Public in and for the State of Montana, personally appeared MICHAEL E. GROVE, known to me personally to be the person whose name is subscribed to the foregoing Articles of Incorporation, and acknowledged to me that he executed the same for the purposes set forth therein.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year first above written.

(Seal)
(SEAL)



Notary Public for the State of Montana
Residing at White Sulphur Springs, Mont.
My Commission Expires June 6, 1982

Office of the Secretary of State



OF THE STATE OF MONTANA

I, FRANK MURRAY, Secretary of State of the State of Montana,
do hereby certify that the annexed is a full, true and correct
copy of the Articles of Amendment to the Articles of Incorporation
of

————— APPROPRIATE TECHNOLOGIES INCORPORATED —————
as received and filed in this office on the 5th day of
October, A.D. 1979, with the Certificate issued thereon.

I further certify that the above document does not constitute
all the documents on file in this office for the above corporation.



IN WITNESS WHEREOF, I have
hereunto set my hand and affixed
the Great Seal of the State of
Montana, at Helena, the Capital,
this 9th day of October, A.D.
1979.

Frank Murray
FRANK MURRAY
Secretary of State
Leonard C. Larson
by Leonard C. Larson
Chief Deputy

Office of the Secretary of State



OF THE

STATE OF MONTANA

CERTIFICATE OF AMENDMENT TO CERTIFICATE OF INCORPORATION

I, FRANK MURRAY, Secretary of State of the State of Montana, do hereby certify that duplicate originals of Articles of Amendment to the Articles of Incorporation of

APPROPRIATE TECHNOLOGIES INCORPORATED

duly executed pursuant to the provisions of Section 35-1-209 of the Montana Code Annotated, Revised Codes of Montana, 1947, have been received in my office and found to conform to law.

NOW, THEREFORE, I, FRANK MURRAY, as such Secretary of State, by virtue of the authority vested in me by law, hereby issue this Certificate of Amendment to the Certificate of Incorporation of

APPROPRIATE TECHNOLOGIES INCORPORATED

and attach hereto a duplicate original of the Articles of Amendment to the Articles of Incorporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Great Seal of the State of Montana, at Helena, the Capital, this 5th

(GREAT SEAL)

day of October A.D. 19 79

Frank Murray
FRANK MURRAY

Secretary of State

Leonard C. Larson
Leonard C. Larson

By ~~GAIL M. DeWALT~~
Chief Deputy

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
APPROPRIATE TECHNOLOGIES INCORPORATED

275757
STATE OF MONTANA
FILED
OCT - 5 1979
FRANK MURRAY
SECRETARY OF STATE

By pt \$ 20 Deputy J

Pursuant to the provisions of the Montana Business Corporation Act, the undersigned corporation adopts the following Articles of Amendment to its Articles of Incorporation:

FIRST: The name of the corporation is "Appropriate Technologies Incorporated".

SECOND: The following amendments of the Articles of Incorporation were adopted by the shareholders of the corporation on October 3, 1979, in the manner prescribed by the Montana Business Corporation Act:

1. Article Four of the Articles of Incorporation is amended in its entirety to read as follows:

ARTICLE FOUR

The aggregate number of shares which this corporation shall have authority to issue shall be Two Hundred Fifty Thousand (250,000.00) shares common stock and which shall be all of the same class; each share shall be of the par value of ten cents (\$.10).

THIRD: The number of shares of the corporation outstanding at the time of such adoption was three (3) shares; and the number of shares entitled to vote thereon was three (3) shares. No shares were entitled to vote thereon as a class.

FOURTH: The number of shares voted for such amendment was three (3); and the number of shares voted against such amendment was zero (0).

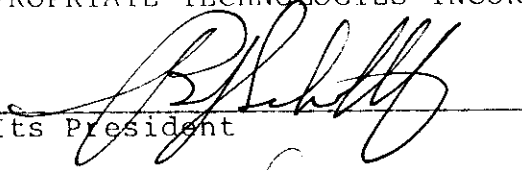
FIFTH: The amendment does not provide for an exchange, reclassification or cancellation of issued shares.

SIXTH: The amendment does effect a change in the amount of stated capital in that the original articles provided for capital of 250,000 shares of \$1.00 par stock for a total stated authorized capital of \$250,000.00. The amendment reduces the par value of the common stock of the corporation to ten cents (\$.10) per share for 250,000 shares for a total stated authorized capital of \$25,000.00.


Dated: October 3, 1979.

APPROPRIATE TECHNOLOGIES INCORPORATED

By


Its President

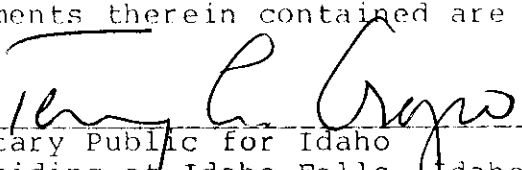
And


Its Assistant Secretary

STATE OF IDAHO)
) ss.
County of Bonneville)

I, Terry L. Crapo, a notary public, do hereby
certify that on this 3rd day of October, 1979,
personally appeared before me R. J. Schultz and Lloyd E.
Donovan, who, being by me first duly sworn, declared that they
are the President and Assistant Secretary, that they signed the
foregoing document as President and Assistant Secretary of the
corporation, and that the statements therein contained are true.

(Seal)



Notary Public for Idaho
Residing at Idaho Falls, Idaho
My Commission Expires: Life

DC-50

Office of the Secretary of State



OF THE STATE OF MONTANA

I, FRANK MURRAY, Secretary of State of the State
of Montana, do hereby certify that on — July 23, 1979 —

— APPROPRIATE TECHNOLOGIES INCORPORATED —

duly filed in this office its Articles of Incorporation
and on said date was created a body politic and corporate.

I further certify that no notice or decree of dis-
solution has been placed on record in this office by
said corporation and that so far as my records indicate
the corporation is in good standing under the laws of
the State of Montana and authorized to transact its
business and conduct its affairs in this State.

IN WITNESS WHEREOF, I have
hereunto set my hand and affixed
the Great Seal of the State of
Montana, at Helena, the Capital,
this — 9th — day of — October —
A.D. 1979 —



Frank Murray
FRANK MURRAY
Secretary of State

Leonard C. Larson
by Leonard C. Larson
Chief Deputy