

DEDICATION OF THE SOLAR PANELS

CHANUKAT HACHASHMAL

GENESIS 1:14-19

LIGHTING OF OLIVE OIL LAMP

וְאָתָה תְּצַוֶּה אֶת־בְּנֵי יִשְׂרָאֵל וְיָקִיחוּ אֵלֶיךָ שֶׁמֶן זַיִת נָךְ
כְּתִית לַמָּאֹר לְהַעֲלֹת נֵר תָּמִיד:

And thou shalt command the children of Israel, that they bring unto thee
pure olive oil beaten for the light, to cause a lamp to burn continually. ---Exodus 27:20

SONG:

YISRAEL V'KUDSHA B'RICH HU V'ORAITA CHAD HU

God-Strivers, and the Blessed Holy One, and Illumination are a Unity.

TORAH ORAH TORAH ORAH, HALLELUYAH !

The Divine Teaching is Light, Halleluyah !

AN ANCIENT APPRECIATION OF THE SUN

From Psalm 19

The heavens declare the glory of God; / Vaulted skies proclaim His handiwork.
Day after day the word goes forth; / Night after night the story is told.

Soundless the speech, voiceless the talk, / Yet there is none who cannot hear.
The tale is echoed over all the earth; / The story resounds to the world's end.

The sun, He tented in the heavens, / Sallies forth like a bridegroom,
Like a bridegroom from his chamber, / Exalting like a powerful runner.

Eager to run the course before Him, / Starting at one end of heaven,
Rounding the circuit to the other, / Nothing can escape its burning heat. ...

The precepts of the Lord are right; / How they gladden the heart!
The command of the Lord is clear; / How it enlightens the eyes! ...

More precious are they than gold, / More priceless than purest gold.
Sweeter they than sweetest honey, / Slowly dripping from the honeycomb.

---Gershon Hadas translation

LIGHTING OF THE BEESWAX CANDLE

SONG: THIS LITTLE LIGHT OF MINE, I'M GONNA LET IT SHINE (3X)
LET IT SHINE, LET IT SHINE, LET IT SHINE.

A MODERN APPRECIATION OF THE SUN

...the sun is the first lover of the world,/ Blessing all humble creatures, all life-giving,
Blessing the end of life and the work done,/ The clean and the unclean, ores in earth, and splendors
Within the heart of man, that second sun. ...

We asked for a sign that we have not been forsaken---
And for answer, the Abraham-bearded Sun, the father of all things,
Is shouting of ripeness over our harvest forever.

O sons of men, the firmament's beloved,/ The Golden Ones of heaven have us in care---
With planetary wisdom, changeless laws,/ Ripening our lives and ruling hearts and rhythms,
Immortal hungers in the veins and heart/ Born from the primal Cause
That keeps the hearts and blood of men and beasts ever in motion...

Fires on the hearth! Fires in the heavens! Fires in the hearts of Men! ...

All the weight of Death in all the world/ Yet does not equal Love---the great compassion
For the fallen dust and all fallen creatures, quickening/ As is the Sun in the void firmament.
It shines like fire. O bright gold of the heat of the Sun
of Love across dark fields---burning away rough husks of Death/ Till all is fire, and bringing all to harvest!

---Edith Sitwell, "Later Poems"

SONG: May the long time sun shine upon you/ All love surround you
And the pure light within you/ Guide your way on.

BLESSING FOR THE WORKS OF CREATION

בְּרוּךְ אַתָּה יְהוָה אֱלֹהֵינוּ מֶלֶךְ הָעוֹלָם, עוֹשֶׂה מַעֲשֵׂה בְּרֵאשִׁית.

Blessed are You, Eternal our God, Sovereign of the Universe, Author of Creation.

ELECTRICITY

THE ANCIENTS

וַאֲרָא וְהִנֵּה לֹחַ סַעֲרָה בָּאָה מִן־
הַצָּפוֹן עָנָן גָּדוֹל וְאֵשׁ מִתְלַקַּחַת וְנִגְהָ לֹו סָבִיב וּמִתּוֹכָהּ בָּעֵין
הַחֲשָׁמַל מִתּוֹךְ הָאֵשׁ:

I looked, and lo, a stormy wind came sweeping out of the north---a huge cloud and flashing fire, surrounded by a radiance; and in the center of it, in the center of the fire, a gleam as of amber.

וַאֲרָא בָּעֵין
חֲשָׁמַל בְּמִרְאֵה־אֵשׁ בֵּית־לָהּ סָבִיב מִמִּרְאֵה מִתְנִיּוֹ וּלְמַעְלָה
וּמִמִּרְאֵה מִתְנִיּוֹ וּלְמַטָּה רְאִיתִי בְּמִרְאֵה־אֵשׁ וְנִגְהָ לֹו סָבִיב:

From what appeared as his loins up, I saw a gleam as of amber---what looked like a fire encased in a frame; and from what appeared as his loins down, I saw what looked like fire.

וַאֲרָא
וְהִנֵּה דְמוּת בְּמִרְאֵה־אֵשׁ מִמִּרְאֵה מִתְנִיּוֹ וּלְמַטָּה אֵשׁ וּמִמִּתְנִיּוֹ
וּלְמַעְלָה בְּמִרְאֵה־זָהָר בָּעֵין הַחֲשָׁמַל:

I looked, and there was a figure that looked like a human being; below what appeared to be its loins it was fire, and above the loins it was like the appearance of brightness, like gleaming amber.

---Ezekiel 1:4, 1:27, 8:2

electric (from Latin electr-um, Greek electrum, amber) 1. Possessing the property (first observed in amber) of developing electricity when excited by friction or other means.

electricity 1. In early use, the distinctive property of 'electric bodies', like amber, glass, etc., i.e., their power when excited by friction, to attract light bodies placed near them.

---The Oxford English Dictionary, Volume V

BLESSING FOR THE WONDER OF ELECTRICITY

בְּרוּךְ אַתָּה יְיָ הוּא אֱלֹהֵינוּ מֶלֶךְ הָעוֹלָם, שֶׁבָּחוֹ וְגִבּוֹרָתוֹ מְלֵא עוֹלָם.

Blessed are You, Eternal our God, Sovereign of the Universe,
whose power and might fill the world.

THROUGH THE AGES

From the writings of Thales of Miletus it appears that Westerners knew as long ago as 600 B.C.E. that amber becomes charged by rubbing. There was little real progress until the English scientist William Gilbert in 1600 described the electrification of many substances and coined the term *electricity* from the Greek word for *amber*. As a result, Gilbert is called the father of modern electricity.

In 1660, Otto von Guericke invented a crude machine for producing static electricity. It was a ball of sulfur, rotated by a crank with one hand and rubbed by the other. Successors, such as Francis Hauksbee, made improvements that provided experimenters with a ready source of static electricity.

Today's highly developed descendant of these early machines is the Van de Graaf generator, which is sometimes used as a **particle accelerator**. Robert Boyle realized that attraction and repulsion were mutual and that electric force was transmitted through a vacuum (c. 1675). Stephen Gray distinguished between conductors and non-conductors (1729). C. F. DuFay recognized two kinds of electricity, which Benjamin Franklin and Ebenezer Kinnersley of Philadelphia later named positive and negative.

Progress quickened again after the Leyden jar was invented in 1745 by Pieter van Musschenbroek. The Leyden jar stored static electricity, which could be discharged all at once. In 1747, William Watson discharged a Leyden jar through a circuit, and comprehension of the current and circuit started a new field of experimentation. ---The Columbia Encyclopedia

Henry Cavendish, Charles A. Coulomb, Luigi Galvani, Alessandro Volta, G. S. Ohm, J. P. Joule, G. R. Kirchhoff, Hans Christian Oersted, Andre Marie Ampere, D. F. Arago, Michael Faraday, Joseph Henry, Hippolyte Pixii, James Clerk Maxwell, Heinrich R. Hertz, Marconi, Lee De Forest, J. J. Thomson, Ernest R. Rutherford, Robert Millikan: these, too, are names we honor.

BLESSING FOR HUMAN WISDOM AND INVENTIVENESS

בְּרוּךְ אַתָּה יְהוָה אֱלֹהֵינוּ מֶלֶךְ הָעוֹלָם, שֶׁנָּתַן מַחְכְּמָתוֹ לְבִשְׂרֵי וָדָם.

Blessed are You, Eternal our God, Sovereign of the Universe,
Who has given of His wisdom to human beings.

BLESSING FOR OUR GOOD FORTUNE

בְּרוּךְ אַתָּה יְהוָה אֱלֹהֵינוּ מֶלֶךְ הָעוֹלָם
שֶׁהַחַיִּינוּ וְקִיַּמְנוּ וְהִגִּיעָנוּ לְזֶמֶן הַזֶּה.

Blessed are You, Eternal our God, Sovereign of the Universe,
Who has given us life, sustained us, and brought us to this occasion.

CLOSING SONG

Here comes the sun (doo doo doo doo)
Here comes the sun, and I say
It's all right

Little darling, it's been a long cold lonely winter
Little darling, it feels like years since it's been here
Here comes the sun
Here comes the sun, and I say
It's all right

Little darling, the smiles returning to the faces
Little darling, it seems like years since it's been here
Here comes the sun
Here comes the sun, and I say
It's all right

Sun, sun, sun, here it comes
Sun, sun, sun, here it comes
Sun, sun, sun, here it comes
Sun, sun, sun, here it comes
Sun, sun, sun, here it comes

Little darling, I feel that ice is slowly melting
Little darling, it seems like years since it's been clear
Here comes the sun
Here comes the sun, and I say
It's all right

Here comes the sun
Here comes the sun, and I say
It's all right
It's all right

---The Beatles

(Ceremony Selected and Arranged by Rabbi Everett Gendler)