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ATTACHMENTS
O-1 City of Boardman Water Rights
O-2 Evidence of the City of Boardman’s Willingness to Provide Water Service
OAR 345-021-0010(1)(o) Information about anticipated water use during construction and operation of the proposed facility. The applicant shall include:

O.1 WATER USE

OAR 345-021-0010(1)(o)(A) A description of the use of water during construction and operation of the proposed facility.

Response: Water will be needed during construction and operation of the Boardman Solar Energy Facility (Facility).

O.1.1 Construction

Construction water use is estimated at approximately 5.4 million gallons over a 9-month construction period under annual average conditions and 9.7 million gallons under worst-case conditions.

- **Dust suppression.** Approximately 9 million gallons of water will be used for dust suppression during Facility construction, assuming worst-case conditions. During an annual average year, 5.4 million gallons or less may be used. This water will be applied via tanker truck in a manner that avoids erosion and subsequent sediment discharge, and is consistent with the best management practices presented in the 1200-C Construction Stormwater National Pollutant Discharge Elimination System Permit (see Attachment I-1 in Exhibit I). The quantity and frequency of water used for dust suppression will be highly dependent on site and seasonal conditions. Generally, the quantity of water used for dust suppression will be 30,000 to 50,000 gallons per day (gpd), when warranted. To conservatively estimate the amount of water used for dust suppression, and provide worst-case dry and dusty conditions, it was assumed that 50,000 gpd of water will be used for 20 days out of each of the 9 months of heavy Facility construction.

- **Drinking and Sanitation.** Less than 50,000 gallons will be for drinking water and portable toilet facilities for construction workers.

- **Concrete.** Approximately 700,000 gallons of water may be required for the temporary batch plant if concrete foundations are used for the steel posts. To conservatively estimate the amount of water for foundations, and provide worst-case dry conditions, it was assumed that 35 gallons of water will be required per each of the 20,000 cubic yards of concrete foundations.

O.1.2 Operations

Once constructed, there will be limited need for water. Operations water use is estimated at approximately 600,000 gallons per year under annual average conditions and 1.1 million gallons per year under worst-case conditions.

- **Office Use.** Water will be used for sinks and toilets at the O&M building. During Facility operations, an estimated two staff members will be employed for O&M activities, and there will be occasional contractors and visitors. Based on a conservative assumption that three people will use the O&M building daily, and based on the standard assumption for commercial office use for each aspect of water usage, the operational water use will be approximately 165 gpd (see Table O-1). This number includes some water for equipment within the O&M building that may be periodically washed down.
Table O-1. O&M Building Water Use During Operations

<table>
<thead>
<tr>
<th>Use</th>
<th>Frequency (occurrences per day)</th>
<th>Consumption (gallons per occurrence)</th>
<th>Total Consumption (gallons per day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sinks</td>
<td>15</td>
<td>2</td>
<td>30</td>
</tr>
<tr>
<td>Toilets</td>
<td>15</td>
<td>4</td>
<td>60</td>
</tr>
<tr>
<td>Equipment washdown</td>
<td>15</td>
<td>5</td>
<td>75</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>165</strong></td>
</tr>
</tbody>
</table>

* Water usage frequency and consumption rates are based on standard commercial facility estimates.

- **Module Washing.** Depending on the effects of solar module dust and dirt on energy production (referred to as soiling), the solar module will be washed. For the purpose of this analysis, it is conservatively assumed that they will be washed twice a year and require 250,000 gallons per wash, for a total of 0.5 million gallons per year. Water will be applied via tanker truck and will not have any cleaning solvents in it. Washwater will be discharged by evaporation and seepage into the ground and will be covered under an Oregon General Water Pollution Control Facilities Permit, WPCF-1700-B, Washwater Discharge from Equipment Cleaning.

### O.2 SOURCES OF WATER

**OAR 345-021-0010(1)(o)(B)** A description of each source of water and the applicant’s estimate of the amount of water the facility will need during construction and during operation from each source under annual average and worst-case conditions.

**Response:** Water for drinking and sanitation (50,000 gallons; worst-case conditions) will be delivered by vendors in five-gallon drinking water containers and in portable toilets and hand-washing stations. For dust suppression and concrete mixing during construction (9.7 million gallons; worst-case conditions) and for module washing during operations (0.5 million gallons; worst-case conditions), the Facility will purchase water from the City of Boardman. The City of Boardman has sufficient domestic water capacity to supply to the Facility (Attachment O-1) and has agreed to manage the water sales through its hydrant meter program (Attachment O-2). Hydrants are located throughout the City of Boardman and a particular one will be assigned as part of the hydrant meter agreement between the City of Boardman and Boardman Solar Energy LLC (Applicant).

The City of Boardman holds the following water rights that authorize the use of water for municipal water use: Certificate 34275, Certificate 91399, and Permit S-40336. Together, these water rights authorize the use of 37.5 cubic feet per second.

The term "municipal water use" means:

> [T]he delivery and use of water through the water service system of a municipal corporation for all water uses usual and ordinary to such systems. Examples of these water uses shall include but are not limited to domestic water use, irrigation of lawns and gardens, commercial water use, industrial water use, fire protection, irrigation and other water uses in park and recreation facilities, and street washing. . . (OAR 690-300-0010(29))
This definition is broad enough to encompass the proposed water use associated with the Facility. The water will be delivered through the water service system of the City of Boardman (a municipal corporation), and the type of use (i.e., commercial or industrial water use) is usual and ordinary to municipal water service systems.

Water for the O&M building will be supplied by a new well. The well will be an exempt use pursuant to OAR 537.545(1)(f) by the Oregon Water Resources Department (OWRD) because it will provide approximately 165 gpd, but in no case more than 5,000 gpd, and the well location will be logged pursuant to Oregon Revised Statute (ORS) 537.765. When the Facility is retired and restored, this well could continue to be used by the property owner for other purposes or be reclaimed.

O.3 WATER LOSSES

OAR 345-021-0010(1)(o)(C) A description of each avenue of water loss or output from the facility site for the uses described in (A), the applicant’s estimate of the amount of water in each avenue under annual average and worst-case conditions and the final disposition of all wastewater.

Response: During construction, water loss will occur primarily through evaporation from wetted road surfaces and from curing concrete. Because of the dry conditions at the Facility and the relatively low rates of water use and application, it is expected that all water used during construction will be lost within or near the Facility site boundary, primarily through evaporation and infiltration. To the extent any water from dust control may drain into the nearby water features (Willow Creek, wetlands, Columbia River) via overland sheet flow, such discharges are authorized by and will comply with the terms of the 1200-C Construction Stormwater Permit. Because of the cost and time involved in transporting water by tank truck to the work site, water used for road compaction and dust suppression will be applied at the minimum rate needed to perform its function. Similarly, water used for concrete mixing will be applied at the mixing rate required to make concrete.

During Facility operations, water use will be for sanitary purposes, with final disposition at the onsite septic field. Stormwater will infiltrate into the ground.

O.4 WATER BALANCE DIAGRAM

OAR 345-021-0010(1)(o)(D) For thermal power plants, a water balance diagram, including the source of cooling water and the estimated consumptive use of cooling water during operation, based on annual average conditions.

Response: The Facility is not a thermal power plant; therefore, this rule does not apply.

O.5 PERMITS OR TRANSFERS REQUIRED

OAR 345-021-0010(1)(o)(E) If the proposed facility would not need a groundwater permit, a surface water permit or a water right transfer, an explanation of why no such permit or transfer is required for the construction and operation of the proposed facility.

Response: As stated in Section O.2, water for the Facility’s construction and module washing during operations will be supplied by the City of Boardman from its domestic water supply system; and no groundwater permit, surface water permit, or water right transfer is needed for these purposes because the City of Boardman already has the permits and water rights to the sources of the water (Attachment O-1).
Water used during operations will be minimal and will qualify as an exempt use under ORS 537.545(1)(f), which allows exempt industrial or commercial uses up to 5,000 gpd. Exempt industrial water uses include drinking, flushing toilets, using sinks, and other general industrial uses. Per Senate Bill 788, the Applicant or its contractor will file material (e.g., map, log, fee) for recording in order to allow OWRD to help identify the supply and availability of groundwater.

**OAR 345-021-0010(1)(o)(F)** If the proposed facility would need a groundwater permit, a surface water permit or a water right transfer, information to support a determination by the Council that the Water Resources Department should issue the permit or transfer of a water use, including information in the form required by the Water Resources Department under OAR Chapter 690, Divisions 310 and 380.

**Response:** This rule is not applicable.

**O.6 MITIGATION MEASURES**

**OAR 345-021-0010(1)(o)(G)** A description of proposed actions to mitigate the adverse impacts of water use on affected resources.

**Response:** One of the environmental benefits of solar energy facilities is that they require minimal water, particularly during operations. Because construction and operation of the Facility will not create any significant impact on water resources, no mitigation is proposed for water use.

**O.7 SUMMARY**

The information provided in this Exhibit demonstrates that Facility construction and operation will not result in significant adverse impacts to water resources. Therefore, the Applicant has satisfied the requirements of OAR 345-021-0010(1)(o).
STATE OF OREGON
COUNTY OF MORROW

CERTIFICATE OF WATER RIGHT

This Is to Certify, That

CITY OF BOARDMAN
DEWEY W. WEST, JR., MAYOR

of P. O. Box 228, Boardman, State of Oregon, has made proof to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of Well No. 1-64,
a tributary of Columbia River (Pacific Ocean) for the purpose of municipal use

under Permit No. G-2664 of the State Engineer, and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from May 20, 1964

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 1.50 cubic foot per second

or its equivalent in case of rotation, measured at the point of diversion from the stream.
The point of diversion is located in the NE 4 SW 4, Section 9, T. 16 N., R. 25 E., W. M.
Well is located North 20° 05' East 2171 feet from the SW Corner, Section 9.
The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to of one cubic foot per second per acre,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.
A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

NE 4 SE 4
Section 8

SW 4 NW 4
SW 4
Section 9
T. 16 N., R. 25 E., W. M.

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed this date. September 13, 1967

....................................................................................
CHRIS L. WHEELER
State Engineer

Recorded in State Record of Water Right Certificates, Volume 26, page 34275
STATE OF OREGON
COUNTY OF MORROW
CERTIFICATE OF WATER RIGHT
FOR PARTIAL PERFECTION

THIS CERTIFICATE ISSUED TO

CITY OF BOARDMAN
PO BOX 229
BOARDMAN OR 97818

confirms the right to the use of water perfected under the terms of Permit S-40336. The amount of water used to which this
right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the
case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed
below.

APPLICATION FILE NUMBER: S-53657
SOURCE OF WATER: COLUMBIA RIVER, A TRIBUTARY OF PACIFIC OCEAN
PURPOSE OR USE: MUNICIPAL USE
MAXIMUM RATE: 12.6 CUBIC FEET PER SECOND
DATE OF PRIORITY: SEPTEMBER 22, 1975

The point of diversion is located as follows:

<table>
<thead>
<tr>
<th>Twp</th>
<th>Rng</th>
<th>Mer</th>
<th>Sec</th>
<th>Q-Q</th>
<th>Measured Distances</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>25</td>
<td>WM</td>
<td>9</td>
<td>NE NW</td>
<td>COLLECTOR 1 - 170 FEET SOUTH AND 2900 FEET WEST FROM NE CORNER, SECTION 9</td>
</tr>
</tbody>
</table>

A description of the place of use is as follows:

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<tr>
<th>Twp</th>
<th>Rng</th>
<th>Mer</th>
<th>Sec</th>
<th>Q-Q</th>
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<tr>
<td>4</td>
<td>25</td>
<td>WM</td>
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<td>SW SE</td>
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<td>WM</td>
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<td>SE SE</td>
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<td>25</td>
<td>WM</td>
<td>8</td>
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</tr>
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<td>4</td>
<td>25</td>
<td>WM</td>
<td>9</td>
<td>SE NE</td>
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</tbody>
</table>

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW
This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075.
Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS
183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for
reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is
taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS
537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally
contest the issuance of the certificate within three months after issuance of the certificate.
<table>
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<tr>
<th>Twp</th>
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<th>Sec</th>
<th>Q-Q</th>
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<td>SW SE</td>
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</tbody>
</table>

The right granted herein is limited to the amount which can be applied to beneficial use and shall not exceed 12.6 CFS measured at the point of diversion from Collector 1.

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described; however, water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3).

This certificate is issued for a partial perfection of Permit S-40336 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered February 24, 2016.

Issued **April 29, 2016**

Dwight French  
Water Right Services Division Administrator, for  
Thomas M. Butler, Director  
Oregon Water Resources Department
To Appropriate the Public Waters of the State of Oregon

I, ______________________, City of Boardman, Oregon (Name of applicant), Boardman, Oregon (Mailing address), do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation _____________________________

1. The source of the proposed appropriation is ___________ Columbia River ______________________, (Name of stream) a tributary of ___________ N.A. ___________.

2. The amount of water which the applicant intends to apply to beneficial use is 36 cubic feet per second 6,600 gpm @ Site No. 1; 4,100 gpm @ Site No. 2; 5,400 gpm @ Site No. 3 (if water is to be used from more than one source, give quantity from each).

3. The use to which the water is to be applied is ___________ Regional water supply for the City of Boardman and surrounding community, (Municipal System) ___________. (Irrigation, power, mining, manufacturing, domestic supplies, etc.)

4. The point of diversion is located ___________ ft. and ___________ ft. from the ___________ See Exhibit B (N. or S.) (E. or W.) (Section or subdivision)

(i.e. preferable, give distance and bearing to section corner)

(if there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the ___________ of Sec. ___________ Tp. ___________ R. ___________ W. M., in the county of ___________ (Give smallest legal subdivision) (N. or S.) (E. or W.)

5. The proposed water transmission pipelines to be 8400 feet length, terminating in the ___________ SW 1/4 NW 1/4 City of Boardman Sec. ___________ Tp. ___________ R. ___________ W. M., the proposed location being shown throughout on the accompanying map.

DESCRIPTION OF WORKS

*See Exhibit C

6. (a) Height of dam ___________ feet, length on top ___________ feet, length at bottom ___________.

feet; material to be used and character of construction ___________ ( Loose rock, concrete, masonry. rock and brush, timber crib, etc., watertight over or around dam)

(b) Description of headgate ___________ (Timber, concrete, etc., number and size of openings)

(c) If water is to be pumped give general description ___________ Water lifted from each caisson to chlorine detention chamber with 2 - 14 inch, 2 stage turbine pumps with vertical 75 HP electric motors (75' T.D.H.)

* A different form of application is provided where storage works are contemplated. Such forms can be secured without charge, together with instructions, by addressing the State Engineer, Salem, Oregon 97302.

3775
Canal System or Pipe Line—
7. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) ____________ feet; width on bottom ____________ feet; depth of water ____________ feet; grade ____________ feet fall per one thousand feet.
(b) At ____________ miles from headgate: width on top (at water line) ____________ feet; width on bottom ____________ feet; depth of water ____________ feet; grade ____________ feet fall per one thousand feet.
(c) Length of pipe, ____________ ft.; size at intake, ____________ in.; size at ____________ ft. from intake, ____________ in.; size at place of use ____________ in.; difference in elevation between intake and place of use, ____________ ft. Is grade uniform? Generally, ____________ Yes ____________ No. Estimated capacity, ____________ sec. ft.

8. Location of area to be irrigated, or place of use ____________ lawn and yard irrigation only

<table>
<thead>
<tr>
<th>Township No. of Sec.</th>
<th>Range E. or W. of Willamette Meridian</th>
<th>Section</th>
<th>Forty-acre Tract</th>
<th>Number Acres To Be Irrigated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>*See Attachment for Item 8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) Character of soil ____________ sandy with intermixed gravels
(b) Kind of crops raised ____________ lawns - gardens

Power or Mining Purposes—
9. (a) Total amount of power to be developed ____________ theoretical horsepower.
(b) Quantity of water to be used for power ____________ sec. ft.
(c) Total fall to be utilized ____________ feet.
(d) The nature of the works by means of which the power is to be developed ____________
(e) Such works to be located in ____________ of Sec. ____________ (Legal subdivision)

Tp. ____________ R. ____________ W. M.  
(No. N. or S.) (No. E. or W.)
(f) Is water to be returned to any stream? ____________ (Yes or No)  
(g) If so, name stream and locate point of return ____________

Sec. ____________ Tp. ____________ R. ____________ W. M.  
(No. N. or S.) (No. E. or W.)
(h) The use to which power is to be applied is ____________
(i) The nature of the mines to be served ____________
IRRIGATED AREA IN COMPREHENSIVE PLAN AREA

LAWNS AND OPEN SPACE ONLY

ALL IN TOWNSHIP 4 N, RANGE 25 E W.M., MORROW COUNTY, OREGON

<table>
<thead>
<tr>
<th>Section</th>
<th>1/16 Quarter</th>
<th>Acreage</th>
<th>Section</th>
<th>1/16 Quarter</th>
<th>Acreage</th>
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<tr>
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TOTAL 1,470 acres

RECEIVED
SEP 22 1975
WATER RESOURCES DEPT.
SALEM, OREGON
The points of construction for each water collector from the Northeast corner of Section 9, Twp. 4 N, Range 25 E W.M. are as follows:

**WATER COLLECTOR SITE NO. 1**

S 86° 04' W - 2891 feet  
Located in the NE \( \frac{1}{4} \) NW \( \frac{1}{4} \) of Section 9  

Ground Elevation (MSL)  
269 ft.

**WATER COLLECTOR SITE NO. 2**

S 78° 38' W - 3926 feet  
Located in the NW \( \frac{1}{4} \) NW \( \frac{1}{4} \) of Section 9  

269 ft.

**WATER COLLECTOR SITE NO. 3**

S 72° 01' W - 4630 feet  
Located in the NW \( \frac{1}{4} \) NW \( \frac{1}{4} \) of Section 9  

269 ft.

All of the above sites are located in Section 9, Twp. 4 N, Range 25 E, W.M. in Morrow County, Oregon.

**Application No.** 53657  
**Permit No.** 46336
Municipal or Domestic Supply—

10. (a) To supply the city of Boardman (Boardman Regional Water Supply) in Morrow County, having a present population of 650 and an estimated population of 4,000 in 1995.

(b) If for domestic use state number of families to be supplied

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, $1,800,000.00

12. Construction work will begin on or before November, 1975

13. Construction work will be completed on or before November, 1976 for initial collector at Site 1, chlorination facility and transmission lines

14. The water will be completely applied to the proposed use on or before January, 1977


Remarks: The three proposed water collectors shall be constructed in three stages with the construction of the first water collector at Site Number 1, chlorination facility and primary transmission lines to begin in the fall of 1975.

The water collectors, chlorination facility and transmission lines shall be constructed of sufficient capacity to provide a Regional Water Supply for the Boardman area, including a municipal supply for the City of Boardman and an industrial and domestic water supply for industrial tenants at the Port of Morrow Industrial Park.

The land on which the water collectors and portions of the transmission lines are located is under the jurisdiction of the U.S. Army Corps of Engineers. The City of Boardman is currently negotiating with the Corps for a long term lease of the required lands.

STATE OF OREGON,
County of Marion,

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before 19.

WITNESS my hand this day of , 19.


STATE ENGINEER

By ASSISTANT
STATE OF OREGON,
County of Marion,

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 36.0 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Columbia River.

The use to which this water is to be applied is municipal purposes.

If for irrigation, this appropriation shall be limited to of one cubic foot per second or its equivalent for each acre irrigated.

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The priority date of this permit is September 22, 1975.

Actual construction work shall begin on or before May 17, 1977 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1978.

Complete application of the water to the proposed use shall be made on or before October 1, 1979.

Witness my hand this 17th day of May, 1976.

[Signature]
WATER RESOURCES DIRECTOR
Attachment O-2
Evidence of the City of Boardman’s Willingness to Provide Water Service
Hello, Jackie forwarded your email to me. Yes we could provide you with the water for your project. We have a fire hydrant on NE Front St. that contractors use a lot. It is about the closest one to the freeway and has plenty of room to get the trucks away from traffic. When you are ready to start you would set up an account with Jackie and then we would put the meter on the hydrant that is assigned to you. I’ve attached the link to our website where you can read about our Hydrant Meter Program. At the bottom of that page is the Agreement you’ll need to fill out to get started. [http://www.cityofboardman.com/publicworks/page/hydrant-meter-program](http://www.cityofboardman.com/publicworks/page/hydrant-meter-program).

Any questions please don’t hesitate to contact me. Thank you.

Kevin Kennedy  
Public Works Director  
City of Boardman  
kennedyk@cityofboardman.com  
PH-541-481-9252  
Fax-541-481-3244

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Laura,

I’ve forwarded your email to our Public Works Director, Kevin Kennedy. One of us will be getting back to you soon.

Thank you,

Jackie McCauley
Utility Clerk
City of Boardman
P.O. Box 229/ 200 City Center Circle
Boardman, Oregon 97818
541.481.9252

Hi Jackie -

I’m looking for a bulk water source for a solar energy project that my company is developing and planning to construct in 2019. The project is to be located in the northwest corner of Morrow County and outside Boardman city limits. We expect that construction, primarily for dust suppression, will require approximately 10 million gallons over 9 months, and after that 1-2 washings per year will take 0.5 million gallons. Our water trucks could fill up from your closest available meter.

Could you please tell me if you’re the right contact for this? And if so, would the City of Boardman be able/willing to be our source?

Laura Miner | Senior Business Development Manager
Invenergy LLC | Portland OR
lminer@invenergyllc.com | 503-964-8900

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