Marin Clean Energy
Technical Committee Meeting
Monday, July 14, 2014
9:00 A.M.

San Rafael Corporate Center, Boro Room
750 Lindaro Street, San Rafael, CA 94901

Agenda

1. Board Announcements (Discussion)

2. Public Open Time (Discussion)

3. Report from Executive Officer (Discussion)

4. Approval of 6.9.14 Meeting Minutes (Discussion/Action)

5. Presentation from SunFolding on Solar Tracking System Technology (Discussion)

6. Update from EDF on 23MW Solar Development Project (Discussion)

7. Resource Adequacy and Flexible Capacity Requirements (Discussion)

8. Members & Staff Matters (Discussion)

9. Adjourn

Agenda material can be inspected in the Marin County Sheriff’s lobby, located at 3501 Civic Center Drive, San Rafael, CA 94903. The meeting facilities are in accessible locations. If you are a person with a disability and require this document in an alternate format (example: Braille, Large Print, Audiotape, CD-ROM), you may request it by using the contact information below. If you require accommodation (example: ASL Interpreter, reader, note taker) to participate in any MCE program, service or activity, you may request an accommodation by calling (415) 464-6032 (voice) or 711 for the California Relay Service or by e-mail at djackson@mceCleanEnergy.org not less than four work days in advance of the event.
Roll Call
Present: Kate Sears, County of Marin, Chair
        Ray Withy, City of Sausalito
        Ford Greene, Town of San Anselmo
        Kevin Haroff, Town of Larkspur

Absent: Emmett O’Donnell, Town of Tiburon
        Carla Small, Town of Ross

Staff: Dawn Weisz, Executive Officer
       Beckie Menten, Energy Efficiency Director
       Emily Goodwin, Director of Internal Operations
       Kirby Dusel, Technical Consultant

Action taken:

Agenda Item #4 – Approval of Minutes from 5.12.14 Meeting (Discussion/Action)

M/s Haroff/Greene (passed 4-0) approval of minutes from 5.12.14 meeting. Directors O’Donnell and Small were absent.

________________________________________________________
Kate Sears, Chair

ATTEST:

________________________________________________________
Dawn Weisz, Executive Officer
Leila Madrone – CEO

Masters, MIT. Over 10 years of industry experience. Led the commercialization of NASA’s Gigapan technology.

Gwen Rose – Project Market Strategy and Operations

Former director of strategy and operations at Vote Solar working on campaigns designed to bring solar to scale. Prior to Vote Solar, Gwen worked on Marin County’s solar and climate protection programs.

Dr. Saul Griffith – CEO, Otherlab

PhD, MIT. Experienced entrepreneur and inventor in the energy space. Founded Makani Power, Wattzon, Squid Labs, Otherlab, Instructables, Optiopia.
Tracked systems produce more electricity at valuable peak hours of the day, when non-tracked systems would typically drop off in production.

**Graph:**
- **Title:** Tracked vs. Untracked Energy Output
- **Location:** Sacramento, July 24th
- **Legend:**
  - Blue line: Tracked
  - Red line: Untracked
  - Light blue area: PG&E peak energy rates

**Axes:**
- Y-axis: Energy (in kWh)
- X-axis: Time (in Hours)
Solar tracking hasn’t been widely adopted. Why?

- HEAVY
- COMPLEX
- LABOR
- INTENSIVE

In other words…expensive
Sunfolding’s system is manufactured with high-performance plastics for scalable, reliable systems.

- High strength plastics (10x higher than steel by weight)
- Materials suited for 30 year lifetimes in harsh environments

Same process and cost as standard water bottles
System engineering is simple and robust – scalable layout and non-penetrating mount make for low-cost installation and O&M

**Scalable layout:**
- One controller for up to 100 trackers
- Scales well for large fields

**Non-penetrating mount:**
- Low-profile, pre-fabbed, low weight
- Ballasted mounting for any surface
- Site disruption is minimized
Quarterly Progress Report

By:
Cottonwood Solar, LLC
c/o EDF Renewable Development, Inc.
4000 Executive Blvd., Suite 100
San Ramon, CA 94583
Project Site Locations: Marin, Kern and Kings Counties
Project Technology: Solar Photovoltaic
Capacity (MW): 24 MWac

On:
June 30th, 2014

For quarter of:
Quarter 2 2014

Provided to:
Marin Clean Energy (“Buyer”)
1. EXECUTIVE SUMMARY

Please include a brief summary of activities completed in the following key areas. In each area please address specific activities performed or completed from contract inception to report date as well as major activities planned for next quarter:

**Project Summary & Background**

EDF Renewable Energy’s Cottonwood Solar project with Marin Clean Energy (MCE) provides for point of interconnection delivery of 1 MW of solar photovoltaic project (or projects) developed within Marin County and 23 MW of solar photovoltaic projects developed located in Kings and Kern counties.

Marin Clean Energy and EDF Renewable Energy executed a PPA amendment on 12/11/2013 to reduce the project capacity from 31MW to 24 MW. The GCOD is March 29th, 2015. Pursuant to the PPA Amendment, Gooselake was selected to remain at 12 MWac and the City of Corcoran site will be reduced to 11MWac. The Elk Hills project was removed from the Cottonwood Solar, LLC project entirely.

Permitting and interconnection agreements for the two ground-mount sites are complete. For the 1MW carport site in Marin, lease terms have been agreed upon by both parties for the leading site. The executed lease will be required prior to submittal of the interconnection application. The interconnection application has been prepared and ready once the lease is executed. Lease execution is expected soon as EDF-RE continues to work with the Lessor and its Lenders.

1.1. Permitting and Governmental Approvals

<table>
<thead>
<tr>
<th>Site</th>
<th>County</th>
<th>Output (MW ac)</th>
<th>Permit Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Corcoran</td>
<td>Kings</td>
<td>11</td>
<td>Complete</td>
</tr>
<tr>
<td>Gooselake</td>
<td>Kern</td>
<td>12</td>
<td>Complete</td>
</tr>
<tr>
<td>Local Carport</td>
<td>Marin</td>
<td>1</td>
<td>Pending</td>
</tr>
</tbody>
</table>

EDF-RD has continued to minimize potential impacts to sensitive species on or near the project sites. Specifically, EDF-RD has contracted an Environment Monitoring Firm to perform site monitoring. The City of Corcoran site, which was identified as a potential habitat for Burrowing Owls was monitored for any active Burrowing Owls. After ensuring no Burrowing Owls were on site, Burrow Blocker technology was used to safely fill future potential habitats ensuring no Burrowing Owls will be on site during construction. It is now anticipated that Construction will occur outside of the breeding season posing less of a risk to Burrowing Owls.

CAISO has assigned the below Internal ISO Numbers (i.e. project tracking number):
- Corcoran City: 14GEN767
- Goose Lake: 14GEN831
EDF-RD is awaiting assignment of the CAISO Resource IDs. EDF-RD continues to manage the CAISO New Resource Implementation process and have submitted the necessary deliverables under Bucket 1 while continuing to work on Bucket 2.

1.2. Design and Engineering

**Carport**: Initial site designs have been performed and will be included in the RFP process. The current carport design for proposed lease site is optimized to maximize the annual energy production and DC capacity in a non-standard “curved” configuration of the parking lot. The design with 5° tilt and varying carport azimuths allows us to minimize losses and maximize capacity. Using high efficiency modules and DC optimizers are also being considered. The final design is subject to change by the EPC.

The RFP for procurement of the Carport EPC firm has been delayed due to the outstanding lease negotiations with the project site in Marin County. The RFP will be launched to a shortlist of bidders as soon as the land rights are properly secured.

EDF plans to include the below language promoting local hiring in the RFP:

“**EDF Renewable Energy values and supports the local and diverse hiring practices. This can be part of community development and job partnerships, hiring/subcontracting local and diverse (MWDV) owned businesses, and use of prevailing wages and/or labor agreements. Please provide a brief statement of your local and diverse hiring practices, use or proposed use of prevailing wages and/or labor agreements, relevant experiences, and/or proposed local and diverse hiring for this proposal, if applicable. While this is not a mandatory requirement, such a statement will be considered in the selection process.”**

**Goose Lake & City of Corcoran**: First Solar Electric (California), Inc. (First Solar) has been providing services under the Turnkey EPC that was executed on March 18, 2014. In Q2 2014, the EPC Contractor has performed the following activities:
- Completed 30% Design (Civil & Balance of System).
- Commence building permitting process by submitting Issue for Permit Designs to the respective agencies.

In Q3 2014, the EPC Contractor is expected to complete:
- Finalize Issue For Permit Design Package
- Obtain Grading Permits
- Site Mobilization for City of Corcoran

1.3. Interconnection

<table>
<thead>
<tr>
<th>Site</th>
<th>County</th>
<th>Output (MW ac)</th>
<th>SGIA Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Corcoran</td>
<td>Kings</td>
<td>11</td>
<td>Executed</td>
</tr>
<tr>
<td>Gooselake</td>
<td>Kern</td>
<td>12</td>
<td>Executed</td>
</tr>
<tr>
<td>Local Carport</td>
<td>Marin</td>
<td>1</td>
<td>Application pending</td>
</tr>
</tbody>
</table>
EDF-RE entered an EPC Agreement with Contra Costa Electric, Inc. (“CCE”) for the construction of the City of Corcoran gen-tie line on April 23, 2014. CCE is a signatory to the local International Brotherhood Of Electrical Workers union which will provide local labor to assist in building the gen-tie line.

- In Q2 2014, CCE performed the following activities:
  - Mobilized the week of 5/12 and set up the laydown yard on the corner of Nevada Avenue & 5th for start of construction for the gen-tie.
  - The Kings County Encroachment permit for the Gen-Tie was successfully pulled on 5/20.
  - Work on setting the vaults and conduit for the gen-tie commenced.
- In Q3 2014, CCE is expected to perform the following:
  - Finalize all underground and overhead work for the gen-tie.
  - Gen-tie mechanical and Substantial Completion.

1.4. Financing

EDF-RE is currently in discussions with potential cash equity acquirers, pursuant to which EDF proposes to sell 50% or more of the equity interests in Cottonwood.

1.5. Major Equipment Procurement

First Solar has begun procuring Long Lead items.

1.6. Construction

FSLR will be mobilizing for City of Corcoran in Q3 2014. First Solar has entered a Work Site Agreement with IBEW Local Union 100 and Ironworkers Local 155 for construction of Goose Lake and City of Corcoran.

1.7. Startup Testing and Commissioning

No pending activity
## 2. PROJECT SCHEDULE

See attached Project Schedule for more detail.

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Scheduled Date of Completion</th>
<th>Revised Scheduled Date of Completion (If Necessary)</th>
<th>Actual Completion Date</th>
<th>Status/Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Permitting</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Goose Lake</td>
<td></td>
<td></td>
<td></td>
<td>Permit received</td>
</tr>
<tr>
<td>• City of Corcoran</td>
<td>Completed</td>
<td>6/29/2010</td>
<td>Permit received</td>
<td></td>
</tr>
<tr>
<td>• Marin Carport</td>
<td>See note</td>
<td></td>
<td>Awaiting executed lease/land control</td>
<td></td>
</tr>
<tr>
<td><strong>Design and Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Initial site layouts</td>
<td>Completed</td>
<td>Completed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 30% Design Submission</td>
<td></td>
<td></td>
<td>June, 2014</td>
<td></td>
</tr>
<tr>
<td>• Issue For Permit Design Package</td>
<td>July, 2014</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Interconnection</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Interconnection application – 1 MW</td>
<td>August 2012</td>
<td>July 2014</td>
<td>Awaiting executed lease/ required land control</td>
<td></td>
</tr>
<tr>
<td>• Final facility study – 1 MW</td>
<td>January 2013</td>
<td>July 2014</td>
<td>Updated to reflect new start of studies</td>
<td></td>
</tr>
<tr>
<td>• Marin Clean Energy makes PIRP status decision</td>
<td>See note</td>
<td></td>
<td>Marin Clean Energy determination</td>
<td></td>
</tr>
<tr>
<td>• CEC pre-certifications</td>
<td>See note</td>
<td></td>
<td>Received.</td>
<td></td>
</tr>
<tr>
<td>Milestone</td>
<td>Scheduled Date of Completion</td>
<td>Revised Scheduled Date of Completion (If Necessary)</td>
<td>Actual Completion Date</td>
<td>Status/Progress</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------</td>
<td>-----------------------------------------------------</td>
<td>------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Financing</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Identify financing</td>
<td></td>
<td></td>
<td></td>
<td>Discussions with potential equity buyers initiated.</td>
</tr>
<tr>
<td>requirements</td>
<td></td>
<td>June 2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Execute MOU</td>
<td>July 2014</td>
<td>July 2014</td>
<td></td>
<td>Likely party identified. MOU to be executed.</td>
</tr>
<tr>
<td>• Conclude negotiations</td>
<td>See note</td>
<td></td>
<td></td>
<td>Transaction timing TBD.</td>
</tr>
<tr>
<td><strong>Equipment Procurement</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Develop and circulate</td>
<td>May 2013</td>
<td>May 5(^{th}), 2013</td>
<td></td>
<td>Turnkey EPC RFP bid packages circulated to short-listed bidders.</td>
</tr>
<tr>
<td>bid packages</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Contractor selection</td>
<td>June 2013</td>
<td>March 3(^{rd}), 2014</td>
<td></td>
<td>TSA executed on 3/3/2014 while EPC contract was finalized.</td>
</tr>
<tr>
<td>• Equipment selection</td>
<td>June 2013</td>
<td>March 3(^{rd}), 2014</td>
<td></td>
<td>EPC contract is turnkey solution.</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Site mobilization, worker</td>
<td>Sept. 2013</td>
<td>Sept. 2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>training</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Site de-mobilization</td>
<td>April 2014</td>
<td>February 2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Startup/Testing/Commissioning</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Communications testing</td>
<td>Feb. 2014</td>
<td>Dec. 2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Preliminary operations</td>
<td>Feb. 2014</td>
<td>Feb. 2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Commissioning</td>
<td>March 2014</td>
<td>March 2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Milestone</td>
<td>Scheduled Date of Completion</td>
<td>Revised Scheduled Date of Completion (If Necessary)</td>
<td>Actual Completion Date</td>
<td>Status/Progress</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------------------------------</td>
<td>----------------------------------------------------</td>
<td>------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Key Contract Dates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Determination to proceed</td>
<td>Nov. 2012</td>
<td>Nov. 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Provides development security</td>
<td>Nov. 2012</td>
<td>Nov 5, 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Designate facilities to construct</td>
<td>May 15, 2013</td>
<td>May 15, 2013</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Completion of CAISO studies</td>
<td>July 1, 2013</td>
<td>October 2, 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Start of construction</td>
<td>Sept. 1, 2013</td>
<td>Sept. 1, 2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Commercial Operation Date</td>
<td>March 31, 2014</td>
<td>March 29th, 2015</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## PERMITTING AND GOVERNMENTAL APPROVALS

### 3.1. Environmental Review – Kern County Project, Goose Lake (completed)

<table>
<thead>
<tr>
<th>Lead Agency</th>
<th>Kern County, California</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of application/submission</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Date application/submission deemed complete by agency</td>
<td>8/31/2011 (expected / actual)</td>
</tr>
<tr>
<td>Date of initial study</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Process (e.g., Notice of Exemption, Negative Declaration, Mitigated Negative Declaration, Environmental Impact Report)</td>
<td>Conditional Use Permit with EIR</td>
</tr>
<tr>
<td>Date of Notice of Preparation</td>
<td>8/31/2011 (expected / actual)</td>
</tr>
<tr>
<td>Date of Draft Negative Declaration – Mitigated Negative Declaration - Environmental Impact Report</td>
<td>8/31/2011 (expected / actual)</td>
</tr>
<tr>
<td>Date Notice of Determination filed at CA Office of Planning and Research or County Clerk</td>
<td>12/8/2011 (expected / actual)</td>
</tr>
</tbody>
</table>

### Environmental Review Kings County Project, City of Corcoran (completed)

<table>
<thead>
<tr>
<th>Lead Agency</th>
<th>City of Corcoran, California</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of application/submission</td>
<td>9/7/2012 (expected / actual)</td>
</tr>
<tr>
<td>Date application/submission deemed complete by agency</td>
<td>10/9/2012 (expected / actual)</td>
</tr>
<tr>
<td>Date of initial study</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Process (e.g., Notice of Exemption, Negative Declaration, Mitigated Negative Declaration, Environmental Impact Report)</td>
<td>Notice of Exemption</td>
</tr>
<tr>
<td>Date of Notice of Preparation</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Date of Draft Negative Declaration – Mitigated Negative Declaration - Environmental Impact Report</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Date Notice of Determination filed at CA Office of Planning and Research or County Clerk</td>
<td>6/29/2010 (expected / actual)</td>
</tr>
</tbody>
</table>

### Environmental Review – Marin County Carport Project (pending negotiation outcome)

<table>
<thead>
<tr>
<th>Lead Agency</th>
<th>tbd, (in Marin, County California)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of application/submission</td>
<td>2/14/2014 (expected / actual)</td>
</tr>
<tr>
<td>Date application/submission deemed complete by agency</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Date of initial study</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Process (e.g., Notice of Exemption, Negative Declaration, Mitigated Negative Declaration, Environmental Impact Report)</td>
<td>building, grading, electrical and other permits as needed</td>
</tr>
<tr>
<td>Date of Notice of Preparation</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Date of Draft Negative Declaration – Mitigated Negative Declaration - Environmental Impact Report</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
<tr>
<td>Date Notice of Determination filed at CA Office of Planning and Research or County Clerk</td>
<td><strong>/</strong>/____ (expected / actual)</td>
</tr>
</tbody>
</table>
1.1. Federal, State, Regional, County or Local Governmental Approvals/Permits*

*County and local permits encompass state and Federal requirements, including mitigation provisions.

<table>
<thead>
<tr>
<th>Required Approval/Permit (list all that are applicable)</th>
<th>Agency</th>
<th>Status Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encroachment Permits</td>
<td>CalTrans, Kings County, City of Corcoran, Kern County</td>
<td>Issued 5/20/2014.</td>
</tr>
<tr>
<td>SWPPP</td>
<td>State Water Resource Control Board</td>
<td>Issued Q2 2014.</td>
</tr>
<tr>
<td>Building Permits</td>
<td>City of Corcoran, Kern County</td>
<td>Pending final design</td>
</tr>
<tr>
<td>Grading Permits</td>
<td>City of Corcoran, Kern County</td>
<td>Pending final design</td>
</tr>
</tbody>
</table>
2. INTERCONNECTION AND TRANSMISSION

2.1. CAISO Queue Position for Ground Mount Projects

PG&E SGIP process, not CAISO; only involves CAISO as part of the One Time Deliverability Assessment Study Report. Phase 1 and Phase 2 reports have been received, please see attached. Studies completed to date.

All System Impact and Facility Studies are complete. All ground mount projects have signed interconnection agreements. Completion dates below.

- City of Corcoran System Impact Study: 8/2010
- City of Corcoran Facility Report: 7/3/2012
- Goose Lake System Impact Study: 10/2010
- Goose Lake Facility Report: 5/25/2012
- Corcoran Irrigation District System Impact Study: 9/2010
- Corcoran Irrigation District Facility Study Report: 7/11/2012

2.2. Other interconnection activities recently performed

PG&E continues on the design and engineering phase in consultation with EDF-RE for the PG&E design/build for the Goose Lake Project. PG&E physical work has commenced at the Goose Lake substation. CCE constructing City of Corcoran Gen-Tie Line.

Interconnection activities expected during the current month

Continue to work with PG&E transmission on the design and engineering phase.

Submittal of Marin County project’s interconnection application once the executed lease is received.

3. DESIGN and ENGINEERING

<table>
<thead>
<tr>
<th>Responsible Organization (e.g. Seller, EPC Contractor, Subcontractor)</th>
<th>Primary Responsibility/Activity</th>
<th>Expected Date of Completion</th>
<th>Revised Expected Date of Completion</th>
<th>Actual Date of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Solar</td>
<td>Submit 30% Design (Civil Only)</td>
<td>4/20/2014</td>
<td>Q2 2014</td>
<td></td>
</tr>
<tr>
<td>First Solar</td>
<td>Submit 30% Design (BOS)</td>
<td>5/19/2014</td>
<td>Q2 2014</td>
<td></td>
</tr>
</tbody>
</table>
4. **FINANCING**

EDF-RE is currently in discussions with potential cash equity acquirers, pursuant to which EDF proposes to sell 50% or more of the equity interests in Cottonwood. MOU likely to be executed in July 2014.

4.1. List all key activities described in the project financing plan – completed, in-process and planned (future).

No activity to report.

<table>
<thead>
<tr>
<th>Responsible Organization (e.g. Seller, Lender, etc.)</th>
<th>Primary Responsibility/Activity</th>
<th>Expected Date of Completion</th>
<th>Revised Expected Date of Completion</th>
<th>Actual Date of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5. MAJOR EQUIPMENT PROCUREMENT

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Manufacturer</th>
<th>Date of Order</th>
<th># Ordered</th>
<th># On-Site</th>
<th># Installed</th>
<th># Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modules</td>
<td>First Solar</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Inverters</td>
<td>SMA</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
</tbody>
</table>

First Solar directly responsible for all major equipment procurement for Goose Lake and City of Corcoran

6. CONSTRUCTION & STARTUP/COMMISSIONING

No activity to report

List all activities – completed, in-process and planned (future).

<table>
<thead>
<tr>
<th>Responsible Organization (e.g. Seller, EPC Contractor, Subcontractor)</th>
<th>Primary Responsibility/Activity</th>
<th>Expected Date of Completion</th>
<th>Revised Expected Date of Completion</th>
<th>Actual Date of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


EPC Monthly Progress Report from May Attached.

7. MILESTONE REMEDIAL ACTION PLAN (IF APPLICABLE)

No milestones missed.

7.1. Missed Milestone

7.2. Plans to achieve missed Milestone
8. CERTIFICATION

I, Kyle Lauter, on behalf of and as an authorized representative of EDF Renewable Energy, do hereby certify that any and all information contained in this Quarterly Progress Report is true and accurate, and reflects, to the best of my knowledge, the current status of the project as of the date specified below.

By:

Name: Kyle Lauter

Title: Program Manager

Date: June 30, 2014
EXHIBIT H

FORM OF MONTHLY PROGRESS REPORT

by and between

Cottonwood Solar, LLC

and

First Solar Electric (California), Inc.

dated as of March 18, 2014

Cottonwood Photovoltaic Solar Project
Corcoran, California
MONTHLY PROGRESS REPORT

Reference is made to that certain Turnkey Engineering, Procurement and Construction Agreement which was entered into on the 18th day of March, 2014 between Cottonwood Solar, LLC, ("Owner") and First Solar Electric (California), Inc. ("Contractor") (the "Agreement"). Capitalized terms used but not defined herein shall have the meaning set forth in the Agreement.

Contractor, pursuant to Section 3.4.3 of the Agreement, does certify and hereby submit to Owner a progress report describing the current progress of the Work and materials.

Contractor further certifies the information contained in the Monthly Progress Report is true and correct as of the date executed by Contractor below.

Executed by Contractor this [31] day of [__May__], 201[4].

CONTRACTOR:

[_____First Solar_____
By:  
Name: ______Christopher Jones________
Title: ________Project Manager________

[REPORT ATTACHED]
MONTHLY PROGRESS REPORT
COTTONWOOD SOLAR
SOLAR PROJECT SITE

Report Date: 05/31/2014

Prepared By: Chris Jones

Participants / Distribution: Kyle Lauter; Dave Carroll, David Hall (EDF)
Cc: Jeff Pruneau; Dave Postma (First Solar)

Major Activities Performed during the Current Report Period

Solar Project Site
1. Design & Engineering:
   a) Civil designs (100%) for City of Corcoran submitted to AHJ.
      a. Comments received from EDF and City of Corcoran. FS reviewing and implementing into final civil packages
   b) Civil designs (100%) for Goose Lake submitted to Kern County.
      a. Comments received from EDF and City of Corcoran. FS reviewing and implementing into final civil packages
   c) 30% BOS package submitted for City of Corcoran

2. Major Equipment Procurement & Delivery:
   a) Procurement will proceed per engineering design. Some long-lead items that were already qualified through CID engineering have been ordered (i.e. transformers, inverters)

3. Permitting:
   a) Initial feedback from City of Corcoran has been favorable. No hold-ups in permitting process anticipated at this time.
   b) Permitting process for GL to begin next week contingent on completion of civil plans. Kern County is proving difficult based on initial discussions.
      a. Grading comments received and are being reviewed currently

4. Construction:
   a) FSLR has reached a Cottonwood labor agreement with IBEW and Ironworkers that governs both the CoC and GL sites.

5. Testing & Commissioning:
   a) No significant items to report at this time.

6. Interconnection:
   a) No significant items to report at this time.

7. Other
   a) No significant items to report at this time.

Major Activities Performed during the Previous Report Period

Please provide a brief summary of the major activities which were scheduled to be performed in the
previous Report Period and their status, including those activities that were not completed as scheduled as well as the reasons why and the effects to the Project Schedule, quality and cost:

Solar Project Site

1. Design & Engineering:
   a) Civil designs (100%) for City of Corcoran submitted to AHJ 4/17/14.
      a. Site layout modified to account for (2) flush lines discovered within the array. EDF direction to move forward with propose Rev. 2 design
   b) Civil designs for Goose Lake almost complete (~95%). Target submittal to Kings County 5/7/14.
   c) Structural / Electrical engineering in process for both sites.

2. Major Equipment Procurement & Delivery:
   a) No significant items to report at this time. Procurement will proceed per engineering design.

3. Permitting:
   a) Initial feedback from City of Corcoran has been favorable. No hold-ups in permitting process anticipated at this time.
   b) Permitting process for GL to begin next week contingent on completion of civil plans. Kern County is proving difficult based on initial discussions.

4. Construction:
   a) FSLR has begun negotiations with Unions to establish Project Labor Agreements. Will confirm direction with EDF as soon as established.
      i. Goose Lake subject to union agreement with IBEW
      ii. City of Corcoran has no union requirements, but may follow a similar arrangement to CID due to proximity.

5. Testing & Commissioning:
   a) No significant items to report at this time.

6. Interconnection:
   a) No significant items to report at this time.

7. Other:
   a) No significant items to report at this time.

Major Activities to be Performed during the Next Report Period

Please provide a brief summary of the major activities to be performed for each of the following aspects of the Project:

Solar Project Site

1. Design & Engineering:
   a) Submit 30% design package (BOS) – GL
   b) Schedule 30% design review with EDF to review. Tentatively scheduling week of 6/16 for this activity.

2. Major Equipment Procurement & Delivery:
   a) Continue procurement activities for necessary equipment; structural and electrical.

3. Permitting:
   a) Work through necessary issues with AHJ to complete civil and structural permitting requirements.
4. Construction:
   a) No significant items to report at this time.

5. Testing & Commissioning:
   a) No significant items to report at this time.

6. Interconnection:
   a) No significant items to report at this time.

7. Other:
   a) No significant items to report at this time

---

Environmental Compliance:

Please provide a synopsis of the Contractor's environmental compliance for the current Report Period, including a description of any deviations and reporting from any applicable Environmental Laws.

- First Solar and EDF will need to coordinate closely on MM's, CUP compliance, etc. to facilitate permitting process with Kern County (GL). FS to arrange a meeting with EDF to address week of 6/2.

---

Schedule Update:

An updated copy of the schedule shall be attached to the Monthly Progress Report with a written analysis of schedule status, including actual versus planned progress, reporting on Important Items and Events, and identifying completion of critical path items and milestones. The schedule shall indicate early, late and actual curves.

Solar Project Site - Important Items and Events:

1. Design: Delayed. Site layout had late changes due to discovery of water lines in CoC array. FS will do everything in their power to maintain schedule, but some initial Engineering milestones may be delayed.
2. Permitting: On schedule. IFP packages complete for Civil on CoC. In process for GL.
4. Site Work Prep: On schedule
5. Equipment Delivered: On schedule
6. Modules Delivered: On schedule
7. Inverter Platforms Delivered: On schedule
8. Racking Installed: On schedule
9. Modules Installed: On schedule
10. In-Service: On schedule
11. Mechanical Completion: On schedule
12. Project Substantial Completion: On schedule
13. Site Restoration: On schedule
14. Final Completion: On schedule
15. Recovery Plans (if any)
**Issues which may affect schedule, quality and cost:**

Identification and evaluation of problem areas that are anticipated to have a material effect on the Project Schedule, quality and cost.

**City of Corcoran:**

1. Updated survey information found (2) flush lines within array footprint. Propose revising layout to move (15) tables to accommodate. This would put parcel 4 edge of glass within (10) feet from waterline. EDF to confirm with City to determine having waterline within the fence-line is acceptable. EDF direction is move forward with Rev. 2 design. Late modification may have cost impact and delays engineering deliverables due to re-design.

2. Parcel 1 - the array and site layouts needed to be revised due to the CID canal encroaching outside of the easement. The access road at the top of the canal is located completely outside of the easement at the east end. This was not reflected in the layouts provided by EDF. As a result, the northern table from the eastern most 18 rows have had to be relocated to the east end of the array. Also, the perimeter road has to be shifted to account for the encroachment. This requires additional construction activities to accommodate. Cost impact of this change is being evaluated currently. No schedule impact.

3. Waterline discovered between parcels 3 & 4. This was not in the layout information provided by EDF. Pipe is approximately 5-6 ft. deep. Will need to trench 2 ft. below waterline in order to run conduit to PVIS. Costs associated with this are being evaluated currently.

**Goose Lake:**

1. Backup power systems will be required by Kern County for emergency stow. Price and quantity to be further defined as engineering activities progress. FS to arrange a meeting with EDF to address week of 6/2.

**Personnel Safety for the Current Report Period**

A synopsis of the Contractor’s safety performance including 1) a summary of the numbers, types of injuries and lost time accidents and 2) a compilation of all safety forms completed.

**Meeting Status for the Current Report Period**

A summary of minutes of major meetings for the current Report Period.

**Progress Photographs for the Current Report Period**

Contractor shall supply digital color photographs (in hardcopy, CD or other electronic means) to document progress and to record significant Site progress and completed elements of Work. All photographs shall be dated and captioned.
Module Breakage Report for the Current Report Period

Please provide an excel listing of all modules that have been damaged during the current Report Period, including a description of the type of damage observed and the status of the return of the modules to the Module Supplier. Please also provide an aggregate account of the number of modules damaged to date.

Other Long term actions:

Other actions:
<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>Duration</th>
<th>Start</th>
<th>Finish</th>
<th>Predecessors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Land Control - Completed</td>
<td>1 day?</td>
<td>Tue 10/16/12</td>
<td>Tue 10/16/12</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Land Control 30-year lease executed</td>
<td>1 day?</td>
<td>Tue 10/16/12</td>
<td>Tue 10/16/12</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Environmental Impact Report (EIR)</td>
<td>72 days</td>
<td>Thu 12/8/11</td>
<td>Tue 10/16/12</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Surveys, Processes</td>
<td>152 days</td>
<td>Tue 5/31/11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Application Submitted to County</td>
<td>1 day</td>
<td>Wed 8/31/11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Addendum to the Environmental Impact Report</td>
<td>76 days</td>
<td>Thu 6/20/13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Date Notice of Determination filed</td>
<td>1 day</td>
<td>Mon 6/17/13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Interconnection</td>
<td>1 day</td>
<td>Wed 10/17/12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>SGIA Executed</td>
<td>1 day</td>
<td>Wed 10/17/12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>EPC Contract</td>
<td>245 days</td>
<td>Tue 3/18/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>EPC RFP</td>
<td>4 mons</td>
<td>Fri 1/31/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Contract Award (via TSA)</td>
<td>21 days</td>
<td>Mon 3/3/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Full Notice to Proceed</td>
<td>1 day</td>
<td>Tue 3/18/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>EPC Design</td>
<td>165 days</td>
<td>Thu 10/16/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>30% Design</td>
<td>2.8 mons</td>
<td>Mon 5/19/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Issue for Permit</td>
<td>1.25 mons</td>
<td>Mon 6/23/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Issue for Construction</td>
<td>4.15 mons</td>
<td>Mon 6/23/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Land Use and Construction Permitting</td>
<td></td>
<td>Tue 8/26/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Building Permit</td>
<td>85 days</td>
<td>Tue 8/26/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Construction</td>
<td>217 days</td>
<td>Sun 3/29/15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Mobilization</td>
<td>1 day</td>
<td>Sun 8/31/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Build Project</td>
<td>152 days</td>
<td>Sun 3/29/15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>COD</td>
<td>0 days</td>
<td>Sun 2/15/15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>GCOD</td>
<td>1 day?</td>
<td>Sun 3/29/15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td>Task Name</td>
<td>Duration</td>
<td>Start</td>
<td>Finish</td>
<td>Predecessors</td>
</tr>
<tr>
<td>----</td>
<td>-----------------------------------------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>Land Control - Completed</td>
<td>1 day?</td>
<td>Wed 2/17/10</td>
<td>Wed 2/17/10</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Land Control 30-year lease executed</td>
<td>1 day?</td>
<td>Wed 2/17/10</td>
<td>Wed 2/17/10</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Notice of Exemption (NOE)</td>
<td>57 days</td>
<td>Mon 4/12/10</td>
<td>Tue 6/29/10</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Surveys, Processes</td>
<td>89 days?</td>
<td>Tue 11/10/09</td>
<td>Fri 3/12/10</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Interconnection</td>
<td>1 day</td>
<td>Wed 10/17/12</td>
<td>Wed 10/17/12</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SGIA Executed</td>
<td>1 day</td>
<td>Wed 10/17/12</td>
<td>Wed 10/17/12</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>EPC Contract</td>
<td>245 days</td>
<td>Thu 4/11/13</td>
<td>Tue 3/18/14</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>EPC RFP</td>
<td>4 mons</td>
<td>Mon 10/14/13</td>
<td>Fri 1/31/14</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Contract Award (via TSA)</td>
<td>21 days</td>
<td>Sat 2/1/14</td>
<td>Mon 3/3/14</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Full Notice to Proceed</td>
<td>1 day</td>
<td>Tue 3/18/14</td>
<td>Tue 3/18/14</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>EPC Design</td>
<td>165 days</td>
<td>Mon 3/3/14</td>
<td>Thu 10/16/14</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>30% Design</td>
<td>2.8 mons</td>
<td>Mon 3/3/14</td>
<td>Mon 5/19/14</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Issue for Permit</td>
<td>1.25 mons</td>
<td>Tue 5/20/14</td>
<td>Mon 6/23/14</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Issue for Construction</td>
<td>4.15 mons</td>
<td>Wed 6/26/14</td>
<td>Thu 10/16/14</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Land Use and Construction Permitting</td>
<td>85 days</td>
<td>Wed 4/30/14</td>
<td>Tue 8/26/14</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Building Permit</td>
<td>85 days</td>
<td>Wed 4/30/14</td>
<td>Tue 8/26/14</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Construction</td>
<td>217 days</td>
<td>Tue 6/3/14</td>
<td>Sun 3/29/15</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Mobilization</td>
<td>1 day</td>
<td>Sun 8/31/14</td>
<td>Sun 8/31/14</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Build Project</td>
<td>152 days</td>
<td>Sun 8/31/14</td>
<td>Sun 3/29/15</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>COD</td>
<td>0 days</td>
<td>Sun 2/15/15</td>
<td>Sun 2/15/15</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>GCOD</td>
<td>1 day?</td>
<td>Sun 3/29/15</td>
<td>Sun 3/29/15</td>
<td></td>
</tr>
</tbody>
</table>
2015 Resource Adequacy and Flexible Capacity Obligations

Jeremy Waen | Regulatory Analyst
July 14, 2014
**Capacity & Resource Adequacy**

**Capacity:** the bandwidth of a generation resource to supply electricity to the grid

- **System Capacity:** the generation capacity needed for overall grid reliability
- **Local Capacity:** the portion of generation capacity needed to provide local grid reliability
- **Flexible Capacity:** the portion of generation capacity needed to provide 3-hour periods of grid reliability

**Resource Adequacy:** the obligation by the CPUC to procure capacity for grid reliability
Agenda Item #7: Resource Adequacy and Flexible Capacity Requirements

Pacific AC Intertie (Oregon/Washington/Canada)

California's Electric Transmission Lines

OWNERS
- Pacific Gas & Electric (PG&E)
- Southern California Edison (SCE)
- Imperial Irrigation District (IID)
- Los Angeles Dept. of Water & Power (LADWP)
- San Diego Gas & Electric (SDG&E)
- Sacramento Municipal Utility District (SMUD)
- PacifiCorp
- Western Area Power Administration
- All Other Owners
- Cities

9/25/2012
California Energy Commission
Siting, Transmission & Environmental Protection Division
Cartography Unit
www.energy.ca.gov

To inquire about ordering this map or information on other types of maps call the map line at (916) 654-4182 or E-Mail: JGILUSEA@ENERGY.STATE.CA.US

Source: California Energy Commission
Agenda Item #7: Resource Adequacy and Flexible Capacity Requirements
Resource Adequacy Obligations for CCAs

Overall obligation based on 115% of year-ahead load forecast

• Local obligation based on the CCA’s share of the forecast load within the local area

• Flexible obligation based on the CCA’s share of the forecast monthly peak demand

• System obligations are the remainder of the CCA’s overall obligation after Local and Flexible RA are accounted for

Flexible $$$ > Local $$ > System $
Example: RA obligation based on June 2014

- Overall RA obligation is ~216 MW
  - Local RA obligation is ~71 MW
  - Flexible RA obligation is ~40 MW
  - System RA obligation is ~145 MW
  - $216 \text{ MW} - 71 \text{ MW} - 0 \text{ MW} = 145 \text{ MW}$

- MCE is obligated to show to CPUC and CAISO that it has resources contracted to meet these needs
  - Year-ahead showing of 90%
  - Month-ahead showing of 100%
Flexible Capacity: the portion of generation capacity needed to provide 3-hour periods of grid reliability

- Needed due to intermittent generation resources (wind and solar) decreasing electricity supply as demand increases

New Flexible RA obligation starting in 2015

- By October 31, 2014 MCE must show it has 90% of 2015 Flexible Capacity obligations met by contracts
- Flexible RA obligations vary by month
Flexible Capacity and the “Duck Graph”
Growing need for flexibility starting 2015

Net load

- Significant change starting in 2015
- Increased ramp
- Potential over-generation

California ISO
Thank you. Questions?