

It is the mission of the Urbana Park District to:

- Improve the quality of life of its citizens through a responsive, efficient, and creative park and recreation system,
- Pursue excellence in a variety of programs, parks, and special facilities that contribute to the attractiveness of neighborhoods, conservation of the environment, and the overall health of the community.

NOTICE AND AGENDA OF MEETING<br>URBANA PARK DISTRICT BOARD OF COMMISSIONERS BOARD STUDY SESSION<br>TUESDAY, APRIL 2, 2024<br>7:00 PM<br>PLANNING AND OPERATIONS FACILITY<br>1011 E. KERR AVENUE<br>URBANA, ILLINOIS 61802

Board Study Sessions are designed for the Board to study, review and discuss specific topics. Actions are not typically taken during a Study Session, unless specifically noted on the agenda.

## I. Call to Order

A. Remote Attendance

The Board may authorize, by a voice vote of the physically present board members, any Commissioner wishing to attend remotely, pursuant to the UPD Remote Attendance Policy (Ord 2017-03).
II. Accept Agenda
III. Public Comment

Any member of the public may make a brief statement at this time within the public participation rules of the Board.
IV. Discussion
A. Delcomyn Park Updates
B. Review of Updated Solar Options
V. Comments from Commissioners
VI. Adjourn

Meeting Agenda and its supporting materials are on the UPD website at http://www.urbanaparks.org/documents/index.html, choose the "Public Meetings" category and search for the meeting information you wish to download.

## Memo

## To: Urbana Park District Board of Commissioners

# From: Derek Liebert, Superintendent of Planning and Operations 

Copy: Tim Bartlett, Executive Director
Corky Emberson, Superintendent of Recreation
Laura Orcutt, Finance Manager
Andy Rousseau, Project Manager
Date: April 2, 2024
Re: Review of Updated Solar Options

## I. Statement of Situation

The Urbana Park District has been working with Progressive Business Solutions on soliciting solar proposals and approved a 20-year Power Purchase Agreement with General Energy/DSD Renewables for the aggregated rate of $\$ 0.06 / \mathrm{kWh}$ pending Urbana School District and joint park and school district legal agreement on the contract terms. This rate was based upon the Illinois Solar for All program and associated incentives.

## II. Statement of work

While legal has been working through the contract terms, DSD has been reviewing the Illinois Solar for All Program and has determined that the while the park district would have qualified for the program in January, our fluctuating rate has dropped considerably since then and we no longer qualify. Progressive Business Solutions will attend the Study Session to review the implications of this on the PPA option as well as some additional options for the park district's consideration.


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## Urbana Park District

Updated Solar Project Review March 27, 2024

## Project Status

Urbana Park District signed the Term Sheet with DSD Renewables to complete the due diligence period and negotiate Power Purchase Agreement (PPA) terms with the both District's legal counsel. While negotiating the contract DSD also engaged Central Road (certified Illinois Shines Solar for All Vendor) to assess the billing periods and current invoices to ensure placement in the Illinois Solar for All Program (ILSFA).

Based on the Illinois Solar for All dynamics and Central Road's assessment, DSD Renewables is stating that the comparable cost is $\$ 0.0980 / \mathrm{kWh}$ and having a PPA rate of $\$ 0.0600 / \mathrm{kWh}$ would not meet the required savings reduction for the Illinois Solar for All Program. Central Road is not including the meter lease, distribution facility charge, and infrastructure fees in any of the comparison when submitting paperwork to the ILSFA administrators.

DSD Renewables assessed multiple options to see if there was anything that could be done with the financing of the project and the ability to get to the reduction needed for the ILSFA program is not achievable at this time.

Progressive has outlined options given this development for the Urbana Park District on the Health \& Wellness Center and Planning \& Operations Building going forward.

## Solar Options Going Forward

Option 1 - Traditional Adjustable Block Program

- $\quad$ Pricing is coming in at $\$ 0.097 / \mathrm{kWh}$ for the 20-year contract
- Would still be able to use DSD Renewables and General Energy for this option. A few remaining PPA contract questions remain from the legal review.
- No additional lost time as interconnections have been applied for and all engineering + design is complete.
- Project savings is:
- $\quad \$ 253,984=$ Planning and Operations and $\$ 304,807=$ Health and Wellness

Option 2 - Third-Party Lease Program

- Partner with Constellation Energy on the Energy Made Easy program (District is currently with)
- Constellation would upfront the capital investment $(\$ 1,474,469)$ to General Energy for construction + energization of the project and Urbana Park District + School District would pay pack over 5 years.
- The payback would be included on the monthly energy bills as a line item. The first payment is due after the system comes live.
- Urbana Park District would owner the system and advantage of the Federal ITC and State incentives that are available. (See next slides for breakdown)
- General Energy would be the contractor assigned to the project.
- This allows for no lost time, engineering, interconnection, etc.
- Program would include a separate maintenance agreement with General Energy
- Maintenance would mirror the responsibilities under a PPA agreement
- Initial 5-year term (no annual escalator) then renew for 5-year terms at fair market value (analysis includes 3\%)
- Urbana Park District receives ownership of the system and can use the monthly payment as a ledger balance on their monthly utility invoice.
- Under this program, the District is projected to save:
- $\$ 359,755=$ Planning and Operations and $\$ 428,008=$ Health and Wellness

Option 3 - Purchase the System

- Urbana Park District would take advantage of the Federal ITC and State incentives that are available.
- Purchase rate is $\$ 1,064,250$
- Cash Flow Positive in year 5
- Would the District be able to fund this option given the high cost of capital in a Third-Party Lease Program?
- 20-year cash flow:
- $\$ 585,394$ = Planning and Operations and $\$ 697,773$ = Health and Wellness


## Cash Flow Analysis for Power Purchase Agreement - Planning and Operations

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## Cash Flow Analysis for Power Purchase Agreement - Health and Wellness

| Contract Years | PPA Rate | PPA Payments | Electric Bill Savings | Solar Array Production | Total Annual Cash Flow |  | Utility Rate per kWh with 2.0\% |  | tric Bill <br> h 2\% | Annual Cash Flow including 2.0\% Increase |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | \$0.09700 | \$ $(30,197)$ | \$ 36,735 | 311,310 | \$ | 6,538 | \$ 0.118000 | \$ | 36,735 | \$ | 6,538 |
| 2 | \$0.09700 | \$ $(30,046)$ | \$ 36,551 | 309,753 | \$ | 6,505 | \$ 0.121249 | \$ | 37,557 | \$ | 7,511 |
| 3 | \$0.09700 | \$ $(29,896)$ | \$ 36,368 | 308,205 | \$ | 6,472 | \$ 0.124498 | \$ | 38,371 | \$ | 8,475 |
| 4 | \$0.09700 | \$ $(29,746)$ | \$ 36,186 | 306,664 | \$ | 6,440 | \$ 0.127746 | \$ | 39,175 | \$ | 9,429 |
| 5 | \$0.09700 | \$ $(29,598)$ | \$ 36,005 | 305,130 | \$ | 6,408 | \$ 0.130995 | \$ | 39,971 | \$ | 10,373 |
| 6 | \$0.09700 | \$ $(29,450)$ | \$ 35,825 | 303,605 | \$ | 6,376 | \$ 0.134244 | \$ | 40,757 | \$ | 11,307 |
| 7 | \$0.09700 | \$ $(29,302)$ | \$ 35,646 | 302,087 | \$ | 6,344 | \$ 0.137493 | \$ | 41,535 | \$ | 12,232 |
| 8 | \$0.09700 | \$ $(29,156)$ | \$ 35,468 | 300,576 | \$ | 6,312 | \$ 0.140741 | \$ | 42,303 | \$ | 13,148 |
| 9 | \$0.09700 | \$ $(29,010)$ | \$ 35,291 | 299,073 | \$ | 6,281 | \$ 0.143990 | \$ | 43,064 | \$ | 14,053 |
| 10 | \$0.09700 | \$ $(28,865)$ | \$ 35,114 | 297,578 | \$ | 6,249 | \$ 0.147239 | \$ | 43,815 | \$ | 14,950 |
| 11 | \$0.09700 | \$ $(28,721)$ | \$ 34,939 | 296,090 | \$ | 6,218 | \$ 0.150488 | \$ | 44,558 | \$ | 15,837 |
| 12 | \$0.09700 | \$ $(28,577)$ | \$ 34,764 | 294,610 | \$ | 6,187 | \$ 0.153736 | \$ | 45,292 | \$ | 16,715 |
| 13 | \$0.09700 | \$ $(28,434)$ | \$ 34,590 | 293,137 | \$ | 6,156 | \$ 0.156985 | \$ | 46,018 | \$ | 17,584 |
| 14 | \$0.09700 | \$ $(28,292)$ | \$ 34,417 | 291,671 | \$ | 6,125 | \$ 0.160234 | \$ | 46,736 | \$ | 18,443 |
| 15 | \$0.09700 | \$ $(28,151)$ | \$ 34,245 | 290,213 | \$ | 6,094 | \$ 0.163483 | \$ | 47,445 | \$ | 19,294 |
| 16 | \$0.09700 | \$ $(28,010)$ | \$ 34,074 | 288,761 | \$ | 6,064 | \$ 0.166731 | \$ | 48,145 | \$ | 20,136 |
| 17 | \$0.09700 | \$ $(27,870)$ | \$ 33,904 | 287,318 | \$ | 6,034 | \$ 0.169980 | \$ | 48,838 | \$ | 20,968 |
| 18 | \$0.09700 | \$ $(27,730)$ | \$ 33,734 | 285,881 | \$ | 6,004 | \$ 0.173229 | \$ | 49,523 | \$ | 21,792 |
| 19 | \$0.09700 | \$ $(27,592)$ | \$ 33,565 | 284,452 | \$ | 5,973 | \$ 0.176478 | \$ | 50,199 | \$ | 22,608 |
| 20 | \$0.09700 | \$ $(27,454)$ | \$ 33,397 | 283,029 | \$ | 5,944 | \$ 0.179726 | \$ | 50,868 | \$ | 23,414 |
| Totals |  | \$ $(576,097)$ | \$ 700,819 | 5,939,143 | \$ | 124,722 |  | \$ | 880,904 | \$ | 304,807 |


| Inputs and Assumption |  |
| :---: | :---: |
| Avoided Utility Cost: | $\$ 0.118 / \mathrm{kWh}$ avg. |
| PPA Escalator: | $0 \%$ |
| Year 1 Energy Savings: | $\mathbf{\$ 2 0 , 3 2 1}$ |
| kW-DC: | 270 KW DC |
| 1st Year Annual Production: | $311,310 \mathrm{kWh}$ |
| Utility Increase: | $2.5 \%$ |
| Solar Degradation: | $0.50 \%$ |

Final Engineering and Design has been completed and interconnection has been submitted through Ameren with General Energy.

## Constellation Energy Made Easy Program - Planning and Operations

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## Planning and Operations

## Project Economics Summary

| Years | Annual Project Cost | Annual Maintenace Contract | Inverter Rebate | Annual Electricity Cost Savings | Annual IIlinois SREC <br> Incentives | Federal Investment Tax Credit | Annual Cash Flow | Cumulative Cash Flow |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | (\$134,043) | (\$2,275) | \$56,250 | \$31,079 | \$27,809 | \$201,064 | \$179,884 | \$179,884 |
| 2 | (\$134,043) | (\$2,275) |  | \$31,542 | \$27,809 | - | $(\$ 76,967)$ | \$102,918 |
| 3 | (\$134,043) | (\$2,275) |  | \$32,012 | \$27,809 | - | $(\$ 76,497)$ | \$26,421 |
| 4 | (\$134,043) | (\$2,275) |  | \$32,489 | \$27,809 | - | (\$76,020) | (\$49,599) |
| 5 | (\$134,043) | (\$2,275) |  | \$32,973 | \$27,809 | - | (\$75,536) | (\$125,135) |
| 6 | - | $(\$ 2,343)$ |  | \$33,465 | \$27,809 | - | \$58,931 | $(\$ 66,204)$ |
| 7 | - | $(\$ 2,343)$ |  | \$33,963 | \$27,809 | - | \$59,429 | $(\$ 6,775)$ |
| 8 | - | $(\$ 2,343)$ |  | \$34,469 |  | - | \$32,126 | \$25,351 |
| 9 | - | $(\$ 2,343)$ |  | \$34,983 |  | - | \$32,640 | \$57,991 |
| 10 | - | $(\$ 2,343)$ |  | \$35,504 |  | - | \$33,161 | \$91,152 |
| 11 | - | $(\$ 2,413)$ |  | \$36,033 |  | - | \$33,620 | \$124,772 |
| 12 | - | $(\$ 2,413)$ |  | \$36,570 |  | - | \$34,157 | \$158,929 |
| 13 | - | $(\$ 2,413)$ |  | \$37,115 |  | - | \$34,702 | \$193,631 |
| 14 | - | $(\$ 2,413)$ |  | \$37,668 |  | - | \$35,255 | \$228,886 |
| 15 | - | $(\$ 2,413)$ |  | \$38,229 | \$2,781 | - | \$38,597 | \$267,483 |
| 16 | - | $(\$ 2,485)$ |  | \$38,799 |  | - | \$36,314 | \$303,797 |
| 17 | - | $(\$ 2,485)$ |  | \$39,327 |  | - | \$36,842 | \$340,639 |
| 18 | - | $(\$ 2,485)$ |  | \$39,963 |  | - | \$37,478 | \$378,117 |
| 19 | - | $(\$ 2,485)$ |  | \$40,559 |  | - | \$38,074 | \$416,191 |
| 20 | - | $(\$ 2,485)$ |  | \$41,163 |  | - | \$38,678 | \$454,869 |
| Total | (\$670,213) |  | \$56,250 | \$717,905 | \$197,443 | \$201,064 | \$454,869 |  |

## Constellation Energy Made Easy Program - Health and Wellness

## Health and Wellness

## Project Economics Summary

| Years | Annual Project Cost | Annual Maintenace Contract | Inverter Rebate | Annual Electricity Cost Savings | Annual IIlinois SREC Incentives | Federal Investment Tax Credit | Annual Cash Flow | Cumulative Cash Flow |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | (\$160,851) | $(\$ 2,540)$ | \$67,500 | \$37,295 | \$32,141 | \$241,277 | \$214,822 | \$214,822 |
| 2 | (\$160,851) | $(\$ 2,540)$ |  | \$37,851 | \$32,141 | - | $(\$ 93,399)$ | \$121,423 |
| 3 | (\$160,851) | $(\$ 2,540)$ |  | \$38,415 | \$32,141 | - | $(\$ 92,835)$ | \$28,588 |
| 4 | (\$160,851) | $(\$ 2,540)$ |  | \$38,987 | \$32,141 | - | $(\$ 92,263)$ | (\$63,675) |
| 5 | (\$160,851) | $(\$ 2,540)$ |  | \$39,568 | \$32,141 | - | $(\$ 91,682)$ | (\$155,358) |
| 6 | - | $(\$ 2,616)$ |  | \$40,157 | \$32,141 | - | \$69,682 | $(\$ 85,675)$ |
| 7 | - | $(\$ 2,616)$ |  | \$40,756 | \$32,141 | - | \$70,281 | $(\$ 15,394)$ |
| 8 | - | $(\$ 2,616)$ |  | \$41,363 |  | - | \$38,747 | \$23,353 |
| 9 | - | $(\$ 2,616)$ |  | \$41,979 |  | - | \$39,363 | \$62,716 |
| 10 | - | (\$2,616) |  | \$42,605 |  | - | \$39,989 | \$102,705 |
| 11 | - | $(\$ 2,694)$ |  | \$43,240 |  | - | \$40,546 | \$143,251 |
| 12 | - | $(\$ 2,694)$ |  | \$43,884 |  | - | \$41,190 | \$184,441 |
| 13 | - | $(\$ 2,694)$ |  | \$44,538 |  | - | \$41,844 | \$226,285 |
| 14 | - | $(\$ 2,694)$ |  | \$45,201 |  | - | \$42,507 | \$268,792 |
| 15 | - | $(\$ 2,694)$ |  | \$45,875 | \$3,214 | - | \$46,395 | \$315,187 |
| 16 | - | $(\$ 2,775)$ |  | \$46,558 |  | - | \$43,783 | \$358,970 |
| 17 | - | $(\$ 2,775)$ |  | \$47,252 |  | - | \$44,477 | \$403,447 |
| 18 | - | $(\$ 2,775)$ |  | \$47,956 |  | - | \$45,181 | \$448,628 |
| 19 | - | $(\$ 2,775)$ |  | \$48,671 |  | - | \$45,896 | \$494,524 |
| 20 | - | $(\$ 2,775)$ |  | \$49,396 |  | - | \$46,621 | \$541,145 |
| Total | (\$804,256) |  | \$67,500 | \$861,547 | \$228,202 | \$241,277 | \$541,145 |  |

## Purchase - Planning \& Operations

| Years |  | Project Cost |  | Cost Savings |  | ntract |  | ntives |  | Rebate |  | Credit |  | tetes, and |  | Cash Fow |  | Cash Flow |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 \$ | (483, 750.00 ) | \$ | 31,079 | \$ | (2,275) | \$ | 27,809 | \$ | 56,250 | \$ | 145,125 | \$ | 229,184 | \$ | (225,762) | \$ | (225,762) |
|  | 2 |  | \$ | 31,542 | \$ | (2,275) | \$ | 27,809 |  |  | - |  | \$ | 27,809 | \$ | 57,076 | \$ | (168,686) |
|  | 3 |  | \$ | 32,012 | \$ | (2,275) | \$ | 27,809 | . |  | - |  | \$ | 27,809 | \$ | 57,546 | \$ | (111,140) |
|  | 4 |  | \$ | 32,489 | \$ | (2,275) | \$ | 27,809 | - |  | - |  | \$ | 27,809 | \$ | 58,23 | \$ | (53,117) |
|  | 5 |  | \$ | 32,973 | \$ | (2,275) | \$ | 27,809 | - |  | - |  | \$ | 27,809 | \$ | 58,507 | \$ | 5,30 |
|  | 6. |  | \$ | 33,465 | \$ | (2,343) | \$ | 27,809 | - |  | - |  | \$ | 27,809 | \$ | 58,930 | \$ | 64,321 |
|  | 7. |  | \$ | 33,96 | \$ | (2,343) | \$ | 27,809 | . |  | - |  | \$ | 27,809 | \$ | 59,429 | \$ | 123,750 |
|  | 8 |  | \$ | 34,469 | \$ | $(2,343)$ |  |  | - |  | - |  | \$ | - | \$ | 32,126 | \$ | 155,876 |
|  | 9. |  | \$ | 34,983 | \$ | (2,343) |  |  | - |  | - |  | \$ |  | \$ | 32,640 | \$ | 188,516 |
|  | 10. |  | \$ | 35,504 | \$ | (2,343) |  |  | - |  | - |  | \$ | - | \$ | 33,161 | \$ | 221,677 |
|  | 11. |  | \$ | 36,033 | \$ | (2,413) |  |  | - |  | - |  | \$ | - | \$ | 33,620 | \$ | 255,297 |
|  | 12. |  | \$ | 36,50 | \$ | (2,413) |  |  | - |  | - |  | \$ | - | \$ | 34,157 | \$ | 289,454 |
|  | 3. |  | \$ | 37,115 | \$ | (2,413) |  |  | - |  | - |  | \$ | - | \$ | 34,702 | \$ | 324,156 |
|  | 4 |  | \$ | 37,668 | \$ | (2,413) |  |  | - |  | - |  | \$ | - | \$ | 35,255 | \$ | 359,410 |
|  | 5. |  | \$ | 38,22 | \$ | (2,413) | \$ | 2,781 | . |  | - |  | \$ | 2,781 | \$ | 38,597 | \$ | 398,007 |
|  | 6 |  | \$ | 38,99 | \$ | (2,485) |  |  | - |  | - |  | \$ | . | \$ | 36,314 | \$ | 434,321 |
|  | 17 |  | \$ | 39,327 | \$ | (2,485) |  |  | - |  | - |  | \$ | - | \$ | 36,842 | \$ | 471,164 |
|  | 18 |  | \$ | 39,96 | \$ | $(2,485)$ |  |  | - |  |  |  | \$ |  | \$ | 37,478 | \$ | 508,642 |
|  | 19 |  | \$ | 40,559 | \$ | $(2,485)$ |  |  | - |  | - |  | \$ | - | \$ | 38,74 | \$ | 546,716 |
|  | 20 |  | \$ | 41,163 | \$ | $(2,485)$ |  |  | - |  | - |  | \$ | - | \$ | 38,678 | \$ | 585,395 |
| Total | \$ | (483,750.00) | \$ | 717,906.52 |  |  | \$ | 197,443 | \$ | 56,250 | \$ | 145,125 | \$ | 398,818 | \$ | 585,394.52 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Electric Saving assumes $22 \%$ increase per yearfor the 20 year term |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Purchase - Health \& Wellness

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## Recommendation/Next Steps

Present to the Urbana Park District Working Group on April 2, 2024.

Access options to move forward and finalize direction

Urbana Park District same contract approval provisions with Executive Director signature once legal agreement has been approved by legal.

Present final legal approved contracts to finalize contract

Establish EPA Green Power Partner designation once system is energized

