

#### **MISSION**

It is our mission to deliver quality healthcare to the residents of and visitors to Big Bear Valley through the most effective use of available resources.

#### **VISION**

To be the premier provider of emergency medical and healthcare services in our Big Bear Valley.

#### **BOARD OF DIRECTORS**

## PLANNING & FACILITIES COMMITTEE MEETING AGENDA WEDNESDAY, DECEMBER 04, 2019

12:00 PM -CLOSED SESSION @ HOSPITAL CONFERENCE ROOM 12:30 PM - OPEN SESSION @ HOSPITAL CONFERENCE ROOM 41870 GARSTIN DRIVE, BIG BEAR LAKE, CA. 92315

Copies of staff reports or other written documentation relating to each item of business referred to on this agenda are on file in the Chief Executive Officer's Office and are available for public inspection or purchase at 10 cents per page with advance written notice. In compliance with the Americans with Disabilities Act and Government Code Section 54954.2, if you need special assistance to participate in a District meeting or other services offered by the District, please contact Administration (909) 878-8214. Notification at least 48 hours prior to the meeting or time when services are needed will assist the District staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting or service. **DOCUMENTS RELATED TO OPEN SESSION AGENDAS (SB 343)** Any public record, relating to an open session agenda item, that is distributed within 72 hours prior to the meeting is available for public inspection at the public counter located in the Administration Office, located at 41870 Garstin Drive, Big Bear Lake, CA 92315. For questions regarding any agenda item, contact Administration at (909) 878-8214.

#### **OPEN SESSION**

1. CALL TO ORDER

**Peter Boss, President** 

2. ROLL CALL

**Shelly Egerer, Executive Assistant** 

- 3. ADOPTION OF AGENDA\*
- 4. PUBLIC FORUM FOR CLOSED SESSION

Opportunity for members of the public to address the Committee on Closed Session items. (Government Code Section 54954.3, there will be a three (3) minute limit per speaker. Any report or data required at this time must be requested in writing, signed and turned in to Administration. Please state your name and city of residence.)

5. ADJOURN TO CLOSED SESSION\*

#### **CLOSED SESSION**

1. REAL PROPERTY NEGOTIATIONS: \*Government Code Section 54956.8 / TRADE SECRETS: Pursuant to Health and Safety Code Section 32106, and Civil Code Section 3426.1

(1) Potential Acquisition

(Anticipated Disclosure 12/04/19)

#### **OPEN SESSION**

1. CALL TO ORDER

Peter Boss, President

2. RESULTS OF CLOSED SESSION\*

Peter Boss, President

#### 3. PUBLIC FORUM FOR OPEN SESSION

Opportunity for members of the public to address the Committee on Open Session items. (Government Code Section 54954.3, there will be a three (3) minute limit per speaker. Any report or data required at this time must be requested in writing, signed and turned in to Administration. Please state your name and city of residence.)

#### 4. DIRECTORS COMMENTS

#### 5. APPROVAL OF MINUTES\*

**A.** June 05, 2019

#### 6. OLD BUSINESS\*

None

#### 7. NEW BUSINESS\*

**A.** Discussion, Presentation/Opportunities and Potential Recommendation to the Board of Directors of BVCHD Solar Power: Presentation by SmartWatt Group

#### 8. PLANNING & FACILITIES\*

- **A.** Construction Project (s)
  - o Construction Projects
  - o Potential Equipment Requirements/Purchases
  - o District Repairs

#### 9. ADJOURNMENT

\* Denotes Actions Items

#### BEAR VALLEY COMMUNITY HEALTHCARE DISTRICT PLANNING & FACILITIES COMMITTEE MEETING MINUTES JUNE 05, 2019

MEMBERSRob Robbins, SecretaryShelly Egerer, Exec. AssistantPRESENT:Peter Boss, PresidentMichael Mursick, Plant Manager

John Friel, CEO

**STAFF:** Garth Hamblin Kerri Jex

**ABSENT:** None

**COMMUNITY** 

**MEMBERS:** None

#### **OPEN SESSION**

#### 1. CALL TO ORDER

Board Member Robbins called the meeting to order at 12:00 p.m.

#### 2. ROLL CALL

Rob Robbins and Peter Boss, MD were present. Also present were John Friel, CEO, Michael Mursick, Plant Manager and Shelly Egerer, Executive Assistant.

#### 3. ADOPTION OF AGENDA\*

Board Member Robbins motioned to adopt the June 05, 2019 Planning & Facilities Committee Meeting Agenda as presented. Second by President Boss to adopt the June 05, 2019 Planning & Facilities Committee Meeting Agenda as presented. Board Member Robbins called for the vote. A vote in favor of the motion was unanimously approved.

- Board Member Robbins- yes
- President Boss yes

#### **CLOSED SESSION**

#### 1. PUBLIC FORUM FOR CLOSED SESSION

Board Member Robbins opened the Hearing Section for Public Comment on Closed Session items at 12:00 p.m. Hearing no request to address the Planning & Facilities Committee, Board Member Robbins closed the Hearing Section at 12:01 p.m.

#### 2. ADJOURN TO CLOSED SESSION\*

Board Member Robbins motioned to adjourn to Closed Session at 12:01 p.m. Second by President Boss to adjourn to Closed Session. Board Member Robbins called for the vote. A vote in favor of the motion was unanimously approved.

- Board Member Robbins- yes
- President Boss- yes

#### **OPEN SESSION**

#### 1. CALL TO ORDER:

Board Member Robbins called the meeting to order at 12:55 p.m.

#### 2. RESULTS OF CLOSED SESSION:

Board Member Robbins stated there was no reportable action taken in Closed Session.

#### 3. PUBLIC FORUM FOR OPEN SESSION:

Board Member Robbins opened the Hearing Section for Public Comment on Open Session items at 12:55 p.m. Hearing no request to address the Planning & Facilities Committee, Board Member Robbins closed the Hearing Section at 12:55 p.m.

#### 4. DIRECTOR'S COMMENTS:

• None

#### 5. APPROVAL OF MINUTES:

A. April 03, 2019

Board Member Robbins motioned to approve the April 03, 2019 Planning & Facilities Committee Meeting Minutes as presented. Second by President Boss to approve the April 03, 2019 Planning & Facilities Committee Meeting Minutes as presented. Board Member Robbins called for a vote. A vote in favor of the motion was unanimously approved.

- Board Member Robbins- yes
- President Boss yes

#### 6. OLD BUSINESS\*

None

#### 7. NEW BUSINESS\*

- A. Discussion and Potential Recommendation to the Board of Directors the Agiliti Service Agreement:
  - Board Member Robbins stated the agreement was discussed in Closed Session and asked that questions/follow up be provided to the full Board.

Board Member Robbins motioned to recommend to the Board of Directors the Agiliti Agreement with clarification on questions/follow up as requested by the committee members. Second by President Boss to recommend to the Board of Directors the Agiliti Agreement with clarification on questions/follow up as requested by the committee members. Board Member Robbins called for a vote. A vote in favor of the motion was unanimously approved.

- Board Member Robbins- yes
- President Boss yes

#### **B.** Discussion and Update on the Following Items:

- (1) Community Health Needs Assessment:
  - Mr. Friel reported that nonprofit hospitals are required to complete the Community Health Needs Assessment every three years. QHR is working with the District to complete the assessment.
    - Administration spent approximately 2 ½ hours reviewing the draft assessment. The assessment will be completed and brought to the full Board in August.
    - o OSHPD data is also reviewed to complete the process in the assessment.
    - o 26 community members were asked to participate in the survey.

#### (2) Self Insurance Project:

- Mr. Hamblin reported the following information:
  - O QHR is reaching out for feedback with self-insurance.

## C. Discussion and Potential Approval of Changing the Frequency of the Planning & Facilities Committee Meeting Schedule:

- Mr. Friel reported that we are not meeting on a monthly basis and asked if the committee members would like to move the meetings quarterly until we begin the retrofit and that we can also schedule Special Planning Meetings as needed.
- The committee members discussed moving the meetings to quarterly and will change the meetings back to monthly when needed.
- Mr. Friel stated that the next meeting would be scheduled in September.

Board Member Robbins motioned to move the Planning & Facilities Committee Meeting to quarterly basis. Second by President Boss to move the Planning & Facilities Committee Meeting to quarterly basis. Board Member Robbins called for a vote. A vote in favor of the motion was unanimously approved.

- Board Member Robbins- yes
- President Boss yes

#### 8. PLANNING & FACILITIES\*

#### A. Construction Project (s)

- Skilled Nursing Facility Tub Room Remodel
  - Mr. Mursick, reported they have received 3 proposal's
  - o Green board needs to be replaced.
  - o Carpeteria was the best bid.

#### • Operating Room Renovations:

- Mr. Mursick reported the project will go out for public bid.
  - o Project will cost approximately \$100,000.
  - Meeting with staff to ensure all bases are covered and communicate about the project.
- Mr. Mursick also reported that the Dietary Department drains are having problems, will need to add new pipes and drains.

Board Member Robbins motioned to approve the Planning & Facilities Report as presented. Second by President Boss to approve the Planning & Facilities Report as presented. Board Member Robbins called for a vote. A vote in favor of the motion was unanimously approved.

- Board Member Robbins- yes
- President Boss yes

#### 9. ADJOURNMENT\*

President Boss motioned to adjourn the meeting at 1:17 p.m. Second by Board Member Robbins to adjourn the meeting. Board Member Robbins called for a vote. A vote in favor of the motion was unanimously approved.

- Board Member Robbins- yes
- President Boss yes



## **Recommendation for Action**

Date: November 26, 2019

To: Board of Directors From: John Friel, CEO

Re: SmartWatt - Preliminary Feasibility Assessment

BVCHD has long been dependent on traditional energy sources. The planning committee instructed management to investigate options to lower or eliminate that dependency. Therefore, we have asked SmartWatt and Centrica to offer options for our consideration.

Federal funding is available for many projects however funding requires Board involvement and approval.

SmartWatt/Centrica has approached BVCHD for a no cost preliminary feasibility assessment which management recommends to the committee that we accept and bring to the Board of Directors at the December 11 for final approval.

This phase is of no cost to BVCHD

## **s**wartwatt



Preliminary Feasibility Assessment (PFA)

## ⊸Introductions

## Josh Steeber

**Account Executive** 

P: (949) 432-0689

E: jsteeber@smartwattinc.com

## **Brett Watson**

Project Director

P: (518) 406-0353

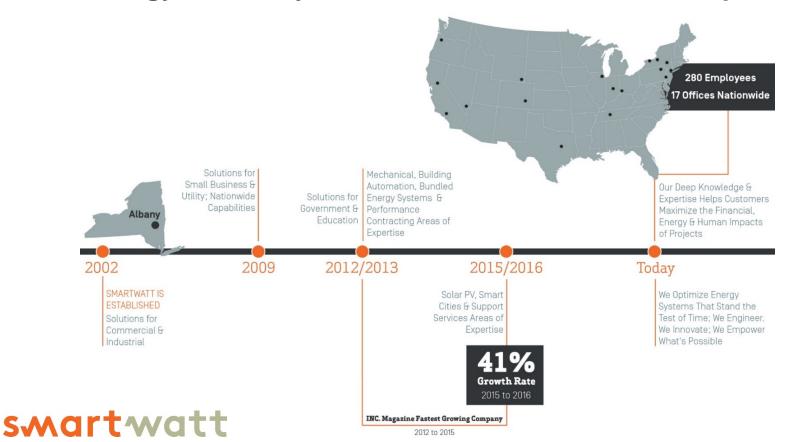
E: <u>bwatson@smartwattinc.com</u>



# ∘Our History

SmartWatt is a Department of Energy (DOE) certified, Energy Services Contractor, with a long track record of success optimizing energy projects for the Federal, Public and Private sectors. SmartWatt optimizes energy systems and maximizes value along every dimension through

## **Energy Efficiency, Financial Return and Human Impact.**



## 

- Global 500 Energy & Service Company
- Established 1812 : HQ = Windsor, UK
- 27M Customers North America, UK & Ireland
- 78% of Fortune 100 & 60% of Fortune 500 Customers



- Direct Energy
- Vista Solar
- Panoramic Power
- Ener-G CHP
- Rudox Power
- SmartWatt

smartwatt

# Saving Energy Grows Revenue

- According to EnergyStar, every \$1 a non-profit hospital saves on energy, is equivalent to generating \$20 in new revenue.
- A for-profit hospital can raise their earnings per share by one cent, by reducing energy costs just 5%.

https://www.energystar.gov/ia/partners/publications/pubdocs/Healthcare.pdf



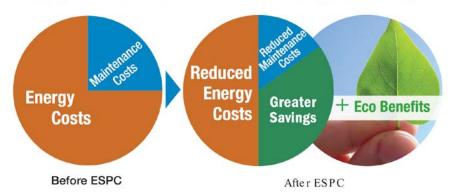


# →Energy Performance Contracting (EPC)

Multi-faceted program that encompasses all aspects of a bundled energy construction project:

- Design
- Engineering
- Development
- Financing
- Construction
- Performance Guarantee

## **Upgrades Paid for with Energy Savings!**



## ⊸The Benefits of Energy Performance Contracting

## No Capital Required

 Organizations can complete their budgetneutral energy saving projects without upfront capital.

## Positive Cash Flow

 EPC provides immediate savings as the organization retains a portion of the energy, water and maintenance savings.

## **Guaranteed Results**

EPC agreements specify and guarantee performance-based outcomes (energy levels, light levels, water reductions, operating efficiencies, etc.) Any savings shortfalls are reimbursed to the customer!





## 

Government Code 4217 permits public entities to enter into sole-sourced, negotiated contracts for the specific purpose of upgrading energy infrastructure (e.g Lighting, Mechanical, Renewables, Water Conservation, ect.) as long as the cost of those contracts, including engineering and maintenance, are completely recovered by the energy savings dollars generated from those contracts.

## smartwatt

# →SmartFit Approach





We begin by going above and beyond traditional needs analysis to understand your situation holistically. We consider the broadest possible set of perspectives, including energy, financial, and human.

## **Envision & Plan**



We work with you to customize a solution based on the uses and users of your facility—and help you plan a project that wins over stakeholders, maximizes value, and minimizes risk.

## **Implement & Sustain**



We ensure you have the information you need at your fingertips throughout implementation and beyond, so you are in control and confident about your project's long-term success.

## smartwatt

# → Proposed Project Summary

FIM #	Facility Improvement Measure (FIMs)	Annual Energy Savings (\$/yr.)	Annual O&M Savings (\$/yr.)	
1	Interior Lighting Retrofits	\$23,722	\$2,507	
2	Exterior Lighting Retrofits	\$6,229	\$447	
3A	Constant Volume to VAV Conversion	\$21,586	\$5,480	
3B	Pneumatic to DDC Conversion	\$14,872	\$1,527	
4	Variable Chilled Water Flow	\$15,146	\$4,583	
5	Transformer Replacement	\$2,303	\$0	
6	Solar Photovoltaics	\$122,134	\$0	
	Total	\$205,991	\$14,544	



## ⊸FIM #1 – Interior LED Lighting & Controls

## Project Scope

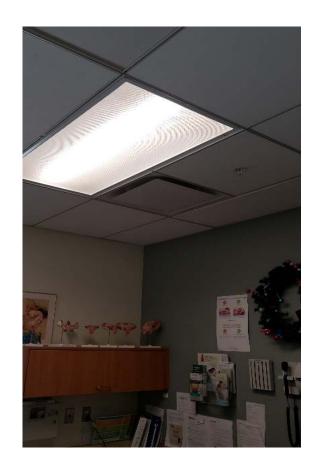
- Replace/ retrofit all fluorescent and incandescent fixtures with new LED fixtures and lamps.
- Install Title 24 occupancy based controls where applicable.

## **Project Benefits**

- Life of LED fixtures are approximately 3 times longer than traditional fluorescent fixtures.
- Increased light quality for productivity.

### Affected Facilities:

- Hospital Building
- Family Planning Building





# ⊸FIM #2 – Exterior LED Lighting & Controls

## Project Scope

- Replace all high intensity discharge (HID) exterior fixtures with new LED fixtures.
- Install bi-level motion sensors where applicable to meet Title 24 code.
- Install fixture integrated photocells where astronomical timeclocks do not exist to meet Title 24 code.

## **Project Benefits**

- Life of LED fixtures are approximately 3 times longer than traditional fluorescent fixtures.
- Increased light quality for security.

## **Affected Facilities:**

- Hospital Building
- Family Planning Building





# FIM #3A – Convert Constant Volume AHU to

## **Project Scope**

- Install variable frequency drives on air handling unit (AHU) supply and return/ exhaust fans.
- Convert constant volume terminal units to VAV boxes.
- Integrate VAV boxes into a DDC controls system.

## **Affected Facilities:**

Hospital Building



## **Project Benefits**

- Reduce energy consumed by fluctuating speed of air distribution/ ventilation fans.
- Increased control of space temperatures for greater occupant comfort.

## smartwatt

## ⊸FIM #3B – Pneumatic to DDC Controls

## Project Scope

- Replace pneumatic controls components related to air handling units, zones temperature controls, chilled water components, and hot water components with digital controls.
- Replace control valves, repair zone dampers, and repair economizer damper linkages.
- Install new control system for "frontend" control of mechanical equipment.

## **Project Benefits**

- Reduced/ eliminated reliance on compressed air for equipment control.
- Increased capability for controlling system interactions.

### Affected Facilities:

Hospital Building







## ◦FIM #4 – Variable Chilled Water Flow

## **Project Scope**

- Install variable frequency drives on chilled water pumps.
- Install differential pressure sensors for control of chilled water pump speed.
- Integrate chilled water system into control system proposed in FIM #3B.

## **Project Benefits**

- Reduce energy consumed by fluctuating speed of chilled water pumps.
- Increased capability for controlling system interactions.

## **Affected Facilities:**

Hospital Building





## ⊸FIM #5 – Transformer Replacement

## Project Scope

 Replace three (3) secondary transformers in Hospital Building with high efficiency transformers.

## **Project Benefits**

 Reduce energy consumed from transformer losses operating at low part-load conditions.

## Affected Facilities:

Hospital Building





## ∘FIM #6 – Solar Photovoltaics

## Project Scope

- Install photovoltaic carports and roof mounted arrays.
- The preliminary design shown below shall account for approximately 70% of the postretrofit annual energy consumption

## **Project Benefits**

- Reduced reliance on the grid.
- Greater resiliency during emergencies.

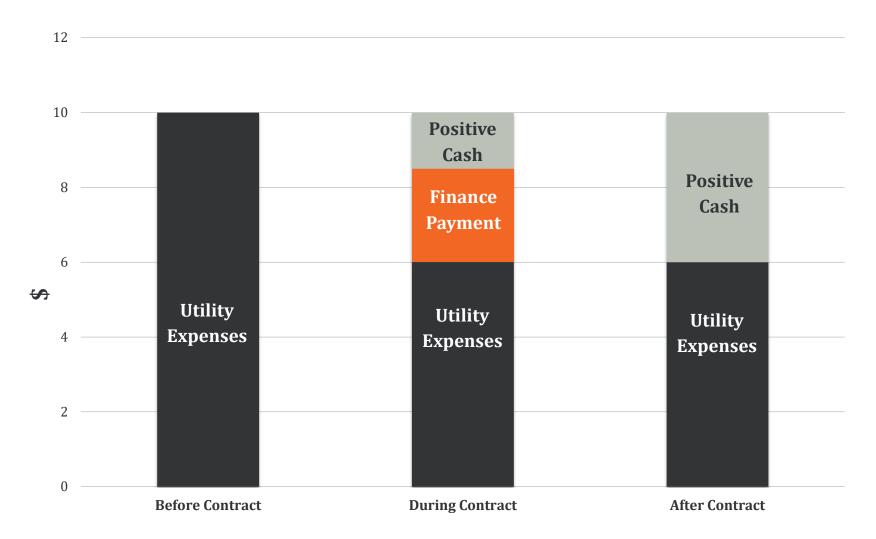
#### Affected Facilities:

- Hospital Building
- Family Planning Building





# How the Project is Paid For (EPC) ∞





# → Project Financials

1,113

332,941

(74,082)

Net Project Investment	\$1,933,966
Year 1 Utility Cost Savings	\$205,991
Year 1 Maintenance Cost Savings	\$14,543
Utility Savings % (savings/utility cost)	53%
Term	10 years
20 Year Return on Investment	142%
122	_

122,753

255 swartwa

330,950

74,240)

(499)

1,122 337,250 (73,448)

1,124 338 660

2,465

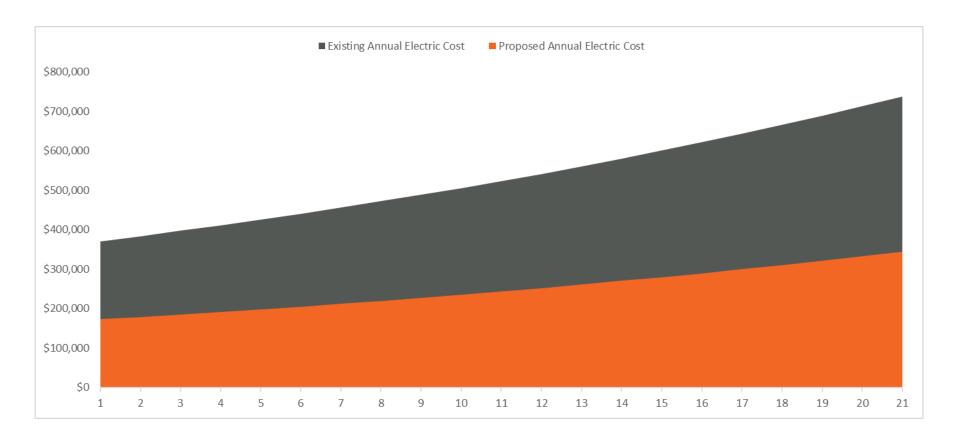
127,663

# →20 Year Project Cash Flow

Electric Savings \$ - Natural Gas Savings Fuel Oil Savings \$ - Water Savings \$ - Water Savings \$ - Total Utility Savings \$ - Total Project savings \$ - Outstanding Balance \$ 1,993,966 Principal Payment \$ - Interest Payment Measurement and Verification Service Contract Total Project Payments \$ - Net annual benefits from Total Project Cummulative Payment for Project Cummulative Project Savings \$ - Cumulative Cash Flow \$ -  Year 11 Total Utility Savings \$ 290,570 Material Replacement Savings \$ 20,514 Total Project savings \$ 311,085 Outstanding Balance \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,759	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Year 2 205,170 8,030 - 213,200 15,052 228,252 1,861,830 144,873 74,473 7,906 - 227,252 1,000 446,786 448,786	\$ \$ \$ \$ \$ \$	8,311 - 220,662 15,579 <b>236,241</b> 1,716,957 158,380 68,678 8,183 - <b>235,241</b> 1,000	\$ \$ \$ \$ \$	8,602 - 228,386 16,124 <b>244,510</b> 1,558,577 172,697 62,343 8,469 - <b>243,510</b> 1,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Year 5 227,476 8,903 236,379 16,688 253,068 1,385,879 187,867 55,435 8,766 - 252,068 1,000	\$ \$ \$ \$ \$ \$	9,215 - 244,652 17,273 <b>261,925</b> 1,198,012 203,932 47,920 9,072	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Year 7 243,678 9,537 253,215 17,877 271,092 994,080 220,939 39,763 9,390 - 270,092	\$ \$ \$ \$ \$ \$ \$ \$ \$	9,871 - 262,078 18,503 280,580 773,141 238,936 30,926 9,719	_	Year 9 261,034 10,217 271,250 19,150 290,401 534,205 257,974 21,368 10,059 - 289,401	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Year 10 270,170 10,574 - 280,744 19,821 300,565 276,231 276,231 11,049 10,411
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Fuel Oil Savings \$ - Water Savings \$ - Total Utility Savings \$ - Material Replacement Savings \$ - Total Project savings \$ - Outstanding Balance \$ 1,993,966 Principal Payment \$ - Interest Payment \$ - Interest Payment \$ - Interest Payment \$ - Curmulative Project Payment \$ - Cummulative Project Savings \$ - Cumulative Project Savings \$ - Cumulative Cash Flow \$ -  Total Utility Savings \$ 290,570 Material Replacement Savings \$ 20,514 Total Project savings \$ 311,085 Outstanding Balance \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	205,991 14,543 220,534 1,993,966 132,136 79,759 7,639 219,534 1,000 219,534 220,534	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 213,200 15,052 228,252 1,861,830 144,873 74,473 7,906 - 227,252 1,000 446,786	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	220,662 15,579 236,241 1,716,957 158,380 68,678 8,183 - 235,241 1,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	228,386 16,124 244,510 1,558,577 172,697 62,343 8,469 - 243,510 1,000	\$ \$ \$ \$ \$ \$	236,379 16,688 253,068 1,385,879 187,867 55,435 8,766	\$ \$ \$ \$ \$ \$ \$	244,652 17,273 261,925 1,198,012 203,932 47,920 9,072	\$ \$ \$ \$ \$	253,215 17,877 271,092 994,080 220,939 39,763 9,390	\$ \$ \$ \$ \$ \$	262,078 18,503 280,580 773,141 238,936 30,926 9,719	\$ \$ \$ \$ \$ \$ \$	271,250 19,150 290,401 534,205 257,974 21,368 10,059	\$ \$ \$ \$ \$	280,744 19,821 <b>300,565</b> 276,231 276,231 11,049
Water Savings \$ - Total Utility Savings \$ - Material Replacement Savings \$ - Total Project savings \$ - Outstanding Balance \$ 1,993,966 Principal Payment \$ - Interest Payment \$ - Interest Payment \$ - Interest Payment \$ - Measurement and Verification Service Contract Total Project Payments \$ - Net annual benefits from Total Project \$ - Cummulative Payment for Project Cummulative Project Savings \$ - Cumulative Cash Flow \$ -  Total Utility Savings \$ 290,570 Material Replacement Savings \$ 20,514 Total Project savings \$ 311,085 Outstanding Balance \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	14,543 220,534 1,993,966 132,136 79,759 7,639 - 219,534 1,000 219,534 220,534	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,052 228,252 1,861,830 144,873 74,473 7,906 - 227,252 1,000 446,786	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	220,662 15,579 236,241 1,716,957 158,380 68,678 8,183 - 235,241 1,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,124 244,510 1,558,577 172,697 62,343 8,469 - 243,510 1,000	\$ \$ \$ \$ \$	16,688 253,068 1,385,879 187,867 55,435 8,766 - 252,068	\$ \$ \$ \$ \$ \$ \$	17,273 <b>261,925</b> 1,198,012 203,932 47,920 9,072	\$ \$ \$ \$ \$	17,877 <b>271,092</b> 994,080 220,939 39,763 9,390	\$ \$ \$ \$ \$ \$	18,503 280,580 773,141 238,936 30,926 9,719	\$ \$ \$ \$ \$ \$	19,150 <b>290,401</b> 534,205 257,974 21,368 10,059	\$ \$ \$ \$ \$	19,821 <b>300,565</b> 276,231 276,231 11,049
Total Utility Savings \$ -  Material Replacement Savings \$ -  Total Project savings \$ -  Outstanding Balance \$ 1,993,966  Principal Payment \$ -  Interest Payment Measurement and Verification  Service Contract  Total Project Payments \$ -  Net annual benefits from Total Project \$ -  Cummulative Payment for Project  Cummulative Project Savings \$ -  Cumulative Cash Flow \$ -   Year 11  Total Utility Savings \$ 290,570  Material Replacement Savings \$ 20,514  Total Project savings \$ 311,085  Outstanding Balance \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	14,543 220,534 1,993,966 132,136 79,759 7,639 - 219,534 1,000 219,534 220,534	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,052 228,252 1,861,830 144,873 74,473 7,906 - 227,252 1,000 446,786	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,579 236,241 1,716,957 158,380 68,678 8,183 - 235,241 1,000	\$ \$ \$ \$ \$ \$	16,124 244,510 1,558,577 172,697 62,343 8,469 - 243,510 1,000	\$ \$ \$ \$	16,688 253,068 1,385,879 187,867 55,435 8,766 - 252,068	\$ \$ \$ \$ \$ \$	17,273 <b>261,925</b> 1,198,012 203,932 47,920 9,072	\$ \$ \$ \$ \$	17,877 <b>271,092</b> 994,080 220,939 39,763 9,390	\$ \$ \$ \$ \$ \$	18,503 280,580 773,141 238,936 30,926 9,719	\$ \$ \$ \$ \$ \$ \$	19,150 <b>290,401</b> 534,205 257,974 21,368 10,059	\$ \$ \$ \$	19,821 <b>300,565</b> 276,231 276,231 11,049
Material Replacement Savings \$ -  Total Project savings \$ -  Outstanding Balance \$ 1,993,966  Principal Payment \$ -  Interest Payment \$ -  Measurement and Verification  Service Contract  Total Project Payments \$ -  Net annual benefits from Total Project \$ -  Cummulative Payment for Project  Cummulative Project Savings \$ -  Cumulative Cash Flow \$ -   Year 11  Total Utility Savings \$ 290,570  Material Replacement Savings \$ 20,514  Total Project savings \$ 311,085  Outstanding Balance \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$	14,543 220,534 1,993,966 132,136 79,759 7,639 - 219,534 1,000 219,534 220,534	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,052 228,252 1,861,830 144,873 74,473 7,906 - 227,252 1,000 446,786	\$ \$ \$ \$ \$	15,579 236,241 1,716,957 158,380 68,678 8,183 - 235,241 1,000	\$ \$ \$ \$ \$ \$	16,124 244,510 1,558,577 172,697 62,343 8,469 - 243,510 1,000	\$ \$ \$ \$	16,688 253,068 1,385,879 187,867 55,435 8,766 - 252,068	\$ \$ \$ \$ \$ \$	17,273 <b>261,925</b> 1,198,012 203,932 47,920 9,072	\$ \$ \$ \$ \$	17,877 <b>271,092</b> 994,080 220,939 39,763 9,390	\$ \$ \$ \$ \$ \$	18,503 280,580 773,141 238,936 30,926 9,719	\$ \$ \$ \$ \$ \$	19,150 <b>290,401</b> 534,205 257,974 21,368 10,059	\$ \$ \$ \$	19,821 <b>300,565</b> 276,231 276,231 11,049
Total Project savings  Outstanding Balance  Principal Payment  Interest Payment  Measurement and Verification  Service Contract  Total Project Payments  Net annual benefits from Total Project  Cummulative Payment for Project  Cummulative Project Savings  Cumulative Cash Flow  Year 11  Total Utility Savings  Material Replacement Savings  Outstanding Balance  \$ - 0	\$ \$ \$ \$ \$ \$ \$ \$	220,534 1,993,966 132,136 79,759 7,639 - 219,534 1,000 219,534 220,534	\$ \$ \$ \$ \$ \$ \$	228,252 1,861,830 144,873 74,473 7,906 - 227,252 1,000 446,786	\$ \$ \$ \$ \$	236,241 1,716,957 158,380 68,678 8,183 - 235,241 1,000	\$ \$ \$ \$ \$	244,510 1,558,577 172,697 62,343 8,469 - 243,510 1,000	\$ \$ \$	253,068 1,385,879 187,867 55,435 8,766 - 252,068	\$ \$ \$ \$	261,925 1,198,012 203,932 47,920 9,072	\$ \$ \$ \$ \$ \$	271,092 994,080 220,939 39,763 9,390	\$ \$ \$ \$ \$	280,580 773,141 238,936 30,926 9,719	\$ \$ \$ \$ \$ \$	290,401 534,205 257,974 21,368 10,059	<b>\$</b> \$ \$	300,565 276,231 276,231 11,049
Outstanding Balance \$ 1,993,966 Principal Payment \$ - Interest Payment Measurement and Verification Service Contract  Total Project Payments Net annual benefits from Total Project Cummulative Payment for Project Cummulative Project Savings \$ -  Cumulative Cash Flow  Year 11  Total Utility Savings \$ 290,570 Material Replacement Savings \$ 20,514  Total Project savings \$ 311,085 Outstanding Balance \$ -	\$ \$ \$ \$ \$ \$ \$	1,993,966 132,136 79,759 7,639 - 219,534 1,000 219,534 220,534	\$ \$ \$ \$ \$ \$	1,861,830 144,873 74,473 7,906 - 227,252 1,000 446,786	\$ \$ \$ \$ \$	1,716,957 158,380 68,678 8,183 - 235,241 1,000	\$ \$ \$ \$ \$	1,558,577 172,697 62,343 8,469 - 243,510 1,000	\$	1,385,879 187,867 55,435 8,766 - 252,068	\$ \$ \$ \$	1,198,012 203,932 47,920 9,072	\$ \$ \$ \$ \$	994,080 220,939 39,763 9,390	\$ \$ \$ \$ \$	773,141 238,936 30,926 9,719	\$ \$ \$ \$ \$	534,205 257,974 21,368 10,059	\$	276,231 276,231 11,049
Principal Payment Interest Payment Measurement and Verification Service Contract  Total Project Payments Net annual benefits from Total Project Cummulative Payment for Project Cummulative Project Savings \$ - Cumulative Cash Flow \$ -  Year 11  Total Utility Savings \$ 290,570 Material Replacement Savings \$ 311,085 Outstanding Balance \$ -	\$ \$ \$ \$	132,136 79,759 7,639 - 219,534 1,000 219,534 220,534	\$ \$ \$ \$ \$	144,873 74,473 7,906 - 227,252 1,000 446,786	\$ \$ \$ \$ \$	158,380 68,678 8,183 - 235,241 1,000	\$ \$ \$ \$ \$	172,697 62,343 8,469 - 243,510 1,000	\$	187,867 55,435 8,766 - 252,068	\$ \$ \$ \$	203,932 47,920 9,072	\$ \$ \$ \$ <b>\$</b>	220,939 39,763 9,390	\$	238,936 30,926 9,719	\$ \$ \$ \$	257,974 21,368 10,059	\$	276,231 11,049
Interest Payment  Measurement and Verification Service Contract  Total Project Payments  Net annual benefits from Total Project  Cummulative Payment for Project  Cummulative Project Savings  Cumulative Cash Flow  Year 11  Total Utility Savings  \$ 290,570  Material Replacement Savings  \$ 311,085  Outstanding Balance  \$ -	\$ \$ \$ \$	79,759 7,639 - <b>219,534</b> 1,000 219,534 <b>220,534</b>	\$ \$ \$ <b>\$</b> \$	74,473 7,906 - <b>227,252</b> 1,000 446,786	\$ \$ <b>\$</b> \$	68,678 8,183 - <b>235,241</b> 1,000	\$ \$ <b>\$</b> \$	62,343 8,469 - <b>243,510</b> 1,000	\$	55,435 8,766 - <b>252,068</b>	\$ \$	47,920 9,072 -	\$ \$ \$ <b>\$</b>	39,763 9,390 -	\$	30,926 9,719 -	\$ \$ \$ \$	21,368 10,059	\$	11,049
Measurement and Verification Service Contract  Total Project Payments  Net annual benefits from Total Project  Cummulative Payment for Project  Cummulative Project Savings  Cumulative Cash Flow  S  Total Utility Savings  Material Replacement Savings  S  Outstanding Balance  S  Service Contract  \$  Year 11  Total Utility Savings  \$ 290,570  Material Replacement Savings  \$ 311,085	\$ \$ \$ \$	7,639 - <b>219,534</b> 1,000 219,534 <b>220,534</b>	\$ \$ \$ \$	7,906 - <b>227,252</b> 1,000 446,786	\$ \$ <b>\$</b> \$	8,183 - <b>235,241</b> 1,000	\$ \$ <b>\$</b> \$	8,469 - <b>243,510</b> 1,000	· ·	8,766 - <b>252,068</b>	\$	9,072	\$ \$ \$	9,390	\$	9,719	\$ \$ \$	10,059	Ψ	
Service Contract  Total Project Payments  Net annual benefits from Total Project  Cummulative Payment for Project  Cummulative Project Savings  Cumulative Cash Flow  S-  Total Utility Savings  \$ 290,570  Material Replacement Savings  \$ 311,085  Outstanding Balance  \$ -	\$ \$ \$ \$	219,534 1,000 219,534 220,534	\$ <b>\$</b> \$ \$	227,252 1,000 446,786	\$ <b>\$</b> \$	235,241 1,000	\$ \$ \$ \$	2 <b>43,510</b> 1,000	\$ \$ <b>\$</b> \$	252,068	\$	-	\$ \$ <b>\$</b>	-	\$ \$ <b>\$</b>	-	\$	-	\$	10,411
Total Project Payments  Net annual benefits from Total Project  Cummulative Payment for Project  Cummulative Project Savings  Cumulative Cash Flow  S  Total Utility Savings  S  Material Replacement Savings  Outstanding Balance  \$ -	\$ \$ \$ \$	1,000 219,534 <b>220,534</b>	\$	1,000 446,786	\$	1,000	\$ <b>\$</b> \$	1,000	\$ <b>\$</b> \$	-	\$ <b>\$</b>	260.025	\$ <b>\$</b>	270 092	\$ <b>\$</b>	-	\$	280 /01	\$	-
Net annual benefits from Total Project \$ - Cummulative Payment for Project Cummulative Project Savings \$ - Cumulative Cash Flow \$ -  Total Utility Savings \$ 290,570 Material Replacement Savings \$ 20,514 Total Project savings \$ 311,085 Outstanding Balance \$ -	\$ \$ <b>\$</b>	1,000 219,534 <b>220,534</b>	\$	1,000 446,786	\$	1,000	<b>\$</b> \$	1,000	<b>\$</b>	-	\$	260.025	\$	270 092	\$		4	280 /01	4	
Cummulative Payment for Project  Cummulative Project Savings \$ -  Cumulative Cash Flow \$ -  Total Utility Savings \$ 290,570  Material Replacement Savings \$ 20,514  Total Project savings \$ 311,085  Outstanding Balance \$ -	\$ <b>\$</b>	219,534 <b>220,534</b>	\$	446,786	\$	-	\$		\$	1 000		200,323		_,0,0,_		279,580	>	203,401	>	297,691
Cummulative Project Savings  Cumulative Cash Flow  S  -  Year 11  Total Utility Savings  Material Replacement Savings  Total Project savings  Outstanding Balance  S  -  Cumulative Project Savings  S  -  S  -  S  -  S  -  S  -  S  -  Cumulative Project Savings  S  -  S  -  S  -  S  -  S  -  Cumulative Project Savings  S  -  S  -  Cumulative Project Savings  S  -  S  -  Cumulative Project Savings  S  -  S  -  Cumulative Project Savings  S  -  Cum	\$	220,534	+ '		\$	682,027	\$			1,000	\$	1,000	\$	1,000	\$	1,000	\$	1,000	\$	2,874
Cumulative Cash Flow     \$ -       Year 11       Total Utility Savings     \$ 290,570       Material Replacement Savings     \$ 20,514       Total Project savings     \$ 311,085       Outstanding Balance     \$ -	Ψ.		\$	448.786			~	925,537	\$	1,177,605	\$	1,438,529	\$	1,708,622	\$	1,988,202	\$	2,277,603	\$	2,575,294
Total Utility Savings \$ 290,570 Material Replacement Savings \$ 20,514  Total Project savings \$ 311,085  Outstanding Balance \$ -	\$				Ş	685,027	\$	929,537	\$	1,182,605	\$	1,444,529	\$	1,715,622	\$	1,996,202	\$	2,286,603	\$	2,587,168
Total Utility Savings     \$ 290,570       Material Replacement Savings     \$ 20,514       Total Project savings     \$ 311,085       Outstanding Balance     \$ -		1,000	\$	2,000	\$	3,000	\$	4,000	\$	5,000	\$	6,000	\$	7,000	\$	8,000	\$	9,000	\$	11,874
Total Utility Savings     \$ 290,570       Material Replacement Savings     \$ 20,514       Total Project savings     \$ 311,085       Outstanding Balance     \$ -																				
Material Replacement Savings \$ 20,514  Total Project savings \$ 311,085  Outstanding Balance \$ -		Year 12		Year 13	Υe	ear 14	Y	ear 15	,	Year 16	7	Year 17	Y	ear 18		Year 19		Year 20		Total
Total Project savings \$ 311,085 Outstanding Balance \$ -	\$	300,740	\$	311,266	\$	322,160	\$	333,436	\$	345,106	\$	357,185	\$	369,686	\$	382,625	\$	396,017	\$	5,825,351
Outstanding Balance \$ -	\$	21,232	\$	21,976	\$	22,745	\$	23,541	\$	24,365	\$	25,217	\$	26,100	\$	27,014	\$	27,959	\$	411,272
	\$	321,973	\$	333,242	\$	344,905	\$	356,977	\$	369,471	\$	382,402	\$	395,786	\$	409,639	\$	423,976	\$	6,236,623
	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	_		
Principal Payment \$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$		\$	1,993,966
Interest Payment \$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	491,715
Measurement and Verification \$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	89,612
Service Contract \$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total Project Payments \$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,575,294
Net annual benefits from Total Project \$ 311,085	\$	321,973	\$	333,242	\$	344,905	\$	356,977	\$	369,471	\$	382,402	\$	395,786	\$	409,639	\$	423,976	\$	3,661,330
Cummulative Payment for Project \$ 2,575,294	\$	2,575,294	\$	2,575,294	\$ 2	2,575,294	\$	2,575,294	\$	2,575,294	\$	2,575,294	\$	2,575,294	\$	2,575,294	\$	2,575,294		
Cummulative Project Savings \$ 2,898,252	\$	3,220,225	\$	3,553,466	\$ 3	3,898,372	\$	4,255,348	\$	4,624,819	\$	5,007,222	\$	5,403,008	\$	5,812,647	\$	6,236,623		
Cumulative Cash Flow \$ 322,959	_												\$2,		de s	3,237,353	Ø:	3,661,330		



# 20 Year Cumulative Energy Cost Comparison

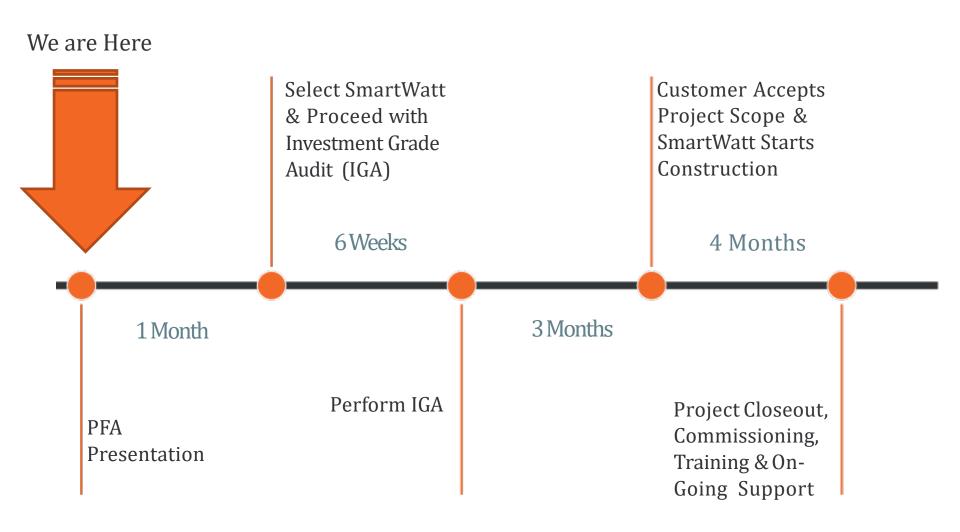


Existing total cost of electricity over next 20 years: \$11,235,419

Proposed total cost of electricity over next 20 years: \$5,235,036



# → Next Steps





# Swartwatt

Josh Steeber Account Executive C: (949) 432-0689

E: jsteeber@smartwattinc.com

## Bear Valley Community Healthcare District Construction Projects 2019

Department / Project	Details	Vendor and all associated costs	Comments	Date
Respiratory Therapy	Painted, installed curtains	Engineering	In Progress	
Pyxis Replacement	Pyxis equipment is in place and seismic anchors will be installed soon.	Facilities	Nearly complete, waiting for Pyxis to send last mount that was not recivied during original delivery.	
SNF TV Project	Facilities is installing the necessary cabiling	Facilities	In Progress	-
Hospital- Medical Air Compressor	Compressors is failing and no longer meets code requirments	FS Medical	Completed	
OR- Remodel & Electrical Repairs	Replace flooring, repair walls & replace LIM's	N/A	In Progress, prepared paperwork with legal and waiting for a response	
CT	CT Auto Opener disable device installation	Ludeke Electric	In Progress	

# **Bear Valley Community Healthcare District Potential Equipment Requirements**

Department / Project	Details	Vendor and all associated costs	Comments	Committee
Facilities- New Work Truck	Purchase a new truck for the department. Our current truck has numerous issues and it is time for a replacement	Victorville Motors, Mark Christopher Chevrolet, Redlands Ford	New truck & plow purchased, plow being installed should be ready 11/27/19	
				-
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	t.			

## Bear Valley Community Healthcare District Repairs Maintenance

Department / Project	Details	Vendor and all associated costs	Comments	Commit
Dietary	Replaced broken tiles and replaced all the lights bulbs	Engineering	Completed	
Backflow Inspections	Annual inspections	Martin Fire & Backflow	Completed	
ER/ MPR Remodel	Remodeled the entire space, including flooring, painting, and removing the old mechanical files	Engineering	Completed	
RHC/Plumbing	Repaired the clogged line	Engineering	Completed	