

VMNH FACILITIES COMMITTEE  
Minutes  
20 August 2021, 2:30-4:00PM at VMNH

## I. Welcome

Board Member Attendance

Present- Jennifer Burnett, Tom Benzing, Lisa Carter (phone)

Absent- Cord Cothren

No quorum present

## II. ESCO presentation

Jonathan Martin

Siemens staff presents about project—

- Provided background
- Describe energy savings performance contracting overview
- Completed an investment grade audit (IGA)- technical approach
  - Explains costs of project, final cap of how much VMNH pays, etc.
- IGA Recommended Energy Conservation Measures (ECM)
  - Solar Power Array
    - Explains roof size, recommended minimum size 61.2 kWdc
    - Have preliminary design for future solar needs, panels warranty, etc.
  - EV Chargers
    - Won VA DEQ grant for four chargers, don't have price for installation
    - Level 3 chargers
    - Visitors pay to plug in, carbon offset option?
  - LED Lighting Retrofit
    - Recommended strategic retrofit for lights used over 700 hours annually
  - Building Envelope
    - Recommended: insulation and weatherization (including weather stripes, sealing, black out glazing)
  - HVAC/ BAS Recommissioning
    - Audit and retrofit all elements of HVAC system
  - Refrigerant Catalyst
    - Conditions refrigerant system with chemical to increase efficiency throughout lifetime
  - Generator Heat Pump
    - Must maintain a certain temperature of generator, uses heat pump instead of electricity
    - Hope to place inside, to capture heat from transformer, pipes, and pumps
- IGA ECM Considered and Not Selected for Implementation
  - Humidification system

- Humidification retrofit- ultrasonic room units
  - Instead plan to maintain current system
  - All options were cost prohibitive
- Water-related projects not selected
- Recommended ECMS- Project Potential
  - 2.48% interest rate (valid through 7/26/21, lock in rate ASAP to ensure lower interest rate)
  - \$1,628,841 maximum project cost
  - \$106,011 annual savings (one-time solar grant savings of \$79,000)
  - 15.0 year project savings, annual savings will lessen after 15 years end
- Timeline
  - Construction kickoff 10/1/21
  - Contract coming soon
- Plan to bring up at board meeting, Tom will make motion

### III. Major projects

- VMNH-Waynesboro Campus Tom Benzing
  - Funding is being held in state processes, not released yet
  - No RFP released until funds released
  - Meeting with JMU staff, likely provided project management for Waynesboro campus
    - \$74 an hour, no charge for travel (close proximity to site)
    - Have capacity for project, completed similar project for Lord Fairfax Community College
- Jean S. Adams Education Pavilion Jonathan Martin
  - Approval, waiting for wage verification from the state, must be certified before project moves forward
  - Bid documents in the works (will be finalized soon)
- Douglas Ave roofing Tim King
  - Opened bids and selected contractors (the lowest bidder)
  - Waiting for architect to meet posting requirements
  - Hopefully start in January, because of manufacturing delays
- Audio system overhaul Jonathan Martin
  - Under \$100,000 so no need for approval from DGS
  - Add speakers in building rear, front plaza, and Hall of Ancient Life, will run on separate channels
  - Waiting for materials
  - Adding sound dampening materials, hung from ceiling
  - Maintenance reserve project

#### **IV. Future work**

Joe Keiper

- Early Childhood Learning Center
  - Large library compactors can be surplused (even though purchased with bond money), but cost associated with transport and removal
  - Interest from other state agencies, and will break even or make a profit
  - Once Douglas Ave. is completed, can begin the process
  - Timeline is two years to begin, will then complete a local fundraising campaign (less than \$1/4 million)
  - Kiwanis are interested in supporting as well
- Canopy Walk
  - Mark Buss (new trustee) will visit canopy walk in botanical garden in Atlanta
    - Project cost \$22 million total (walk was one of many components)
    - More research about other costs to be continued

#### **V. Open discussion**

- Stage purchase is success, rented to other groups as part of community partnerships
  - First concert is with the Matthew Wade Foundation
- 2 of the 4 water fountains installed (that fill water bottles), will be installed every Monday
  - As part of organization's goal to eliminate single-use plastics

#### **VI. Adjourn**

- Meeting adjourned at 3:40