

WORKGROUP FOR INNOVATIVE SOLAR ENERGY RESOURCES (WISER) MINUTES

July 7, 2021

Present

Kimberly Newton, Bill DeBusk, Nick Sanzone, John Constantinide, Bill Young, Amanda Elmore (Planning & Development), Marc Bernath (Public Works), Leo Da Silva (Public Works), and Michelle Adams (Administrative Secretary)

Call to Order

Called to order 5:12 p.m. by Nick Sanzone, Chair

Determination of Quorum

Quorum was determined

Approval of June 2, 2021 Minutes

Motion by John Constantinide, seconded by Bill DeBusk to approve the June 2, 2021 minutes with the correction of Zach Lovering to Zach Eichholz. The motion passed unanimously.

New Business

Kimberly Newton addressed an email from Bruce Lindsey regarding the arrival of the Mardi Gras cruise ship. She said they should not endorse Liquid Natural Gas because the clean energy footprint is assessed post use not harvest, if including fracking footprint and how they accumulate the gas, it's not clean energy or renewable; it's not in line with their criteria. Bill DeBusk said he agreed, ships are adhering to requirements for low sulfur output but it's not a County issue. John Constantinide said it's out of scope; it's a port, infrastructure and energy issue. They're looking at implementation of renewables and the County's plan; they shouldn't promote a specific company. Nick Sanzone said it's good information but agreed it is out of scope; respectfully they'll not include it in the document.

Leo Da Silva introduced himself as the Facilities Operations Manager for the County; he primarily manages 01 facilities which is approximately half of the County's facilities, the other half are his secondary priorities and not his direct responsibility. He works under Marc Bernath in the Public Works Department. Utilities are one of the things they manage; he received a call from FPL, presenting an opportunity to save money as utilities and natural gas are going up. They offered a chance to lock in rates for one year at 41 cents per therm or 38 cents per therm for three years. He wasn't given enough data to decide and it didn't sound like it was negotiable; once in, the rates are locked even if rates went down. He confirmed that he received John Constantinide's response. John Constantinide said it sounded like someone trying to make a pitch and advised going to the County's FPL account manager to discuss tariffs, rates and contracts that have been in place. A past contract could be found from when the County got a good deal and past provisions could be invoked. After contract review, the County could decide if they need to approve any rate escalation. Governments interact with utilities differently than commercial entities.

There is a recommendation for an Energy Manager but right now they don't have one. Regarding FPL, his predecessor just signed it; when it was brought to him as a red flag, he thought to bring the question to this body. The way they'd been doing business is not the right way forward. They've one person who handles Facility contracts, they're not a specialist in anything utility related. If they do get an Energy Manager he sees relevancy for a group like this if they're agreeing to be back office support to Facilities staff. John Constantinide said WISER is a volunteer County appointed body; he is not sure how much volunteer citizens can weigh in on professional items. If there will be a group such as WISER that continues, it needs to be specified that it includes a qualified person.

Kimberly Newton said, in regards to the fracking gas contract, it will continue to be used so there may be a supply and demand factor. It's trending now due to a price point downfall and the marketing has

increased to push that gas to a lot of different industries including plastics, space and cruise ships. It's a misnomer that it's a cleaner energy as it's measured post use, not at harvest. She asked about the County facilities that run on Natural Gas and proposals to increase or decrease. The WISER group's plan did not include a transition into a phase of Liquid Natural Gas, but Orlando did; they may be a good resource. Marc Bernath said the fleet vehicles is a separate department, that's a criticism of their report. The County is fairly big and he's not aware of any plan by Central Services to address or move away from the current fleet which uses diesel. Facilities doesn't have energy specific projects; they've a 29 million dollar back log of critical things that are breaking every day. They're not looking toward the future but looking to buy band aids every day. They've pitched a plan to dig themselves out of a decade long hole, to the County Manager and have his support. Investment was made before their arrival but not the type needed. Assuming the budget is approved by Commission, they'll start making investment to address the gap. He said they're only aware of the problems they know about; they've told them, without a full facilities assessment of the entire County, they don't know about the things they haven't looked at and have plans for the full facilities assessment. The 29-million-dollar number will grow. The energy items are important but he is looking at how to fix today's fire.

John Constantinide said the Energy Transition Plan could dovetail in. Some energy conservation measures could be tied into the facility condition assessments and upgrades; both could be justified looking at value added. It's a plan, it might not get done and may be changed 50 times. Marc Bernath said Facilities does not have a revolving fund established, it would have to be discussed. They rely on general funds for Facilities. HVAC is one of the things talked about, they'd want to do it efficiently, but are not making investments solely for the purpose of energy reduction or switching to natural gas. Kimberly Newton said similar municipalities have used this for guidance as they get to those replacements and repairs, not proactively.

Nick Sanzone summarized Zachary Eichholz email comments as, the City of Cape Canaveral unveiled their first resiliency plan and it may be worth mentioning the different things going on in the community including Satellite Beach's Sustainability Action Plan. Nick Sanzone said they should recognize the community and what's going on in regards to resiliency, sustainability and energy efficiency.

Marc explained his comment regarding the Executive Summary paragraph four, he asked how they know that a 25% energy reduction has been achieved. John Constantinide said he got the data from the Investment Great Audit in 2013. Marc Bernath said he knew it was proposed but was told by Scott who proceeded Leo that the County elected not to do it, it was too costly. Nick Sanzone said if it's only a projection that hasn't been verified, they'd want to adjust the language. Marc Bernath said Leo is one contract person for all construction and services, and isn't validating any of this. They need an Energy Manager to do better, but is not sure they've saved anything. Measurement validation is imperative. They did some of the energy recommendations but does not know if they achieved the desired effect. Bill Young said if an Energy Manager hiring Honeywell, contracts for a percentage under, the contract manager must hold their feet to the fire to make sure it happens. If personal changes happen, the contract may not be enforced. Nick Sanzone said it must be noted that one of the roles of the Energy Manager will be to hold people's feet to the fire, review those contracts, make sure it's implemented and the goals are followed through. John Constantinide said, and the WISER Board agreed, that the sentence regarding a 25% reduction should be removed since it can't be verified. Amanda Elmore said they should agree that where there are figures, they'll either cite them, change the language or remove them. John Constantinide said that anything without a citation will be

removed; within the County, if may not be appropriate to cite. He will turn the Con Edison Solutions into a citation. The 25% was a legacy item, if not valid it should be removed. He can start from scratch with a bold statement. He did cite the 15% in the next paragraph, in appendix two; he can provide a more direct citation.

Marc Bernath said his other underlines were notes regarding the intensions of the WISER Board as a permanent Board. He doesn't think one Energy Manger can act this quickly or handle the scope of the County. Leo manages 01 facilities such as the Courthouse and jail; 02 facilities such as firehouses and libraries call him when needed; Marc finds it strange to be fractured that way. He said if they were going to do something energy wise, they'd have to figure out how to take all that over, they don't have the infrastructure, manpower or oversight. Leo gets the utility bills for Facilities. The production of water for Mims, down south, sewer, electrical, anything that's the utilities department or the sanitation folks, central services and the fleet management, it has nothing to do with it. They've nothing to do with the facilities for Parks and Recreation other than by invitation only. One energy manager inside Facilities is the wrong place. The mention of the sustainability department needs to be brought up front and be directly under the County Management office. He suggests that each large department would need their own Energy Manager. He's not sure it has focus because they want to do everything. A place to start could be an Energy Manager for County Facilities, to start to build successes, that person funding themselves through grants and projects, then expand from there. Regulating business is Planning and Development and fleet is Central Services. The timeline is too ambitious, it takes an average of 286 days to hire someone and it's also dependent on the budget cycle. He suggested a level one Ashrae, going through these buildings, all of parks and utilities to come up with energy conservation measures. He sees it as months or years to develop a comprehensive plan. The audit from 2013 is probably now useless, they've likely band aided the equipment so many times, what was recommended can't be trusted. He has found the County government to have more bureaucracy that the federal government.

Nick Sanzone asked for a consensus, to add to number two, the creation of an Energy Manager in a Sustainability Department under the County Manager. John Constantinide said he is talking about changing the strategy of the plan. It's a broad plan but have been charged by the County and Board to address a very broad number of items. It may have not have been made clear that not all will be done by the Energy Manager. They may need to restrategize after a clearer picture from Marc was given including how the departments work amongst themselves in a tenant like fashion. Kimberly Newton asked Mark about who absorbs the Energy issues for other departments such as Fleet and Parks. She asked if he recommended a designee for each department or an Energy Manager for the entire umbrella. Marc Bernath said he's not aware of the energy functions others have or of an energy program for the County. Utilities, Planning & Development, Natural Resources and Public Works are in the same building but all are focused on their own piece of the pie; the departments do coordinate things that overlap. It's hard to imagine that one Energy Manager could grab it all. Kimberly Newton said that supports the idea of one person or entity whether it's a staff of a couple people or fifty; there currently is nobody to liaison between departments which could lead to additional energy savings rather than individual audits and efforts. Marc Bernath emphasized that some departments have nothing to do with others such as Parks and Rec and fire stations. For repair needs those facilities have some of the same skill sets that Leo has such as electricians and plumbers but may come to them with extensive needs such as construction. John Constantinide said he supports changing number two, limiting the scope at first and then allowing for a broader scope to multiple designations

across departments so each has its skill set with specific expertise. They could consolidate but there will be boundaries crossed, which may not be affective from a process standpoint.

Nick Sanzone agreed it would be great if the department was its own, under the County Manager with liaisons in each department who would communicate with the Energy Manager. It's similar to how they run their green team in the City of Satellite Beach. He suggests language such as, creation of an Energy Manager position and a Resiliency Department with liaisons to all departments. Amanda asked if it should be creation of an Energy Manager for Facilities and questioned what a liaison would be liaising at first. Kimberly Newton said it would be the deficits in each department. Amanda Elmore said what would work is having success with one position that reports to Leo for 01 Facilities, limit their scope, let them have success and then replicate the position, building the program. They need to be specific. Marc Bernath said if Facilities is the biggest area to save money and the County's facilities are under Leo, that's an area they can have success in. Leo Da Silva said they can have specific goals, such as wanting to reduce their energy consumption by 20 percent in the next 20 years and listing the areas they can save energy such as facilities and vehicles. They should develop a project with a structured breakdown of how to achieve that goal. John Constantinide said their plan may give them justification to say that citizens have asked for this. He does not want to bring something detailed to the point where the County picks it apart, he would rather Public Works come in and say they have backing from a workgroup provided by the Commission and will substantiate it with their own information. The WISER Board doesn't have the details they do. Once they get the verification information that they have the authority to put in, they'll have more horsepower to do more. This is at a high level, it's all recommendations.

Bill DeBusk said he agreed with recommending the Resiliency office and the Energy Manager; Facilities being a great place to start. Somebody needs to figure it out on a broad scope because it's so fractured. Marc Bernath said they could recommend an Energy Manager whose initial scope would be Facilities; they could look at how that would expand into an overarching system for the County and that's the rest of the report, the other things they should dive into. Facilities would need to a full time Energy Manager to support the Energy Manager. It must be clear to the Board that it requires additional investment so that it's not left to one person to do it all. Nick Sanzone suggested editing number two to include support staff in appropriate departments and define the Energy Manager position as a pilot project within the Public Works Department. In goal three, where they've bolded the recommendation for the Energy Manager position, they can add a section that defines it and states, based on the recommendation of the Public Works Director, they'll use this department where it can have the most tangible impact and grow the position from there.

Marc Bernath said the recommendation would be better coming from the WISER Board rather than himself. He does think the position would be helpful but it was not in his County budget submission because there are three or four other positions that he needs, more critical than this. The WISER Board was tasked with looking at it and he has been very straight forward that it's not in their priorities based on all their unfunded. It is inconsistent with his budget submittal. John Constantinide said they can eliminate the part where he recommends it and only state that he has told them there is not an Energy Manager; they need to address the lack.

John Constantinide said this could justify WISER's continued existence in order to create a continual projection plan for items beyond facilities such as EV, Solar PV, mitigation of peak demand and code changes. It could take that burden off of the Energy Manger. There is a lot beyond facilities that this

plan is addressing. The Energy Manager could take care of Facilities and the future WISER can take care of the rest. Bill DeBusk said they can do the gas price and natural gas research.

Leo Da Silva asked if they consulted other counties in their research that have successful programs in place. Kimberly Newton said several of them are involved directly with counties and cities; she followed Orlando's and Orange County's plans for the past five years as they've implemented and recreated. The Solar Center and other associates bring a wealth of daily interaction, that's what they do and why they were chosen. John Constantinide said they did read success stories, this would be unique with more citizen involvement than something more technical. Items four through six on page three, are high level items the WISER could still address but items two and three can be focused on the Energy Manager positions, focusing on facilities and looking at energy conservation. They already have FPL's Solar Together program. The Energy Manager may want to look at the possibility of bringing that in to the facilities regarding utility rates, a big issue. There may need to be an Energy Manager and a Utility Manager. The Utility Manager may be more poised to address utility contracts, rates, negotiations and the continuation of Solar Together.

Marc Bernath said the Energy Manager wasn't a priority. He had asked for other positions this year and was told they don't have the money. The selling point for this will be return on investment. He had a Utility Manager and Energy Manager at his previous job, here there is a contract person who does it all. Kimberly Newton said the return on investment will be more than identifying the cash savings. Resiliency across the board, public health and money that won't be spent, are quantifiable. Counties such as Pinellas, Miami-Dade and many others are way ahead in their efforts.

The WISER Board and Marc Bernath discussed the timeline for hiring the Energy Manager. John Constantinide suggested a two-year implementation plan. Marc Bernath said the next budget period starts next Spring, the budget presentation is in June; approval for the following year is in September. The board consensus was to append the timeline language to, for budget fy 2022/2023. Marc Bernath said his decision to include the request in his budget depends on how this report is received. If they don't have the Commission's support when they deliver this, he wouldn't go against them; if they do have support, it will be in his submission.

Nick said he wanted to include Table 1 on page 10 in the power point. Marc Bernath said the square footage (1,742,860) looks like 01 facilities, they've 4.5 million square feet for 01 and 02 facilities. That should be caveated appropriately. Leo is responsible for maintaining 01 facilities, he maintains 02 facilities as needed. John Constantinide said he realized there were more County buildings but didn't know the difference between 01 and 02 until this meeting. Leo Da Silva said they're all County facilities but they're only funded to maintain 01 facilities, which are non-reimbursables. John Constantinide said he will keep the 01 figure, as it is most appropriate. Nineteen years is a long payback for solar and ECMs; he was conservative with ECMs as Orlando advised his figures were a bit aggressive. Energy conservation measures may need to be separated from solar in a chart. Marc Bernath said average solar warranties are 10 to 15 years and the chart shows well past that.

Nick Sanzone said he will make changes to the presentation as approved by the WISER Board during this meeting and John Constantinide will make changes agreed on in the document. Those changes will be reflected in the minutes. John Constantinide said he will rework the table, removing the 02 facilities when he receives the list of 01 facilities. It'll be limited to a sample, noting it's a sample since the County pays for both types of facilities but pays Public Works for 01 facilities. Marc

Bernath said to note that not all are overseen by Public Works Facilities. Amanda Elmore said to note that it's a sample of the 4.5 million square feet. John Constantinide said in the sentence that describes the summary for tables one and two, portion will be replaced with sample, of the 4.5 million square feet of County building facilities, maintained by both Public Works and other departments. Marc Bernath said that he has addressed his concerns, he realizes a lot of work went into this and he appreciates it. Kimberly Newton said she wished they had met with him sooner but appreciates that he had several months on the job to learn where the disfunctions were.

Nick Sanzone said a change is needed on page seven where it lists 14 County facilities and 17 libraries. John Constantinide said they'll add another table there to break apart the solar from the ECMs. The Commission may want to at least pursue the ECMs. Kimberly Newton asked about someone in charge of weatherization and energy audits or if that was part of the deficit. Marc Bernath said there is nobody doing audits, the backlog is of critical issues that are ready to break or will break in the next couple of years including HVACs, leaks and plumbing issues. It's not about saving money, it's keeping things operational. John Constantinide said they're WISER, they deal with electricity, but in energy audits, water can be saved; he will include it. Bill Young said in Titusville, developers are getting approval to build on top of well fields. There is a group of people now pushing for water rights. The city was fined \$250,000 for a sewage spill four months ago which polluted a lot of the water the city pumped. There is a lot of cost and energy there. John Constantinide said it's not in their charge, they should mention it and cite a study of the cost, but not quantify it. Marc Bernath said water is the Utilities and Sanitary Departments, not Public Works. There is not an energy performance contract.

Nick Sanzone referenced goal three, identify policies and practices that serve as barriers, and said they may need to mention how big the scope is. It requires the Board to continue, to refine what they've been working on, work with an Energy Manager, grow the position and find the test bed for it. Marc Bernath said to underscore that it's not one person. John Constantinide said the facilities part of WISER goal one would be great for the Energy Manager. Goals two, three and part of one could be developed by WISER, who would make further recommendations. Nick Sanzone said they'd need to recommend the scope of WISER not be limited to solar. The group discussed possible name revisions for the future WISER group and the meaning of sustainability and resiliency. Amanda Elmore said they don't need to determine their acronym now but need to say what they want to do going forward; it has to be valuable to departments like Marc's and others. John Constantinide said they could explain that they'd continue to do more with the three goals. Nick Sanzone said they'd ask for approval to continue the Board, based on the goals of the Board and they'd recommend that their title reflect their scope and discussed in their first meeting. Bill DeBusk said the WISER group has people that can back up an Energy Manager, citing what they do in various cities in their professions. They could be support for helping the County figure out how to organize, attack, and solve the problems. Amanda Elmore explained that WISER does not fit on an organizational chart, they'd be an advisory board. They've advisory boards that different departments present to. For example, a department with an ordinance change would present to the Building Construction Advisory Committee, they provide a recommendation that goes to the Board. She sees them to be the same as other advisory boards. Right now, their staff liaison is through Planning & Development; that may change moving forward, possibly being the Energy Manager. It may evolve as their focus evolves. It will take a resolution to resurrect them and they need to agree on the language for that request. They're sunseting after this meeting and can't meet until after the report is presented and either accepted or rejected.

Nick Sanzone said they will suggest being reincarnated as a new board and based on the findings of the WISER board; the scope of the new board would be to facilitate a relationship with the Energy Manager position that will grow into a larger scope. They could recommend a Workgroup of innovative solutions for energy resources (or conservation, or resiliency). They can give examples of possible titles. Kimberly Newton said they should state it as resiliency department support staff which would lend to familiarity with the concepts. Amanda Elmore said that the County Commissioners are very intelligent people, highly educated. Nick Sanzone edited the recommendation as, recommending the creation of a workgroup for innovative solutions for energy resiliency, that board will work with the Energy Manager to facilitate the implementation of the recommendations of the WISER Board and that the WISER Board should be staffed with individuals that represent.... Amanda said she would send language from the original posting she will send him. Kimberly Newton said the board should be charged with the identification of issues. Marc has been here for less than a year and has found 29 million dollars of problems needing solved that were already sitting there. John Constantinide said he assisted Leo with questions; they're a resource for the community and County staff. Amanda Elmore said that mentioning their function as cross departmental support is important. She will resend a list of departments she had thought the group would touch.

Nick Sanzone said to strike the following sentence on page two, resources from existing programs and plans are already in place and have achieved a 25% reduction of energy consumption and to add a citation for the 15%. John Constantinide said page three, number two will read, Energy Manger position focused on Facilities as a pilot position for application in other County department efforts including EVs and solar with the long-term goal of creating a Resiliency Department that oversees Energy Managers in multiple departments. Marc will not recommend but will say there is no Energy Manger; any Marc recommendation will be changed. Nick Sanzone said the timeline on page four will change. In reference to finances on page five, Marc Bernath said, for Facilities, it's all mission or generally funded. He doesn't know what it would take for a revolving fund. He thinks of Utilities as a revolving fund because they're collecting revenue. John Constantinide said he will leave that language as is. He will split up table one, facility ECM and table two will look at paybacks with solar and ECMs, so the ECMs alone will get their say. The table from the top down to simple payback of ECMs alone, 8.11 years, is one. Table two will start with estimated total cost to install roof-mounted solar panels, to the end. The dates on page four will be changed to the 22/23 budget cycle. He will shift WISER goals two and three to be done by the successor of WISER and half of one not dealing with facilities, the other half of one relating to facilities to be done by the EM. The EM can start to be focused and then grow into the other positions. Referencing goal one and the three plans he said appendix one will be done by the EM. Appendixes two and three they need to stew with, they'd be done by other EMs.

Bill DeBusk said it doesn't make sense to him to split these items up between different Energy Managers. The first Energy Manager is already being recommended for Facilities, it's for them to decide what to do, he doesn't think WISER is part of any of these. The appendixes contain best practices and cost benefit analysis for putting solar on a facility. John Constantinide said WISER would develop the vision and planning. Regarding the continuation of the WISER Board, on page three he will add sublevels to number one, four through six will become a through c under number one. The creation of the Energy Manager position will be extra language they'll put in. Number three can become 2a. Nick Sanzone said 2b could describe the future of the Energy Manager position becoming a Director in a Resiliency Department. Bill DeBusk said he doesn't think the WISER Board will be the one to investigate and deploy energy conservation. Someone will go out, examine the

buildings to see what needs to be done to put these ECMs in. John Constantinide said that would be for the EM, he was talking about the planning. They made a 130-page plan, it won't be the last. Bill Young said it's not an application it's a vision. Bill DeBusk said his vision for the extended WISER Board was to help support the County to move forward with these recommendations, not do them. John Constantinide said he would keep number six and create sub-bullets for one and two so there is more of an explanation of what WISER would do, what the EM would do and how it would develop to many EMs and a Resiliency Department. Three through six would stay intact.

Nick Sanzone said, regarding Marc's comment on page 15, another paragraph would be added to say the Energy Manager will initially be housed in the Public Works Department and will be used as a testbed to prove its efficacy and will eventually grow into a Resiliency Department of its own where an Energy Management Director can oversee multiple Energy Managers in the appropriate departments. John Constantinide explained that this place, in goal three is where they identify policies and practices that serve as barriers to the adoption of advanced energy technology and make recommendations on policy revision. Part of overcoming a lot of those obstacles is to have the people in place to execute vision and items, find solutions and become energy efficient.

Amanda Elmore said they'd send a revised document to Marc. She thinks it will be brought to the August 24th meeting. John Constantinide suggested he could meet with Leo or Marc. Kimberly Newton said she has appreciated their input but from this point, changes shouldn't be made per their recommendations outside of what the WISER Board can agree on; they need time to assess their recommendations. John Constantinide said they can't meet again. Amanda Elmore said that if there is an additional comment from Marc or Leo, they'd state it in the staff report. Nick Sanzone recommended a motion to allow John Constantinide to make edits to the document. Kimberly Newton said she trusts John to make those decisions based on the remaining 40 minutes they have as a Board tonight, but to take conclusions they agree upon as a Board then consult outside of their Board, she does not agree with. Bill DeBusk said it would be fine, but no interactions after tonight. Amanda Elmore said they won't be able to approve a draft, she will send the final document to everyone when John sends it to her. Marc has to be familiar with what's in it or he can't brief the Commissioners. There might be some things that Marc will have to say they aren't sure about. It is their product, not staff's product. John Constantinide said he can put staff comments to the final version in footnotes. Kimberly Newton would agree as long as it is noted as an additional comment to their document, not changing the document itself.

Motion by John Constantinide, seconded by Bill Young to allow John Constantinide to implement the changes discussed, present a final version to staff and to note staff recommendations in the final version. The motion passed unanimously.

Old Business

Nick Sanzone read through the following presentation which includes some subsequent edits made by the WISER Board.

Slide 1: Workgroup for Innovative Solar Energy Resources (WISER)

Brevard County, Florida

Energy Transition Plan (ETP)

<http://www.brevardfl.gov/PlanningDev/workgroup-for-innovative-solar-energy-resources>

Slide 2: County Energy Resources History

- Brevard County Government has already taken significant steps in transitioning to clean energy.
- On January 22, 2019, Brevard County approved the FPL Solar Together program. Allowing the County to virtually offset its power consumption with solar panels without the need of owning equipment.
- In 2012, ConEdison Solutions completed an Investment Grade Audit (IGA) report. Implementation of the recommended energy conservation measure (ECM) would result in total avoided cost of over \$9M and an annual savings of over \$45,000.
- Brevard County has waived PV permit fees since 3/20/18. Current program expires 3/19/2023. There have been 1,040 Solar Photovoltaic fees waived from 3/20/2018 to 7/5/2021 valued at \$261,602.11.

Slide 3: Workgroup for Innovative Solar Energy Resources (WISER) Overview:

- Define: Workgroup for Innovative Solar Energy Resources (WISER)
- Role: WISER provides Brevard County with information and resources needed for the transition to using clean energy.
- Methods of innovation: Improving energy conservation, transitioning to solar and/or wind power, energy storage, and transitioning to electric vehicles.
- Resiliency: Furthermore, using clean energy to enhance energy resilience will justify the strategic acquisition and installation of renewable energy infrastructure.
- Return: Possible savings of over \$2.3 million over 20 years through continued implementation of energy conservation measures (ECMs) and installation of solar PV systems.

Slide 4: Graphic: Donald Duck Diving

Slide 5: Graphic: Aladdin Making it Rain Money

Slide 6: Graphic: Bugs Bunny Counting Money

Slide 7: What is the Energy Transition Plan (ETP)

- This Energy Transition Plan (ETP) is the product of the WISER Board.
 - This plan addresses the goals set by the Board of Brevard County Commissioners.
- The ETP addresses the challenges and opportunities related to the transition to clean-energy sources.
 - Economic sustainability, job creation, energy reliability and independence, and long-term resiliency will all be addressed as beneficial results of the plan.
- The ETP recommends changes that will support the sustainable and resilient growth of Brevard County, its employees, departments, programs, as well as its residents, businesses and other community stakeholders.

Slide 8: Picture of Nick Sanzone with Rooftop Solar

Goals: The Board of County Commissioners created three goals to give direction to the WISER Board.

Slide 9: WISER Goal 1: Cost-benefit analysis and plan for County government to transition to clean energy sources.

- Reviewed:
 - Solar Together

- 2013 ConEdison Solutions Investment Grade Audit (IGA).
 - Reviewing 14 county facilities and 17 libraries.
- Market: Since 2010, the cost of Photo Voltaic (PV) has dropped 82%
- Created:
 - Energy Reduction Implementation Plan
 - Facility Clean Energy Transition Plan
 - Electric Vehicle (EV) and Fleet Transition Plan

Slide 10: WISER Goal 2: Recommendations to improving public access to economically beneficial clean energy technology.

1. Provide support for events that highlight clean energy
2. Promote solar ready construction
3. Provide education and disseminate information about energy efficient construction, the International Green Construction Code (IgCC) powered by ASHRAE Standard 189.1, and weatherization
4. Support Florida Solar Energy Center and other related community efforts
5. Incorporate electric buses for Space Coast Area Transit when feasible
6. Procure, promote, and install PV, EV, charging infrastructure at County facilities
7. Promote the installation of EV charging infrastructure at commercial and residential properties

Slide 11: WISER Goal 3: Identify policy and practices that serve as barriers to the adoption of advanced energy technology within the County and make recommendations on policy revisions.

- Internal
 - Practices,
 - Hiring an Energy Manager will solve most of these internal barriers.
- External
 - Education:
 - Codes
 - Policy

Slide 12: Figure 1. FPL Comparisons of Harry T. and Harriette V. Moore Justice Center.

Graphics: Rooftop Solare and FPL Solar Together

Slide 13: Table 1. Facility ECM and Solar Cost-Benefit Analysis Summary:

Slide 14: Recommendations:

1. Maintaining WISER as permanent Board with broadened responsibility to address ongoing energy, water, and resource conservation and transition.
2. Creation of an energy manager position.
3. Identify and implement energy efficiency measures (EEMs) with County assets.
4. Investigate and consider energy conservation and clean energy adoption strategies; considering Brevard County's participation in Florida Power and Light's (FPL) Solar Together Program.
5. Prepare for the imminent transition to electric powered vehicles.
6. Develop an integrated energy plan for solar PV systems, EV charging, mitigation of peak demand charges, and power resilience.
7. Take actions to empower Brevard County residents to transition to clean energy sources.

Slide 15: WISER Accomplishments

- Completed Brevard County Energy Transition Plan
- Developed Three Detailed Reference Documents with a cost Benefit Analysis Sections.
 - Energy Reduction Implementation Plan
 - Facility Clean Energy Transition Plan
 - EV Transition Plan
- Developed Electric Vehicle Cost Benefit Analysis tool.
- Provided Recommendations for Removing Barriers and Improving Public Access to Clean Energy.

Slide 16: Any questions?

Thank you

Graphic: Lightbulb with Inset of Solar Panels

Slide 17: Appendices:

1. Energy Reduction Implementation Plan (Appendix 1)
This is a clean energy strategy to reduce energy footprint through building energy audits, energy conservation measures (ECMs), such as weatherization, and installing solar technologies on facilities to the meet remaining energy needs.
2. Facility Clean Energy Transition (Appendix 2)
This provides clean energy solutions for facilities, with a primary focus on solar photovoltaic (PV) systems. Cost-benefit models are included to strategize solar system implementation with ECMs.
3. Electric Vehicle (EV) and Fleet Transition (Appendix 3)
This is a strategy to help Brevard County leaders understand and uncover the opportunities available to get municipalities on the path to electrify municipal fleets and public transit. Furthermore, this provides guidance for how to best encourage

Amanda Elmore said that he can pull a table that he needs to replace in the presentation from the final document. Kimberly Newton said it's important to close with the information on slide 15. Amanda suggested to take out any words that aren't absolutely necessary. They won't be able to finish this today, they'll need to take a vote to trust Nick to make sure the presentation is reflective of the plan that John sends. They'll need to allow for scrivener's errors as well as changes that staff might offer such as the wrong department being referenced. He will need to mirror the language in the plan.

Motion by Kimberly Newton, seconded by Bill DeBusk to allow Nick Sanzone to draft the final presentation using the presentation shown as the base to include corrections from Amanda or staff to finalize the Commission presentation. The motion passed unanimously.

John Constantinide said the input he is receiving is from staff and that from what is on the recorder and notes taken by the WISER Board. Amanda will collect the groups written notes to send out collectively to the Board. Bill Young said, if people weren't sustainable in the first place, that's why they're in the mess they're now. Sustainability as a basic goal needs to be mentioned in the document. Where it mentions clean energy, it should mention renewables. Kimberly Newton says her peer groups have moved past the word sustainability because we can't live if we sustain what is going on now. Bill Young said sustainability is all living creatures working together, one's waste is

another's food. John Constantinide said he would add in renewable and sustainability where appropriate. Amanda Elmore said there needs to be a vote regarding these words. Bill DeBusk said he has a problem with the word renewable, because it doesn't mean clean.

Motion by John Constantinide, seconded by Kimberly Newton to use the word renewable, paired with energy, in appropriate context when referencing clean energy. The motion passed unanimously.

Bill Young said the word clean was used seven times, the word resilience was used eight times, but nowhere was renewable or sustainability. Nick Sanzone said the definition of sustainability by the Brundtland Report is meeting the needs of the present without compromising the needs of the future. John Constantinide said they should provide a local application to the United Nations Report, perhaps including the Indian River Lagoon, hurricane response and coastline restoration. Nick Sanzone said they can include that the city of Satellite Beach has a Sustainability Board and that Cape Canaveral has recently produced a resiliency plan. John said he will include it in the footnotes.

Motion by John Constantinide, seconded by Bill Young, to strategically use the word sustainability in the context of the overall consumption and approach of energy in the County.

Bill DeBusk amended the motion to include the definition of the word sustainability as stated in the Brundtland Report as a footnote, seconded by Bill Young. The vote is unanimous.

General Public Comment

No public comment

Final Comments

Amanda Elmore confirmed that the inclusion of the words resiliency and clean were still okay. She explained that they can't discuss this plan until after the presentation, which will probably be August 24th. Nick Sanzone said he will recommend retaining the WISER Board in his presentation but not the details. He will work with Amanda on the Resolution. He thanked the group and the previous chair David Dunn, members who are not here and the Commissioners who will vote unanimously to approve the plan.

Adjournment

Motion by Kimberly Newton, seconded by John Constantinide to adjourn the meeting at 7:55 p.m. The motion passed unanimously.