



**Western Interstate  
Energy Board**

**Business Plan and Budget  
Fiscal Year 2018-19**

April 18, 2018

Approved by:  
Members of the  
Western Interstate Energy Board

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## TABLE OF CONTENTS

Organizational Overview .....	3
Budget Highlights .....	4
Current Financial Position -- FY 2017-18.....	5
Proposed Budget -- FY 2018-19 .....	6
2018-2019 WIEB Initiatives.....	7
Budget Analysis9	
Reserve Policy 12	
Reserve Expenditure Plan .....	12
Budget Recommendation.....	13
Appendix A – Detailed Tables.....	14

## Organizational Overview

The Western Interstate Energy Board (WIEB) is an organization of 11 Western states and three Western Canadian provinces. The legal basis of WIEB is the Western Interstate Nuclear Compact (Compact) (Public Law 91-461), which provides that WIEB’s purpose is to provide the instruments and framework for cooperative state efforts to “enhance the economy of the West and contribute to the well-being of the region’s people.” WIEB Board members are appointed by governors and premiers of the Western states and provinces. The President of the United States may also appoint an ex-officio member to the WIEB Board. WIEB Board members work together to promote energy policy that is developed cooperatively among member states and provinces and with the federal government.

**Figure 1. WIEB Membership List.**

WIEB - Current Membership List		
Alberta	Christine Lazaruk	Executive Director, Strategy and Integration, Alberta Energy
Arizona	Brian Goretzki	Chief, Bureau of Radiation Control, Arizona Department of Health Services
British Columbia	Les MacLaren	Assistant Deputy Minister, Ministry of Energy, Mines and Petroleum Resources
California	Janea Scott	Commissioner, California Energy Commission
Colorado	Kathleen Staks	Executive Director, Colorado Energy Office
Idaho	John Chatburn	Director, Idaho Governor's Office of Energy Resources
Montana	Jeff Blend	Economist, Montana Department of Environmental Quality
Nevada	Angie Dykema	Director, Nevada Governor's Office of Energy
Oregon	Janine Benner	Director, Oregon Department of Energy
Utah	Dr. Laura Nelson	Director, Utah Governor's Office of Energy Development
Washington	Tony Usibelli	Special Assistant for Energy & Climate Policy, Washington State Energy Office

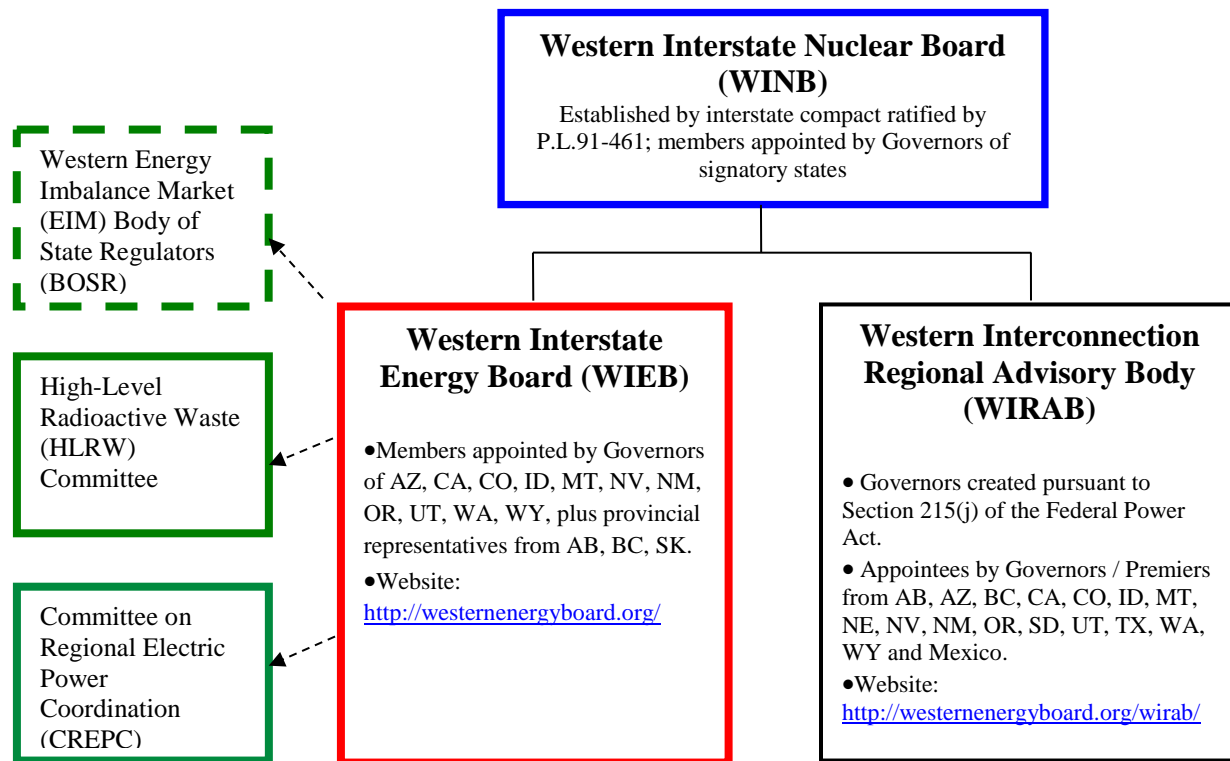
Much of WIEB’s work is conducted through WIEB’s committees or in collaboration with WIEB’s sister-organization, the Western Interconnection Regional Advisory Body (WIRAB). WIEB has two committees, which include the following:

- a. **WIEB’s High-Level Radioactive Waste (HLRW) Committee.** WIEB’s HLRW Committee—which is comprised of nuclear waste transportation experts from Western state energy, public safety, and environmental agencies— works collectively to review issues and develop policies on the transportation of spent nuclear fuel. The HLRW Committee is also working with the U.S. Department of Energy to develop a safe and publicly acceptable system for transporting spent nuclear fuel and high-level radioactive waste under the Nuclear Waste Policy Act.
- b. **The Committee on Regional Electric Cooperation (CREPC).** CREPC is a joint committee of the Western Interstate Energy Board (WIEB) and the Western Conference of Public Service Commissioners (WCPS). CREPC holds two in-person meetings each year, typically in April and October, where public utility commissions, energy agencies, and consumer advocates in the Western states and Canadian provinces gather in an effort to improve the efficiency of the western electric power system. Membership in CREPC is not formal and all CREPC meetings are open to the public.

WIEB’s sister-organization, WIRAB, is an organization of states and provinces with load in the Western Interconnection. WIRAB focuses its efforts on electric grid reliability. Together, WIEB, CREPC and WIRAB provide unique opportunities for public utility commissioners, state energy office personnel, regulated entities, industry personnel, and consumer advocates in the Western states and Canadian provinces to gather and exchange information on important energy matters.

WIEB also provides staff support to the Western Energy Imbalance Market (EIM) Body of State Regulators (BOSR). The EIM – BOSR provides a forum for state commissioners to learn about and discuss the EIM and the California ISO electricity markets.

**Figure 2. Organizational Relationships.**



**Budget Highlights**

The projected income in the WIEB FY 2018-19 budget is \$1,214,300. This is a decrease of \$29,077 (2.3%) from the current fiscal year budget. The decrease is mainly due to an anticipated decrease in budgetary requirements and funding for WIEB’s U.S. DOE Solar Energy Technologies Award (SunShot) project following the project’s inaugural year and completion of preliminary work by WIEB partners, the Lawrence Berkeley National Laboratory and the National Renewable Energy Laboratory.

Western Interstate Energy Board  
 Fiscal Year 2018-19 Work Plan and Budget  
 April 18, 2018

The projected expense in the WIEB FY 2018-19 budget is \$1,264,100. This is an increase of \$58,265 (4.8%) from the current fiscal year budget. The increase is mainly due to an increase in funding for WIEB's FY 2018-2019 Reserve Expenditure Plan (REP) projects, an increase in office rent, and increases in personnel expenses associated with cost-of-living and merit-based salary increases.

The projected expense exceeds projected income by \$49,800. This is due to the continuation of the WIEB Reserve Expenditure Plan at a funding limit of \$100,000. Table 1 shows these projections.

**Table 1. Overview of FY 2018-19 Budget**

Budget Category	Approved FY 2017-18 Budget	FY 2018-19	Difference	% Change
Income	1,243,377	1,214,300	(29,077)	-2.3%
Expense	1,205,835	1,264,100	58,265	4.8%
Net Position	37,542	(49,800)		

**Current Financial Position -- FY 2017-18**

At the 2017 Annual WIEB Board Meeting, the Board adopted its budget based on an income projection of \$1,243,377. As of December 31, 2017, WIEB had received income of \$543,350. Annual income as of June 30, 2018 is expected to total \$1,192,500. The difference in income is due to lower than expected membership dues and SunShot funding. Table 2 shows these results.

**Table 2. Current Income -- FY 2017-18**

Income Category	Approved FY 2017-18 Budget	Projected as of 6/30/2018	Difference	% Change
Membership Dues	186,000	154,500	(31,500)	-16.9%
Interest	3,500	2,500	(1,000)	-28.6%
Western Conference PSC	25,000	25,000	0	0.0%
DOE HLW	200,000	200,000	0	0.0%
SunShot Award	828,877	810,500	(18,377)	-2.2%
<b>Total Income</b>	<b>1,243,377</b>	<b>1,192,500</b>	<b>(50,877)</b>	<b>-4.1%</b>

At the 2017 Annual WIEB Board Meeting, the Board adopted its budget based on projected expenditures of \$1,205,835. As of December 31, 2017, WIEB had recorded expenditures of \$647,721. Annual expenditures as of June 30, 2018 are expected to total

\$1,285,432. The difference in expenses is due to higher than expected spending on subcontracts, meetings and direct labor. Table 3 shows these results.

**Table 3. Current Expense -- FY 2017-18**

Expense Category	Approved FY 2017-18 Budget	Projected as of 6/30/2018	Difference	% Change
Meeting Expense	53,000	55,725	2,725	5.1%
State Travel	72,430	63,030	(9,400)	-13.0%
Staff Travel	51,795	33,732	(18,063)	-34.9%
Subcontracts	577,324	693,450	116,126	20.1%
Direct Labor	230,284	240,000	9,716	4.2%
Overhead Expense	606,879	617,095	10,216	1.7%
Sub-Total	1,591,711	1,703,032	111,321	7.0%
Deduct WIRAB Indirect	(385,876)	(417,600)	(31,724)	8.2%
<b>Total Expense</b>	<b>1,205,835</b>	<b>1,285,432</b>	<b>79,597</b>	<b>6.6%</b>

**Proposed Budget -- FY 2018-19**

The WIEB FY 2018-19 budget is based on an income projection of \$1,214,300. Table 4 shows the projected income.

**Table 4. Projected Income -- FY 2018-19.**

Income Category	Approved FY 2017-18 Budget	Projected FY 2018-19 Income	Difference	% Change
Membership Dues	186,000	169,000	(17,000)	-9.1%
Interest	3,500	3,500	0	0.0%
Western Conference PSC	25,000	25,000	0	0.0%
DOE HLW	200,000	200,000	0	0.0%
SunShot Award	828,877	816,800	(12,077)	-1.5%
<b>Total Income</b>	<b>1,243,377</b>	<b>1,214,300</b>	<b>(29,077)</b>	<b>-2.3%</b>

Key assumptions underlying the income projection include:

- Membership funding of \$169,000 to support the work of WIEB and its committees (no increase in membership dues).
- \$25,000 from the Western Conference of Public Service Commissioners;

- \$200,000 from the U.S. DOE under the cooperative agreement on transportation of high-level radioactive waste (HLRW) and spent nuclear fuel (SNF); and
- \$816,800 from the U.S. DOE Solar Energy Technologies Award to address barriers to solar PV deployment.

The WIEB FY 2018-19 budget includes projected expenditures of \$1,264,100. This is an increase of \$58,265 (4.8%) from the current fiscal year budget. Increases in state and staff travel are attributable to the Solar Energy Technologies (SunShot) Award. The increase in overhead expense is attributable to increases in office rent and health insurance expenses. The following table compares the proposed FY 2018-19 budget to the current year budget by expense category.

**Table 5. Projected Expense – FY 2018-19**

Expense Category	Approved FY 2017-18 Budget	FY 2018-19	Difference	% Change
Meeting Expense	53,000	51,600	(1,400)	-2.6%
State Travel	72,430	87,300	14,870	20.5%
Staff Travel	51,795	71,700	19,905	38.4%
Subcontracts	577,324	564,900	(12,424)	-2.2%
Direct Labor	230,284	242,700	12,416	5.4%
Overhead Expense	606,879	681,500	74,621	12.3%
Sub-Total	1,591,711	1,699,700	107,989	6.8%
Deduct WIRAB Indirect	(385,876)	(435,600)	(49,724)	12.9%
<b>Total Expense</b>	<b>1,205,835</b>	<b>1,264,100</b>	<b>58,265</b>	<b>4.8%</b>

## 2018-2019 WIEB Initiatives

### WIEB-DOE Solar Energy Technologies Office Project

With funding awarded to WIEB under the U.S. DOE Solar Energy Technologies Office (SunShot) Initiative, WIEB will continue to work with the National Renewable Energy Laboratory (NREL) and Lawrence Berkeley National Laboratory (LBNL) to remove or mitigate interconnection, utility rate design, and reliability barriers to the deployment of distributed solar PV generation in the West. With the assistance of the project’s Technical Advisory Committees and Strategic Advisory Committees, WIEB will produce policy recommendations and develop outreach plans and materials to help Western states mitigate or remove these deployment barriers.

### Western Interconnection Data Analytics Project

With funding provided under WIEB's Reserve Expenditure Plan (REP), WIEB will collaborate with the Stanford Bits & Watts program to further evaluate Continuous Emissions Monitoring System (CEMS) data and other data sources to gain insights into the operation of natural gas and coal fleets and factors impacting the electric sector in the Western Interconnection.

### **Electricity Market Training for State/Provincial Policymakers and Utility Regulators**

With funding provided under WIEB's REP, WIEB and the Committee on Regional Electric Power Cooperation (CREPC) will host a Western Electricity Market Forum, using a web-based Energy Market Game (developed at Stanford University) to provide electricity market training to Western state utility regulators and energy policymakers.

### **Western Resource Planners Forum**

With funding provided under WIEB's REP, WIEB will work with the Center for the New Energy Economy (CNEE) and a steering committee of resource planners and influential industry experts to convene utility resource planners, regulators, policymakers and other experts to explore and develop specific recommendations to address emerging and cross-cutting resource planning, procurement, delivery, and electricity market issues.

### **Flexibility Assessment: Future Grid Scenario**

With funding provided under WIEB's REP, WIEB will organize and oversee an effort to analyze the operational flexibility of the electric grid in the Western Interconnection. Technological innovation and public policies are leading to significant changes in the resource mix of the electric sector. This analysis will examine transmission, resource dispatch, and cost-of-service questions under a variety of future scenarios, helping to inform states and provinces in their efforts to meet policy objectives while maintaining reliability and working to serve customers at least-cost.

### **WIEB Policies on the Transportation of Spent Nuclear Fuel**

WIEB's High-Level Radioactive Waste (HLRW) Committee will continue its efforts to develop policies regarding an acceptable and comprehensive spent nuclear fuel (SNF) transportation program. The HLRW Committee will present additional policy statements for the WIEB Board's consideration in FY 2018-19.

### **WIEB 2018 Summer Internship**

In June of 2018, WIEB will welcome a new group of Stanford University students to the Denver office, where students completing a 2-month internship will work closely with WIEB staff, integrated resource planners, and resource adequacy experts to identify core elements of resource adequacy policy and areas where the implementation of common practices can result in economic benefits. Using this information, student interns will work with WIEB staff to create a



“Framework for a Regional Resource Adequacy Policy in the West” and develop a set of policy recommendations that they will present to state policy makers and regulators in the West.

### WIEB-WGA Collaboration on State Policy Matters

In FY 2017-2018, WIEB worked with the Western Governors’ Association (WGA) to provide recommendations on WGA’s 10-Year Energy Vision and WGA’s resolution on the management of radioactive materials. WIEB will continue to seek opportunities to collaborate with WGA on state energy policy matters.

### Budget Analysis

Although the WIEB Board does not approve the budget of the Western Interconnection Regional Advisory Body (WIRAB), the Board should monitor the development of the WIRAB budget because WIEB and WIRAB share personnel and overhead expenses. The WIRAB budget is developed separately on a calendar year basis and submitted to the Federal Energy Regulatory Commission (FERC) for approval. Table 6 shows the WIEB and WIRAB budgets on a consolidated fiscal year basis for informational purposes only. WIEB expenses represent 52 percent, and WIRAB expenses 48 percent, of the consolidated budget.

**Table 6. Consolidated WIEB and WIRAB Expenses – FY 2018-19.**

Expense Category	WIEB FY 2018-19	WIRAB FY 2018-19	Consolidated
Meeting Expense	51,600	83,200	134,800
State Travel	87,300	28,000	115,300
Staff Travel	71,700	71,000	142,700
Subcontracts	564,900	100,000	664,900
Direct Labor	242,700	430,000	672,700
Overhead Expense	681,500	-	681,500
Sub-Total	1,699,700	712,200	2,411,900
Deduct/Add WIRAB Indirect	(435,600)	435,600	
<b>Total Expense</b>	<b>1,264,100</b>	<b>1,147,800</b>	<b>2,411,900</b>
Percentage	52%	48%	100%

It is also important to separate estimated expenses for WIEB in the coming fiscal year into core and non-core expenses, in order to provide a more complete picture of the organization’s minimum operating requirements. Core expenses are permanent on-going expenses that represent the minimum operating requirements of WIEB. Non-core expenses are temporary expenses that would not be incurred but for specific short-term grants and contractual

obligations. In FY 2018-19 core expenses total \$347,600 (27%) and non-core expenses total \$916,600 (73%) of the WIEB budget. Table 7 shows a breakdown of WIEB core and non-core expense.

**Table 7. WIEB Core and Non-Core Expenses – FY 2018-19**

Expense Category	WIEB FY 2018-19	Core FY 2018-19	Non-Core FY 2018-19
Meeting Expense	51,600	23,000	28,600
State Travel	87,300	43,000	44,300
Staff Travel	71,700	11,000	60,700
Subcontracts	564,900	-	564,900
Direct Labor	242,700	133,400	109,400
Overhead Expense	681,500	606,300	75,200
Sub-Total	1,699,700	816,700	883,100
Deduct WIRAB Indirect	(435,600)	(469,100)	33,500
<b>Total Expense</b>	<b>1,264,100</b>	<b>347,600</b>	<b>916,600</b>
Percentage	100%	27%	73%

The following section provides a detailed description of the WIEB budget by expense category:

**Personnel Expense:** Direct labor expense in the WIEB budget totals \$242,700. The WIEB budget includes 3.0 FTE. The WIRAB budget includes 5.0 FTE. The salaries of 2.0 additional FTE are included in Overhead Expense and allocated to both WIEB and WIRAB. The detailed breakdown is as follows:

- The WIEB core personnel expense of \$133,400 includes 50 percent of the Executive Director salary, 100 percent of the High-level Radioactive Waste Program Manager salary, and small percentages of the salary of two Attorney/Policy Analysts (1.7 FTE).
- The WIEB non-core personnel expense of \$109,400 includes 100% of the Solar Energy Technologies Award (SunShot) Project Manager salary, and small percentages of the salary of two Attorney/Policy Analysts working on Reserve Expenditure Plan projects (1.3 FTE).
- The WIRAB personnel expense includes 50 percent of the Executive Director salary, 100 percent of the salary of two Policy Analysts, and large percentages of the salary of three Attorney/Policy Analysts (5.0 FTE).

- The salaries of the WIEB Financial Manager and WIEB Meeting Planner are allocated to Overhead Expense (2.0 FTE) and are allocated to both WIEB and WIRAB.

**Overhead Expense:** Overhead expenses for WIEB total \$681,500. Overhead covers office expenses and employee benefits. The WIEB indirect rate of 101 percent is the ratio of overhead expense to direct labor expense. The indirect rate is used to allocate a portion of the total overhead expense to WIRAB in proportion to WIRAB's total direct labor expense. The budget breakdown is as follows:

- WIRAB's indirect expense totals \$435,600. This is calculated by multiplying the WIRAB personnel expense by the 101 percent indirect rate. The WIRAB indirect deduction covers 64 percent of WIEB's overhead expense.
- WIEB's non-core overhead expense totals \$75,200. This reflects the vacation/sick leave, health insurance, retirement, and payroll tax expenses associated with WIEB non-core personnel expense.

WIEB's core overhead expenses total \$606,300. This is calculated by subtracting non-core overhead expenses from WIEB's total overhead expense. However, due to the shared office space and personnel, a portion of WIEB's expenses are offset by WIRAB's indirect expense.

**Subcontracts:** Subcontract expense in the WIEB budget totals \$564,900. The budget breakdown is as follows:

- WIEB's subcontract with the National Renewable Energy Laboratory for work it is conducting for the Solar Energy Technologies Award totals \$407,800.
- WIEB's subcontract with the Lawrence Berkeley National Laboratory for work it is conducting for the Solar Energy Technologies Award totals \$90,200.
- WIEB's non-labor expense budgeted for WIEB's Reserve Expenditure Plan projects totals \$66,900.
- These subcontract expenses are all non-core expenses.

Personnel expenses, overhead expenses, and subcontract expenses account for 84 percent of the WIEB budget. Meeting expenses, state travel expenses, and staff travel expenses account for the remaining 16 percent. The following is a description of WIEB core expenses in these three categories:

- WIEB core meeting expenses include the Annual WIEB Board Meeting and a portion of conference room expenses associated with the Spring and Fall Joint CREPC-WIRAB Meetings.

- WIEB core state travel expense includes expenses associated with travel for state/provincial representatives to attend the Annual WIEB Board Meeting
- WIEB core staff travel expenses include expenses associated with sending WIEB staff members to the Annual WIEB Board Meeting.

## Reserve Policy

The level of reserves needed to cover core expenditures for two years is \$695,200. This level of reserve would allow WIEB to maintain minimum operating requirements for two years without outside funding. Given the length of time in federal budget cycles and procurement, two years is a reasonable amount of time in which to secure additional funding.

WIEB financial reserves as of June 30, 2018 are expected to total \$1,816,600 (see table A8 on page 21 for details). This amount does not include prepayment of funding for WIRAB. Surplus reserves, the amount of financial reserves above the target level of reserves, is \$1,121,400. The ratio of surplus financial reserves to targeted financial reserves is 1.6 to 1. Table 8 shows these calculations.

**Table 8. WIEB Financial Reserves – FY 2018-19**

Description	Amount
WIEB Financial Reserves as of 6/30/2018	1,816,600
Annual Core Expense FY 2018-19	347,600
Reserve Target (= Core Expense x 2 Years)	695,200
Surplus Reserves	1,121,400
Ratio of Surplus Reserves to Reserve Target	1.6
9-Year Glide Path (\$ per year)	124,600

## Reserve Expenditure Plan

On July 27, 2017, WIEB adopted a Reserve Expenditure Plan (REP) to reduce WIEB's financial reserves to the targeted level over a 10-year time-period. Through the REP, WIEB will continue to fund electricity and non-electricity energy projects sponsored by WIEB Board members and approved by the WIEB Board. Although the glide path above is \$125,000, the WIEB FY 2018-19 budget includes \$100,000 for REP projects. This amount is comprised of \$33,100 in direct labor expense and \$66,900 in payments to subcontractors. See Appendix B: Western Interstate Energy Board Reserve Expenditure Plan.

## **Budget Recommendation**

WIEB staff recommends that the Board approve the proposed FY 2018-19 budget with the following authorizations:

- 1) Authorize the acceptance of funds in the areas of radioactive waste, regional electricity cooperation, transmission planning, distributed energy resources, and emerging energy markets;
- 2) Authorize the Executive Committee (Chairman, First Vice Chairman, Second Vice Chairman, and Treasurer) to approve, between meetings of the Board, the acceptance of funds in other areas, upon the written advice of members of the Board;
- 3) Authorize the Executive Committee to approve merit increases and the exact cost-of-living increase for employees based on the increase in the consumer price index for the Denver region;
- 4) Adopt a funding reserve target equal to 2 times the annual core expense of the Western Interstate Energy Board;
- 5) Reauthorize WIEB's Reserve Expenditure Plan with a funding limit of \$100,000 for FY 2018-19;
- 6) Approve the following selection criteria for Reserve Expenditure Plan projects:
  - a. Does the project address an important energy issue in the West?
  - b. Does the issue have multi-state/province implications?
  - c. Is the issue being examined by other organizations?
  - d. Are other organizations better situated to examine the issue?
  - e. Are there opportunities to productively partner with other organizations to examine the issue?
  - f. Will work on the issue provide useful information to energy project developers?
  - g. Is there an opportunity to leverage additional funding to support the work on the issue?
  - h. Will work on the issue "enhance the economy of the West and contribute to the individual and community well-being of the region's people?"
- 7) Authorize the Executive Director and Treasurer to act as financial agents of the Western Interstate Energy Board.

## **Appendix A – Detailed Tables**

Table A1: Current Income -- FY 2017-18

Table A2: Current Expense -- FY 2017-18

Table A3: Projected Income -- FY 2018-19

Table A4: Projected Expense -- FY 2018-19

Table A5: Core v. Non-Core Expense – FY 2018-19

Table A6: Consolidated Budgets – FY 2018-19

Table A7: Bank Balances and Investments – 1/31/2018

Table A8: Financial Reserves – 6/30/2018

Table A9: WIRAB Current Expense – FY 2017-18 (For Informational Purposes Only)

Western Interstate Energy Board  
 Fiscal Year 2018-19 Work Plan and Budget  
 April 18, 2018

**Table A1. WIEB Current Income – FY 2017-18**

Income Category	Approved FY 2017-18 Budget	Received as of 12/31/2017	Projected as of 6/30/2018	Difference	% Change
<b>Unrestricted Income</b>					
Membership Dues					
Arizona	0	0	9,000	9,000	
California	18,000	18,000	18,000	0	0.0%
Colorado	18,000	0	3,500	(14,500)	-80.6%
Idaho	18,000	0	18,000	0	0.0%
Montana	18,000	9,000	18,000	0	0.0%
New Mexico	18,000	0	0	(18,000)	-100.0%
Nevada	18,000	12,000	18,000	0	0.0%
Oregon	18,000	18,000	18,000	0	0.0%
Utah	18,000	18,000	18,000	0	0.0%
Washington	18,000	18,000	18,000	0	0.0%
Wyoming	0	0	0	0	
Associate Member Dues					
Alberta	8,000	8,000	8,000	0	0.0%
British Columbia	8,000	8,000	8,000	0	0.0%
Saskatchewan	8,000	0	0	(8,000)	-100.0%
Sub-Total	186,000	109,000	154,500	(31,500)	-16.9%
Interest Income	3,500	1,065	2,500	(1,000)	-28.6%
<b>Total Unrestricted</b>	<b>189,500</b>	<b>110,065</b>	<b>157,000</b>	<b>(32,500)</b>	<b>-17.2%</b>
<b>Restricted Income</b>					
Western Conference PSC	25,000	25,000	25,000	0	0.0%
DOE HLW	200,000	127,310	200,000	0	0.0%
SunShot Award	828,877	280,975	810,500	(18,377)	-2.2%
<b>Total Restricted</b>	<b>1,053,877</b>	<b>433,285</b>	<b>1,035,500</b>	<b>(18,377)</b>	<b>-1.7%</b>
<b>Total Income</b>	<b>1,243,377</b>	<b>543,350</b>	<b>1,192,500</b>	<b>(50,877)</b>	<b>-4.1%</b>

Western Interstate Energy Board  
Fiscal Year 2018-19 Work Plan and Budget  
April 18, 2018

**Table A2. WIEB Current Expense – FY 2017-18**

Expense Category	Approved FY 2017-18 Budget	Recorded as of 12/31/2017	Projected as of 6/30/2018	Difference	% Change
<b>MEETING EXPENSES</b>					
WIEB Annual Board Meeting		1,046	6,000	6,000	
Spring Joint CREPC-WIRAB Meeting	5,000	0	5,000	0	0.0%
Fall Joint CREPC-WIRAB Meeting	5,000	7,838	7,838	2,838	56.8%
HLRW Annual Meeting	6,000	6,706	6,706	706	11.8%
WIEB-CREPC Market Workshop		22,681	22,681	22,681	
SunShot Advisory Committee Meetings	35,000	2,740	5,000	(30,000)	-85.7%
Teleconference - Per Minute	2,000	1,622	2,500	500	25.0%
	53,000	42,633	55,725	2,725	5.1%
<b>STATE TRAVEL</b>					
WIEB Annual Board Meeting				0	
Spring Joint CREPC-WIRAB Meeting	14,000	0	12,000	(2,000)	-14.3%
Fall Joint CREPC-WIRAB Meeting	14,000	6,090	6,090	(7,910)	-56.5%
HLRW Annual Meeting	11,000	7,206	11,000	0	0.0%
WIEB-CREPC Market Workshop		19,940	19,940	19,940	
SunShot Advisory Committee Meetings	33,430	3,010	14,000	(19,430)	-58.1%
	72,430	36,246	63,030	(9,400)	-13.0%
<b>STAFF TRAVEL</b>					
WIEB Annual Board Meeting				0	
Spring Joint CREPC-WIRAB Meeting	1,500	0	1,500	0	0.0%
Fall Joint CREPC-WIRAB Meeting	1,500	432	432	(1,068)	-71.2%
HLRW Annual Meeting	3,000	3,000	3,000	0	0.0%
WIEB-CREPC Market Workshop		2,580	3,000	3,000	
SunShot Advisory Committee Meetings	25,795	2,548	7,800	(17,995)	-69.8%
WIEB Other	10,000	5,904	10,000	0	0.0%
HLRW Other	10,000	2,248	8,000	(2,000)	-20.0%
	51,795	16,712	33,732	(18,063)	-34.9%
<b>PROJECTS &amp; SUBCONTRACTS</b>					
WIEB REP Projects			20,200	20,200	
SunShot NREL	470,324	224,408	572,050	101,726	21.6%
SunShot LBNL	107,000	35,237	101,200	(5,800)	-5.4%
WIRAB GridSME				0	
WIRAB Other				0	
	577,324	259,645	693,450	116,126	20.1%
<b>PERSONNEL EXPENSE</b>					
Direct Labor	230,284	135,378	240,000	9,716	4.2%
<b>OVERHEAD EXPENSE</b>					
Overhead Labor	219,167	138,289	228,000	8,833	4.0%
Payroll Taxes	67,697	34,797	70,000	2,303	3.4%
Health & Life Ins.	110,000	58,510	120,000	10,000	9.1%
401(k) Expense	63,865	34,864	65,000	1,135	1.8%
Liability & W. Comp. Ins.	10,500	9,008	10,000	(500)	-4.8%
Office Rent	57,000	33,100	61,500	4,500	7.9%
Telephone	12,000	5,505	11,000	(1,000)	-8.3%
Equipment	6,000	3,752	7,000	1,000	16.7%
Payroll Expense - PayCheck	3,750	1,627	3,500	(250)	-6.7%
Teleconference - ReadyTalk	1,800	1,051	2,000	200	11.1%
Auditing	9,000		9,000	0	0.0%
Eco Pass	5,000	4,995	4,995	(5)	-0.1%
Computer Network	14,000	9,633	16,000	2,000	14.3%
Dues & Subscriptions	4,000	2,234	3,000	(1,000)	-25.0%
Supplies	9,000	2,391	5,000	(4,000)	-44.4%
Other Overhead	1,100	887	1,100	0	0.0%
Annual Board Meeting	13,000			(13,000)	-100.0%
	606,879	340,643	617,095	10,216	1.7%
<b>TOTAL</b>					
Total Expense	1,591,711	831,257	1,703,032	111,321	7.0%
Deduct/Add WIRAB Indirect Expense	(385,876)	(183,534)	(417,600)	(31,724)	8.2%
<b>Total Expense</b>	<b>1,205,835</b>	<b>647,723</b>	<b>1,285,432</b>	<b>79,597</b>	<b>6.6%</b>



**Table A3. WIEB Projected Income – FY 2018-19**

Income Category	Approved FY 2017-18 Budget	Projected FY 2018-19 Income	Difference	% Change
<b>Unrestricted Income</b>				
Membership Dues				
Arizona	0	9,000	9,000	
California	18,000	18,000	0	0.0%
Colorado	18,000	18,000	0	0.0%
Idaho	18,000	18,000	0	0.0%
Montana	18,000	18,000	0	0.0%
New Mexico	18,000	0	(18,000)	-100.0%
Nevada	18,000	18,000	0	0.0%
Oregon	18,000	18,000	0	0.0%
Utah	18,000	18,000	0	0.0%
Washington	18,000	18,000	0	0.0%
Wyoming	0	0	0	
Associate Member Dues				
Alberta	8,000	8,000	0	0.0%
British Columbia	8,000	8,000	0	0.0%
Saskatchewan	8,000	0	(8,000)	-100.0%
Sub-Total	186,000	169,000	(17,000)	-9.1%
Interest Income	3,500	3,500	0	0.0%
<b>Total Unrestricted</b>	<b>189,500</b>	<b>172,500</b>	<b>(17,000)</b>	<b>-9.0%</b>
<b>Restricted Income</b>			0	
Western Conference PSC	25,000	25,000	0	0.0%
DOE HLW	200,000	200,000	0	0.0%
SunShot Award	828,877	816,800	(12,077)	-1.5%
<b>Total Restricted</b>	<b>1,053,877</b>	<b>1,041,800</b>	<b>(12,077)</b>	<b>-1.1%</b>
<b>Total Income</b>	<b>1,243,377</b>	<b>1,214,300</b>	<b>(29,077)</b>	<b>-2.3%</b>

Western Interstate Energy Board  
Fiscal Year 2018-19 Work Plan and Budget  
April 18, 2018

**Table A4. WIEB Projected Expense – FY 2018-19**

Expense Category	Approved FY 2017-18 Budget	Projected FY 2018-19 Expense	Difference	% Change
<b>MEETING EXPENSES</b>				
WIEB Annual Board Meeting		5,000	5,000	
Spring Joint CREPC-WIRAB Meeting	5,000	5,000	0	0.0%
Fall Joint CREPC-WIRAB Meeting	5,000	5,000	0	0.0%
HLRW Annual Meeting	6,000	6,000	0	0.0%
SunShot Advisory Committee Meetings	35,000	27,600	(7,400)	-21.1%
Teleconference - Per Minute	2,000	3,000	1,000	50.0%
	53,000	51,600	(1,400)	-2.6%
<b>STATE TRAVEL</b>				
WIEB Annual Board Meeting		4,000	4,000	
Spring Joint CREPC-WIRAB Meeting	14,000	14,000	0	0.0%
Fall Joint CREPC-WIRAB Meeting	14,000	14,000	0	0.0%
HLRW Annual Meeting	11,000	11,000	0	0.0%
SunShot Advisory Committee Meetings	33,430	44,300	10,870	32.5%
	72,430	87,300	14,870	20.5%
<b>STAFF TRAVEL</b>				
WIEB Annual Board Meeting		5,000	5,000	
Spring Joint CREPC-WIRAB Meeting	1,500	1,500	0	0.0%
Fall Joint CREPC-WIRAB Meeting	1,500	1,500	0	0.0%
HLRW Annual Meeting	3,000	3,000	0	0.0%
SunShot Advisory Committee Meetings	25,795	40,700	14,905	57.8%
WIEB Other	10,000	10,000	0	0.0%
HLRW Other	10,000	10,000	0	0.0%
	51,795	71,700	19,905	38.4%
<b>PROJECTS &amp; SUBCONTRACTS</b>				
WIEB REP Projects		66,900	66,900	
SunShot NREL	470,324	407,800	(62,524)	-13.3%
SunShot LBNL	107,000	90,200	(16,800)	-15.7%
	577,324	564,900	(12,424)	-2.2%
<b>PERSONNEL EXPENSE</b>				
Direct Labor	230,284	242,700	12,416	5.4%
<b>OVERHEAD EXPENSE</b>				
Overhead Labor	219,167	233,400	14,233	6.5%
Payroll Taxes	67,697	72,000	4,303	6.4%
Health & Life Ins.	110,000	103,600	(6,400)	-5.8%
401(k) Expense	63,865	68,000	4,135	6.5%
Liability & W. Comp. Ins.	10,500	10,500	0	0.0%
Office Rent	57,000	114,900	57,900	101.6%
Telephone	12,000	13,800	1,800	15.0%
Equipment	6,000	9,000	3,000	50.0%
Payroll Expense - PayCheck	3,750	3,800	50	1.3%
Teleconference - ReadyTalk	1,800	1,900	100	5.6%
Auditing	9,000	12,000	3,000	33.3%
Eco Pass	5,000	5,000	0	0.0%
Computer Network	14,000	19,500	5,500	39.3%
Dues & Subscriptions	4,000	4,000	0	0.0%
Supplies	9,000	9,000	0	0.0%
Other Overhead	1,100	1,100	0	0.0%
Annual Board Meeting	13,000		(13,000)	-100.0%
	606,879	681,500	74,621	12.3%
<b>TOTAL</b>				
Total Expense	1,591,711	1,699,700	107,989	6.8%
Deduct WIRAB Indirect Expense	(385,876)	(435,600)	(49,724)	12.9%
<b>Total Expense</b>	<b>1,205,835</b>	<b>1,264,100</b>	<b>58,265</b>	<b>4.8%</b>

Western Interstate Energy Board  
Fiscal Year 2018-19 Work Plan and Budget  
April 18, 2018

**Table A5: WIEB Core v. Non-Core Expense – FY 2017-18**

Expense Category	WIEB FY 2018-19 Expense	Core	Non-Core
<b>MEETING EXPENSES</b>			
WIEB Annual Board Meeting	5,000	5,000	
Spring Joint CREPC-WIRAB Meeting	5,000	5,000	
Fall Joint CREPC-WIRAB Meeting	5,000	5,000	
HLRW Annual Meeting	6,000	6,000	
SunShot Advisory Committee Meetings	27,600		27,600
Teleconference - Per Minute	3,000	2,000	1,000
	51,600	23,000	28,600
<b>STATE TRAVEL</b>			
WIEB Annual Board Meeting	4,000	4,000	
Spring Joint CREPC-WIRAB Meeting	14,000	14,000	
Fall Joint CREPC-WIRAB Meeting	14,000	14,000	
HLRW Annual Meeting	11,000	11,000	
SunShot Advisory Committee Meetings	44,300		44,300
	87,300	43,000	44,300
<b>STAFF TRAVEL</b>			
WIEB Annual Board Meeting	5,000	5,000	
Spring Joint CREPC-WIRAB Meeting	1,500	1,500	
Fall Joint CREPC-WIRAB Meeting	1,500	1,500	
HLRW Annual Meeting	3,000	3,000	
SunShot Advisory Committee Meetings	40,700		40,700
WIEB Other	10,000		10,000
HLRW Other	10,000		10,000
	71,700	11,000	60,700
<b>PROJECTS &amp; SUBCONTRACTS</b>			
WIEB REP Projects	66,900		66,900
SunShot NREL	407,800		407,800
SunShot LBNL	90,200		90,200
	564,900	0	564,900
<b>PERSONNEL EXPENSE</b>			
Direct Labor	242,700	133,400	109,400
<b>OVERHEAD EXPENSE</b>			
Overhead Labor	233,400	197,300	36,100
Payroll Taxes	72,000	60,400	11,600
Health & Life Ins.	103,600	87,000	16,600
401(k) Expense	68,000	57,100	10,900
Liability & W. Comp. Ins.	10,500	10,500	
Office Rent	114,900	114,900	
Telephone	13,800	13,800	
Equipment	9,000	9,000	
Payroll Expense - PayCheck	3,800	3,800	
Teleconference - ReadyTalk	1,900	1,900	
Auditing	12,000	12,000	
Eco Pass	5,000	5,000	
Computer Network	19,500	19,500	
Dues & Subscriptions	4,000	4,000	
Supplies	9,000	9,000	
Other Overhead	1,100	1,100	
	681,500	606,300	75,200
<b>TOTAL</b>			
Total Expense	1,699,700	816,700	883,100
Deduct WIRAB Indirect Expense	(435,600)	(469,100)	33,500
<b>Total Expense</b>	<b>1,264,100</b>	<b>347,600</b>	<b>916,600</b>
Percent	100%	27%	73%

Western Interstate Energy Board  
Fiscal Year 2018-19 Work Plan and Budget  
April 18, 2018

**Table A6: Consolidated Budgets – FY 2018-19**

Expense Category	WIEB FY 2018-19	WIRAB FY 2018-19	Consolidated
<b>MEETING EXPENSES</b>			
WIEB Annual Board Meeting	5,000		5,000
Spring Joint CREPC-WIRAB Meeting	5,000	30,000	35,000
Fall Joint CREPC-WIRAB Meeting	5,000	30,000	35,000
HLRW Annual Meeting	6,000		6,000
SunShot Advisory Committee Meetings	27,600	20,000	47,600
Teleconference - Per Minute	3,000	3,200	6,200
	51,600	83,200	134,800
<b>STATE TRAVEL</b>			
WIEB Annual Board Meeting	4,000		4,000
Spring Joint CREPC-WIRAB Meeting	14,000	14,000	28,000
Fall Joint CREPC-WIRAB Meeting	14,000	14,000	28,000
HLRW Annual Meeting	11,000		11,000
SunShot Advisory Committee Meetings	44,300		44,300
	87,300	28,000	115,300
<b>STAFF TRAVEL</b>			
WIEB Annual Board Meeting	5,000		5,000
Spring Joint CREPC-WIRAB Meeting	1,500	5,500	7,000
Fall Joint CREPC-WIRAB Meeting	1,500	5,500	7,000
HLRW Annual Meeting	3,000		3,000
SunShot Advisory Committee Meetings	40,700	10,000	50,700
WIEB Other	10,000		10,000
WIRAB Other		50,000	50,000
HLRW Other	10,000		10,000
	71,700	71,000	142,700
<b>PROJECTS &amp; SUBCONTRACTS</b>			
WIEB REP Projects	67,600		67,600
SunShot NREL	407,800		407,800
SunShot LBNL	90,200		90,200
WIRAB GridSME		75,000	75,000
WIRAB Other		25,000	25,000
	565,600	100,000	665,600
<b>PERSONNEL EXPENSE</b>			
Direct Labor	243,100	429,600	672,700
<b>OVERHEAD EXPENSE</b>			
Overhead Labor	233,400		233,400
Payroll Taxes	72,000		72,000
Health & Life Ins.	103,600		103,600
401(k) Expense	68,000		68,000
Liability & W. Comp. Ins.	10,500		10,500
Office Rent	114,900		114,900
Telephone	13,800		13,800
Equipment	9,000		9,000
Payroll Expense - PayCheck	3,800		3,800
Teleconference - ReadyTalk	1,900		1,900
Auditing	12,000		12,000
Eco Pass	5,000		5,000
Computer Network	19,500		19,500
Dues & Subscriptions	4,000		4,000
Supplies	9,000		9,000
Other Overhead	1,100		1,100
	681,500	0	681,500
<b>TOTAL</b>			
Total Expense	1,700,800	711,800	2,412,600
Deduct/Add WIRAB Indirect Expense	(435,200)	435,200	
<b>Total Expense</b>	<b>1,265,600</b>	<b>1,147,000</b>	<b>2,412,600</b>
Percentage	52%	48%	100%

Western Interstate Energy Board  
 Fiscal Year 2018-19 Work Plan and Budget  
 April 18, 2018

**Table A7: Bank Balances and Investments – 1/31/2018**

Institution/Account	Rate	Duration	Date of Maturity	Balance as of 1/31/2018
<u>WIEB Bank Accounts</u>				
U.S. Bank Checking				92,600
U.S. Bank Savings 1				2,040,800
U.S. Bank Savings 2				457,500
Wells Fargo				263,900
Pershing MM				118,100
Bank Accounts				2,972,900
<u>WIEB Short-Term Investments</u>				
U.S. Bank Acct# ***9512	0.100%	11 months	6/22/2018	115,100
U.S. Bank Acct# ***7149	0.150%	19 months	7/18/2018	115,200
Colo. State Bank & Trust ***0545	0.250%	9 months	12/6/2018	106,500
Colo. State Bank & Trust ***9894	0.250%	9 months	6/23/2018	158,900
Short-Term Investments				495,700
<u>WIEB Long-Term Investments</u>				
Int. Bond Fund of America ***6521		On-going		133,600
Long-Term Investments				133,600
<b>Total Bank Balances and Investments</b>				<b>3,602,200</b>

**Table A8: Financial Reserves – 6/30/2018**

Description	Amount
Total Assets as of 6/30/2017	3,874,383
Minus Capital Assests as of 6/30/2017	(5,437)
Minus Accounts Payable as of 6/30/2017	(16,714)
Minus Compensated Absences as of 6/30/2017	(137,052)
Minus WIRAB Reserves as of 6/30/2017	(1,805,619)
<b>WIEB Financial Reserves as of 6/30/2017</b>	<b>1,909,561</b>
Estimated FY 2017-18 Income as of 6/30/2018	1,192,500
Estimated FY 2017-18 Expense as of 6/30/2018	(1,285,432)
<b>WIEB Financial Reserves as of 6/30/2018</b>	<b>1,816,600</b>

Western Interstate Energy Board  
 Fiscal Year 2018-19 Work Plan and Budget  
 April 18, 2018

**Table A9: WIRAB Current Expense – FY 2017-18 (For Informational Purposes Only)**

Expense Category	FY 2017-18 Budget	Projected as of 6/30/2018	Difference	% Change
Meeting Expense	72,000	71,000	(1,000)	-1.4%
State Travel	28,000	36,000	8,000	28.6%
Staff Travel	66,347	60,100	(6,247)	-9.4%
Subcontracts	125,000	100,000	(25,000)	-20.0%
Direct Labor	402,080	401,500	(580)	-0.1%
Total Expense	693,427	668,600	(24,827)	-3.6%
Add WIRAB Indirect	385,876	385,440	(436)	-0.1%
<b>Total Expense</b>	<b>1,079,303</b>	<b>1,054,040</b>	<b>(25,263)</b>	<b>-2.3%</b>