

**State of Iowa
Iowa Energy Center Board
Meeting Minutes of March 2, 2022
Via Teams Webinar Only**

Call to order 9:09 a.m.

Board Members Present

Dan Nickey, Board Vice Chair
Stuart Anderson
Debi Durham
Gul Kremer-Okudan
Jenae Jenison
Geri Huser
Jennifer Johnson
Valerie Newhouse (joined at 9:16 a.m.)

Board Members Absent

Troy DeJoodde
Kelcey Brown
Craig Just
Terry Kouba

Iowa Economic Development Authority Staff Present

Brian Selinger
Amber Buckingham
Stephanie Weisenbach
Lisa Connell
Deanna Triplett
Shelly Peterson
Rob Christiansen
Vicky Clinkscates
Betty Hessing
Terry Roberson
Emily Hockins
Alaina Santizo
Kanan Kappelman

Others Present

Chaz Allen, Iowa Utility Association
Derek Folden, Iowa Finance Authority
Julie Vande Hoef, Alliant Energy
Brenda Biddle, Iowa Utilities Board
Kim Hagemann, Iowa CCI
Nick Hunter, Iowa CCI
Emma Colman, Sierra Club, Iowa Beyond Coal Campaign
Jake Grobe, Iowa CCI, Public Comments
Katie Rock, Sierra Club, Iowa Beyond Coal Campaign, Public Comments

Welcome & Introductions by Board Vice Chair Dan Nickey

Dan Nickey welcomed everyone to the March 2nd IEC Board meeting.

Roll Call

Betty Hessing did roll call and a quorum was established.

Consideration of February 17, 2022 IEC Board Meeting Minutes

Motion by Geri Huser
Motion I move approval of the February 17, 2022 minutes as printed and distributed.
Second Jennifer Johnson
Voice Vote All ayes in favor. Motion approved.

Fiscal Update – Attachment A

Terry Roberson explained that in the Iowa Energy Center’s main account we have just over \$12.2M available for the next round of funding coming up in the next few months. On the new Energy Loan Program, we currently have \$13.6M available. Through January 31st, we’ve received about \$640,000 in loan repayments on the old portfolio, which will be moved into the new loan fund soon. Mr. Roberson asked if there were any questions; no questions.

Legislative Update

Deanna Triplett reported that the Senate unanimously passed the IEDA bill which has a component in it to extend the Iowa Energy Center Board for an additional five years. Additionally, there is the ability for you to consider funding Carbon Management projects. We anticipate it will be brought up to the House today. Deanne Triplett gave a special shout-out to all of your industry lobbyists out there. They have been very supportive of our initiatives. Ms. Triplett asked if there were any questions; no questions.

Competitive Grant Program Update – Amber Buckingham

Amber Buckingham reported that the fourth round of IEC grant funding did open for pre-applications on February 22nd. That was announced on the IEDA website and via a press release from IEDA. The deadline for applications is March 22nd. As a reminder, we did reduce the available funding from \$4M to \$2.5M for this round. Ms. Buckingham asked if there were any questions; no questions.

Budget Modification Request for 17-IEC-015 – Attachment B

Amber Buckingham stated she had a budget modification request for 17-IEC-015—Autothermal Pyrolysis of Lignocellulose Wastes to Sugars and other Biobased Product.

Iowa State University has requested a budget modification of \$16,244.17 and would like to move funds from Supplies and Materials to Salaries and Payroll Benefits. The PI has indicated additional manpower was needed instead of supplies and materials as planned. The previous budget anticipated higher material costs to demonstrate the oxo-degradation of plastic. Components were less complicated than anticipated for this proof of concept. The PI and their research team did spend more labor in controls and testing more plastics and conditions than originally planned which added to the labor costs. This modification request will not impact the overall budget of the project. Because this modification is over \$10,000, it is considered substantive and requires Board approval.

Our recommendation is to approve the budget modification for 17-IEC-015, moving \$16,244.17 from Supplies and Materials to Salaries and Payroll Benefits.

Motion by Debi Durham
Motion I move to approve the budget modification request for 17-IEC-015.
Second Stuart Anderson
Roll Call Yes: 8 No: 0
Motion approved.

Budget Modification Request for 20-IEC-005 – Attachment C

Amber Buckingham stated she had a budget modification request for 20-IEC-005—A new Paradigm to Solve Unit Commitment and Optimal Power Flow Problems.

Iowa State University has requested a budget modification of \$36,000 and would like to move funds from Domestic Travel, Student Tuition, Supplies/Materials to Salaries and Payroll Benefits. This modification will also slightly increase the indirect costs. The PI has indicated that the start of the project coincided with the beginning of the pandemic, which limited their ability to recruit PhD students for the project as planned and reflected in the originally submitted budget. Consequently, they decided to hire a postdoc to work on the project and make progress toward accomplishing quarterly goals. Postdocs have different budget categories than PhDs, and hence require an adjustment in the budget categories. As this budget modification is over \$10,000 it is considered substantive and requires Board approval.

Our staff recommendation would be to approve the budget modification for 20-IEC-005, moving \$36,000 from Domestic Travel, Student Tuition, Supplies/Materials and Indirect Costs to Salaries, Payroll Benefits and Indirect Costs. Again, this does not impact the overall budget.

Motion by Stuart Anderson
Motion I move to approve the budget modification request for 20-IEC-005.
Second Debi Durham
Roll Call Yes: 8 No: 0
Motion approved.

Grant Modification Request for 20-IEC-018 – Attachment D

Amber Buckingham stated she had a grant modification request for 20-IEC-018—Predicting Battery Lifetime with Early-Life Data for Grid Applications.

Iowa State let us know the original Principal Investigator (PI) of this project, Dr. Chao Hu, will move to the University of Connecticut (UConn) in August 2022. As his technical expertise is necessary for the success of this project, Iowa State University (ISU) would like to include UConn as a subrecipient. Dr. Hu and his team at UConn will (1) assist the ISU team in building machine learning models using battery cycling data, (2) code machine learning models on a software tool, and (3) work with ISU to validate and refine software tool against field data. ISU would like to transition the PI role to Dr. Anne Kimber on August 16, 2022. The end date for the project is January 15, 2023.

To accommodate this change, Iowa State University has requested a budget modification of \$91,250. They would like to move funds from Salaries, Payroll Benefits, Student Tuition, and Indirect Costs to a new subrecipient line item for the subcontract to UConn. This will result in a decrease to the indirect costs included in the project budget. This budget modification will not impact the overall project budget and will ensure that the project team can continue to work together.

Staff recommendation is to approve the change of PI and budget modification for 20-IEC-018, moving the requested funds from Salaries, Payroll Benefits, Student Tuition, and Indirect Costs to the Subrecipient line item, while also reducing the Indirect Costs line item by \$12,000.

Motion by Jennifer Johnson
Motion I move to approve the grant modification request for 20-IEC-018.
Second Geri Huser
Roll Call Yes: 8 No: 0
Motion approved.

Grant Modification Request for 21-IEC-007 – Attachment E

Amber Buckingham stated she had a grant modification request for 21-IEC-007--From the Landfill to the Grid: Repurposing Used Batteries for Resilient Grid Storage.

An original Co-PI of this project, Dr. Chao Hu, will move to the University of Connecticut (UConn) in August 2022. As his technical expertise is necessary for the success of this project, Iowa State University (ISU) would like to include UConn as a subrecipient on this project. Dr. Hu and his team at UConn will assist the ISU team in (1) building/adapting software models for used EV batteries and studying conditions to deconstruct EV cells, (2) deploying software to guide at least 3 separate experimental cell refurbishing strategies, and (3) optimizing coupled predictive modeling and experimental steps.

To accommodate this change, ISU requests a budget modification of \$59,250 and would like to move funds from Salaries, Payroll Benefits and Student Tuition to a new subrecipient line item. This modification will also decrease the total indirect costs of the project. This budget modification will not impact the overall project budget and will ensure that the project team can continue to work together.

As this budget modification is over \$10,000 it is considered substantive and requires Board approval and our staff recommendation would be to approve the budget modification.

Motion by Debi Durham
Motion I move to approve the grant modification request for 21-IEC-007.
Second Stuart Anderson
Roll Call Yes: 8 No: 0
Motion approved.

Energy Infrastructure Revolving Loan Program (EIRLP) – EIRLP Update –

Stephanie Weisenbach stated we opened the program last fall for applications to be accepted and reviewed on a quarterly basis. We did not receive any application submittals this most recent quarter. We have had some interest and an application was started in IowaGrants, but not completed yet due to not being ready. Our next application deadline is April 14th. Due to this, we have taken a close look at our marketing efforts. Since we have opened the program, we have gotten the word out through contacts, conferences, a press release, various one-on-one meetings with stakeholders and potential applicants. IEC board members have helped us reach certain audiences, which is greatly appreciated. We welcome more collaboration with the Board, when possible. We will be continuing these types of activities but will be dedicating more staff time and making refinements to our approach. On February 15th, we convened the Loan Committee and discussed some ideas for expending our marketing efforts. We discussed how some more specific messaging and information could be helpful to certain audiences, so they know how this program could assist them with a specific type of project. The program name and purposes are quite broad and those eligible applicants may not immediately have a reason to be interested.

We have four main strategies that we are working on for marketing and we have continually evolving ideas on how we implement them. Those four strategies are to: (1) increase the visibility and awareness of the program with stakeholder groups; (2) utilize eligible project showcases and technical resources to educate eligible applicants about projects and the program; (3) explore potential synergies with other programs for eligible projects and applicants for the program; and (4) to conduct some targeted outreach and provide technical assistance to assist with project planning. This strategy would be more time and resource intensive.

Your ideas and getting the word out is very much appreciated and if you have further discussion or questions, please do so. Dan Nickey commented that if Stephanie Weisenbach could send a statement, they could send it out through UNI’s social media and communications channel. Ms. Weisenbach replied she had a short blurb ready for newsletters. Dan Nickey added that if anyone put out newsletters and were willing to put that in their newsletter, please reach out to Stephanie. No questions were asked.

Appointment to the Loan Committee – Attachment F

Lisa Connell explained they do have an appointment to the Loan Committee—our newest Board member, Kelsey Brown, who was appointed in December. We have a vacancy that Kelsey is willing to fill so our recommendation is to appoint her to fill that vacancy through June 30, 2022, to line that up with the other committee appointments.

Motion by	Valerie Newhouse
Motion	I move to approve the appointment of Kelcey Brown to the Loan Committee.
Second	Stuart Anderson
Roll Call	Yes: 8 No: 0
	Motion approved.

ATTACHMENT A

INFO

**REPORT
IOWA ENERGY CENTER BOARD
FEBRUARY 2022**

From: IEDA Accounting

Subject: IEC Financials FY22 as of 01-31-22

Please find the FY22 financial information for the IEC Main Account (grant program) and the previous and new loan programs.

Proposed Motion:	No Action Required
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Submitted By: Terry Roberson – IEDA Accounting

Attachments: Financial information thru January 31, 2022

IEDA										
Financial Report										
Iowa Energy Center										
Fiscal Year 2022										
January 31, 2022										
					OLD					
IEC MAIN ACCT					IEC/AEL LOAN ACCT					
				Total				Total		
	Admin	Projects	Fund		Projects	Fund			IEDA	OCT 1 2017
									NOTES REC	NOTES REC
<u>Revenue</u>										
Cash Balance Forward	350,000	20,132,320	20,482,320		0	421,346	421,346		1,227,814	1,762,006
FY21 IUB Transfer	0	0	0		0	0	0			0
Principal Repayments YTD	0	0	0		0	0	644,425		(98,788)	(545,637)
Interest Revenue	0	11,408	11,408		0	8,978	8,978			0
Other Revenue YTD	0	0	0		0	0	0			0
Deappropriations	0	0	0		0	0	0			0
Transfers	0	0	0		0	0	0			0
Total Revenue YTD	350,000	20,143,728	20,493,728		0	430,324	1,074,749		1,129,026	1,216,369
<u>Expenses</u>										
Administration YTD	(100,745)	0	(100,745)		0	0	0			
Project Payouts YTD	0	(679,575)	(679,575)		0	(72,536)	(72,536)			
Leg Auth Transfers (18 Acts Ch 1172 Sec 91)			0				0			
Total Expense YTD	(100,745)	(679,575)	(780,320)		0	(72,536)	(72,536)			
<u>Obligations</u>										
Obligations C/F	0	4,997,653	4,997,653		0	421,346	421,346			
Current Year Obligations	0	2,875,424	2,875,424		0	0	0			
Current Year Rescissions			0			0	0			
Current Year Payouts	0	(679,575)	(679,575)		0	(72,536)	(72,536)			
Balance of Current Year Admin	249,255	0	249,255		0	0	0			
Net Obligations YTD	249,255	7,193,502	7,442,757		0	348,810	348,810			
Balance Available	0	12,270,651	12,270,651		0	8,978	653,403			

IEDA								
Financial Report								
Iowa Energy Center								
Fiscal Year 2022								
January 31, 2022								
ENERGY INFRASTRUCTURE REVOLVING LOAN PROGRAM								
				Total				
		Admin	Projects	Fund		Admin	Projects	Total Fund
Revenue								
Cash Balance Forward		350,000	13,650,000	14,000,000		0	0	0
FY21 IUB Transfer		0	0	0		0	0	0
Principal Repayments YTD		0	0	0		0	0	0
Interest Revenue		0	50	50		0	0	0
Other Revenue YTD		0	0	0		0	0	0
Deappropriations		0	0	0		0	0	0
Transfers		0	0	0		0	0	0
Total Revenue YTD		350,000	13,650,050	14,000,050		0	0	0
Expenses								
Administration YTD		(6,616)	0	(6,616)		0	0	0
Project Payouts YTD		0	0	0		0	0	0
Leg Auth Transfers (18 Acts Ch 1172 Sec 91)				0				0
Total Expense YTD		(6,616)	0	(6,616)		0	0	0
Obligations								
Obligations C/F		0	0	0		0	0	0
Current Year Obligations		0	0	0		0	0	0
Current Year Rescissions				0			0	0
Current Year Payouts		0	0	0		0	0	0
Balance of Current Year Admin		343,384	0	343,384		0	0	0
Net Obligations YTD		343,384	0	343,384		0	0	0
Balance Available		0	13,650,050	13,650,050		0	0	0

ATTACHMENT B

ACTION

REPORT
IOWA ENERGY CENTER BOARD
FEBRUARY 2022

From: Iowa Energy Office
Subject: 17-IEC-015 Grant Modification Request

Background: Iowa State University (ISU) has requested a budget modification amendment for award 17-IEC-015 *RAPID Autothermal pyrolysis of lignocellulose wastes to sugars and other biobased product*

Iowa State University has requested a budget modification of \$16,244.17 and would like to move funds from Supplies and Materials to Salaries and Payroll Benefits. The PI has indicated additional manpower was needed instead of supplies and materials as planned. The previous budget anticipated higher material costs to demonstrate the oxo-degradation of plastic. Components were less complicated than anticipated for this proof of concept. The PI and their research team did spend more labor in controls and testing more plastics and conditions than originally planned which added labor costs. This modification request will not impact the overall budget of the project.

Administrative Rule 261 IAC 404.7(7)(a) provides that any substantive change to a funded IEC project, including time extensions, budget revisions, and alterations to proposed activities, will be considered an agreement amendment. As this budget modification is over \$10,000 it is considered substantive and requires Board approval.

Staff Recommendation: Approve the budget modification for 17-IEC-015, moving \$16,244.17 from Supplies and Materials to Salaries and Payroll Benefits.

Proposed Motion: Approve the Budget Modification Request for 17-IEC-015

Submitted By: Amber Buckingham
Attachments: 17-IEC-015 Budget Modification Request

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Office of Sponsored
Programs Administration
1138 Pearson Hall
505 Morrill Road
Ames, Iowa 50011-2103
Phone: 515 294-5225
Fax: 515 294-8000

January 20, 2022

Amber Buckingham
Amber.Buckingham@IowaEDA.com

SUBJECT: Award Number: 17-IEC-015
Award Title: *RAPID: Autothermal pyrolysis of lignocellulose wastes to sugars and other biobased products*
Revised Budget Request
ISU Account: 019168 ISU ID: 140616
ISU PI: Dr. Robert Brown

Dear Amber Buckingham;

The above referenced grant was made to Iowa State University in the amount of \$600,000 under the direction of Dr. Robert Brown. I am in receipt of a request from Dr. Brown to rebudget this project in the following manner:

Increase:		Decrease:	
Salaries	\$11,756.86	Supplies/Materials	\$16,244.17
Payroll Benefits	\$ 4,487.31	Total	\$16,244.17
Total	\$16,244.17		

We are requesting a rebudget of \$16,244.17 because additional manpower was needed to finish this award instead of supplies as originally budgeted. The end date of the award is 12/31/2021, and we plan to submit our final claim soon.

We at Iowa State University have reviewed Dr. Brown's request and concur therein. Therefore, we request approval for the revised budget. If I can provide you with additional information or be of further assistance, please do not hesitate to contact me.

Sincerely,

Kim Robson

Digitally signed by Kim Robson
Location: Iowa State University,
Office of Sponsored Programs
Administration
Date: 2022.01.20 09:26:02 -06'00'

Kim Robson
Award Administrator
Office of Sponsored Programs Administration

cc: Robert Brown
Scott Moseley
Ryan Smith
Mary Scott-Hall
Jeremy Neppl

ATTACHMENT C

ACTION

**REPORT
IOWA ENERGY CENTER BOARD
FEBRUARY 2022**

From: Iowa Energy Office
Subject: 20-IEC-005 Budget Modification

Background: Iowa State University (ISU) has requested a budget modification amendment for award 20-IEC-005 *A new paradigm to solve unit commitment and optimal power flow problems.*

Iowa State University has requested a budget modification of \$36,000 and would like to move funds from Domestic Travel, Student Tuition, Supplies/Materials to Salaries and Payroll Benefits. This modification will also slightly increase the indirect costs. The PI has indicated that the start of the project coincided with the beginning of the pandemic, which limited their ability to recruit PhD students for the project as planned and reflected in the originally submitted budget. Consequently, they decided to hire a postdoc to work on the project and make progress toward accomplishing quarterly goals. Postdocs have different budget categories than PhDs, and hence require an adjustment in the budget categories.

Administrative Rule 261 IAC 404.7(7)(a) provides that any substantive change to a funded IEC project, including time extensions, budget revisions, and alterations to proposed activities, will be considered an agreement amendment. As this budget modification is over \$10,000 it is considered substantive and requires Board approval.

Staff Recommendation: Approve the budget modification for 20-IEC-005, moving \$36,000 from Domestic Travel, Student Tuition, Supplies/Materials and Indirect Costs to Salaries, Payroll Benefits, and Indirect Costs.

Proposed Motion: Approve Budget Modification for 20-IEC-005

Submitted By: Amber Buckingham
Attachments: 20-IEC-005 Budget Modification Request

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Office of Sponsored
Programs Administration
1138 Pearson Hall
505 Morrill Road
Ames, Iowa 50011-2103
Phone: 515 294-5225
Fax: 515 294-8000

January 10, 2022

Amber Buckingham
Amber.Buckingham@IowaEDA.com

SUBJECT: Revised Budget Request

Award Title: "A new paradigm to solve unit commitment and optimal power flow problems"

Award ID: 20IEC005

ISU Account: 022370

ISU ID: 145736

ISU PI: Dr. Danial Davarnia

Dear Amber Buckingham:

The above referenced grant was made to Iowa State University in the amount of \$244,367 under the direction of Dr. Danial Davarnia. I am in receipt of a request from Dr. Danial Davarnia to rebudget this project in the following manner:

Increase:		Decrease:	
Salary/hourly	\$16,000	Domestic Travel	\$ -9,000
Payroll/Benefits	\$14,000	Student Tuition	\$15,000
<u>Indirect Costs</u>	<u>\$ 6,000</u>	Supply/Materials	\$ 8,500
Total	\$36,000	<u>Indirect cost</u>	<u>\$ 3,500</u>
		Total	\$36,000

The start of the project coincided with the start of the pandemic, which limited our ability to recruit PhD students for the project as planned and reflected in the budget forms. Consequently, we decided to hire a postdoc to work on the project and make progress toward accomplishing quarterly goals. Postdocs have some different budget categories than PhDs, and hence require an adjustment in the budget categories, as outlined below.

We at Iowa State University have reviewed Dr. Davarnia's request and concur therein. Therefore, we request approval for the revised budget. If I can provide you with additional information or be of further assistance, please do not hesitate to contact me.

Sincerely,

Supriya
Mathur

Digitally signed by
Supriya Mathur
Date: 2022.01.10
10:40:51 -06'00'

Supriya Parshad
Award Administrator
Office of Sponsored Programs Administration

cc: Danial Davarnia

**IOWA STATE UNIVERSITY
REBUDGET REQUEST FORM**

Date: January 5, 2022
PI Name: Danial Davarnia
Grant Worktag: GR-022370-00001

Justification: The start of the project coincided with the start of the pandemic, which limited our ability to recruit PhD students for the project as planned and reflected in the budget forms. Consequently, we decided to hire a postdoc to work on the project and make progress toward accomplishing quarterly goals. Postdocs have some different budget categories than PhDs, and hence require an adjustment in the budget categories, as outlined below.

Please provide a detailed explanation of the programmatic need for a rebudget, including specific items (e.g. equipment) not included in original budget. If adding a subrecipient, please also complete a Subrecipient Request Form.

Does this rebudget change the scope of work of the project? Yes No

If yes, please explain. Please use another page if necessary.

Budget categories to be adjusted:

INCREASE				DECREASE					
Salary/Hourly (0108)	\$	16,000		Salary/Hourly (0108)	\$	0			
Payroll Benefits (0130)	\$	14,000		Payroll Benefits (0130)	\$	0			
Equipment (0710)	\$	0		Equipment (0710)	\$	0			
Domestic Travel (0215)	\$	0		Domestic Travel (0215)	\$	9,000			
Foreign Travel (0216)	\$	0		Foreign Travel (0216)	\$	0			
Student Tuition (0610)	\$	0		Student Tuition (0610)	\$	15,000			
Supply/Materials (0410)	\$	0		Supply/Materials (0410)	\$	8,500			
<i>Subcontracts</i>				<i>Subcontracts</i>					
Burdenable (0396)	\$	0		Burdenable (0396)	\$	0			
Nonburdenable (0376)	\$	0		Nonburdenable (0376)	\$	0			
<i>Other Direct Costs</i>				<i>Other Direct Costs</i>					
Telecommunications (0340)	\$	0		Telecommunications (0340)	\$	0			
Computing (0353)	\$	0		Computing (0353)	\$	0			
Printing/Copying (0373)	\$	0		Printing/Copying (0373)	\$	0			
Honoraria/Services (0302)	\$	0		Honoraria/Services (0302)	\$	0			
Postage (0379)	\$	0		Postage (0379)	\$	0			
Other (0630)	\$	0		Other (0630)	\$	0			
TOTAL DIRECT COSTS			\$	30,000	TOTAL DIRECT COSTS			\$	32,500
Indirect Costs (0642)	Rate	20%	\$	6,000	Indirect Costs (0642)	Rate	20%	\$	3,500
TOTAL ALL COSTS			\$	36,000	TOTAL ALL COSTS			\$	36,000

The total costs increased must equal the total costs decreased.

Approvals.

Signature _____ Date _____
 Danial Davarnia *[Signature]* 1/5/2022
 Name of Principal Investigator _____

Signature _____ Date _____
 Name of OSPA/OIPTT Approver _____

*Please return to
 OSPA ospa-awards@iastate.edu OR 1138 Pearson Hall,
 OIPTT industry-contracts@iastate.edu OR 1805 Collaboration Place, Suite 2100*

ATTACHMENT D

ACTION

REPORT
IOWA ENERGY CENTER BOARD
FEBRUARY 2022

From: Iowa Energy Office

Subject: 20-IEC-018 Grant Modification

Background: Iowa State University (ISU) has requested a grant modification amendment for award 20-IEC-018 *Predicting Battery Lifetime with Early-Life Data for Grid Applications*.

The original Principal Investigator (PI) of this project, Dr Chao Hu, will move to the University of Connecticut (UConn) in August 2022. As his technical expertise is necessary for the success of this project, Iowa State University (ISU) would like to include UConn as a subrecipient. Dr Hu and his team at UConn will (1) assist the ISU team in building machine learning models using battery cycling data, (2) code machine learning models on a software tool, and (3) work with ISU to validate and refine software tool against field data. ISU would like to transition the PI role to Dr. Anne Kimber on August 16, 2022. The end date for the project is January 15, 2023.

To accommodate this change, Iowa State University has requested a budget modification of \$91,250. They would like to move funds from Salaries, Payroll Benefits, Student Tuition, and Indirect Costs to a new subrecipient line item for the subcontract to UConn. This will result in a decrease to the indirect costs included in the project budget. This budget modification will not impact the overall project budget and will ensure that the project team can continue to work together.

Administrative Rule 261 IAC 404.7(7)(a) provides that any substantive change to a funded IEC project, including time extensions, budget revisions, and alterations to proposed activities, will be considered an agreement amendment. As this budget modification is over \$10,000 it is considered substantive and requires Board approval.

Staff Recommendation: Approve the change of PI and budget modification for 20-IEC-018, moving the requested funds from Salaries, Payroll Benefits, Student Tuition, and Indirect Costs to the Subrecipient line item, while also reducing the Indirect Costs line item by \$12,000.

Proposed Motion: Approve the grant modification request for 20-IEC-018

Submitted By: Amber Buckingham

Attachments: 20-IEC-018 Grant Modification Request.

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Office of Sponsored
Programs Administration
1138 Pearson Hall
505 Morrill Road
Ames, Iowa 50011-2103
Phone: 515 294-5225
Fax: 515 294-8000

February 8, 2022

Amber Buckingham
Amber.Buckingham@IowaEDA.com

SUBJECT: Revised Budget Request, Lead PI change to Anne Kimber
Award Title: "Predicting Battery Lifetime with Early-Life Data for Grid Applications"
Award ID: 21IEC018
ISU Account: 023427 **ISU ID:** 148528
ISU PI: Dr. Chao Hu

Dear Amber Buckingham:

The above referenced grant was made to Iowa State University in the amount of \$280,070 under the direction of Dr. Chao Hu. I am in receipt of a request from Dr. Hu to rebudget and change lead PI on this project in the following manner:

Increase:		Decrease:	
Burdenable (subcontract)	\$ 25,000	Salary/Hourly	\$30,000
Nonburdenable (subcontract)	\$ 60,000	Payroll Benefits	\$ 6,000
		Student Tuition	\$37,000
<u>Indirect Costs</u>	<u>\$ 6,250</u>	<u>Indirect cost</u>	<u>\$18,250</u>
Total	\$91,250	Total	\$91,250

The original PI of this project, Dr. Chao Hu, will move to the University of Connecticut (UConn) in August 2022. As his technical expertise is needed and necessary for the success of this project, Iowa State University (ISU) has decided to include UConn as a subrecipient. Dr. Hu and his team at UConn will (1) assist the ISU team in building machine learning models using battery cycling data (Project Task #4 under the Project Timeline), (2) code machine learning models on a software tool (Project Task #5), and (3) work with ISU to validate and refine software tool against field data (Project Task #6). The PI role will transition to Dr. Anne Kimber on August 16, 2022.

We at Iowa State University have reviewed Dr. Hu's request and concur therein. Therefore, we request approval for the revised budget and change lead PI. If I can provide you with additional information or be of further assistance, please do not hesitate to contact me.

Sincerely,

Supriya Parshad
Award Administrator
Office of Sponsored Programs Administration

cc: Chao Hu

ATTACHMENT E

ACTION

REPORT
IOWA ENERGY CENTER BOARD
FEBRUARY 2022

From: Iowa Energy Office

Subject: 21-IEC-007 Grant Modification

Background: Iowa State University (ISU) has requested a budget modification amendment for award 21-IEC-007 *From the Landfill to the Grid. Repurposing Used Batteries for Resilient Grid Storage*

An original Co-PI of this project, Dr. Chao Hu, will move to the University of Connecticut (UConn) in August 2022. As his technical expertise is necessary for the success of this project, Iowa State University (ISU) would like to include UConn as a subrecipient on this project. Dr. Hu and his team at UConn will assist the ISU team in (1) building/adapting software models for used EV batteries and studying conditions to deconstruct EV cells, (2) deploying software to guide at least 3 separate experimental cell refurbishing strategies, and (3) optimizing coupled predictive modeling and experimental steps based on post-refurbishment performance.

To accommodate this change, ISU requests a budget modification of \$59,250 and would like to move funds from Salaries, Payroll Benefits and Student Tuition to a new subrecipient line item. This modification will also decrease the total indirect costs of the project. This budget modification will not impact the overall project budget and will ensure that the project team can continue to work together.

Administrative Rule 261 IAC 404.7(7)(a) provides that any substantive change to a funded IEC project, including time extensions, budget revisions, and alterations to proposed activities, will be considered an agreement amendment. As this budget modification is over \$10,000 it is considered substantive and requires Board approval.

Staff Recommendation: Approve the budget modification for 21-IEC-007, moving the requested funds from Salaries, Payroll Benefits, Student Tuition, and Indirect Costs to the new subrecipient line item, while also reducing the indirect cost line item by \$5,600.

Proposed Motion: Approve the Grant Modification for 21-IEC-007.

Submitted By: Amber Buckingham

Attachments: 21-IEC-007 Grant Modification Request

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Office of Sponsored
Programs Administration

1138 Pearson Hall
505 Morrill Road
Ames, Iowa 50011-2103
Phone: 515 294-5225
Fax: 515 294-8000

February 8, 2022

Amber Buckingham
Amber.Buckingham@IowaEDA.com

**SUBJECT: Revised Budget Request, Award Title: "From the Landfill to the Grid:
Repurposing Used Batteries for Resilient Grid Storage"**
Award ID: 21IEC0007 ISU Account: 024881 ISU ID: 151673
ISU PI: Dr. Cary Pint

Dear Amber Buckingham:

The above referenced grant was made to Iowa State University in the amount of \$294,859 under the direction of Dr. Cary Pint. I am in receipt of a request from Dr. Pint to rebudget this project in the following manner:

Increase:		Decrease:	
Burdenable (subcontract)	\$ 25,000	Salary/Hourly	\$31,000
Nonburdenable (subcontract)	\$ 28,000	Payroll Benefits	\$ 3,400
		Student Tuition	\$13,000
<u>Indirect Costs</u>	<u>\$ 6,250</u>	<u>Indirect cost</u>	<u>\$11,850</u>
Total	\$59,250	Total	\$59,250

An original Co-PI of this project, Dr. Chao Hu, will move to the University of Connecticut (UConn) in August 2022. As his technical expertise is needed and necessary for the success of this project, Iowa State University (ISU) has decided to include UConn as a subrecipient. Dr. Hu and his team at UConn will assist the ISU team in (1) building/adapting software models for used EV batteries and studying conditions to deconstruct EV cells (Project Task #2 under the Project Timeline), (2) deploying software to guide at least 3 separate experimental cell refurbishing strategies (Project Task #3), and (3) optimizing coupled predictive modeling and experimental steps based on post-refurbishment performance (Project Task #5).

We at Iowa State University have reviewed Dr. Pint's request and concur therein. Therefore, we request approval for the revised budget. If I can provide you with additional information or be of further assistance, please do not hesitate to contact me.

Sincerely,

Supriya Parshad
Award Administrator
Office of Sponsored Programs Administration

cc: Cary Pint
Chao Hu

ATTACHMENT F

ACTION

REPORT
IOWA ENERGY CENTER BOARD
FEBRUARY 2022

From: IEDA Legal

Subject: Appointment to Loan Committee

Kelcey Brown was appointed to the Board in December 2021 and is willing to fill a vacancy as a member of the four-person loan committee.

Proposed Motion: Appoint Kelcey Brown to the loan committee through June 30, 2022.

Submitted By: Lisa Connell