Name of Center	AFRICA CENTRE OF EXCELLENCE IN FUT	URE ENERGIES AND						
Institution	FEDERAL UNIVERSITY OF TECHNOLOGY							
Country	NIGERIA	O. LIKKI		1		1		I.
Center Leader	PROFESSOR EMEKA E. OGUZIE							
Annual Workplan	TROTEDOOR EMERITE. GGGELE							
(Month XXX-Month								
XXX, Year)	JANUARY 2024-DECEMBER 2024							
,,								
					Estimated	Estimated Revenue	Contribution from	
Work Plan Activities	Description	Component	Milestone/Output	If NEW, Provide Justification	Budget(\$)	(\$)	Partner (\$)	Person Responsible
	recruit qualified stydents and faculty\ DLI 3: Q	uantity of Students						
	lan to attract regional students and faculty					-		
Activity 1: Develop	Advertisement material that targets qualified	Operating Cost	Timely and targeted					
	female and regional students.		advertisement of short course					ACE-FUELS Centre Leader/International
talented regional			programmes.					Students Affairs Officer, Communication
postgraduate students:								officer/Training and Education
Advertisement material					10,000.00	50,000.00	0	Coordinator
that targets qualified		OPERATING COST	Timely and targeted					
female and regional			advertisement of MSc and PhD					ACE-FUELS Centre Leader/International
students			programmes.					Students Affairs Officer, Communication
								officer/Training and Education
					10,000.00	90,000.00	0	Coordinator
	Hold national and regional public engagement	Operating Cost	Regional Outreach.					
	sessions and student fairs (Targeting women and		Participation in Regional					
	regional students). Participation in regional		workshops. Number of national					
	workshops.		and regional students enrolled.					ACE EUELS Control London International
Activity 2: Regional								ACE-FUELS Centre Leader, International Students Affairs Officer, Communication
Outreach, Engagement								officer, Training and Education
and Education					20,000.00	0.00		Coordinator
	lan to facilitate broad regional student attendan	1 f11ti -iti			20,000.00	0.00		Coordinator
Sub-Action 10: Action p	lan to factituate broad regional student ditendant	Operating Cost						1
		Operating Cost		Stationaries and				
Activity 1: Maintenance			Functional ACE-FUELS	consumables	5,000.00	0	0	
of ACE-FUELS	Maintenance and running of International Office		International Office, in line with					ACE-FUELS Centre Leader/International
International Office	to provide support for regional students		DLI 7	Travels	10,000.00	0	0	Students Affairs Officer
International Office	Run English Language Support Programme	Operating Cost	English language support	Traveis	10,000.00	o .	·	ACE-FUELS Centre Leader, International
Activity 2: Provide	(ELSP) for regional students who do not speak	Operating Cost	programme running. Students					Students Affairs Officer, Coordinator,
	English as first language (50 Students)		enrolled for the programme		10,000.00	0		ELSP
zagasii iunguuge support	English as first language (50 Students)	Operating Cost	French language support		10,000.00			L.L.O.
Activity 3 :Provide	Run French Language Support Programme	Operating Cost	programme running. Faculty		1			
French Language	(FLSP) for Faculty and staff to ensure effective		and centre staff enrolled for the		1			ACE-FUELS Centre Leader, Coordinator,
support for Faculty	communication to Regional students (7 Staff)		programme		15,000.00			ELSP
	lan to facilitate full student integration with univ	versity and host commu			13,000.00			EEGI
Date-Action 1c. Action pr	lan to jacimate jun statem integration with unit	Operating Cost	inites .					1
		Operating Cost	Minutes of orientation		1			
		•	TITLINGUES OF OFICIALION	I	1	I	1	
	Sat un orientation committee Organiza							
	Set up orientation committee. Organize		committee meetings.Approved					
Activity 1: Organize	orientation programmes for the new admitted		committee meetings.Approved document(s) for the orientation					
Activity 1: Organize student orientation	orientation programmes for the new admitted students and excursion for the Students and ACE		committee meetings. Approved document(s) for the orientation programme and excursion.		10 000 00	0	0	ACE-FUELS Management Team
Activity 1: Organize	orientation programmes for the new admitted		committee meetings.Approved document(s) for the orientation programme and excursion. Feedback from students.		10,000.00	0	0	ACE-FUELS Management Team
Activity 1: Organize student orientation activities	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team	Operating Cost	committee meetings.Approved document(s) for the orientation programme and excursion. Feedback from students. Approved documents and		10,000.00	0	0	ACE-FUELS Management Team
Activity 1: Organize student orientation activities  Activity 2: Organize	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team Organize annual retreat for all participating staff		committee meetings. Approved document(s) for the orientation programme and excursion. Feedback from students. Approved documents and receipts for annual retreat.			0	2 000 00	_
Activity 1: Organize student orientation activities	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team	Operating Cost	committee meetings.Approved document(s) for the orientation programme and excursion. Feedback from students. Approved documents and		10,000.00	0.00	2,000.00	ACE-FUELS Management Team  ACE-FUELS Management Team
Activity 1: Organize student orientation activities  Activity 2: Organize annual retreat	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team  Organize annual retreat for all participating staff and students.		committee meetings. Approved document(s) for the orientation programme and excursion. Feedback from students. Approved documents and receipts for annual retreat. Feedback from students			0.00	2,000.00	_
Activity 1: Organize student orientation activities  Activity 2: Organize annual retreat  Activity 3:Organize	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team Organize annual retreat for all participating staff and students. Organize sport/cultural activities for ACE-	Operating Cost	committee meetings. Approved document(s) for the orientation programme and excursion. Feedback from students.  Approved documents and receipts for annual retreat. Feedback from students  Album of pictures taken during		15,000.00	0.00	2,000.00	_
Activity 1: Organize student orientation activities  Activity 2: Organize annual retreat  Activity 3:Organize sport/cultural activities .	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team  Organize annual retreat for all participating staff and students.  Organize sport/cultural activities for ACE-FUELS students, staff and host communities	Operating Cost Operating Cost	committee meetings. Approved document(s) for the orientation programme and excursion. Feedback from students. Approved documents and receipts for annual retreat. Feedback from students  Album of pictures taken during the event			0.00	2,000.00	
Activity 1: Organize student orientation activities  Activity 2: Organize annual retreat  Activity 3:Organize sport/cultural activities .	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team Organize annual retreat for all participating staff and students. Organize sport/cultural activities for ACE-	Operating Cost Operating Cost	committee meetings. Approved document(s) for the orientation programme and excursion. Feedback from students. Approved documents and receipts for annual retreat. Feedback from students  Album of pictures taken during the event		15,000.00	0.00	2,000.00	
Activity 1: Organize student orientation activities  Activity 2: Organize annual retreat  Activity 3:Organize sport/cultural activities .  Action 2:Action plan to	orientation programmes for the new admitted students and excursion for the Students and ACE FUELS Management Team  Organize annual retreat for all participating staff and students.  Organize sport/cultural activities for ACE-FUELS students, staff and host communities	Operating Cost Operating Cost	committee meetings. Approved document(s) for the orientation programme and excursion. Feedback from students. Approved documents and receipts for annual retreat. Feedback from students  Album of pictures taken during the event		15,000.00	0.00	2,000.00	_

learning Environment  FUELS FUTO learning management System (LMS) and Online Result Management System (ORMS). 2.Ensure broadband internet access within and around ACE-FUELS facilities.  3. Subscribe to Zoom videoconferencing platform. 4.Deploy ICT services for innovation and participation in NgREN (as per DLI 7.6). 5. Subscribe to Web of Science/Science Direct/ Scopus databases 1. Construction of Security post  I 1. 10,000  aids and materials; Availability of computer and of constant/consistent unlimited constant/consistent unlimited students and faculty are receiving improved access to the services (as formulated by each institution). Install facilities for efficient diesel-powered generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	nagement Team/Physical elopment Unit, FUTO
(LMS) and Online Result Management System (ORMS). 2.Ensure broadband internet access within and around ACE-FUELS facilities. 3.Subscribe to Zoom videoconferencing platform. 4.Deploy ICT services for innovation and participation in NgREN (as per DLI 7.6). Subscribe to Web of Science/Science Direct Scopus databases 1. Construction of Security post  Works 1.15,000  works 1.15,000  students and faculty are receiving improved access to the services (as formulated by each institution). Install facilities for efficient diesel-powered generators and solar power generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	Jopinelli Clint, PCTO
(ORMS). 2.Ensure broadband internet access within and around ACE-FUELS facilities.  3. Subscribe to Zoom videoconferencing platform. 4.Deploy ICT services for innovation and participation in NgREN (as per DL17.6).  Subscribe to Web of Science/Science Direct/ Scopus databases 1. Construction of Security post  Scopus databases 1. Construction of Security and the services (as formulated by each institution). Install facilities for efficient diesel-powered generators and solar power generations. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
within and around ACE-FUELS facilities. 3. Subscribe to Zoom videoconferencing platform. 4.Deploy ICT services for innovation and participation in NgREN (as per DLI 7.6). 5. Subscribe to Web of Science/Science Direct/ Scopus databases 1. Construction of Security post  1. 15,000  Availability of 5. 50,000 constant/consistent unlimited internet access. Evidence that students and faculty are receiving improved access to the services (as formulated by each institution). Install facilities for efficient diesel-powered generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
3. Subscribe to Zoom videoconferencing platform. 4. Deploy ICT services for innovation and participation in NgREN (as per DL1 7.6). 5.  Subscribe to Web of Science/Science Direct/ Scopus databases 1. Construction of Security post  1. 15,000  Scopus databases 1. Construction of Security post  Scopus databases 1. Scopus databases 1. Scopus databases 1. Scopus databases 2. Scopus databases 2. Scopus databases 3. Scopus databases 4. Scopus databases 3. Scopus databases 4. Scopus databases 4. Scopus databases 5. Scopus databases 4. Scopus databases 5. Scopus databases 5. Scopus databases 5. Scopus databases 5. Scopus databases 6. Scopus d	
platform. 4.Deploy ICT services for innovation and participation in NgREN (as per DL1 7.6). 5. Subscribe to Web of Science/Science Direct/ Scopus databases 1. Construction of Security post  Security post  Morks  internet access. Evidence that students and faculty are receiving improved access to the services (as formulated by each institution). Install facilities for efficient diesel-powered generators and solar power generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
and participation in NgREN (as per DLI 7.6). 5. 1. 1.5,000 students and faculty are receiving improved access to the scopus databases 1. Construction of Security post students and faculty are receiving improved access to the services (as formulated by each institution). Install facilities for efficient diesel-powered generations and solar power generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
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Scopus databases 1. Construction of Security post  services (as formulated by each institution). Install facilities for efficient diesel-powered generators and solar power generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
post  institution). Install facilities for efficient diesel-powered generators and solar power generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
efficient diesel-powered generators and solar power generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
generators and solar power generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
generation. Access to books, journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
journals, e-books, e-journal subscriptions, bibliometric databases. Electronic library	
subscriptions, bibliometric databases. Electronic library	
databases. Electronic library	
system. Access to international	
journal databases. Recruit	
armed security and security	
dogs services. Milestones in	
our DL1 4.3 formulations	
227,500.00 900,000.00	
Activity 2: (i)Procure teaching aids, teaching materials, GOODS	
(ii), 15 No. computer lab equipment and work 1, 10,000	
stations. (iii) II.40,000	
Procure 1 No. 30KVA diesel-powered generator 111. 10,000	
for ACE-FUELS Complex (iv)50KVA Solar 1V. 40,000	
Power for student hostel and the Centre V 4,200	
(v) 5 Nos. 1.5Hp Air conditioners. VI. 140,000	
(vi) Acquire books, journals, e-books, e-journal OPERATING COST	
subscriptions, bibliometric databases. Develop I. 50,000	
an electronic library system for researchers and II 9,500	
establish full access to international journal III. 32,000	
databases. (i ) Provide adequate	
security to protect all ACE-FUELS facilities,	
with armed security, security dogs, safety gadgets	
and communication facilities, . (ii) Provision of	
non-pharmacological interventions for regular	
cleaning and disinfecting/fumigating the	
environment, first aid kits, infrared temperature monitors, hand sanitizers, face masks, etc within	
all ACE-FUELS facilities. (iii)	
Cleaning and maintenance of ACE-FUELS feelibling Works for Cleaning Commitment	
facilities(Wages for Cleaners, Groundsman,	
disinfectant and mowing machine ).	
335,700.00	

A saluday 2. A supplier of	Hadanaha International according to 0	OPERATING COST	T	ı	1	1	ACE EIEE C Management
Activity 3: Accreditation	Undertake International accreditation of the						ACE-FUELS Management
steps	Institution.	1. 100,000					Team/University Librarian/University
			Submission of national resource				Director of Academic Planning
			verification/accreditation/evalua				
			tion report and/or certification.				
			GAP assessment report for				
			international accreditation.	100,000.00	200,000.00		
Sub-Action 2h: Ontimize	centre management and administration		international accreditation.	100,000.00	200,000.00		
Activity 1: Setup	Procure and install office equipment	GOODS	Office equipment requirements				
		1.40,000					
administrative offices	1.10 Nos Desktops/20 No. Laptops		assessed and identified. Call for				
and student offices	2.1 Nos Colour Centralized Printer, 5 Nos	2.20,000	tender following Nigerian				
	Ordinary Printers 3. 2	3. 4,000 4.	procurement act guidelines.				
	No. photocopier	10,000 5.	Tenders received and bidding				
	4. Procure 100Nr. Students Chairs	30,000	process completed. Contracts				
	5.Procurement of Furnitures and Fittings		awarded. Office equipment				
			supplied and installed				
				104,000.00	0		ACE-FUELS Management Team
Activity 2: Ensure	Hold project implementation meetings and	OPERATING COST	Effective and efficient office				
efficient Centre		1. 50,000	administration and				
Administration	of set objectives of the project timely.	2. 15,000	management. Enhanced				
	2.Improve timeliness/quality of financial	3. 350,000	productivity of Centre				
	management (External Auditors Fees).	4. 70,000	administration, Management				
	Attendance to international/regional	5. 20,000	Team and Students. Prompt				
	workshop and conferences including ACE and	6. 10,000	achievement of implementation				
	AAU activities for management team and	7. 7,000	milestones. Timely fiduciary				
		7. 7,000	reporting. Functional				
	faculty 4.National workshops, conferences, seminars and capacity building		institutional oversight of				
	activities for management team members and		fiduciary management.				
	faculty, 5. Transport &		Functioning internal audit unit				
	Travelling (T&T). 6. Data/		and functioning audit				
	Phone Calls for ACE-FUELS TEAM		committee. Transparency of				
	7. Wages for Laboratory Technician, Consultant		ACE expenses, notably the				
	and NYSC Corp members		approved budget, annual work				
			plan. IFRs with an annex on				
			detailed expenditures, project				
			financial and procurement audit				
			reports are visibly accessible on				
			the ACE Impact Center's				
			websites. Efficient Procurement				
			planning.				
			Minutes of statutory project				
			implementation meetings.				
			Number of Staff attending				
			workshops/Conferences and				
			trainings. DLI 6				
			transligs. DLI 0				
				522,000.00			
Activity 3: General	1.Maintenance of ACE-FUELS	WORKS					
Maintenance	Complex/Hostels 2.Maintenance of office	1. 50,000					
	Equipment 3.Maintenace of vehicles	2. 4,000					
	4.Maintenance of Power Generating sets and	3.12,500					
	Solar units .	4.7,000					
	5. Fueling of vehicles	5.15,000					
	6. Fueling/Diesel for power generating sets	6. 20,000					
	7. Maintenance/upgrade of websites.	7.5,000					
	8. Vehicle insurance 9. Insurance of	8.10,000 8.10,000					
		9. 30,000					
					1	1	
	ACE-FUELS Complex and Laboratory	9. 30,000					
	ACE-FUELS Complex and Laboratory Equipment	9. 30,000		153,500.00			ACE-FUELS Management Team

Activity 1: Student	1.0 · 1 and 1 · · · ·	ODED ATTING COST	01/2 2/11		1		ACE FUELCAL
		OPERATING COST	Selection criteria documents				ACE-FUELS Management
screening and		5000	and dcumented screening				Team/University Management
recruitment	admission and scholarships into ACE-FUELS 4		guidelines. Issued student				
	novel MSc and 4 novel PhD programmes.		admission and scholarship				
	2. Recruitment of national/regional students for		award letters. Student				
	ACE-FUELS short courses.		registration documents. Records				
	Registration and on-boarding of successful		of externally generated revenue				
	students.		from acceptance fees and other				
1			student fees (\$659/per				
			students).				
				5,000.00	25,000.00	0.00	
Activity 2: Running of		200,000					ACE-FUELS Management Team/ACE-
ACE-FUELS 8 novel	Enroll students and run 4 novel MSC and 4						FUELS Faculty/FUTO Bursary Unit
programmes	novel PhD approved programmes: MSc and PhD						
· -	in Corrosion Technology; MSc and PhD in						
	Electrochemical Technology; MSc and PhD in						
	Future Energies; MSc and PhD in						
	Nanotechnology, as per ACE-FUELS approved						
1	curriculum guidelines. Enroll students and run		Running of MSc/PhD and short				
1	short professional courses and skills support.		professional courses. Lecture				
	Expected number of students: MSc - 60; PhD -		materials. Programme				
	28.		timetables.	200,000.00	620,000.00		
A -4: 2: A CE4:I	lan to achieve teaching and applied research exce	-II\DI I 4 A -4: C		200,000.00	620,000.00		
Sub-Action 3a: Laborato		enence\DLI 4 Action: Q	dailty of Education/Research				
Activity 1: Maintain	Maintenance of laboratory furniture and fittings	WORKS	Laboratory set up and	1		1	1
ACE-FUELS	for ACE-FUELS general purpose laboratory	4,000	functional. Laboratory				ACE-FUELS Management Team/Physical
laboratories	for ACE-1 CEE3 general purpose laboratory	4,000	commissioned and operational	4,000.00			Planning and Development Unit, FUTO
	1 December of install relevant consultant	COODS		4,000.00			I failing and Development Chit, I CTO
Activity 2: Install	1.Procure and install relevant general use	GOODS	Functional laboratories with				
research	research equipment	1.200,000	current research equipment,				
facilities/equipment	2.Procure consumables and lab supplies.	2. 70,000	stocked with chemicals and				
1		3. 80,000	reagents and various lab				
	research laboratory	4. 200,000	supplies. Up to date softwares.				
1	Procure and install software and workstations		Component of DLI 4.3				
	for computational modeling and simulation,						
	upgrade existing software.			550,000.00	50,000	0.00	
	capacity for research & development	open i muia acam	ln , , ,	1	1	1	
Activity 1: Develop core							
1	Develop core technical team with enhanced	OPERATING COST	Researchers and students				
research team	ability and competence to initiate, lead and	10,000	undertake advanced research in				
research team	ability and competence to initiate, lead and successfully complete high level research		undertake advanced research in research projects in the Centre's				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to		undertake advanced research in research projects in the Centre's focus areas. Research output				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents,				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged ( national co-authored =				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged ( national co-authored = 15/Regional/international co-				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (national co-authored = 15/Regional/international co-authored = 10). Evidence of				
research team	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for		undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income	10,000.00	450,000.00	0	Center-leader, Research Coordinator
Activity 2: Develop	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for	10,000  OPERATING COST	undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income (DLI 5)  Technologists/technicians can	10,000.00	450,000.00	0	Center-leader, Research Coordinator
	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for research proposals.	10,000	undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income (DLI 5)	10,000.00	450,000.00	0	Center-leader, Research Coordinator
Activity 2: Develop	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for research proposals.  Training technologists, technicians, safety	10,000  OPERATING COST	undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income (DLI 5)  Technologists/technicians can	10,000.00	450,000.00	0	Center-leader, Research Coordinator
Activity 2: Develop	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for research proposals.  Training technologists, technicians, safety officers. Technologists/technicians with	10,000  OPERATING COST	undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged ( national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income (DLI 5)  Technologists/technicians can effectively man and operate	10,000.00	450,000.00	0	Center-leader, Research Coordinator
Activity 2: Develop	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for research proposals.  Training technologists, technicians, safety officers. Technologists/technicians with enhanced ability and competence to operate and	10,000  OPERATING COST	undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged (national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income (DLI 5)  Technologists/technicians can effectively man and operate available equipment Laboratories are operated in an	10,000.00	450,000.00	0	Center-leader, Research Coordinator
Activity 2: Develop	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for research proposals.  Training technologists, technicians, safety officers. Technologists/technicians with enhanced ability and competence to operate and maintain existing and new research equipment	10,000  OPERATING COST	undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged ( national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income (DLI 5)  Technologists/technicians can effectively man and operate available equipment	10,000.00	450,000.00	0	Center-leader, Research Coordinator
Activity 2: Develop	ability and competence to initiate, lead and successfully complete high level research projects in the Centre's focus areas. Respond to national, regional and international calls for research proposals.  Training technologists, technicians, safety officers. Technologists/technicians with enhanced ability and competence to operate and	10,000  OPERATING COST	undertake advanced research in research projects in the Centre's focus areas. Research output disseminated in the form of publications, patents, conference papers, training programmes and workshops. 25 publications envisaged ( national co-authored = 15/Regional/international co-authored = 10). Evidence of external research grants income (DLI 5)  Technologists/technicians can effectively man and operate available equipment Laboratories are operated in an efficient and safe manner, with	10,000.00	450,000.00	0	Center-leader, Research Coordinator

Activity 1: Setup ACE-	Layout and equip ACE-FUELS turnkey	OPERATING COST	Layout plan received and			1		
FUELS turnkey	Electrochemistry laboratory	3,000	approved					
Electrochemistry		-,						ACE-FUELS Management Team/Bio-
laboratory					3,000.00	0	0	Logic Science Instruments
	Procure, Install and commision facilities for	GOODS						
Activity 2: Contract	ACE-FUELS turnkey Electrochemistry	700,000	Equipment installed,					ACE-FUELS Management Team/Bio-
award	laboratory		commissioned and in use		700,000.00	10,000.00	0	Logic Science Instruments
	lan to generate revenue from education and rese	arch activities\DLI 5 A		Research	700,000.00	10,000.00		Eogle Science Instruments
	g capacity for effective research translation	aren activities(DE1 5 A	ction. Relevance of Education &	Research				
	On-site/online workshops and training sessions	OPERATING COST			1		1	
	on intellectual property, entrepreneurship and	20,000						
	commercialization strategy. Organize University		Workshops and training					
	innovation week and innovation prizes. Establish		sessions scheduled and					
	innovator support funding schemes (DLI 5.3)		completed. Documentation and					ACE-FUELS Management Team/Centre
Activity 1: Promoting			participants registration					for Entrepreneurship Studies (CES),
entrepreneurship			documents		20,000.00	120,000		FUTO
	Initiate processes to promote technology transfer	OPERATING COST	Identified interested sectoral					ACE-FUELS Management
	by forming linkages between ACE-FUELS	10,000	partners. Meetings and		ĺ			Team/Intellectual Property and
	investigators and stakeholders and collaborating		interactions with sectoral		1			Technology Transfer Office (IPTTO)
	with industry to jointly pursue start-up		partners. Documented meeting					FUTO
	demonstrations and implementation. Undertake		records. Evidence of externally					
Activity 2: Stakeholder	fund raising activities with partners		generated revenue from fund		10.000.00		10,000	
engagement	11		raising,		10,000.00	L	10,000	
Sub-Action 4b: Stakeho	Institutionalize faculty and student exchange	OPERATING COST	Students/faculty placed on		1	T	1	ACE-FUELS Management Team/Sectoral
	programmes with sectoral partners to create	25,000	internships/adjunctships with					Partners/WACEENET
	student internship positions and faculty	25,000	sectoral partners. List of					I arthers/ WACLENET
	adjunctship positions		students/faculty that have					
			participated in at least 1-month					
			period internships/outreach in					
			relevant sector-relevant					
			institutions (up to 50					
			participants).					
Activity 1: Exchange			Internship/adjunctship reports					
programmes					25,000.00			
	Initiate partnerships with national, regional and	OPERATING COST	Records of affiliation with					Centre Leader/National and regional
	international institutions and knowledge networks to evolve novel technologies and	50,000	networks. Participation in network activities. Evidence of					Academic/Sectoral Partners
	approaches, which optimally engage local and		joint research grants					
	regional scientific talents, while linking global		application. Records of					
	expertise. Joint research grants applications.		externally generated revenue					
	Participation in the PASET Regional		from research grants income					
	Benchmarking initiative. WACEENET network		(up to \$50,000.00).					
	activities		Documented data on the					
			required indicators for PASET		ĺ			
			Regional Benchmarking, with					
			an intervention plan to improve		1			
			performance		1			
Activity 2: Networking	<u> </u>				50,000.00	100,000.00	20,000.00	<u> </u>
Sub-Action 4c: Business			lln i a i a i a	ı				
	Activity 1: Annual renewal of registration of	OPERATING COST	Evidence of payment of Annual		1			
	outfit with Corporate Affairs Commission	10,000	renewal fee . Select management board and		1			
Ì			management board and shareholders. Registration		I			
			snareholders. Registration certificate. Evidence of		1			
Activity 1: Company			externally generated revenue		1			Centre Leader/Sectoral Liaison
Registration			from research consultancies.		10,000.00		0	Officer/Legal Sevices Unit, FUTO.
	l .		Socuron consumencies.	l .	,500.00		1"	

		OPERATING COST					
		20.000					
		20,000					
	Initiate research translation and						
	commercialization activities. Develop start-up						
	business plans to promote translation of research						
	breakthroughs and technological innovations into						
Activity 2: Develop	industrial and commercial products and						
business plan	processes		Documented business plans.	20,000.00	10,000.00		ACE-FUELS Management Team.
Action 5: Communication	n						
		OPERATING COST					
		5,000					
	Support FUTO Science Communication Team						
	(SciComm FUTO) to communicate activities and						
	output of the Centre and entire university to the						
Activity 1: Promote	public, through newsletters, radio and tv shows.						
science communication	Train members of SciComm FUTO on science						
and interaction with the	communication basics. Organize dissemination		Published SciComm FUTO				
public	workshops.		newsletter.	5,000			
		OPERATING COST	Increased online visibility and				
	Engage engage digital marketing partners.	15,000	public perception of the Centre.				
	Develop branding and digital marketing strategy,		Improved interaction and				
	targetting researchers, students, public and		communication to the Centre.				
	private sector practitioners, government agencies		Improved stakeholder				
	and the general public, through in-person, online		participation in Centre				
digital marketing	and social media platforms.		activities.	15,000			
				3,191,700.00	2,625,000.00	32,000.00	