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SEMI-ANNUAL REPORT

TASK 2: HIGHER EDUCATION PROGRAMS TO SUPPLY A
PROFESSIONAL WORKFORCE FOR THE ENERGY SECTOR
THE ENERGY CAPACITY INITIATIVE PROJECT (ECI),
CONTRACT NO. DOT-I-00-04-00022-00,
ORDER NO. DOT-I-03-04-00022-00



June 2010

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ON THE COVER: Deputy Minister of Energy of Georgia Mr. Archil Nikolaishvili giving an opening speech at Kutaisi State University for “ Energy: Regional Problems and Development Opportunities” International Conference

SEMI-ANNUAL REPORT

TASK 2: HIGHER EDUCATION PROGRAMS TO SUPPLY A PROFESSIONAL WORKFORCE FOR THE ENERGY SECTOR

THE ENERGY CAPACITY INITIATIVE PROJECT (ECI), CONTRACT NO. DOT-I-00-04-0022-00, ORDER NO. DOT-I-03- 04-00022-00

JUNE, 2010

DISCLAIMER:

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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I Executive Summary

The Energy Capacity Initiative project (ECI) aims to improve **skill levels among policy makers** inside and outside government, as well as **management skills in state-owned and private energy companies, and in NGOs**. The major ECI tasks are as follows:

Task 1: Energy Issues Analysis and Dialogue;

Task 2: Higher Education Programs to Supply a Professional Workforce for the Energy Sector; and

Task 3: Support the Integration of Georgia into European and Regional Energy Institutions through Participation in Regional Workshops and Conferences.

The primary objective of Task 2 is to improve the quality of the professional workforce available for the energy sector through support for **higher education programs**. To accomplish this objective, the following activities have been completed:

1. Development of local graduate-level energy-related programs based on the energy sector needs

The following selected four universities in Georgia have developed graduate programs in energy (full master or concentration). These programs are designed to produce graduates with skills that have been identified in the Professional Skills Gap Analysis Report prepared by ECI during Year 1 of the project implementation.

1. Georgian Technical University - a Concentration in Energy Management for their existing graduate programs in engineering disciplines. This program will begin in the fall of 2010.
2. International School of Economics (ISET) at Tbilisi State University (TSU) - a Concentration in Energy Economics for their existing graduate program in economics. This program began in the fall of 2009 and the first series of students will graduate at the end of spring term 2010.
3. Akaki Tsereteli State University in Kutaisi - a new Master's degree program in Power Industry Technology and Management. This program will begin in the fall of 2010.
4. Grigol Robakidze University (a private university) - a Concentration in Energy Management for their existing MBA program. This program began in spring 2010. The first series of students are graduating at the end of spring term 2010.

To enhance collaborations among universities and energy companies, four universities (*Georgian Technical University, International School of Economics at Tbilisi State University, Akaki Tsereteli State University, Grigol Robakidze University*) and four companies (*JSC "Telasi", Georgian State Electrosystem Ltd., Electricity System Commercial Operator Ltd, Georgian National Electricity and Water Regulatory Commission*) signed a Memorandum of Understanding (MOU) to establish a Center for Excellence in Energy Education, Training, Applied Research, and Information (CEE) in Georgia.

Following a “Strategic Planning” workshop for the Consortium, resulting in a preliminary strategic plan for the CEE, Dr. Hameed Nezhad conducted a “Business Plan Development” workshop for the Consortium members in Signaghi, Georgia. Attachment 3 includes an agenda and a list of participants for the workshop.

CEE members formed a Steering Committee and the first meeting of the committee members was held on May 28, 2010.

2. U.S. scholarship program for three students from Georgia

In September 2009, three selected students from Georgia started their study in the USA:

1. Mikheil Zibzibadze (from GSE) to Study “**Management of Technology**” at the Technological Leadership Institute of the University of Minnesota;
2. Marina Arabidze (from GOGC) to major in **Environmental Studies** with a **Certificate in Energy Analysis and Policy** at the University of Wisconsin, Madison; and
3. Nana Gurgenidze (from MOE) to study “**Energy Management**” at New York Institute of Technology. Their transcripts for their first and second semesters of study in the U.S. show their impressive performances.

II Development of Local Graduate-Level Energy Programs

Energy Education Program Design

In May 2009, the following four selected universities in Georgia signed contracts with ECI and began developing their proposed graduate programs in energy. Energy companies collaborated with these universities in the design and implementation of all of these programs.

Georgian Technical University - a ***Concentration in Energy Management*** for their existing graduate programs in engineering disciplines which includes the following courses:

Table 1: Concentration in Energy Management at Georgia Technical University

No	Course/Module	ECTS ¹ Credits
1	Energy Generation, Transformation and Consumption technologies	20
2	Principles of Energy Management	10
3	Energy Consumption Demand Side Management	10
4	Renewable Energy Technologies	10
	Total Number of Credits	50

International School of Economics (ISET) at Tbilisi State University (TSU) - a ***Concentration in Energy Economics*** for their existing graduate program in economics. This concentration includes the following courses.

Table 2: Concentration in Energy Economics at ISET

No	Course Title	ECTS Credits
1	Cost/Benefit Analysis – Program Evaluation	3
2	Energy Economics I	3
3	Energy Economics II	3
4	Environmental Policy	3
5	Master's thesis	18

¹ ECTS = European Credit Transfer System

	Total Number of Credits	30
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Akaki Tsereteli State University in Kutaisi - a new Master's degree program in ***Power Industry Technology and Management***. This Master's degree program includes the following courses.

Table 3: Master's Degree in *Power Industry Technology and Management* at Akaki Tsereteli State University in Kutaisi

Course Title	ECTS Credits
I. English (required)	10
II. General Courses (required)	10
I. Mathematical Problems and Modeling in Power Engineering and Economics	10
III. Technical Courses (required)	20
1. Power Industry Technology	10
2. Power Engineering of Alternative Energy Sources	5
3. Energy Efficiency and Energy-Saving Technology	5
IV. Courses in Economics, Management and Marketing	25
1. Energy Enterprises Management	5
2. Power Engineering Design Basis	5
3. Energy Policy and its Legal Foundations	5
4. Project Design and Management	5
5. Power Markets and their Management	5
V. Environmental Protection and Public Relations	10
1. Power Engineering Environmental Aspects	5
2. Energy and Society	5
VI. Elective Courses	10
Student will select two courses from the following courses	
1. Energy Security	5
2. Energy Balance	5

3. Natural Monopolies and their Management	5
4. Power Systems Reliability	5
5. Optimization of Power Systems Regimes	5
6. Power Long Distance Transmission	5
7. Power Systems Control	5
8. Power Systems Design Basis	5
VII. Other Requirements	35
Internship	10
Scientific Work	2
Master's Degree Work Execution	25
Total Number of Credits	120

Grigol Robakidze University (a private university) - a **Concentration in Energy Management** for their existing MBA program. This concentration includes the following courses.

Table 4: Concentration in Energy Management at Grigol Robakidze University

Course Title	ECTS Credits
Energy Management	5
Energy Economics and Policy	5
Energy and Environmental Law	5
Competitive Energy Markets	5
Renewable Energy	2
Energy Technology	3
Project Management	5
Master's thesis (includes practicum)	20
Total Number of Credits	50

Energy Education Programs Implementation

Grigol Robakidze University (GRUNI) – Energy Management Concentration

Syllabi for the courses within Energy Management concentration have been developed. The courses are part of Master's program in Business Administration at Grigol Robakidze University. List of lectures with corresponding professors who are leading the courses is:

1. Energy management – David Sikharulidze; Vasil Kikutadze; Ekaterine Maglakelidze;
2. Renewable Energy – Zuarab Gurgenzidze
3. The foundation of Energy Technology - Tengiz Museliani
4. Energy Economics and Policy – Shota Murgulia, Mikheil Gogatishvili
5. Energy and Environmental Law – Slava Phetelava, Tamar Gamsakhurdia
6. Project Management – Akaki Tsomaia
7. Electric-Power Markets and Their Regulation – Nugzar Beridze

Literature purchased within the project was distributed among selected professors, one of them "Energy Management Textbook (Barney L. Capehart., Wayne C. Turner., William J. Kennedy. Guide to Energy Management. Sixth Edition, 2008, The Fairmont press, Inc.). was translated and is currently being edited by Mr. Davit Mchedlishvili (Telasi Financial Director).

Reading and studying material which was prepared based on the purchased literature was distributed among concentration students. The students of the concentration are Grigol Robakidze University Master of Business Administration program graduates who will be receiving a certificate in Energy Management upon completion of the course.

Since the state exams for those who wish to continue education on a Master's degree level, are held in summer, Grigol Robakidze University began advertising the concentration starting in May 2010.

The University is planning to organize a lecture by a guest lecturer from Delaware University. Tentative date of the lecture is set for June.

Kutaisi State University (ATSU) –Power Industry Technology and Management Master's Degree Program

Kutaisi State University has completed the first stage of their facility and curriculum development program under the project. The rooms dedicated to the new Master's degree program have been renovated (with co financing from the University), computer lab and library are equipped with necessary equipment/furniture. The syllabuses in following courses have been developed:

- a. Power Industry Technology
- b. Alternative Energy Sources Power Engineering
- c. Energy Efficiency and Energy Saving Technologies
- d. Energy Enterprises Management
- e. Energy Regulation fundamentals
- f. Energy Policy and its Legal Foundations
- g. Project Design and Management
- h. Power Markets and their Management

- i. Energy and Environment
- j. Energy and Society
- k. Energy Security

The complete curriculum of the Master's degree program in Power Industry Technology and Management is finalized and includes program goals, expected results and competencies of Master's degree holders, preconditions for admission to the program and job placement opportunities for graduates, curriculum program layout (list of academic subjects, number of credits, required and elective subjects) and brief descriptions of each discipline. A presentation of the new Master's degree program layout was held where Project Director Mr. Omar Zivivadze presented the program to representatives of Kutaisi State University and Georgian National Water and Energy Regulatory Commission (Commissioners I. Kavtaradze and Z. Gabelaia, Head of Electricity Department – Mr. N. Beridze, Advisor to the chairman – Mr. D. Chomakhidze).

The university conducted a scientific conference: "Energy: Regional problems and development opportunities" on May 21 – 22, 2010.

With a purpose of advertising a new Master's degree program at Kutaisi State University for a new academic year, an article was prepared on Power Industry Technology and Management Master's degree program which was printed in "Imeretis Moambe" (Imereti Messenger) newspaper in April. The project team has also held a presentation session for existing students at ATSU especially targeting Bachelor's degree students at mathematics and economics departments as well as female students of the university in order to advertise the program among them.

On May 21st and 22nd, an international scientific conference on "Energy: Regional Problems and Development opportunities" was held at Kutaisi State University which was organized by "Power Industry Technology and Management Master's Degree Program" project team. The Conference program is given in Attachment 1. A highly successful scientific conference was followed by a roundtable meeting among ECI grantee universities where project representatives presented their existing programs, discussed future activities and collaboration plans as well as their needs and requirements for further strengthening newly developed Master's degree programs/concentrations and existing Bachelor's degree programs.

International School of Economics at TSU (ISET) – Energy Economics Concentration

ISET started classes in Energy Economy concentration in fall 2009 semester. Two of the ISET students are participating in the SYNENERGY project MARKAL/TIMES modeling program data collection, entry and assessment.

ISET organized and hosted a lecture on "General overview of energy sector of Georgia, current and upcoming processes and impact of August war on Georgian energy sector". The lecture was given by the First Deputy Minister of Energy of Georgia Ms. Mariam Valishvili and was attended by students and professors from ISET, Georgian Technical University, Grigol Robakidze University and energy sector professionals.

Georgian Technical University (GTU) – Energy Demand Side Management Concentration

GTU continues to work on renewal of existing library material, obtaining, translating and processing new foreign textbooks which have been purchased within the project, developing new methodical instructions and manuals, obtaining modern computer software, equipping technical lecture room with contemporary equipment, which will be used for conducting lectures and student testing, as well as trainings and internet sessions in an interactive way.

An internal work plan has been developed for the heads of Energy Engineering and telecommunications department directions. The team is currently analyzing the existing master's degree program in Energy management at GTU and considering possibilities of any changes in the program or using some of its existing disciplines as parts of new Energy Demand Side Management concentration. At this stage, two new disciplines have been developed which will be included in the new concentration: Management of energy demand side requirements and Renewable energy technologies.

Estimated Number of Graduates

The following table shows the estimated number of graduates from these four programs from 2010 to 2012.

Table 5: Estimated Number of Graduates from four Universities (2010-2012)

Name	Start Date	Estimated # of Graduates in Spring 2010	Estimated # of Graduates in Fall 2010	Estimated # of Graduates in Spring 2011	Estimated # of Graduates in Spring 2012	Estimated Total # of Graduates
International School of Economics at TSU	Fall 2009	8		10		18
Grigol Robakidze Univesrity	Spring 2010	24	20	20		64
Georgian Technical university	Fall 2010			16		16
Akaki Tsereteli State Univesrity	Fall 2010				15	15

Local Scholarship Awards

To support universities and students, part of ECI project budget is dedicated to scholarships to students who will enroll in the newly established energy programs. Attachment 2 shows the number of students in each program and the amount of scholarship to be awarded to students in these programs to cover their tuitions and fees. The list was revised according to the actual number of students admitted to two of the concentrations and discussing funding procedures and amounts with all four universities. Currently, there are 8 students at Energy Economy Concentration at ISET and 24 students at Energy Management Concentration at Grigol Robakidze University. Attachment 3 shows existing students' profiles for these two concentrations. Dr. Hameed Nezhad and Ms. Tsira Chikvaidze met with current students at ISET and Grigol Robakidze University and discussed their interests in the energy field and their recommendations to improve these programs.

Important characteristics of these programs: ISET has Azerbaijani graduates, and there are professionals among Robakidze University graduates. The main problem is placement of the graduates. Job Fair or a special meeting between graduates and companies could help to solve this problem to some extent.

To continue supporting exceptional students in their programs beyond 2011, these four universities are exploring other means for scholarship support, including Georgian government as well as fundraising activities through the newly established energy consortium (CEE).

Internship Plans

All four universities have established partnerships with energy companies. These companies are expected to provide the necessary internships to students from these programs. Two of the ISET students are participating in the SYNENERGY project MARKAL/TIMES modeling program data collection, entry and assessment. Students from ISET and Robakidze university expressed an interest in internship opportunities in the United States.

III Training and Faculty Development

On March 5-6, 2010 twenty representatives from four universities, the energy sector, and the Ministry of Energy of Georgia attended a seminar on “Preparation for a New Academic Year” to discuss: preparation of new energy programs, students’ recruitment, tuition fees, student handbook, internships, placement of the graduates, scholarships to qualified students, professional Certificate in “Energy Management. Dr. Hameed Nezhad participated via skype to discuss short term activities for CEE (see Appendix 3a).

From February 2009 till May 2010 ECI organized 13 professional training programs: workshops, seminars, and study tour (see Appendix 5).

IV. Center for Excellence in Energy Education, Training, Applied Research, and Information (CEE)

On December 17, 2009 four universities (*Georgian Technical University, International School of Economics at Tbilisi State University, Akaki Tsereteli State University, Grigol Robakidze University*) and four companies (*JSC "Telasi", Georgian State Electrosystem Ltd., Electricity System Commercial Operator Ltd, Georgian National Electricity and Water Regulatory Commission*) signed a **Memorandum of Understanding** (MOU) (see Appendix 4) to establish a **Center for Excellence in Energy Education, Training, Applied Research, and Information** (CEE) in Georgia.

The main goal of CEE is to enhance collaborations among universities and energy companies and to provide energy education, training, applied research and information services in Georgia.

To develop a strategic plan for CEE, Dr. Hameed Nezhad conducted an interactive workshop on "*Strategic Planning*" for the Consortium members in December 2009. The result of this workshop was a preliminary strategic plan for CEE. The following short term activities were named as a result of the "workshop on "Strategic Planning"

1. Create a formal organizational structure.
2. Develop a Web-page and e-newsletter.
3. Publish teaching materials in both Georgian and English.
4. Subscribe to online data bases and energy journals.
5. Become a member of international associations such as the International Association for Energy Economics and the Association of Energy Engineers.
6. Present papers at regional conferences.
7. Establish the Energy Educators Association.
8. Organize a regional conference (Energy Forum) in Georgia in 2011.
9. Conduct two training workshops on **business plan** and **principles of energy management**.
10. Organize a scholarship fund drive.
11. Conduct a seminar on "**Lessons Learned**" by the four universities.
12. Organize a Job fair.
13. Sign a Memorandum of Understanding between the four universities to synchronize their programs and to develop a mechanism for credit transfer.

On May 15th and 16th, 2010 Dr. Hameed Nezhad conducted a workshop on "Developing a Business Plan" in Signaghi, Georgia. The primary objective of the workshop was to train participants in developing a business plan and to discuss business development issues for energy services in Georgia. Attachments 4 and 5 show the agenda and the outcome of the workshop.

Following the workshop on "Business Plan Development", the Consortium member organizations (including Energo-Pro Georgia who has not signed the memorandum but has been actively involved in CEE activities) were officially asked to nominate CEE Steering Committee members from their respective organizations. As a result, on Friday, May 28th, CEE first Steering Committee meeting was held (see attachment 6). The Steering Committee elected the Chairperson, discussed a list of proposed short term activities for the CEE as well

as confirmed the assigned tasks to university/organization representatives and set deadlines (Attachment 7). At an initial stage, the Committee members agreed to assign CEE business plan development to a team from Grigol Robakidze University Business Administration department. The first draft of CEE business plan, along with the finalized charter of the organization, will be circulated among the Consortium member organizations for comments and input, while will the final version of the business plan to be ready for the second half of July 2010.

V. U.S. Scholarship Program

The three scholarship recipients started graduate studies in the U.S. in September, 2009. ECI has so far received transcripts for Spring 2010 semester only for Ms. Gurgenidze and Ms. Arabidze. As their transcripts indicate (see Attachment 6), three students had excellent performances during their second semester of study in the United States. All three are now back in Georgia for their summer vacations and will be returning to the US in August/September 2010 for the second year of their studies. Scholarship recipients have started sharing their US experience with their colleagues and others interested in their activities at the same time working on developing a research proposal for their Master's thesis works.

VI. Attachments

Attachment 1 -Conference Program



The Energy Capacity Initiative



Akaki Tsereteli State University

Partner

Georgia's National Energy and Water Regulatory Commission

International Scientific Conference

“ENERGY: REGIONAL PROBLEMS AND DEVELOPMENT OPPORTUNITIES”

May 21-22, 2010

Kutaisi, Georgia

CONFERENCE PROGRAM

INTERNATIONAL SCIENTIFIC CONFERENCE

„ENERGY: REGIONAL PROBLEMS AND DEVELOPMENT OPPORTUNITIES“

PROGRAM COMMITTEE

G. Arabidze (Georgia), A. Gashimov (Azerbaijan), T. Gotsiridze (Georgia), O. Zivzivadze (Georgia), A. Tvalchrelidze (Georgia), T. Kupatadze (Georgia), Z. Melikyan (Armenia), F. Muradov (Azerbaijan), S. Nachkebia (Georgia), H. Nezhad (USA),

P. Naescher (Liechtenstein), N. Samsonia (Georgia),

D. Chomakhidze (Georgia)

ORGANIZING COMMITTEE

Chairman:

G. Oniani (Rector of A. Tsereteli State University, Georgia)

Vice-Chairmen:

Z. Sokhadze (A. Tsereteli State University, Head of Administration, Georgia),

Z. Liluashvili (A. Tsereteli State University, Deputy Rector, Georgia),

K. Sirbiladze (A. Tsereteli State University, Head of Quality Control Department, Georgia),

A. Tvalchrelidze (A. Tsereteli State University, Dean of Engineering Faculty, Georgia),

G. Arabidze (Georgian Technical University, Dean of Power Engineering Faculty, Georgia),

N. Beridze (Georgia's National Energy and Water Supply Regulatory Commission, Head of Electricity Department),

O. Zivzivadze (A. Tsereteli State University, Head of Electrical engineering Department, Georgia).

Members:

K. Tskhakaia (A. Tsereteli State University, Georgia)

L. Zivzivadze (A. Tsereteli State University, Georgia)

I. Abbasov (Azerbaijan National Academy of Sciences, Gyanja Regional Science Center, Azerbaijan)

D. Shamaevi (A. Tsereteli State University, Georgia)

M. Imedashvili (USAID-s ECI Project, Georgia)

CONFERENCE AGENDA

Day I

May 21, 2010

Address: 57, Tamar Mepe street, Kutaisi, Georgia

Akaki Tsereteli State University

The University Office Building

12.00-13.00	Attendee Registration
Plenary Session	
13.00-13.30	<p>Opening. Welcoming Speech – Dr. Giorgi Oniani, Professor, Rector of Akaki Tsereteli State University</p> <p>Speeches:</p> <p>A. Nikoleishvili – Deputy Minister of Energy,</p> <p>D. Gordeladze – Acting Mayor of Kutaisi,</p> <p>C. Burge – Head of ECI Project,</p> <p>M. Ubilava – Project Management Officer, Energy and Environmental Protection Office,</p> <p>F. Neshher – General Director, Ministry of Environment, Land-tenure, Agriculture and Forestry of Principality of Liechtenstein,</p> <p>A. Gashimov – First Vice-President of Azerbaijan Academy of Sciences</p>
13.30-14.00	<p>Presentation on “Future of Power Sector: Uncertainties and Opportunities” – Dr. Hameed Nezhad, Professor, Metropolitan State University (USA)</p>
14.00-15.45	Break. Lunch

Concurrent Sessions	
14.45-17.45	Concurrent Sessions
17.45-18.00	Break
Cultural Events	
17.00-18.30	Cultural Events
19.00	Reception

Day 2

May 22, 2010

Address: 98, Akhalgzrdoba avenue, Kutaisi, Georgia

Engineering Faculty

10.00-12.00	Concurrent Sessions
12.00-12.30	Break. Coffee
12.30-14.00	Round table on “Higher and Professional Education in Energy Sphere: Current state, Problems and Cooperation Opportunities”
14.00-14.30	Press-Conference
14.30-15.30	Break. Lunch .

Cultural Events

May 21	Presentation of Project “ Establishment of Energy Efficient Schools in Kutaisi (Georgia) and Ararat (Armenia)” in Kutaisi Physical-Mathematical School #41
May 21	Tour of Akaki Tsereteli State University Zoology Museum
May 21	Tour of Georgia’s Energy and Water Supply Regulatory Commission
May 22	Tour of Remarkable Sights of Kutaisi

Conference Sections and Leaders

- 1. Electrical Engineering and Power Industry Technologies**
(Leader - Gia Arabidze, Professor, Georgian Technical University)
- 2. Environment and Renewable Energy Sources**
(Leader - Felix Naescher, PhD, Liechtenstein)
- 3. Energy and Recourses Saving Technologies**
(Leader – Avtandil Tvalchrelidze, Professor, A. Tsereteli State University)
- 4. Information Technologies in Power Industry**
(Leader – Jano Khuntsaria, Professor, Georgian Technical University)
- 5. Energy Economics and Management**
(Leader – Demur Chomakhidze, PhD, GNERC).

Time-Limit for Sectional Work

Speech – 15 min.

Debates – 5 min.

SECTION № 1

Electrical Engineering and Power Industry Technologies

Leader - **Gia Arabidze**, Professor, Georgian Technical University

Secretary – **Shorena Pkhakadze**, Doctoral Candidate, Akaki Tsereteli State University

May 21, 2010

Working hours

14.45-17.45

Address: 57, Tamar Mepe str.,
Akaki Tsereteli State University’s Office Building

May 22, 2010

**Working hours
10.00-12.00.**

Address: 98, Akhlagazrdoba ave.,
Akaki Tsereteli State University,
Engineering Faculty

- 1. S. Baramidze, B. Kiguradze, O. Kiguradze**
Development of Flow Chart for Heating and Cooling of Multipurpose High-Rise Buildings on the Basis of Geothermal Reversible Heat Pumps
- 2. K. Gigitelashvili, D. Kiguradze**
Modeling of the Vortex Flow Meters Applying the *FLUENT* and *Gambit* Software
- 3. Shekriladze I., Rusishvili J., Gigineishvili G., Robakidze Gr**
Utilization of Energy Flow Diagrams through Assessment of Energy Efficiency of Thermal Systems
- 4. M. Makharadze**
Reactive Power Unbalancing and Systems Operating Stability Issues
- 5. T. Mikiashvili, G. Gogshelidze**
Gas Turbine Equipment Thermal Efficiency with the Use of Various Methods of Control
- 6. S. Nemsadze, N. Jashi**
Solar Micro Power System with Semi-Conductive Transformers
- 7. J. Noselidze, D. Kaladze**
Rioni river's Power-Producing Development Opportunities
8. S. Baramidze, G. Ketelaury, D. Kiguradze
Experimental Research of Heat-Insulated Materials' Coefficient of Thermal Conductivity
- 9. N. Kopaliani, O. Shautidze, G. Gorgodze**
Use of High Frequency Vibrating Signals for the Purpose of Diagnostics of Technical Conditions of Hydro Power Equipment
- 10. T. Kokhraidze, E. Chachkhiani, O. Kheladze**
Autonomous Asynchronous Dynamo with Digital Regulation of Voltage
- 11. K. Mchedlidze**
Investigation of Steam Turbine Cogenerative Stations Energy Efficiency with Proportional Method
- 12. S. Nemsadze, M. Giuashvili**
The Diagnostics Issues of the Piezoelectric Measuring Transformers with Magnetic-Impulsive Equipment
- 13. G. Nikuradze, J. Nikuradze**
Remote Education and its Evaluation

14. A. Khetaguri, A. Nikolaishvili, G. Chitashvili
Power Supply Combined Technologies Application Opportunities in Georgia's Power Industry

15. Magrakvelidze T.Sh., Lomidze Kh.N., Mikashavidze A.N., Janikashvili M.S., Archvadze I.G., Kurkumuli N.G
On Some Questions Energy Security and Optimization Power Energy System of Georgia

SECTION № 2

Environment and Renewable Energy Sources

Leader - **Felix Naescher**, PhD, Liechtenstein

Secretary - **Elene Gamkrelidze**, Associate Professor, Akaki Tsereteli State University

May 21, 2010

Working hours

14.45-17.45

Address: 57, Tamar Mepe str.,
Akaki Tsereteli State University's Office Building

May 22, 2010

Working hours

10.00-12.00.

Address: 98, Akhlagazrdoba ave.,
Akaki Tsereteli State University,
Engineering Faculty

1. T. Jishkariani, G. Arabidze, M. Guliashvili, M. Arabidze, S. Partskhaladze
Biomass Waste Combustion Technologies

2. A.J. Kamladze, A.M. Gelashvili
Alternative Fuel Diesel Engine Operational Features and Ecological Analysis

3. N.Ormocadze, D.Bibileiushvili, H.Lomia
Obtain and Research of Layers of the Basis of
POLYNAPHTOILENBENZIMIDAZOLES Polymers

4. A.K. Tvalchrelidze, V.S. Saginadze, R.R. Tskhakaia
The Spiral Gas-Liquid Pump

5. A Kamladze, A. Gelashvili
Saving of Energy Recourses in the Transportation Sector - Environmental Protection
Factor

6. N. Meladze
Youth Employment and Using Renewable Energy in Georgia

7. G. Kipiani, A. Geguchadze

The Self-cleaning Dam of the Water-Reservoirs of Hydro Power Plants from the River Sediments

8. T. Moseshvili, E. Gamkrelidze

Medical-Biological Aspects of Cellular Connection

9. T. Moseshvili, M. Tatvidze

Influence of the Electromagnetic Fields on Human Health

10.I. Kavtaradze

Ecological Risk-Factor of the Gas Transmission Pipeline and Qualitative Model of its Evaluation

11. D. Namgaladze, I. Kavtaradze

Regarding Optimization of Decisions Regarding Commissioning of Energy Objects Taking into Account Social-Ecological Factors

12. Ts. Turkadze, B. Butskhrikidze, I. Bochoidze, M. Khetsuriani, G. Abuladze

Some Aspects of the Use of Waste as Energy Source for the Example of the EU and Georgia

13. L. Zivzivadze, O. Zivzivadze, S. Pkhakadze

Determination of the Safe Level of Electromagnetic Field Intensity with Electric-Contact Spot Welding

14. M. Bobokhidze, B. Bobokhidze, P. Geradze

Investigation of Air Pollution Coefficient for Transport Networks

15. T. Gamsakhurdia

Compromise Way Between Power and Environment

16. N. Kamkamidze

Biological Remediation Technology Method for Oil-Slag Utilization and Clean Up of Soil Polluted by Oil

17. N. Kamkamidze

The Bioremediation – Biological Processing of the Oil Terminal's Polluted Soil

18. A. Kvachakidze, K. Tskhakaia

Climate Conditions of Imereti region and Tendencies of Change

19. Bababeyli N.S., Asadov Kh.A., İmat F.M.

KARIZ AS SOURCE OF ALTERNATIVE ELECTROENERGY

20. A Khetaguri, M. Valishvili, A. Nikolaishvili

Renewable Energy Sources in Georgia and Greenhouse Gas Emissions Reducing Opportunities

21. I.M.Abasov.,N,M.Rzayev

Potential ways of development of alternative power In Azerbaijan.

22. Chogovadze D.T. Purtshvanidze G. N., Lomidze A.N.

Electromagnetic Environmental Contamination Caused by Vehicles

23. Lomidze I., Khelidze G., Shatakishvili L., Chubinidze Z.

Hydroenergetical Resources, Priority of their Mastering and Perspectives

24. J. Kilasonia, P. Samsonashvili
On the Optimization of Waterpower Plant Intra-Station Regime

SECTION № 3

Energy and Recourses Saving Technologies

Leader - **Avtandil Tvalchrelidze**, Professor, A. Tsereteli State University

Secretary – **David Tsagareishvili**, Associate Professor, Akaki Tsereteli State University

May 21, 2010

Working hours
14.45-17.45

Address: 57, Tamar Mepe str.
Akaki Tsereteli State University's Office Building

May 22, 2010

Working hours
10.00-12.00

Address: 98, Akhlagazrdoba ave.
Akaki Tsereteli State University

1. T. Megrelidze, E. Gvachliani, E. Sadagashvili, G. Gugulashvili
The possibility of Use the New Save Energetic Constructions for Receive the Cold

2. A. Khvadagiani M. Iremadze, L. Zivzivadze
Novel Hard Alloys Electrical Conductivity

3. D. Tsagareishvili, O. Sesikashvili, G. Nikabadze, V. Apridonidze, Sh. Tsagareishvili, I. Chumbadze
Replacing the Existed Refrigerating Systems by Alternative Refrigerating Mediums and Investigation of Changes Caused by this Replacement

4. M. Iremadze, A. Khvadagiani
Selection of Optimality Energy Criteria during the Face Milling

5. A. Khurtsilava, Z. Mardaleishvili, Z. Papidze, M. Maisasvili M.
Non-Destructive Testing of Ferroconcrete Items with Application of Tankside Transmitters

6. T. Kochadze, O. Zivzivadze, I. Kamkamidze
Basic Principles of Raising the Vehicle Generator's Energy Efficiency

7. T. Modebadze
Optimization of Metals Cutting Processes with Minimization of Power Intensity

8. K.G. Partskhaladze, G.J. Kvirikashvili, I.R. Stepanyan
Energy Conservation in the Domestic Refrigeration Appliances

9. M. Keburia, I. Kamkamidze, R. Topuria

Investigation of Opportunities for Energy Efficiency and Obtaining the Hot Water by Means of Variable Frequency Electric Power Generated by Wind Generator

10. T. Pkhakadze, A. Kakauridze, M. Shalamberidze

The Computer-based System of the Metal Constructions Electric Contact Spot Welding Quality Control

11 .M. Baratashvili

The Energy Efficient Regimes for Mechanical Treatment of Asphalt-Concrete Pavements

12. T. Megrelidze, S. Mgebrishvili, E. Sadagashvili, G. Gugulashvili

The Foods Chemical and Biochemical Changeability into the Freezing Process

13. V. Khuchua

Power Conservation in the Machines of Trajectory Type through the Decrease of the Planetary Mechanism Rank

14. G. Purtshvanidze, D Chogovadze, A. Lomidze

Electromechanical Perpetuum Mobiles (PPm-2)

15. V. Khuchua

Energy Saving Mechanisms in the Mixer Drivers

16. N. Kanteladze, L. Zivzivadze, S. Pkhakadze

Materials Moisture Measurement with Dielectric Method

17. V. Nakashidze, K. Mgaloblishvili

Development of Ozone Generator Operating with Energy Conservation

18. R. Topuria, M. Keburia

Noise Formation Processes in the Internal Combustion Engines and their Mathematical Description

19. A. Sulamanidze, A. Neverov, A. Metreveli

The Micro-Welding Alternative Current Source

20. N. Sakhamberidze

Highly-Productive Energy Efficient Technologies for Processing with Contour Tools

21. Butskhrikidze. B. A, Turkadze Ts. D., Sirbiladze T. V., Gamkrelidze E. A.

Electrical Insulating Coatings

22. M. Tevzadze, P. Mshvildadze, D. Khuskivadze

Mountainous Conditions Influence on Engine Operation Efficiency

SECTION № 4

Information Technologies in Power Industry

Leader – **Jano Khuntsaria**, Professor,
Georgian Technical University

Secretary – **Malkhaz Maisashvili**, Assistant Professor,
Akaki Tsereteli State University

May 22, 2010

Working hours
10.00-12.00

Address: 98, Akhlagazrdoba ave.,
Akaki Tsereteli State University
Engineering Faculty

1. T. Burkadze, J. Beridze

The Analysis and Synthesis Poling Systems of Wideband Non-Conductive Communicative Networks

2. K. Chapidze, G. Chapidze, Z. Kobakhidze

The Check-Up of Dynamic Mode for Power Measuring Devices

3. K. Chapidze, Z. Papidze, G. Chapidze

Method for Display Readout from Power Measuring Device Scale

4. L. Imnaishvili, M. Bedineishvili

Experience of Using Digital Technologies in Electric Power Engineering

5 J. Khuntsaria, M. Jgamadze, M. Gogberashvili., R. Machaladze

ALGORITHM OF RECTILINEAR TRANSFORMATION OF TRANSFORMANT, ECONOMIC CODING WITHOUT LOSS

6. E. Nanobashvili, E. Steperman, D. Nanobashvili, G, Iremashvili

Creation of Errors During Decoding Process of mBnB Signals

7. E. Pantskhava, T. Chkhikvadze, O. Kiguradze

Computer Simulation of Situational Trainings for Prevention of Damages of Steam Generators

8. J. Khuntsaria, M. Gogberashvili, M. Jgamadze, R. Machaladze

ECONOMIC CODING METHOD OF DISCRETE COSINE TRANSFORMATION OF TRANSFORMANTS

9. O. Zivzivadze, I Kamkamidze, L Zivzivadze

Consumed Electric Power Remote Control and Centralized Control by Means of Mobile Operator

SECTION № 5

Energy Economics and Management

Leader – **Demur Chomakhidze**, PhD, GNERC

Secretary – **Nana Shonia**, Associate Professor, Akaki Tsereteli State University

May 21, 2010

**Working hours
15.45-16.45**

Address: 57, Tamar Mepe str.,
Akaki Tsereteli State University's Office Building

**May 22, 2010
Working hours
10.00-12.00**

Address: 98, Akhlagazrdoba ave.,
Akaki Tsereteli State University
Engineering Faculty

1. D. Chomakhidze

USAID and Energy Regulation in Georgia

2. SEYED EMAD EMADI

Dynamics of Caspian Sea Oil Supply Chain: Issues and Options

3. Z. Gabelaia

Georgia's Power Industry during the Years of Independence

4. M. Gudiashvili, D. Jishkariani

The Energy-Audit Design Network Planning

5. D. Jabua; G. Kiknavelidze

360 Degree Feedback System and the Perspectives of its Utilization in Georgian Energetic Companies

6. G. Kokhreidze, D. Mchedlishvili

Processing of Issues of Management of Capacity and Energy Loss in Electric Networks

7. I. Lomidze, D. Namgaladze, G. Arabidze, G. Khelidze, T. Arshba, V. Alania

To Work Out Strategy of Georgian Energy Security Free Reference in Perspect to Foresee Increase of Power Demand

8. N. Shonia

Energocredit - Innovative Credit Product in Georgia

9. N. Samsonia, M. Losmadze-Kutchava

Modeling the Investment Process in the Energy

10 R. Sathre, I. Grdzlishvili

Primary Energy and Greenhouse Gas Implications of Increased Wood Use in the Georgian Construction Sector

11. D. Sikharulidze, V. Kikutadze

Liberalization of the Electricity Market as World Tendency

12. N. Beridze

Some Results of Researches of the Power Market of Georgia

13. Khakhutashvili E., Khuntsaria L.

The Govern Structures Management of Georgian Energetic Companies

14. G. Kokhreidze, I. Kurashvili, D. Kokhreidze

Management of Starting and Traction of Direct Current Motor Taking into Account
Three-phase Bridge Reversible Converter

Attachment 2: Local Scholarship Budget

THE ENERGY CAPACITY INITIATIVE (ECI)														
Higher Education Grants Program, December 2009														
NAME	Start date	Estimated Number of graduates in Spring 2010	Estimated Number of graduates in Fall 2010	Estimated Number of graduates in Spring 2011	Estimated Number of graduates in Spring 2012	Estimated Total number of Graduates	Energy Credits (ECTS)*	Total degree credits (ECTS)	Cost per credit (\$)	Cost per student for energy major(\$)	Total Scholarship Grants(\$)	Curriculum Development Grants (\$)	Total Grants (\$)	
Iv. Javakishvili Tbilisi State University -ISET (Masters degree in Economics with Concentration in Energy Economics)	Fall 2009	8	0	10		18	30	120	266,67	8000	96 502	85 500	182 002	One year concentration ----- Cost sharing by ISET for the scholarship is \$47,500
Grigol Robakidze University (MBA with Energy Management Concentration)	Spring 2010	24**	20	20		40	50	120	23	1150	46 000	73 348	119 348	One semester concentration
Georgian Technical University (Masters degree with Concentration in Energy Management)	Fall 2010	0	0	16		16	50	120	23	1150	18 400	68 213	86 613	One year concentration
Akaki Tsereteli State University (Power Industry Technology and Management)	Fall 2010	0	0	0	15	15	120	120	23	2760	41 400	113 573	154 973	Two-year Master's degree program
CEE Consortium Budget													17 032	5% of curriculum development grant
Sub-Totals		8	20	46	15	89					202 302	340 633	17 032	
Total Costs													559 967	
*ECTS=European Credit Transfer System														
** This semester 24 students paid the tuition themselves														
Note: \$55,000 Cost sharing by ISET was for 20 scholarships. Since the number has been reduced to 18, the cost sharing figure has been reduced to \$47,500														

Attachment 3: Existing Student profiles from ISET and Grigol Robakidze Universities

International School of Economics at TSU

Picture	Name	City & Country of Origin	Undergraduate Major(s)	Graduate Degree Major	Work Experience (Years)	Job Title/Organization	E-Mail/Cell #	Mobile #
	Abashmadze Ieso	Tbilisi, Georgia	BA in Marketing; TSU Business & Economics Faculty	MA in Economics (ISET)	2009 - 2010	Project Manager/ LTD "Obooba"	i.abashmadze@iset2010.ge	891 62 50 60
	Gafarova Gulmira	Baku, Azerbaijan	BA in Economics Theory, Baku State University	MA in Economics (ISET)	2009, August;	1) Internship 2) Marketing Department from 05.03.10-present./ 1) SOCAR Petroleum Baku; 2) SOCAR Georgia	g.gafarova@iset2010.ge	898420942



<p>Imamverdiyev Nizami</p>	<p>Baku, Azerbaijan</p>	<p>BA in Economics Theory, Baku State University</p>	<p>MA in Economics (ISET)</p>	<p>2006 - 2007; 2008; 2009; March, 2010 - up to present</p>	<p>1) Agent; 2) Treasurer; 3) Internship; 4) Internship/1) "Gorgud" Insurance Company; 2) International NGO "AEGEE- Baki"; 3) Internship at World Bank- Azerbaijan office Researcher- Economic department 4) Internship at SOCAR Georgia Quality Control Department</p>	<p>n.imamverdiyev@iset2010. ge</p>	<p>898148986</p>
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	<p>Khiladze David</p>	<p>Batumi, Georgia</p>	<p>BA in Mathematics, Batumi Shota Rustaveli State University; MA in Algebra, Theory of numbers and Mathematical logic, Batumi Shota Rustaveli State University;</p>	<p>MA in Economics (ISET)</p>	<p>2004- 2008</p>	<p>Head of the Organization/ Assessment and Monitoring Center of Batumi Nautical Academy</p>	<p>d.khiladze@iset2010.ge</p>	<p>855 39 24 62</p>
	<p>Kokhreidze Tornike</p>	<p>Tbilisi, Georgia</p>	<p>BA in Medicine, Dentist; Tbilisi Medical State University</p>	<p>MA in Economics (ISET)</p>			<p>t.kokhreidze@iset2010.ge</p>	<p>8/93-79-58-27</p>
	<p>Pkhakadze Vakhtang</p>	<p>Samtredia, Georgia</p>	<p>BA in Mathematical Methods for Economics Kutaisi Akaki Tsereteli State University;; MA in in Mathematical Methods for Economics; Kutaisi Akaki Tsereteli</p>	<p>MA in Economics (ISET)</p>	<p>2006</p>	<p>1) Internship 2) Internship/1)Sa mtredia City Hall, Financial Department 2) Georgian National Energy and Water Supply</p>		<p>898 301030</p>

			State University;			regulator commission		
	Shatirishvili Natalia	Tbilisi, Georgia	BA Georgian Technical University	MA in Economics (ISET)	July 2009- present	Internship/ NGO World Experience for Georgia	n.shatirishvili@iset2010. ge	893 72 42 86
	Sulamanidze Nana	Tbilisi, Georgia	1) BA in Bachelor of Business, Finance, Marketing & Management; Texas A&M University Agribusiness Teaching Center, Yerevan, Armenia	MA in Economics (ISET)			n.sulamanidze@iset201 0.ge	895 350184

Grigol Robakidze University

No.	Name	Gender	City & Country of Origin	Undergraduate Major(s)	Graduate Degree Major	Work Experience (Ys)	Job Title	Organization	E-Mail	Mobile #
1	Apridonidze Davit	Male	Tbilisi, Georgia	Law	Bachelor, Master	-			filosof@yahoo.de	898-55-51-59
2	Aronia Giorgi	Male	Tbilisi, Georgia	Energy Communication	Bachelor	1 years	Insurance agent	IRAO	aroniagiorgi@yahoo.com	898-55-40-49
3	Beridze Archil	Male	Tbilisi, Georgia	Engineer	Bachelor	-			achiberidze@yahoo.de	899-35-00-80
4	Burduli Mariami	Female	Tbilisi, Georgia	Business Administration	Bachelor	-			gio_best777@mail.ru	898-19-08-06
5	Chitrekashvili Qeti	Female	Tbilisi, Georgia	Business Administration	Bachelor	3 years	Sales manager	Credo	kchitrekashvili@yahoo.com	895-33-23-63
6	Chkhaidze Mari	Female	Tbilisi, Georgia	Law	Bachelor	-			mari_chkhaidze@yahoo.com	899-56-88-56
7	Dekanosidze Nia	Female	Tbilisi, Georgia	Business Administration	Bachelor	-			n.dekanosidze@gmail.com	899-23-35-50

8	Endeladze Nino	Female	Tbilisi, Georgia	Law	Bachelor	1 years	Marketing manager	IPRS	n_endeladze@mail.ru	898-55- 09-00
9	Gogvadze Natia	Female	Tbilisi, Georgia	Law	Bachelor	-			natia_gogvadze@yahoo.com	898-73- 37-73
10	Iorashvili Nino	Female	Tbilisi, Georgia	Finance and Banking	Bachelor	-			ninoiorashvili@yahoo.com	858-13- 51-71
11	Isakadze Mari	Female	Tbilisi, Georgia	Law	Bachelor	-			m.isakadze@yahoo.com	855-38- 58-97
12	Jamburia Natalia	Female	Tbilisi, Georgia	Power English	Bachelor	3 years	Languages	Ministr y of Energy	natushki_86@yahoo.com	877-78- 00-86
13	Kiladze David	Male	Tbilisi, Georgia	Business Administration	Bachelor	2 years	Sales manager	IMEDI L	david_kiladze@yahoo.com	895-11- 87-89
14	Korinteli Ana	Female	Tbilisi, Georgia	Law	Bachelor	-			korinteliana@yahoo.com	899-97- 74-11
15	Mamniashvili Tinatini	Female	Tbilisi, Georgia	Law	Bachelor	-			t.mamniashvili@gmail.com	898-50- 05-14
16	Matua Nukri	Male	Tbilisi, Georgia	Law	Bachelor	-			nukrimatua@yahoo.com	877-59- 53-05
17	Moistsrapashvili	Female	Tbilisi,	Journalism	Bachelor	2 years	Projectman	Credit Compa	salome_moistsrapishvili@y	877-46-

	Salome		Georgia				assistant	ny	ahoo.com	46-00
										874-10-87-87;
18	Sherozia Giorgi	Male	Tbilisi, Georgia	Economic	Bachelor				sheroziag@mail.ru	871-10-87-87
19	Varshalomidze Natia	Female	Tbilisi, Georgia	Finance and Banking	Bachelor	1 years	Marketing manager	L.T.D. DIO	varshalomidze@yahoo.com	893-28-00-20
20	Verulashvili Bakar	Male	Tbilisi, Georgia	Business Administration	Bachelor	2 years	Credit expert	L.T.D. MFO Credo	bakarverulashvili@yahoo.com	895-95-37-82

Attachment 4: Seminar on: Preparation for a New Academic Year

Agenda and list of participants



The Energy Capacity Initiative Project

Preparation for a New Academic Year

Tbilisi, Georgia

March 5-6, 2010

In spring/fall 2010 four universities – ISET, Kutaisi State University, Georgian Technical University and Grigol Robakhidze University will recruit students for a new energy Master degree program and concentrations. The first stage is a national exams organized by the Ministry of Education and Science of Georgia.

The goal of the seminar which will be held at ECI Office is to bring together universities and energy companies to discuss: preparation of new energy programs, students' recruitment, students' tuition fees, student handbook, internships, job-placements, scholarships to qualified students, professional Certificate in the "Energy Management", and how to overcome obstacles.

ISET will share its experience.

AGENDA

Friday, March 5, 2010

3:00 PM-3:30 PM	Registration
3:30 PM-3:45 PM	Opening Remarks: <ul style="list-style-type: none">• Charles Burge, Chief of Party, ECI• John Hansen/Mariam Ubilava, USAID
3:45 PM-5:00 PM	University Presentations: <ol style="list-style-type: none">1. ISET2. Kutaisi State University
5:00 PM-5.15PM	Coffee Break
5:15 PM-6.00PM	Discussion: students' recruitment, students' fees, student handbook, internships, job-placement of the graduates, companies' needs and demands.

Saturday, March 6, 2010

10:00 AM-11:15 PM	University Presentations: <ol style="list-style-type: none">1. Georgian Technical University2. Grigol Robakhidze University
11:15 AM-11:30 PM	Coffee Break
11:30 AM-12:15 PM	Discussion: scholarship fund drive to continue providing scholarships to qualified students, professional Certificate in "Energy Management", companies needs and demands.

Participants:

Universities:

1. ISET

- Sopha Gujabidze – Public Relations Manager
- Mzia Mikeladze - Deputy Director

2. Kutaisi State University

- Omar Zivzivadze – Project Director, Masters program and Power Industry Technology and Management
- Lali Zivzivadze – Head of Electrotechnical Department
- Ketii Tskhakaia – Associated professor, Machine Building Department

3. Georgian Technical University

- Gia Arabidze – Project Director, Dean, Energy engineering and Telecommunication Department
- Temur Mikiashvili – Full professor, Heat Engineering and Heat Power Plant Department
- Maia Gudishvili – Associate professor, Program Manager
- Tengiz Jishkariani – Full Professor, Deputy Dean
- Shalva Nachkebia – Full professor, Head, Electric-Energy Department

4. Grigol Robakhidze University

- David Sikharulidze – Project Director, Associate professor, Department of Business and Administration
- Vasil Kikutadze – Project Manager, Associate Professor

Companies:

1. Ministry of Energy of Georgia

- Marita Arabidze- Chief Specialist of International Relation and investment Projects Department
- Nata Jamburia – Leading Specialist of the International Relation Department

2. Telasi

- Mamuka Kobalia – Technical Director

3. ESCO

- Besik Buturishvili – Head of Import-export Department
- Sandro Abashidze – Assistant to the Deputy General Director

4. GOGC

- Ketisandroskhvili – Assistant to the General Director

5. GSE

- Maia Pitskhelauri – Reporting & International Project Coordination, Executive Manager

6. GNERC

- Nugzar Beridze – Head of Energy Department

7. Energo-Pro Georgia

- Natia Janedashvili – Human Resources Development Specialist

USAID:

1. John Hansen – Director, Office of Energy and Environment
2. Mariam Ubilava - Project Management Specialist, Office of Energy and Environment

ECI:

1. Charles Burge – Chief of Party
2. Olga Mandrugina – Vice-President, AEAI
3. Tornike Gotsiridze – Director, AEAI Georgia Branch
4. Tsira Chikvaidze - Education Expert
5. Marina Imedashvili – Legislative and Regulatory Specialist
6. Sofio Barrett – Grants Administrator

Recommended Short Term Activities for CEE

1. Create a formal organizational structure.
2. Develop a Web-page and e-newsletter.
3. Publish teaching materials in both Georgian and English.
4. Subscribe to online data bases and energy journals.
5. Become a member of international associations such as the International Association for Energy Economics and the Association of Energy Engineers.
6. Present papers at regional conferences.
7. Establish the Energy Educators Association.
8. Organize a regional conference (Energy Forum) in Georgia in 2011.
9. Conduct two training workshops on **business plan** and **principles of energy management**.
10. Organize a scholarship fund drive.

11. Conduct a seminar on “**Lessons Learned**” by the four universities.
12. Organize a Job fair.
13. Sign a Memorandum of Understanding between the four universities to synchronize their programs and to develop a mechanism for credit transfer.

Attachment 5: Professional Training Programs Organized by ECI

	Title of Workshop/Seminar	Date(s)	Location	Speaker	Number of Participants	Representative Organizations
1	Project Management	February 24-26, 2009	Tbilisi, Georgia	Hameed Nezhad	59	KSU, Shota Rustaveli Batumi State University, Iakob Gogebashvili Telavi State University, GTU, Tbilisi University of Economic Relations, Gr.RU, Ilia Chavchavadze Tbilisi State University, Georgian University, International Black Sea University, TSU, ISET, ESM, GIPA, Institute of Electrical and Electronics Engineering at TSU, Caucasus University, Georgian American University, MOE, GNEWRC, GSE, Energo-Pro, ESCO
2	Skilss Gap Analsis and Higher Education Porgrams in the Energy Sector	March 6,2009	Tbilisi, Georgia	Hameed Nezhad Tornike Gotsiridze, Rusudan Nadiradze, Tsira Chikvaidze	38	KSU, Shota Rustaveli Batumi State University, Iakob Gogebashvili Telavi State University, GTU, International Black Sea University, Gr.RU, Ilia Chavchavadze Tbilisi State University, TSU, Tavartkiladze University of Economic Relations , Tbilisi University of Economic Relations and Law, Caucasus University, Georgian University, Free University of Tbilisi, ESM , Institute of Electrical and Electronics Engineering at TSU, MOE

3	Consultations : Grant-writing Seminars	March 27, April 3, April 10, 2009	Tbilisi, Georgia	Tsira Chikvaidze	18	TSU, KSU, Shota Rustaveli Batumi State University, GTU, Tbilisi University of Economic Relations, Gr.RU, ISET, Institute of Electrical and Electronics Engineering at TSU
4	Managerial Problem Solving & Decision Making Methods	April 29-30, 2009	Tbilisi, Georgia	Hameed Nezhad	27	MOE, GNEWRC, GSE, ESCO, Energo-Pro, Telasi, Georgian Oil and Gas Corporation
5	Managerial Problem Solving & Decision Making Methods	May5-6, 2009	Tbilisi, Georgia	Hameed Nezhad	30	KSU, GTU, ISET, Ilia Chavchavadze Tbilisi State University, International Black Sea University, Gr.RU , Tavartkiladze University of Economic Relations , Tbilisi University of Economic Relations and Law , Caucasus University, Georgian University, Free University of Tbilisi, ESM
6	World Energy Scenarios to 2050: Issues and Options	July 9,2009	Tbilisi, Georgia	Hameed Nezhad	97	MOE, GSE, ESCO, Telasi, Energo-Pro, Georgian Oil and Gas Corporation, IES, Caucasus University, Energy Academy, Tavartkiladze University of Economic Relations, GIPA, Black Sea International University, Gr.RU, MCC, Energy Efficiency Centre, GTU
7	WORLD ENERGY SCENARIOS TO 2050: ISSUES AND OPTIONS	July 13,2009	Kutaisi, Georgia	Hameed Nezhad	74	Energo-Pro, "Intelekti", Magazine "P.S", Institute of Art, GNEWRC, KSU

8	Pre- Departure Orientation Seminar: Introduction to American Education System	July 16,2009	Tbilisi, Georgia	Hameed Nezhad, Tsira Chikvaidze	14	GSE, Telasi, MOE, MOES, ESCO, GNEWRC, KSU, GTU, Gr.RU, ISET
9	Energy Economics, Technology and Policy	July 26-August 5, 2009	Madison,USA	EPD Division of the University of Wisconsin	14	GSE, Telasi, MOE, MOES, ESCO, GNEWRC, KSU, GTU, Gr.RU, ISET
10	Energy Economy, Technology and Policy workshop: The American Experience	2-Oct-09	Tbilisi, Georgia	Tsira Chikvaidze & the participants of UW workshop	22	MOE, GNEWRC, ESCO, MOES, TELASI, GSEKSU, GTU, Gr.RU, ISET
11	Strategic Planning Workshop	December 18-20, 2009	Gudauri, Georgia	Hameed Nezhad	15	GSE, Telasi, ESCO, GNEWRC, MOE,KSU, GTU, Gr.RU, ISET
12	Preparation for a New Academic Year	March 5-6, 2010	Tbilisi, Georgia	Universities and companies, Hameed Nezhad	20	KSU, GTU, ISET, Gr.RU, MOE, Telasi, GNEWRC, GSE, Energo-Pro, ESCO
13	Developing a Business Plan	May 15-16, 2010	Sighnaghi, Georgia	Hameed Nezhad	10	KSU, GTU, ISET, Gr.RU, MOE, GSE, Energo-Pro
Total number of Participants					438	

Abbreviations

ESCO	Electricity System Commercial Operator
ESM	European School of Management
GIPA	Georgian Institute of Public Affairs
GNEWRC	Georgian National Energy and Water Regulatory Commission
GSE	Georgian State Electrosystem

GTU	Georgian Technical University
IES	Institute for European Studies at Tbilisi State University
ISET	International School of Economics at Tbilisi State University
KSU	Akaki Tsereteli Kutaisi State University
MOE	Ministry of Energy of Georgia
MOES	Ministry of Education and Sciences of Georgia
Gr.RU	Grigol Robakidze University
Telasi	Electricity Distribution Company of Tbilisi
TSU	Ivane Javakhishvili Tbilisi State University
UW	University of Wisconsin

Appendix 6: Workshop on Developing a Business Plan - Agenda



The Energy Capacity Initiative Project

A Workshop on Developing a Business Plan

May 15-16, 2010

Carpet House Hotel

Sighnaghi, Georgia

The primary objective of this workshop is to train the participants in developing a business plan and to discuss the business-development issues for energy services in Georgia.

AGENDA

SATURDAY, MAY 15

11:00AM-12:00 PM

Review of CEE's Strategic Plan

12:00-12:15 PM

Coffee Break

12:15-1:30 PM

Business Plan: Basic Concepts

The Major Elements of Your Business Plan

Business Plan Components and their descriptions

- 1. Cover Page**
- 2. Executive Summary**
- 3. The Company**
- 4. Market Analysis & Strategy**
- 5. Products and/or Services**

1:30-2:30 PM

Lunch Break

2:30-3:30 PM

Breakout Sessions:

Brainstorming on the Consortium's Business Plan (Market Analysis & Operation Plan).

The participants will be divided into two groups. Each group will discuss and report on possible services provided by CEE and target groups as well as the process of marketing CEE services.

3:30-4:00 PM

Team Presentations

4:00-4:15 PM

Coffee Break

4:15- 5:00 PM

- 6. Production/Operation Plan**
- 7. Management & Organization**

5:00-5:30 PM

Breakout Sessions:

Brainstorming on the Consortium's business plan (Management & Organization Plan).

The participants will be divided into two groups. Each group will discuss and report on Management & Organization Plan of CEE.

5:30-6:00 PM

Team Presentations

6:00- 7:00 PM

Free Time

7:00 PM

Dinner

SUNDAY, MAY 16

10:00-11:00 AM

8. Financial Plan

9. Risk Assessment

10. Implementation Plan

11:00-11:15 AM

Coffee Break

11:15-12:30 PM

Group Discussions on Critical Issues in developing a Business Plan, and financing energy services in Georgia.

- *Operational Issues*
- *Financial Issues*
- *Technical Issues*
- *Legal Issues*
- *Other Issues*

12:30-1:30 PM

Lunch Break

1:30-2:30 PM

Brainstorming Session on *Professional Certificate in Energy Management & Policy*

- *Target Groups*
- *Needs Assessment*
- *Certificate Design*
- *Marketing Plan*
- *Implementation Plan*

2:30-2:45 PM

Coffee Break

2:45-3:00 PM

The Next Step

3:30 PM

Departure to Tbilisi

Business Planning Workshop

List of Participants

	Ministry of Energy of Georgia		ECI
1	Nata Jamburia	12	Hameed Nezhad
	Energopro	13	Tsira Chikvaidze
2	Natia Janezashvili	14	Marina Imedashvili
	GSE	15	Sophie Barrett
3	Rusudan Tushuri	16	Nino Gabunia
	ISSET		USAID
4	Sopha Gujabidze	17	Mariam Ubilava
	Grigol Robakidze University		
5	David Sikharulidze		
6	Vasil Kikutadze		
	GTU		
7	Gia Arabidze		
8	Maka Gudiashvili		
	ATSU		
10	Omar Zivzivadze		
11	Murman Keburia		

Appendix 7: Workshop on Developing a Business Plan - Outcomes



The Energy Capacity Initiative Project

Developing a Business Plan

Signaghi, Georgia

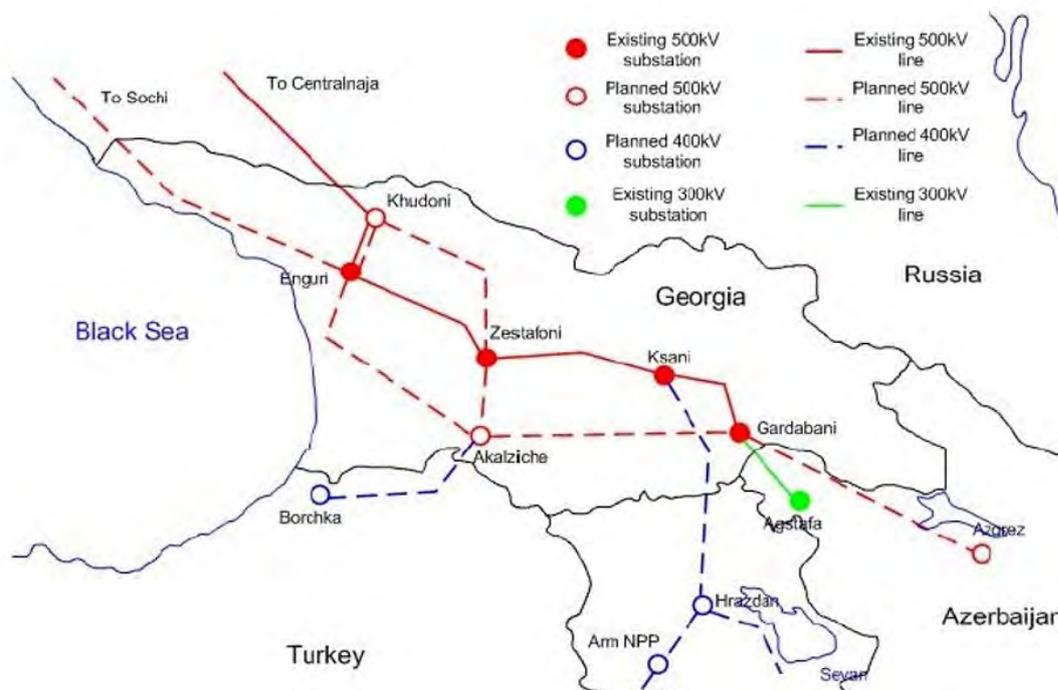
May 15-16, 2010

Breakout Sessions Report

MARKET ANALYSIS

MA1. Describe the characteristics of energy industry in the region.

Georgia's transmission system regional interconnection



Regional Energy industry characteristics

- Generation: Hydro, Thermal, nuclear:
- Hydro: Enguri cascade, Lajanuri, Vartsikhe, Khrami, Rioni;

- Thermal: Gardabani, Razdani, Alibairlam;
- Nuclear: Erovani nuclear power station in Armenia.
- Transmission: 500 Kv. Caucasus, Imereti, Kartli 1-2. 220 Kv, network and system connection.
- Alaverdi 330 – connection with Azerbaijan,
- There are construction prospects of new transmission lines with Azerbaijan and Armenia.
- Energy Consumption in Georgia (equivalent of 1000 T oil)
- Transmission losses: 24%
- Non energy consumption 6 %
- Service 3 %
- Agriculture et alt 5 %
- Direct customer service 32 %
- Transport 18 %
- Industrial sector 12 %

Base requirement forecast:

	Max. capacity	Min. capacity	Generation
	(mgwt)	(mgwt)	(gvt h)
2007	1591	368	8167
2008	1640	379	8419
2009	1690	390	8675
2010	1741	402	8937
2011	1795	415	9214
2012	1850	427	9497
2013	1906	440	9784
2014	1965	454	10087
2015	2025	468	10395
2016	2087	482	10713
2017	2151	497	11042
2018	2209	510	11340
2019	2268	524	11642

2020	2330	538	11961
2021	2392	553	12279

MA2. Define the market for CEE services, its prospects, the customers, and competitors.

We shift on to 2 segments:

- I segment: Master degree students
- II segment – Training of existing personnel
- III training of Ph D students

Competitors

Our competitors are:

- CEE member- higher education institutes with appropriate profiles
- Professional teaching and training centers
- Training groups

MA3. What is the growth potential of the market for CEE services?

- Economic growth
- Implementation of perspective projects (Khudoni, Farvani cascade, Mtkvari cascades, transmission line connecting to Turkey and etc.)
- Intensive policy on renewable energy recourses
- Energy efficiency programs

MA4. What factors will make CEE succeed?

CEE Success Factors

- Cooperation between scientists and practitioners;
- USAID assistance in improving Georgia's energy sector capacity
- Motivation of mutually beneficial cooperation
- Energy companies' interest and involvement in CEE operations
- Policy support

MA5. What are major competitive strengths of CEE?

CEE Key Advantages

- Availability of collective expertise
- Traditional and applied research
- Material-technical base;

- Theoretical knowledge as well as practical experience of CEE members
- Provision of full package of service
- Provision of theoretical and practical knowledge
- High perspective of employment
- Participants' reputation

MA6. How CEE will achieve sustainable competitive advantage in Georgia?

- Permanent improvement of existing teaching programs;
- Provision of innovative service;
- International accreditation;
- Improvement of international cooperation (students exchange, distance learning, international internship);
- Systematic improvement of trainers' qualification.

MA7. What are Immediate Opportunities in priority order?

- Study of labor market and demand assessment
- Training of trainers
- Preparation of certificate programs
- Joint research projects
- Occasional working and round table meetings
- Preparation of regional conference
-

Target Audience:

- Energy generation companies;
- Energy distribution companies;
- Energy transmission companies;
- Energy companies (construction- repair - rehabilitation companies);
- Ministry of Energy;
- Energy sector new players;
- Higher education institute students and graduate students
- Individuals and legal bodies

Needs assessment

- Work group creation
- Development and distribution of questionnaires
- Identification and cooperation with focus groups
- Research analysis
- Presentation of research results to CEE members with purpose of development of recommendations

Certificate design

- Development of recommendations and preparation of combined training program on its basis.
- Curriculum, syllabuses;
- Defining course duration, frequency and intensity
- Identification of trainers (local and international)
- Identification of locations;
- Identification of authorized responsible organization (ministry, international organizations)

Marketing plan

- Certificate design stimulation; Web page
- Three levels of market coverage
- Georgian market
- Azerbaijan, Armenia
- Turkey
- Implementation plan
- Distribution of responsibilities
- Communication with target audience – 1-3 months
- Needs assessment – 3-5 months
- Certificate design – 2 months
- Coverage of Georgian market – 1 year
- Coverage of Armenian and Azerbaijan market
- Coverage of Turkish market – 2-3 years
- Management and organization plan
- Competent
- Experienced in CEE management issues
- Group should include a representative from each CEE member body

MA8. What is the market niche for CEE and why?

- Management and organization plan
- Competent
- Experienced in CEE management issues
- Group should include a representative from each CEE member body

MA9. What are the barriers to entry in the energy service market?

OPERATION PLAN

OP1. Political-What are local, national and regional political issues that will impact CEE operation?

- Change of country's strategic plans
- Change of key players
- Legislative changes
- (Harmonization of legislation)
Strategic players' interest change in regional market
- Regional conflicts
- Georgia's geopolitical location

OP2. Economic- What are local, national and regional economic factors that will affect CEE operation?

- Fiscal and monetary policy
- Change of tax policy
- Current and potential large scale project development prospects
- Development of privatization process
- Support of local small energy engineering development
- Efficient use of local energy resources
- Infrastructure development in this region.

OP3. Social-What are the demographic, social and cultural values that will affect CEE operation?

- Rise of public awareness in direction of energy efficiency
- Awareness rising in environment issues
- Urbanization

OP4. Technological-How changes in technology will affect CEE operation?

- Sharing international practice in direction of renewable energy resources
- Establishing and developing innovative energy technologies
- Software of energy consumption process
- Developing environmentally friendly construction practices

OP5. What is the estimated funding requirement for CEE operation and what are potential sources of funding?

It will be explained in the business plan.

OP6. Risk Assessment--What are the main risks associated with CEE operation and what are your risk-response strategies.

- Shortage of qualified personnel
- Legal barriers
- Difficulties in finding funding sources

- Governmental instability
- Poor public awareness in energy issues

Critical Issues in Developing a Business Plan, and Financing Energy Services in Georgia

Operational Issues

- Development of business plan working group
- Software
- Defining terms
- Defining necessary resources
- Preliminary discussion and approval of the business plan
- Plan execution

Financial Issues

- Financial aspects of the business plan development
- Development of financial documentation
- Defining and locating initial funding sources for CEE activities
- Sustainability plan development

Technical Issues

- Logistical aspects of the working group
- Preparation of registration documentation
- Arranging work meetings and addressing technical issues

Legal Issues

- Charter development
- Developing legal status of CEE
- Registration

Other Issues

CEE Operation Plan

- Working group development
- Business plan development
- Structure definition
- Management group development
- Developing CEE regulation
- Developing CEE charter
- Defining locations (office for executing CEE activities)
- Registration of CEE
- Development of operation plan according to organization's mission and vision:
 - *Short-term*
 - *Middle term*
 - *Long-term*
- Solving financial issues
- Budget development
- Search of local source of finance
- PR Policy definition
- Increase of public awareness
- Preparation of brochure
- Cooperation with media
- Office and Laboratory

MANAGEMENT & ORGANIZATION PLAN

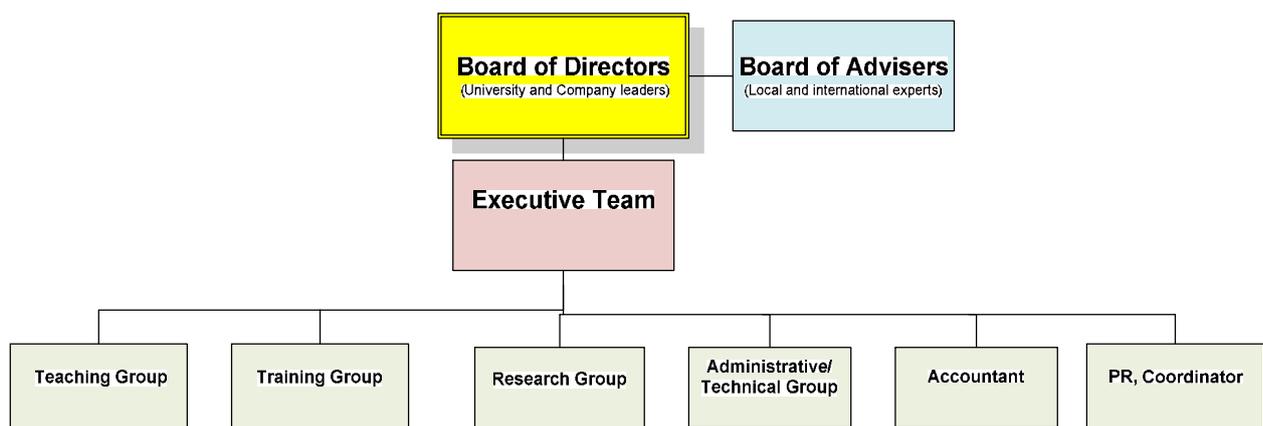
MOP1. What should be the composition of The Management Team?

- Board of directors
- Board of advisors
- Executive team

MOP2. Who should lead CEE? What should be his/her attributes?

- Board of directors
- Board of advisors
- Executive team

MOP3. Create an organizational chart showing the management hierarchy and who is responsible for key functions.



Responsibilities of CEE Management Team

Board of Directors:

CEE member representatives with policy development authority.

- defining CEE policies and activities
- Presents recommendations to the executive team
- Will meet no less than 6 times per year;
- Chairman is the leader of CEE Board of Directors;
- Will be elected on rotational basis;

Executive Team

Chairman of executive team; (is selected for 2-3 years by supervisory board on basis of competition, will execute supervisory board policy, will assign positions according to hierarchy below)

- Deputy in research field
- Deputy in teaching process field
- Office administrator/ PR expert
- Accountant
- Administrative-technical personnel (1-2)
- PR Coordinator

MOP4. What are the key factors for long-term sustainability of CEE?

- Charter formation
- Solving Legal issues
- Administrative issues (Office, administration staff and etc.)
- Short term plan development

Brainstorming Session on *Professional Certificate in Energy Management & Policy*

Target Groups

- Governmental sector (Ministry of Energy, ESCO and etc.)
- Private Sector (Energy-pro Georgia, Telasi and etc.)
- Professional institutes and graduate students
- Expansion in Caucasus region

Needs Assessment

- Development of questionnaire
- Practicing various research methods
- Study of needs' assessment
- Result analysis

Certificate Design

- Obtaining license
- Technical aspects of the certificate
- Insuring validity throughout the region
- Identification of signatories

Marketing Plan

- Development of appropriate market complex: 4 Ps

Implementation Plan

- Development of certificate program
- Providing teaching material
- Selecting and training of trainers
- Organizing training process
- Implementing pilot projects
- Result analyses and correction

Appendix 8: Proposed CEE Activities

Task 1. Develop Business Plan for CEE

Person in Charge: David Sikharulidze-Robakidze University

Activities:

- (a) Form a team of no more than 3 people to write the business plan.
Due Date: May 24
- (b) Submit the first draft of CEE business plan for internal review.
Due Date: June 30, 2010
- (c) Submit the final draft.
Due Date: July 19, 2010

Task 2. Organize a Steering Committee for CEE

Activities

- (a) Write a letter to the members of the consortium to nominate a representative to the committee, deliver it to the member institutions and have them nominate someone from their institution.

Person in charge: Tsira & Hameed

Due Date: May 20

- (b) Organize the first meeting of the Steering Committee.

Persons in charge: Tornike, Tsira, Marina

Due Date: May 28

- (c). Formation of CEE Organizational Structure, including the charter, registration, etc.

Persons in charge: Tornike, Tsira, Marina

Due Date: June14

Task 3. Needs Assessment Survey for Professional Certificate in Energy Management & Policy

Activities:

- (a) Needs Assessment Survey Design

Persons in charge: Tsira & Marina

Due Date: May 30

- (b) Pilot Survey of the Energy Sector

Person in charge: Tsira, Marina, Tornike, and University Experts

Due Date: July 15

Task 4. Develop CEE Web Site

Activities:

- (a) Identify the Web developer

(b) Identify the Elements of the Web

(C) Draft Web Design

Person in charge: Robakidze, IT Expert based on competitive bidding

Due Date: July 30

Proposed Members of Steering Committee

1. The four Grant Receiving Universities
2. ECI
3. GNREC
4. Telasi
5. Energo Pro
6. GSE
7. ESCO

Appendix 9: First Steering Committee Meeting Agenda and List of Participants



Agenda Items for Discussion

Friday, May 28

11:00 AM-1:00 PM

ECI Office

1. To form CEE Organizational Structure, including its charter, registration, etc.
2. To develop Business Plan for CEE.
3. To develop CEE Web Site.
4. To develop Professional Certificate in Energy Management & Policy.
5. To identify sources of funding for CEE activities.
6. To form the permanent structure of CEE, including the Board of Director and Board of Advisors, and the executive team.

Member Organizations:

- 1. Georgian Technical University**
Levan Klimiashvili
- 2. ISET**
Mzia Mikeladze
- 3. Grigol Robakhidze University**
Murtaz Kvirkvaia
- 4. Akaki Tsereteli State University**
Omar Zivzivadze (Murman Keburia)
- 5. GSE**
Maia Pitskhelauri
- 6. GNERC**
Irma Kavtaradze (Dimitri Namgaladze)
- 7. Energo-Pro**
Vakhtang Khasia
- 8. ESCO**
Zaza Dvalishvili
- 9. Telasi**
Mamuka Kobalia (Paata Tsintsadze)

Appendix 10: US Scholarhsip Recipients Transcripts - II semester

2. Marina Arabidze



THE UNIVERSITY
WISCONSIN
MADISON

Office of the Registrar
333 East Campus Mall
Suite 10101
Madison, WI, 53715-1384

GRADE REPORT

Term: Spring 2009-2010 **Run Date:** Jun 01, 2010

Name: Marina Arabidze

Career: Graduate

Program: Environment & Resources
Land Resources

Year: Graduate

Dept. Name	Course	Session	Descriptive Title	Credits	Grade	Grade Points
A A E	671	Regular	Energy Economics	3	A	12.000
CIV ENGR	423	Regular	Air Pollutn Measurmnt&Critri	3	B	9.000
INTER-HE	793	Regular	Research Methods	3	A	12.000

Term	Advanced Standing Credit	Earned Credit	GPA Credits	GPA Grade Points	GPA
Term	0	9	9	33.0	3.667
Cumulative	0	20	18	67.5	3.750

End of Term Action: None

Plan : Environment & Resources MS
Environment & Resources MS

Grading System:

Grades In GPA:	Grades NOT in GPA	Symbols:
A 4.000	I or IN Incomplete	> No Degree Credit
AB 3.500	P Progress	# Pass/Fail Program
B 3.000	S Satisfactory	H Course Taken for Honors Credit
BC 2.500	U Unsatisfactory	GPA Grade Point Average
C 2.000	M Missing	
D 1.000	Q Credit	
F 0.000	NR No Report	
	NW No Work	
	IF Incomplete (Med. Only)	
	R Registered	
	CR Credit	
	N No Credit	
	DR Dropped	

3. Nana Gurgenidze

The screenshot shows a web browser window displaying the NYIT Connect portal. The page is titled "Grades" and features a blue header with the NYIT logo and "NEW YORK INSTITUTE OF TECHNOLOGY". A yellow navigation bar contains links for "Contact Us", "FAQs", "Help", "Student Menu", "Main Menu", and "Log Out". The main content area is a white box with a green header that says "Student" and "Welcome Nana!". Below this, the "Grades" section includes a disclaimer: "DISCLAIMER - This is an unofficial grade report. Print a copy and retain with your academic records. Contact the department for missing grades." The "Advisor" section shows "None". The "Term" section shows a table with one entry: "Spring 2010" with a "Term GPA" of "3.53". The "Course Section" section shows a table with three entries: "ACCT-101-M01" (Accounting I, A, 3.00), "ENVT-601-M01" (Intro Envir Tech, B+, 3.00), and "ENGY-690-M01" (Eg Pol/Eco/Tech, B+, 3.00). An "OK" button is located at the bottom of the main content area. The browser's address bar shows the URL "https://nyitconnect.nyit.edu/webadvisor/webadvisor?TOKENIDX=12345&SS=2&APP=ST&CONSTITUENCY=WBST".

NYIT Connect

NYIT NEW YORK INSTITUTE OF TECHNOLOGY

Contact Us | FAQs | Help | Student Menu | Main Menu | Log Out

Student Welcome Nana!

Grades

DISCLAIMER - This is an unofficial grade report. Print a copy and retain with your academic records. Contact the department for missing grades.

Advisor

None

Term **Term GPA**

Spring 2010 3.53

Course Section **Title** **Final Grd** **Course Credits**

ACCT-101-M01	Accounting I	A	3.00
ENVT-601-M01	Intro Envir Tech	B+	3.00
ENGY-690-M01	Eg Pol/Eco/Tech	B+	3.00

OK

Contact Us | FAQs | Help | Student Menu | Main Menu | Log Out

100%