

COMPANY

CREDENTIAL & EXPERIENCE



Energy
Efficiency

Capability
Training

Performance
Measurement



Renewable
Energy

Energy
Management

CDM & Carbon
Management



Green
Building



BRIGHT
management consulting
company limited

Experience of Bright Management Consulting

Bright Management Consulting have worked in the energy sector in Thailand and possess a comprehensive knowledge of the energy scene in the country. This has been gained through energy audits, studies, planning, design, commissioning of energy systems and project evaluations.

The firm has an intimate knowledge of the Thailand energy situation, energy policy, ENCON program's objectives and Thai energy use as we have been working extensively in Thailand for the last 10 years for DEDE, EPPO, EGAT and commercial and industrial facilities.

The firm has also provided consulting services for commercial building on commissioning of building energy systems, developing and implementation of Measurement & Verification (M&V) plan.

Bright Management Consulting has experiences on several types of projects as following:

Planning, Design and Commissioning of Building Energy Systems

Bright Management Consulting has commissioning team which has experienced on planning, design and commissioning of building energy systems for following projects;

- Completed commissioning services as Commissioning Authority (CxA) to Kasikorn Bank Public Company Limited – ChaengWattana Building to fulfill the requirement of the LEED Certified level of sustainability under the US Green Building Council's Leadership in Energy and Environmental Design (LEED) Green Building Rating System as followings:
 - o Energy & Atmosphere – Prerequisite 1 : Fundamental Commissioning of Building Energy Systems,
 - o Energy & Atmosphere Credit 3 : Enhanced Commissioning
 - o Energy & Atmosphere Credit 5 : Measurement & Verification
 Currently, project is under application preparation stage
- Completed commissioning services for Energy Technologies Display Centre, Department of Alternative Energy Development and Efficiency, Ministry of Energy
- Completed commissioning services for Central Sterile Supply Department (CSSD), Siriraj Hospital
- Completed commissioning services for Siam Center Building (first renovation)
- Completed commissioning services for Waterford Diamond Tower Building
- Completed commissioning services for Muang Thai Phatra Complex (2 Office Buildings, a shopping plaza and a condominium building)
- Completed commissioning services for Baan Somthavin Building
- Completed chilled water balancing services for Kasikorn Bank Public Company Limited – Rajburana Building
- Completed commissioning services for Queen Sirikit National Convention Centre

Technical Assistance

- Completed a textile industry sector study for NEPO.
- Completed a load management study for NEPO for the cassava industry.
- Completed energy auditing of government buildings for DEDP.
- Energy Auditing of Designated Buildings under the Energy Conservation Program
- Energy Auditing of Designated Factories under the Energy Conservation Program
- Provided expert support to GTZ for the Detailed Energy Audits to Identify Suitable Demonstration Projects for Energy Efficiency in Industry and Commerce funded by the German Government.
- Provided expert support to Danced Project for Standard Measures of Energy Efficiency Technology jointly funded by the Denmark Government and DEDP.
- Provided expert support to NEOS Corporation for the Building Simulation Program of EGAT Demand Side Management Office, with funding from the Global Environment Fund, administered by the World Bank.
- Completed the evaluation of the Government Building Program in partnership with Ramboll from Denmark for NEPO.
- Completed the Industrial Energy Auditing Capability Building for EGAT funded by the Global Environmental Fund and administered by the World Bank.
- Completed energy management training, energy auditing site survey and analysis for the Cleaner Technology Unit of the Department of Industrial Work of Thailand.
- Completed a planning implementation project for NEPO for the industrial liaison program.
- Completed the planning activities of the Training Master Plan for DEDP for the compulsory program.
- Conducted training workshops for DEDP in 'Train The Trainer' and technical and financial evaluation.
- Conducted training workshop for NEPO in basic energy management training.
- Completed the development of training materials for PRE's from designated buildings and factories.
- Completed the development of functional specification for the Energy Demonstration Centre at Techno Thanee for DEDP.
- Completed a Thailand power sector study for Austenergy.
- Completed a market transformation project for DEDP/GTZ in advanced energy management training.
- Completed cost comparison worksheets on induction curing and induction heating using electric technology for Electric Power Research Institute and Global Energy Partner form USA.
- Completed the detailed design of display bays of fifty-four energy efficient technologies for the Energy Demonstration Centre at Techno Thanee for the Department of Energy Development and Promotion.
- Completed the Evaluation of DSM Program Implemented by EGAT DSMO funded by the Global Environmental Fund and administered by the World Bank. The project was conducted in association with Agra Monenco and BC Hydro.

- Completed the Concept Development of the Total Motor Management System (TMMS) and the Detail Design of the Functional Specification for the TMMS Software for the Copper Development Centre of South East Asia.
- Completed the National Clean Development Mechanism (CDM) Strategy Study for Thailand for the Office of Environment Policy and Planning (OEPP) and administered by the World Bank.
- Completed the Successful Energy Conservation Technologies Case Study for Department of Alternative Energy Development and Efficiency (DEDE)
- Completed the development of the energy simulation software for hotel and hospital for Department of Alternative Energy Development and Efficiency (DEDE)
- Completed the study of CFC Phase out for chiller for Department of Industrial Work (DIW)
- Completed the EC-ASEAN Energy Facility (EAEF) projects as follows :
 - Adapting Institutional Frameworks in ASEAN for the Establishment of the ASEAN Carbon Equity Fund
 - Feasibility Study for the Establishment of a Biodiesel Production Plant in Thailand
 - Development of the Energy Management Simulation Test for the Practical Training of Energy Managers in ASEAN
 - Development of the Theoretical Training Curricula for Energy Managers and Training Providers in ASEAN
 - Feasibility Study for the Establishment of the ASEAN Energy Managers Accreditation Scheme (AEMAS)
- Completed the project to improve the energy efficiency knowledge center for Department of Alternative Energy Development and Efficiency (DEDE)
- Completed the simulation software for Energy Conservation Practical Training Center (Mini Plant) for Department of Alternative Energy Development and Efficiency (DEDE)
- Completed the project for Department of Alternative Energy Development and Efficiency (DEDE) to promote the energy efficiency technology of Energy Conservation Building to the public
- Currently working on the project for Department of Alternative Energy Development and Efficiency (DEDE) to conduct the research on using hydrogen in commercial vehicle
- Currently working on the project for Department of Industrial Work (DIW) on the Thailand GHG Inventory in major industrial sectors project

ENERGY MANAGEMENT TRAINING EXPERIENCE IN SOUTH EAST ASIA

Bright Management Consulting has established as a specialist regional energy trainer in South East Asia with extensive training experience on industry and commercial energy management including assignments in the Philippines, Malaysia, Thailand, People Republic of China, Hong Kong and Vietnam. Listed below is some of our training experience in the region:

- Completed conducting Specialised System Training in Energy Management for Hospital (Executive Seminar-350 participants and Hospital Staff Training-125 participants) for Training Division under The Department of Alternative Energy Development and Efficiency (DEDE).
- Completed developing The Self Learning CD ROM Management Training in Hotels and Hospitals for Training Division under The Department of Alternative Energy Development and Efficiency (DEDE).
- Completed the Training of 600 x Person Responsible for Energy (PRE) under the Energy Conservation Compulsory Program promoted by the Royal Thai Government.
- Conducted "Energy Management And Energy Efficiency Training Workshop" for UN-ESCAP in Ho Chi Minh City, Vietnam.
- Conducted an Energy Management Workshop in the Philippines for UN-ESMAP.
- Conducted a training seminar sponsored by the Ministry of Energy, Tenaga Nasional Berhad and University of Malaysia on "Improving Energy Use To Increase Profits" in Malaysia. The Minister of Energy officiated at the opening of the seminar.
- Conducted an "Energy Efficiency In Buildings" training course for the Hong Kong Government (The Electrical And Mechanical Department).
- Conducted "Marketing Energy Efficiency Services In China" training workshop for UN-ESCAP in Beijing.
- Conducted energy management work for private firms in Malaysia.
- Conducted a detailed review for the Australian Government to assist the Philippines in DSM and Energy Conservation, focusing on the feasibility of establishing an Energy Management Training Centre.
- Conducted energy management training courses for buildings and factories in Malaysia.
- Conducted energy management training courses for buildings and factories in the Philippines.
- Completed the capability building of Cleaner Technology Unit staff of the Department of Industrial Works with Carlbros from Denmark in the Danish funded project. A total of 400 personnel were trained.
- Completed the curriculum development of the Specialized System Training in Energy Management for the Hotel and Hospital Sectors for the Department of Energy Development and Promotion.
- Completed the Concept Development of Energy Manager Accreditation Training Course for Malaysia.

- Completed the development of the theoretical training curricula for Energy Managers and training providers in ASEAN
- Currently conduct the training of 600 Person Responsible for Energy (PREs) under the Energy Conservation Compulsory Program of the Royal Thai Government

ESCO PROJECTS

Bright Management Consulting has provided exclusive energy engineering services for several ESCO Projects. Number of the investment grade audit reports have already been provided for:

- ESCO pilot project of EGAT's DSM office administered by the World Bank
 - Ajinomoto Betagro Frozen Foods (Thailand) Co., Ltd.
 - B. Foods Product International Co., Ltd.
 - Betagro Agro-Group Public Co., Ltd. – Lopburi
 - Betagro Agro-Group Public Co., Ltd. – Prapadaeng
 - Better Foods Co., Ltd.
- Future Park Rangsit (2nd Largest Shopping Complex in Thailand) - Working in collaboration with ABB Energy Services
- Novotel Hotel – Siam Square – Working in collaboration with Trane Thailand

Energy Audit

Bright Management Consulting, an auditor for both commercial and industrial sectors, has conducted energy auditing under the Energy Conservation program of the Royal Thai Government. The complete program includes preliminary and detailed audits, Energy Target & Plan, Energy Management System and implementation.

Bright Management Consulting has conducted:

- 235 x factories
- 67 x commercial buildings
- 24 x factories under the energy auditing capabilities building project funded by GEF and administered by the World Bank
- 30 x government buildings under the evaluation of the government-building program
- 25 x commercial building under the building simulation project

Listed below are our energy audit projects in Thailand:

BMC EXPERIENCE in CDM

Current CDM projects under development (as of January 2008)

Successful and On-going Projects

Type	Country	Estimated CERs per year	CDM stage
Biogas in CPO mill	Thailand	15,000	PIN
	Malaysia	95,462	PDD
	Malaysia	41,839	PDD
	Malaysia	23,000	PIN
Biogas in tapioca starch factory	Thailand	40,000	PIN
Biomass for fuel switching	Thailand	23,321	PDD*
Biomass for cogeneration using EFB	Thailand	30-50,000	PIN
	Malaysia	30-45,000	PIN
Biodiesel	Indonesia	140,000	PIN

Remarks : * Receipt of LOA from DNA and under DOE validation

Currently Offered Project

Type	Country	Scope of Services
Biogas in CPO mill	Thailand	PIN, PDD
Carbon Footprint Management	Thailand	Methodology Setup

Special projects**Title**

Design of the ASEAN Carbon Equity Fund (ACEF)

Location

ASEAN

Results

BMC has developed a complete business model for an investment fund that will provide equity and manage CER portfolio for CDM projects implemented in the ASEAN region:

1. Detailed technical scope of the fund;
2. Pre-feasibility studies for CDM projects;
3. Training workshops;
4. Participation in Carbon Expo, Germany, May 2006;
5. Development of ACEF business and operating model;
6. Development of ACEF financial model;
7. Identification of investors.

Role of BMC**Lead Manager****Budget**

- 199,553 EURO

Donor / Client

Name	:	EC-ASEAN Energy Facility
Contract No.	:	145-2005
Amount contributed	:	199,553 EURO

Title

Feasibility study for the establishment of a biodiesel production plant in Thailand

Location

Thailand

Results

This project resulted in the complete study for the establishment of a biodiesel production plant in Thailand. It includes:

1. Survey market for biodiesel;
2. Identify all feedstock options;
3. Select the most appropriate location for the plant;
4. Select the best technology; study tour in Germany and Austria
5. Determine the exact biodiesel production cost;
6. Identify all distribution channels for biodiesel and its by-products;
7. Make a detailed economic and financial analysis including investment risk analysis;
8. Study the CDM potential and secure CER purchase agreement;
9. Identify potential financiers and submit the feasibility study report to financing institutions;
10. Disseminate the outcomes of the action to relevant stakeholders in Thailand and in ASEAN member countries through the organization of a regional conference

Role of BMC**Lead Manager**

BMC was responsible for the identification of appropriate biodiesel production plant in Thailand.

Budget

- 293,023.78 EURO

Donor / Client

Name	:	EC-ASEAN Energy Facility
Contract No.	:	144-2005
Amount contributed	:	293,023.78 EURO

Title

National Clean Development Mechanism Strategy Study for the Kingdom of Thailand, Administered by the World Bank

Location

Thailand

Results

Production of Thailand's national CDM strategic study, including identification of more than 60 options.

Role of BMC**Partner, sub-contracted by ERM Australia**

BMC was the local energy specialist responsible for the identification of CDM options for Thailand.

Budget

- 5,000,000 Baht (amount of sub-contract from ERM Australia)

Donor / Client

Name	:	World Bank (GEF)
Address	:	1818 H Street, N.W. Washington, DC 20433 U.S.A. Tel: (202) 473-1000 Fax: (202) 477-6391
Amount contributed	:	5,000,000 Baht (amount of sub-contract)

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
	Minebea Group of Companies (Thailand)			
1.	Minebea Thai Limited (Rojana)	✓	✓	1998 , 2004
2.	Minebea Thai Limited (Ayudaya)	✓	✓	1998 , 2003
3.	Pelmec Thai Co.,Ltd. (Bang Pa-In)	✓	✓	1998 , 2000
	Thai Glass Industries Group of Companies			
4.	Thai Glass Industries Public Co.,Ltd.(Rajburana)	✓	✓	1998 , 2003
5.	Thai Glass Industries Public Co.,Ltd.(Bangplee)	✓		1998
	Seagate Technology Group of Companies (Thailand)			
6.	Seagate Technology (Thailand) Ltd. (Chachoengsoa)	✓	✓	1998 , 1999
7.	Seagate Technology (Thailand) Ltd. (Rangsit)	✓		1999
8.	Seagate Technology (Thailand) Ltd.(Chockchai)	✓		1998
9.	Seagate Technology (Thailand) Ltd. (Nakornratchasima)	✓	✓	1998 , 2000
10.	Seagate Technology (Thailand) Ltd. (Teparuk)	✓	✓	1998 , 1999
	Betagro Agro-Group			
11.	Betagro Agro-Group Public Co.,Ltd. (Lopburi)	✓	✓	1998 , 1999
12.	Betagro Agro-Group Public Co.,Ltd. (Prapadeang)	✓	✓	1998 , 1999
13.	B. Food Product International Co.,Ltd.	✓	✓	1998 , 1999
14.	Better Food Co.,Ltd.	✓	✓	1998 , 1999
15.	Ajinomoto Betagro Frozen Foods (Thailand) Co.,Ltd.	✓	✓	1998 , 1999
16.	Sahaviriya Steel Industries Public Co., Ltd.	✓	✓	1998 , 2000
17.	Phillip Semiconductors (Thailand) Co.,Ltd.	✓	✓	1998 , 2000
18.	Kao Industrial (Thailand) Co.,Ltd.	✓		1998
19.	Toshiba Consumer Products (Thailand) Co.,Ltd.	✓		1998
20.	Tuntex Petrochemicals (Thailand) Public Co.,Ltd.	✓	✓	1998 , 2004
21.	Siam Steel Syndicate Co.,Ltd.	✓	✓	1998 , 2000
22.	Toyota Motor (Thailand) Co.,Ltd.	✓		1998
23.	Thai Tin Plate Manufacturing Co.,Ltd.	✓	✓	1998 , 2002

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
24.	K. Cotton & Gauze Co.,Ltd.	✓	✓	1998 , 2000
25.	Fujikura (Thailand) Co.,Ltd.	✓	✓	1998 , 2003
26.	Delta Electronics (Thailand) Public Co.,Ltd. (Plant 1)	✓	✓	1998
27.	Furukawa Metal (Thailand) Public Co.,Ltd.	✓	✓	1998 , 2002
28.	Padeang Industry Public Co.,Ltd.	✓	✓	1999 , 2000
29.	Thai Union Frozen Products Co.,Ltd.	✓	✓	1999 , 2002
30.	Bangkok Can Manufacturing Co.,Ltd.	✓		1999
31.	Thai Pure Drink Co.,Ltd.	✓		1999
32.	DDK (Thailand) Co.,Ltd.	✓		1999
33.	Aeroflex Co.,Ltd.	✓		1999
34.	Thai Olefins Co.,Ltd.	✓	✓	1999 , 2000
35.	Oriental Electronics Device Co.,Ltd.	✓	✓	1999 , 2005
36.	Philips Electronics (Thailand) Co.,Ltd.	✓	✓	1999 , 2002
37.	Unilever Thai Holdings Co.,Ltd.	✓		1999
38.	Thai Hitachi Enamel Wire Co.,Ltd.	✓	✓	1999 , 2002
39.	Thai Fertilizer Co.,Ltd.	✓		1999
40.	Bangkok Komatsu Co.,Ltd.	✓		1999
41.	Thai Cold Rolled Steel Sheet Public Co.,Ltd.	✓	✓	1999 , 2001
42.	Gate Gourmet (Thailand) Co.,Ltd.	✓		1999
43.	Kawazumi Laboratory (Thailand) Co.,Ltd. (Plant 4)	✓	✓	1999 , 2002
44.	Kawazumi Laboratory (Thailand) Co.,Ltd. (Plant 3)	✓	✓	1999 , 2002
45.	Bangkok Phaisarn Co.,Ltd.	✓		1999
46.	Delta Electronics (Thailand) Public Co.,Ltd. (Plant 3)	✓	✓	1999 , 2004
47.	Nanyang Textile Co.,Ltd.	✓	✓	2000 , 2002
48.	Kim Pai Co.,Ltd.	✓		2000
49.	American Standard (Thailand) Public Co.,Ltd.	✓	✓	2000 , 2002
50.	Delta Electronics (Thailand) Public Co.,Ltd. (Plant 5-Magnetic)	✓	✓	2000 , 2003

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
51.	Delta Electronics (Thailand) Public Co.,Ltd. (Plant 5-Switching Power Supply)	✓	✓	2000 , 2002
52.	Siam Food Public Co.,Ltd.		✓	2000
53.	Diamond Brand Co.,Ltd.	✓		2000
54.	Sammitr Special Truck Co.,Ltd.	✓		2000
55.	Bangkok Telecom Co.,Ltd.	✓	✓	2000 , 2001
56.	Thai Gypsum Product Public Co.,Ltd.	✓		2000
57.	Asia World Tech Industry Co.,Ltd.	✓		2000
58.	Union Shoes Co.,Ltd.	✓	✓	2000 , 2002
59.	Eastern Printing Public Co.,Ltd.	✓		2000
60.	Thai Co Generation Co.,Ltd.	✓	✓	2000 , 2004
61.	The Co Generation Co.,Ltd.	✓	✓	2000 , 2004
62.	Thai Co Generation & MTP Co Generation Co.,Ltd.	✓	✓	2000 , 2004
63.	Matsushita Electric Works (Thailand) Co.,Ltd.		✓	2000
64.	Asia Cement Public Co.,Ltd.	✓	✓	2000 , 2003
65.	Bangkok Coil Center Co.,Ltd.	✓		2000
66.	Bangkok Coil Center Co.,Ltd.	✓		2000
67.	Rubia Industry Co.,Ltd.	✓	✓	2000 , 2003
68.	Thailand Carpet Manufacturing Public Co.,Ltd. (Tai Ping)	✓	✓	2000 , 2002
69.	Ansell (Thailand) Co.,Ltd.	✓	✓	2000,2002,2008
70.	Thai Rung Union Car Public Co.,Ltd.		✓	2000
71.	Hoya Lens (Thailand) Co.,Ltd.		✓	2000
72.	Thai Watana Panich Press Co.,Ltd.	✓		2000
73.	Kimberly Clark Thailand Co.,Ltd.	✓	✓	2000 , 2003
74.	Kimberly Clark Manufacturing Thailand Co.,Ltd.	✓	✓	2000 , 2003
75.	Thai Urethane Plastics Co.,Ltd.	✓	✓	2000 , 2004
76.	Microchip Technology (Thailand) Co.,Ltd.		✓	2000
77.	Bangkok Dock Co.,Ltd.	✓		2000
78.	Chong Lerd Lum Co.,Ltd.	✓		2000

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
79.	S.S.A. Industry Co.,Ltd.	✓		2000
80.	Bangkok Synthetics Co.,Ltd.	✓		2000
81.	BST Elastomers Co.,Ltd.	✓		2000
82.	Thaisin Metal Industry Co.,Ltd.	✓		2000
83.	Thaisin Screw Industry Co.,Ltd.	✓		2000
84.	Adams (Thailand) Co.,Ltd.	✓	✓	2000 , 2003
85.	Siam Choak Boonma Co.,Ltd.	✓	✓	2000 , 2003
86.	Universal Metal Drum Co.,Ltd.	✓		2000
87.	Sea Royal (80) Co.,Ltd.	✓		2000
88.	Sea Royal (80/2) Co.,Ltd.	✓		2000
89.	Sammitr Auto Part Co.,Ltd.	✓		2000
90.	S.C. Industry Co.,Ltd.	✓		2000
91.	President Rice Products Public Co.,Ltd.	✓		2000
92.	Metro Panel Co.,Ltd.	✓		2001
93.	National Fertilizer Co.,Ltd.	✓		2001
94.	Saeng Thai Metal Drum Co.,Ltd.	✓		2001
95.	Thai Chain & Assembly Co.,Ltd.	✓		2001
96.	Chumsaeng Textile Co.,Ltd.	✓		2001
97.	Thai Copper Rod Co.,Ltd.	✓	✓	2001 , 2003
98.	Auto Alliance (Thailand) Co.,Ltd.	✓	✓	2001 , 2005
99.	Thai Asahi Chemicals Co.,Ltd.	✓		2001
100.	Thai Standard Industry Co.,Ltd.	✓		2001
101.	Thai Carbon Black Public Co.,Ltd.	✓		2001
102.	Thai Glico Co.,Ltd. (Rungsit Plant)	✓		2001
103.	Thai Glico Co.,Ltd. (Bangkradi Plant)	✓		2001
104.	Thai Auto Works Co.,Ltd.	✓	✓	2001 , 2003
105.	Prime Box MFG Co.,Ltd.	✓	✓	2001 , 2004
106.	Asia Lamp Industry Co.,Ltd.	✓		2001
107.	Thai Citric Acid Co.,Ltd.	✓	✓	2001 , 2002

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
108.	Sammitr Motors Manufacturing Co.,Ltd.	✓		2001
109.	Rohm Apollo Electronics (Thailand) Co.,Ltd.		✓	2001
110.	Summit Electronic Components Co.,Ltd.		✓	2001
111.	Aromatics (Thailand) Public Co.,Ltd.		✓	2001
112.	Seiko P & C Co.,Ltd.		✓	2001
113.	Thai Bridgestone Co.,Ltd.		✓	2001
114.	Siam Nastech Co.,Ltd.	✓	✓	2001 , 2002
115.	Thai Asahi Denki Co.,Ltd.	✓		2001
116.	Thai CRT Co.,Ltd.		✓	2001
117.	Muangthong Aluminium Industry Co.,Ltd.		✓	2001
118.	Sahacharoen Metal & Plastic Products Co.,Ltd.	✓		2001
119.	Apex Petrochemical Co.,Ltd.	✓		2001
120.	Thai Cold Rolled Steel Sheet Public Co., Ltd.		✓	2001
121.	Thai Maruni Co.,Ltd.	✓		2001
122.	Thai Maruni Lumber Co.,Ltd.	✓		2001
123.	Industrial Power Co.,Ltd.	✓	✓	2001 , 2004
124.	Agere System Microelectronics (Thai) Co.,Ltd.		✓	2001
125.	Ongkorn Cold Storage Co.,Ltd.	✓		2001
126.	Thai Engineering Products Co.,Ltd.		✓	2001
127.	S.P. Brother Co.,Ltd.	✓		2002
128.	Bangkok Telecom Co.,Ltd.	✓		2001
129.	Nangyang Garment Co.,Ltd.	✓		2001
130.	Thai Hitashi Enamel Wire Co.,Ltd.	✓		2002
131.	Boonchai Co.,Ltd.	✓		2002
132.	Thailand Carpet Manufacturing Public Co.,Ltd. (Tai Ping)	✓	✓	2000 , 2002
133.	Sahacogen (Chonburi) Co.,Ltd.	✓	✓	2002 , 2004
134.	Fujitsu General (Thailand) Co.,Ltd.		✓	2002
135.	Vanda Pac Co.,Ltd.	✓	✓	2002

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
136.	S I K (Thailand) Co.,Ltd.	✓		2002
137.	Dana Spicer Co.,Ltd.	✓		2002
138.	Bangkok PVC Co.,Ltd.	✓		2002
139.	Read-Rite (Thailand) Co.,Ltd.	✓	✓	2002 , 2003
140.	Thairung General Motors Co.,Ltd.		✓	2002
141.	Useful Food Co.,Ltd.	✓		2002
142.	Eiwa (Thailand) Co.,Ltd.	✓	✓	2002 , 2003
143.	Nongkae Co-generation Co.,Ltd.	✓		2002
144.	Saraburi Sugar Co.,Ltd.		✓	2002
145.	Union Shoes Co.,Ltd.	✓	✓	2002
146.	Green Spot (Thailand) Co.,Ltd.		✓	2002
147.	Johnson & Johnson (Thailand) Co.,Ltd.		✓	2002
148.	Mahajak Autoparts (Thailand) Co.,Ltd.		✓	2002,2008
149.	Totota Motor (Thailand) Co.,Ltd. (F-4)		✓	2002
150.	Thai Union Manufacturing Co.,Ltd.		✓	2002
151.	Ecco (Thailand) Co.,Ltd.		✓	2003
152.	C.P. Retail and Marketing Co.,Ltd.		✓	2003
153.	Thai Citric Acid Co.,Ltd.		✓	2003
154.	Somboon Advance Technology Co.,Ltd.		✓	2003
155.	Bangkok Spring Co.,Ltd.		✓	2003
156.	Somboon Malleable Iron Industrial Co.,Ltd.		✓	2003
157.	Nikon (Thailand) Co.,Ltd.		✓	2003
158.	Thai Wacoal PCL. (3905, 930)		✓	2003
159.	Beer Thai (1991) PCL.		✓	2003
160.	SPM Feed Meal Co.,Ltd.	✓		2003
161.	Kanchanaburi Sugar Industry Co.,Ltd.	✓	✓	2003
162.	Thai Permpoon Industry Co.,Ltd.		✓	2003
163.	Thai Sugar Industry Co.,Ltd.		✓	2003
164.	Thai Rungruang Industry Co.,Ltd.		✓	2003

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
165.	Pitsanulok Sugar Co.,Ltd.		✓	2003
166.	Siam NSK Stering Systems Co.,Ltd.		✓	2003
167.	Toshiba Carrier (Thailand) Co.,Ltd.		✓	2003
168.	Cerebos (Thailand) Co.,Ltd.		✓	2003
169.	Laemgthong Sahakarn Co.,Ltd.		✓	2003
170.	Crown Seal PCL.		✓	2003
171.	Jalaprathan Cement PCL.	✓		2003
172.	Thailand Iron Work PCL.		✓	2003
173.	EI-WA (Thailand) Co.,Ltd.		✓	2003
174.	Thai Union Sea Food Co.,Ltd.	✓		2003
175.	Nidec Hi-Tech Motor (Thailand) Co.,Ltd.		✓	2003
176.	Cotco Metal Work Co.,Ltd.		✓	2003
177.	MMC Sitthipol Co.,Ltd.		✓	2003
178.	Summit Auto Seat Industry Co.,Ltd.	✓		2003
179.	Asian Sea Food Coldstorage PCL.		✓	2003
180.	Delta Electronics (Thailand) PCL. (Wellgrow)	✓		2003
181.	Mun Ying Co.,Ltd.	✓		2003
182.	Oran Kranit Co.,Ltd. (Nakornratsima)	✓		2003
183.	Oran Kranit Co.,Ltd. (Bang Pa-In)	✓		2003
184.	Chonviriya Steel Co.,Ltd.	✓		2004
185.	Mahajak Industry Co.,Ltd.	✓		2004
186.	Outokumpu Hitachi Copper Tube (Thailand) Co.,Ltd.		✓	2004
187.	Glow IPP Co.,Ltd.	✓		2004
188.	Seiko Instruments (Thailand) Co.,Ltd. (Factory 2)	✓		2004
189.	Usui International Coporation (Thailand) Co., Ltd.	✓		2004
190.	Seiko Instruments (Thailand) Co.,Ltd. (Factory 1)		✓	2004
191.	Asno Horie (Thailand) Co., Ltd.	✓		2004
192.	Asian Honda Motor Co., Ltd.	✓		2004

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
193.	Advanced Magnetic Materials (Thailand) Co., Ltd.	✓		2004
194.	Nutrix Public Co., Ltd.		✓	2004
195.	Siam AT Industry Co., Ltd.		✓	2004
196.	NSK Bearings Manufacturing (Thailand) Co., Ltd.	✓		2004 , 2005
197.	Pacific Marine Food Product Co., Ltd.		✓	2004
198.	TPC Paste Resin Co., Ltd.		✓	2004
199.	Thai Union Feed Mill Co., Ltd.	✓		2004
200.	Siam Denso Manufacturing Co., Ltd.	✓		2004
201.	Thai Steel Cable (TSK) Co., Ltd.	✓		2004
202.	Siam Winery Co., Ltd.	✓		2004
203.	Sahakit Wisarn Co., Ltd.	✓		2004
204.	CRT Displayed Technology Co., Ltd.		✓	2004
205.	NCR Rubber Industry Co., Ltd.	✓		2004
206.	Thai Arrow Product Co., Ltd.		✓	2004
207.	BASF (Thai) Ltd. (Rayong Plant)		✓	2005
208.	M.C.Aluminum (Thailand) Co., Ltd.		✓	2005
209.	Chock Samutmarine Co., Ltd.		✓	2005
210.	Pacific Cold Storage Co., Ltd.		✓	2005
211.	Chachoengsao Water Supply Co., Ltd.		✓	2005
212.	Bangpakong Water Supply Co., Ltd.		✓	2005
213.	S.K. Auto & Interior Co., Ltd.		✓	2005
214.	Thai Asia Pacific Brewery		✓	2005
215.	Thai Cane Paper Public Company Limited		✓	2005
216.	Thai NOK Co., Ltd.		✓	2005
217.	Thai Automotive Seating & Interior Co.,Ltd.		✓	2005
218.	Mitsubishi Motors (Thailand) Co.,Ltd.		✓	2005
219.	Siam Bheasach Co.,Ltd.		✓	2005
220.	Glow Energy Public Co.,Ltd.		✓	2006

ENERGY AUDIT EXPERIENCES

DESIGNATED FACTORIES

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
221.	Seiko Precision (Thailand) Co.,Ltd.		✓	2006
222.	American Standard (Thailand) Public Co.,Ltd.		✓	2006
223.	Koyo Steering (Thailand) Co.,Ltd.		✓	2006
224.	DDK (Thailand) Co.,Ltd.		✓	2006
225.	Ansell (Thailand) Ltd.		✓	2006,2008
226.	Johnson & Johnson Thailand Co.,Ltd.		✓	2006
227.	Thai Union Frozen Product Public Co.,Ltd. (Plant 72/1)		✓	2006
228.	Thai Union Frozen Product Public Co.,Ltd. (Plant 79/233)		✓	2006
229.	Bangkok Phaisarn Textile Industry		✓	2006
230.	Fujitsu General (Thailand)		✓	2006
231	Auto Alliance (Thailand) Co.,Ltd.		✓	2007
232	Isuzu Motors Co., (Thailand) Ltd.		✓	2008
233	Cadbury Adams (Thailand) Ltd._Energy Management System		✓	2008
234	Foremost Dairies Co., (Bangkok) Ltd. _Energy Management System		✓	2010
235	Western Digital (Thailand) company Limited_Navanakorn Plant_Energy Management System		✓	2010

ENERGY AUDIT EXPERIENCES

DESIGNATED BUILDINGS

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
1.	Future Park Rangsit (Rangsit Plaza Co.,Ltd.)	✓	✓	1996,2000,2008
2.	Kasikorn Bank (Head Office)	✓	✓	1997,1999,2008, 2009
3.	Kasikorn Bank (Phaholyothin)	✓	✓	1997,1999,2008, 2009
4.	Maboonyong Apartment	✓	✓	1997 , 1999
5.	AI Tower	✓	✓	1997 , 1999
6.	The Bangkok Christian Hospital	✓	✓	1997 , 1999
7.	C.P. Plaza (Office)	✓	✓	1997 , 2003
8.	C.P. Plaza (Plaza)	✓	✓	1997 , 2003
9.	C.P. Plaza (Silom Road)	✓	✓	1997 , 2000
10.	Maungthai Phatra Complex	✓	✓	1997 , 2000
11.	Ploenchit Tower	✓	✓	1997,1999,2008
12.	Piyamin Hospital	✓		1998
13.	AIG Tower	✓		1998
14.	Citi Resort	✓		1998
15.	Bang-pa-in Land Development Building	✓	✓	1998 , 2001
16.	Gems Cha-am Hotel	✓		1999
17.	Nontawate Hospital	✓	✓	1999 , 2001
18.	Pathumvech Hospital	✓	✓	1999 , 2002
19.	Stock Exchange of Thailand Tower	✓	✓	1999 , 2000
20.	Thai Com Satellite	✓		1999
21.	Thai Pure Drink Limited Building	✓	✓	1999 , 2008
22.	Tonson Tower	✓	✓	2000,2004,2008
23.	Jusmin International Tower	✓	✓	2000 , 2004
24.	Bio-House Building		✓	2000
25.	Future Park Rangsit (Detailed, IGA)		✓	2000
26.	Future Mart Rama III		✓	2000

ENERGY AUDIT EXPERIENCES

DESIGNATED BUILDINGS

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
27.	One Building		✓	2000
28.	RS Tower	✓		2000
29.	Vachiraprakarn Hospital	✓	✓	2000 , 2003
30.	Carrefour (Rama IV)	✓		2001
31.	Beauty Gems Center	✓		2001
32.	Wave Place Building		✓	2001
33.	The Seri Center		✓	2001
34.	Fashion Island		✓	2001
35.	Ministry of Defenses			2001
36.	Bumrungrad Medical Center Hospital		✓	2001
37.	The Dusit Thani Bangkok Hotel		✓	2001
38.	Bangkok City Tower	✓	✓	2001,2004,2005
39.	Software Park Building	✓		2002
40.	Empire Tower	✓		2002
41.	Ploenchit Center		✓	2002
42.	Berli Jucker	✓	✓	2002 , 2003
43.	Fortune Hotel		✓	2003
44.	Lotus and IT Mall	✓		2003
45.	JW Marriot Bangkok	✓	✓	2003 , 2005
46.	Muangthai Life Assurance Co., Ltd.	✓	✓	2003
47.	Bangkok Marriott Resort and Spa Hotel		✓	2003
48.	Grand Hyatt Erawan Hotel		✓	2003
49.	Thai Insurance Building		✓	2004
50.	Fortune Town (Lotus and IT Mall)		✓	2004
51.	Bumrungrad Hospital Public Co., Ltd.		✓	2004
52.	Bangkok City Tower		✓	2004 , 2005
53.	Land And Houses Property Fund (Wave Place Building)		✓	2006
54.	Thai Life Insurance		✓	2006

ENERGY AUDIT EXPERIENCES

DESIGNATED BUILDINGS

No.	Name of Client	Preliminary Audit	ET&P Audit	Year
55.	Bumrungrad Hospital (BMC Building)		✓	2006
56.	Bumrungrad Hospital (BH Tower)		✓	2006
57.	Maungthai Phatra Complex		✓	2006
58.	Centre Point (Promptpong)		✓	2006
59.	Centre Point (Sawatdee)		✓	2006
60.	Paolo Medic Co.,Ltd.		✓	2006
61.	RS Tower		✓	2006
62.	Phayathai Hospital 1		✓	2006
63.	Phayathai Hospital 2		✓	2006
64.	Phayathai Hospital 3		✓	2006
65.	Muang Thai Life Assurance Co.,Ltd.		✓	2006
66.	Piyasombat Property Co.,Ltd. (Vorasombat Building)		✓	2006
67.	Siriraj Hospital		✓	2006

ENERGY AUDIT EXPERIENCES

Industrial Energy Auditing Capability Building for EGAT funded by Global Environment Fund (GEF), administered by the World Bank

Item	Project Name	Nature
1.	The Siam Compressor Industry Co. Ltd.	Refrigeration Comp. Manf.
2.	Thai-Rath Daily Co.,Ltd.	Printing and Publishing
3.	Thai Plywood Co.,Ltd.	Hard Board, Plywood
4.	BP Feed Mills Co., Ltd.	Chicken, Hog, Cattle Feed
5.	Union Thread Industries Co., Ltd.	Spinning and Weaving
6.	Boon Rawd Brewery Co., Ltd.	Breweries
7.	Thai Pathana Steel Co.,Ltd.	Iron & Steel Works
8.	Thai Plastic and Chemical Co., Ltd.	Plastic & Resins
9.	Glass Organization Co., Ltd.	Glass Products
10.	Nisshin Stc Co., Ltd.	Biscuit & Noodles
11.	Bang Pa-in Paper Mill Co., Ltd.	Pulp & Paper Board
12.	Lanna Products Co., Ltd.	Dairy Products
13.	Thai Alliance Textile Co., Ltd.	Spinning & Weaving
14.	Kuangpisa Co., Ltd.	Food Canning
15.	DK Textiles Co., Ltd.	Spinning
16.	Chue Cin Hua Co., Ltd.	Iron & Steel Works
17.	Mahajak Industry Co., Ltd.	Wire & Others
18.	Nestle Co., Ltd.	Dairy Products
19.	Foremost Freezland	Dairy Products
20.	Siam Shikibo Drying	Weaving
21.	Chang Chai Puntho Co., Ltd.	Spinning & Weaving
22.	Thai Cement Co., Ltd.	Cement
23.	Pharmacy Organization	Drugs
24.	Prachuab Fruit Canning	Fruit Canning

ENERGY AUDIT EXPERIENCES

The Building Simulation Program of EGAT Demand Side Management Office funded by Global Environment Fund. Working in project association with NEOS Corporation from U.S.A.

NO.	NAME OF SITE
1	THAI FARMER BANK PHAHOLYOTIN BRANCH
2	THAI FARMER BANK NEW HEAD OFFICE
3	BANK OF AYUDHAYA NEW HEAD OFFICE
4	AMWAY
5	DELTA HOUSE
6	PANAWONG BUILDING
7	UNITED MOTRO WORK
8	ATTAKRAVEE BUILDING
9	ROBINSON RAMINTRA
10	IMPERIAL DEPARTMENT STORE NGAMWONGWAN BRANCH
11	CHAIVIWAT DEPARTMENT STORE
12	LOTTE DEPARTMENT
13	SEVEN ELEVEN WAT LUM BRANCH
14	SEVEN ELEVEN WONGSAWANG BRANCH
15	FORTUNE BLUE WAVE HOTEL
16	PRINCE PALACE HOTEL
17	TAI PAN HOTEL
18	NEW TROCADERO
19	ARISTON HOTEL
20	EVERGREEN HOTEL
21	BANGKOK CHRISTIAN HOSPITAL
22	VICHAITYUT HOSPITAL
24	PIYAMIN HOSPITAL
25	THEPTARIN HOSPITAL

ENERGY AUDIT EXPERIENCES

Evaluation of Government Building Program funded by The Energy Conservation Fund of the Royal Thai Government, administered by the National Energy Policy Office of Thailand (NEPO). Working in project association with RAMBOLL from Denmark.

NAME OF GOVERNMENT BUILDINGS	
Ministerial Office	1. Ministry of Science
	2. Ministry of University Affairs
	3. Ministry of Agricultural and Cooperatives
	4. Ministry of Foreign Affairs
Department Level	5. Chiang Mai Vocational College
	6. Rajabhat Chiang Mai Institute
	7. Rajamangala Institute of Technology (Khonkaen Campus)
	8. Office of Atomic Energy of Peace
	9. Department of Science Service
	10. Pitsanulok Technical College
	11. Rajabhat Phuket Institute
	12. Nakhonratchasima Vocational College
Provincial Hall	13. Prachuakirikhun Provincial Hall
	14. Chumporn Provincial Hall
	15. Chiang Mai Provincial Hall
	16. Prae Provincial Hall
	17. Khonkaen Provincial Hall
	18. Nakhonratchasima Province Hall
Public Hospital	19. Lumpoon Hospital
	20. Nakhonpathom Hospital
	21. Chumporn Hospital
	22. Lopburi Hospital
	23. Rayong Hospital
	24. Chachoensao Hospital
State Enterprise	25. The Zoological Park Organization
	26. The Communication Authority of Thailand
	27. The Transportation Company
	28. The Government Lottery Office
	29. Sport Authority of Thailand
	30. Pharmaceutical Organization

Appendix

■ Audit Equipment

Item	Name	Brand Name	Model	Serial Number
1	Photo/Contact Tachometer	DIGCON	DT-250TP	L489653
2	Wood Moisture Tester		MT-100	739781
3	Conductivity	TESTO	Testo 240	61021210025GB
4	PH & Temp. Meter	TESTO	Testo 230	61224400003GB
5	Digital Camera	SONY	MVC-FD 73	49790
6	Toshiba Notebook	Toshiba	Pro 440 CDX	Z 7020376
7	Manometer	DIGITRON	P200XH	E-000903T
8	Lux Meter	TES	TES-1330A	30113033
9	Lux Meter	TES	TES-1332	305107
10	Combustion Efficiency	TESTO	Testo 342-1	61025380591GB
11	Combustion Efficiency	TESTO	Testo 300 XL-1	859615
12	Thermo Anemometer	PROVA	AVM-01	97008758
13	Thermo Anemometer	PROVA	AVM-01	97008756
14	Infrared Heat Flow Meter	KANE MAY	KM 801	1R/2627/801/Q
15	Infrared Heat Flow Meter	TESTO	TESTO 860-T2	267856-0101-0010
16	Radiation Thermometer	EXTECH	Type-K 40131K	90361174
17	Ultrasonic Flow Meter	PANAMATRIC	PT 868	2057
18	Ultrasonic Flow Meter	PANAMATRIC	PT 868	2344
19	Ultrasonic Flow Meter	PANAMATRIC	PT 868	3717
20	Ultrasonic Flow Meter	PANAMATRIC	AT 868	
21	Ultrasonic Flow Meter	PANAMATRIC	TFXL	
22	Humidity/Temp. Meter	TES	TES-1360	970603232
23	Humidity/Temp. Meter	TES	TES-1360	971206253
24	Humidity/Temp. Meter	TESTO	TESTO-454	6112512003GB
25	Humidity/Temp. Meter	TESTO	TESTO-645	00221325 M
26	Humidity/Temp. Meter	TESTO	TESTO-400	866103
27	Humidity/Temp. Meter	TESTO	TESTO-400	00296220
28	Humidity/Temp. Meter	TESTO	TESTO-400	00239112
29	Humidity/Temp. Logger	TESTO	TESTO-175H2	20016573
30	Interface Data Logger	TES	TES-3062	970403810
31	Immersion Probe	TESTO	0604 0293	10094015/308
32	Surface Probe	TESTO	0604 9973	10093469/307
33	Surface Probe	TESTO	0604 9993	605 9993
34	Power Meter	Chauvin Arnoux	F23	146465 YKV
35	Power Meter	Chauvin Arnoux	F23	50446 AEH
36	Power Meter	Chauvin Arnoux	F23	50450 AEH
37	Power Meter	Chauvin Arnoux	F23	50448 AEH
38	Power Meter	Chauvin Arnoux	F23	129484 WDV
39	Power Meter	Chauvin Arnoux	F23	129487 WDV
40	Power Meter	Chauvin Arnoux	F23	129488 WDV
41	Power Logger	PS&T	ELITE pro	E354A
42	Power Logger	PS&T	ELITE pro	E354B

Item	Name	Brand Name	Model	Serial Number
43	Power Logger	PS&T	ELITE pro	E3701
44	Power Logger	PS&T	ELITE pro	E3702
45	Power Logger	PS&T	ELITE pro	E3703
46	Power Logger	PS&T	Elite 99	60603
47	Power Logger	PS&T	Elite 99	90602
48	Power Logger	PS&T	Elite 99	90700
49	Power Logger	PS&T	Elite 99	90718
50	Power Logger	PS&T	Elite 99	90727
51	Power Logger	PS&T	Elite 99	910D1
52	Power Logger	PS&T	Elite 99	910D3
53	Power Logger	PS&T	ELITE pro	E4205
54	Power Logger	PS&T	ELITE pro	E4220
55	Power Logger	PS&T	ELITE pro	E4222
56	Power Logger	PS&T	ELITE pro	E422A
57	kW Recorder	TES	TES-3060	970503011
58	kW Recorder	TES	TES-3060	981100773
59	kW Recorder	TES	TES-3060	670702363
60	kW Recorder	TES	TES-3060	970702225
61	kW Recorder	TES	TES-3060	970403810
62	Data Recorder	A.B.I	VL100	
63	CT Clamp-3000A	Chauvin Arnoux	3000P	129896
64	CT Clamp-3000A	Chauvin Arnoux	3000P	129897
65	CT Clamp-3000A	Chauvin Arnoux	3000P	158361
66	CT Clamp-3000A	Chauvin Arnoux	D30CN	100350
67	CT Clamp-3000A	Chauvin Arnoux	D30CN	100352
68	CT Clamp-3000A	Chauvin Arnoux	D30CN	100357
69	CT Clamp-3000A	Chauvin Arnoux	D30CN	100358
70	CT Clamp-3000A	Chauvin Arnoux	D30CN	100361
71	CT Clamp-3000A	Chauvin Arnoux	D30CN	100363
72	CT Clamp-3000A	Chauvin Arnoux	D30CN	110090
73	CT Clamp-3000A	Chauvin Arnoux	D30CN	129905
74	CT Clamp-3000A	Chauvin Arnoux	D30CN	158347
75	CT Clamp-3000A	Chauvin Arnoux	D30CN	158348
76	CT Clamp-3000A	Chauvin Arnoux	D30CN	158364
77	CT Clamp-3000A	Chauvin Arnoux	D30CN	168054
78	CT Clamp-3000A	Chauvin Arnoux	P01.1200.64-M-EL	102699 XAS
79	CT Clamp-3000A	Chauvin Arnoux	P01.1200.64-M-EL	106788 XBS
80	CT Clamp-3000A	Chauvin Arnoux	P01.1200.64-M-EL	106789 XBS
81	CT Clamp-3000A	Chauvin Arnoux	P01.1200.64-M-EL	106792 XBS
82	CT Clamp-3000A	Chauvin Arnoux	P01.1200.64-M-EL	106793 XBS
83	CT Clamp-3000A	Chauvin Arnoux	P01.1200.64-M-EL	106794 XBS
84	CT Clamp-3000A	Chauvin Arnoux	D30CN	127439 ZGS
85	CT Clamp-3000A	Chauvin Arnoux	D30CN	127443 ZGS
86	CT Clamp-3000A	Chauvin Arnoux	D30CN	127463 ZGS
87	CT Clamp-1000A	Chauvin Arnoux	C 103-M	114816 YCS
88	CT Clamp-1000A	Chauvin Arnoux	C 103-M	114843 YCS
89	CT Clamp-1000A	Chauvin Arnoux	C 103-M	126243 YES

Item	Name	Brand Name	Model	Serial Number
90	CT Clamp-1000A	Chauvin Arnoux	C103	124224
91	CT Clamp-1000A	Chauvin Arnoux	C103	124261
92	CT Clamp-1000A	Chauvin Arnoux	C103	124237
93	CT Clamp-500A	Chauvin Arnoux	Y2N-M	104075 ABS
94	CT Clamp-500A	Chauvin Arnoux	Y2N-M	117956 YDS
95	CT Clamp-500A	Chauvin Arnoux	Y2N-M	117963 YDS
96	CT Clamp-500A	Chauvin Arnoux	Y2N-M	118483 AFS
97	CT Clamp-500A	Chauvin Arnoux	Y2N-M	123893 XFS
98	CT Clamp-500A	Chauvin Arnoux	Y2N-M	128338 YFS
99	CT Clamp-500A	Chauvin Arnoux	Y2N-M	128344 YFS
100	CT Clamp-500A	Chauvin Arnoux	Y2N-M	128345 YFS
101	CT Clamp-500A	Chauvin Arnoux	Y2N-M	147944 XKS
102	CT Clamp-500A	Chauvin Arnoux	Y2N-M	132117
103	CT Clamp-500A	Chauvin Arnoux	Y2N-M	132121
104	CT Clamp-500A	Chauvin Arnoux	Y2N-M	164518
105	Secondary CT-5A	MAGNELAB	CT-SM-5P	
106	Secondary CT-5A	MAGNELAB	CT-SM-5P	
107	Secondary CT-5A	MAGNELAB	CT-SM-5P	
108	Secondary CT-5A	MAGNELAB	CT-SM-5P	
109	Secondary CT-5A	MAGNELAB	CT-SM-5P	
110	Secondary CT-5A	MAGNELAB	CT-SM-5P	0134
111	Secondary CT-5A	MAGNELAB	CT-SM-5P	0135
112	Secondary CT-5A	MAGNELAB	CT-SM-5P	0178
113	Secondary CT-5A	MAGNELAB	CT-SM-5P	0164
114	Secondary CT-5A	MAGNELAB	CT-SM-5P	0216
115	Secondary CT-5A	MAGNELAB	CT-SM-5P	0217
116	Secondary CT-5A	MAGNELAB	CT-SM-5P	0218

Appendix : Audit Equipment



TEMP, RH, AIR FLOW METER
MODEL: TESTO 400

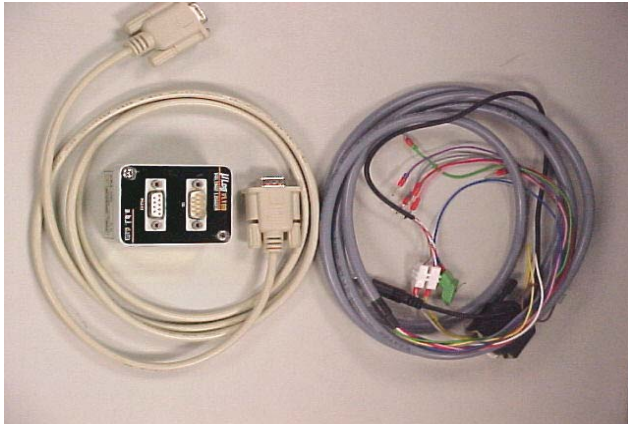


POWER METER
MODEL: TES-3060

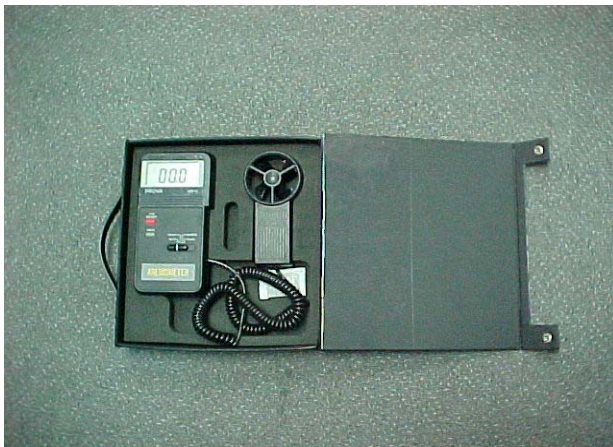


KW RECORDER
MODEL: ELITE 4

Appendix : Audit Equipment



LOG RECORDER
MODEL: VL 100



ANEMOMETER
MODEL: AVM-01



LUX METER
MODEL: TES-1332

Appendix : Audit Equipment



HUMIDITY TEMP. METER
MODEL: TES-1360



INFRARED HEAT FLOW METER
MODEL: KM 801



TEMP, RH, AIR FLOW METER
MODEL: TESTO 454

Appendix : Audit Equipment



ULTRASONIC FLOW METER
MODEL: PT 868



AMP. METER
MODEL: 2002P



PH TEMP.
MODEL: TESTO 230



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company limited

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