

DEDE Activities and Projects

No	DEDE Activities and Projects	FY 2006	FY 2007
I	Regulation on Energy Conservation		
1	Hiring the Consultant : Integrated Energy Conservation Project		8,000,000
2	Hiring : Adjust the Burner of Steam Boiler,Inspect the Steam Supply and Usage Systems		20,000,000
3	Hiring : Inspect the air compressor, compressed air supply and usage systems		10,000,000
4	Hiring : A Study to Develop Subordinate Clauses issuing by Laws of Alternative Energy and Energy Conservation		8,000,000
5	Hiring : A Study to Analyse and Establish the Guidelines on Implementaion in Compliance with Laws of Alternative Energy and Energy Conservation		5,000,000
6	Hiring the consultant : To Support the Implementaion on Energy Conservation Project for Designated Buildings	7,200,000	
II	Administration on Energy Conservation		
1	Hiring : A Study to Establish an Analysis System of Energy Consumption Structure in Industrial Sector		12,200,000
2	Hiring : a Study to Establish the Automatied Library System		3,000,000
3	Hiring the Consultant : To Coordinate in the International and Regional Co-operations in Alternative Energy and Energy Conservation		2,675,000
4	Hiring : To Train the Personnel for Information Techonology		500,000
5	Project Cost for Co-operation between Thailand Neighbouring Countries in Alternative Energy and Energy Conservation	91,000,000	
6	Hiring : A Study on Thailand Energy Consumption by Economic Sectors	6,300,000	
7	Hiring : To Establish the Strategic Plan for Alternative Energy and Energy Conservation		6,000,000
8	Hiring the Consultant : To Monitor, Assess and Promote the Administration Efficiency on Alternative Energy and Energy Conservation	4,600,000	
III	PV Power System Installation, Generation and Maintenance		
1	Installation Cost of PV Power System to Support the Utilisation within the Campus of the Royal Initiative Project	19,900,000	18,714,400
2	Installation Cost of PV Power System at Rural Schools	15,150,000	27,600,000
3	Installation Cost of PV Power System for Generating Capacity Extension at Rural Schools		16,560,000
4	Installation Cost of PV Power System at Community Learning Centres	13,000,000	17,062,500
5	Installation Cost of PV Power System at Frontier Patrol Police and Military Bases	1,466,000	1,612,600

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III	PV Power System Installation, Generation and Maintenance (con't)		
6	Installation Cost of PV Power System at Public Health Clinics	13,000,000	15,200,000
7	Installation Cost of PV Power System at Offices within the National Preserved Forest and the National Park with no Electricfication	13,800,000	13,800,000
8	Maintenance Cost of PV Power System	7,160,000	7,160,000
IV	Alternative Energy Construction		
1	Hiring : Biogas Production and Sewage Treatment at Correctional Institution		926,000
2	Establishment Cost of Laboratory for Biodiesel Quality Testing and Installation Cost of Wastewater Treatment System in Biodiesel Production Plant	2,700,000	2,700,000
3	Establishment and Installation Cost of Wnd Turbine for Power Generation	6,600,000	15,400,000
4	Hiring the Consultant : To Inspect the Installation, Production and Test of Biodiesel	983,300	
V	Promotion, Dissemination & Transfer of Alternative Energy Technology		
1	Hiring : To Design the Science Museum	11,995,000	
2	Project Cost to Promote Alternative Energy Utilisation for Reducing Energy Expenditure at Community		24,000,000
3	Hiring the Consultant : To Study, Develop and Disseminate the Optimised Technolgy of Alternative Energy to Support the Royal Initiative Project and Follow the Sufficiency Economy		30,000,000
4	Hiring the Consultant : To Study and Develop the Production and Use of High Efficiency Cooking Stoves for Villages within the Three Provinces Zoning at Southern Border		10,000,000
5	Hiring the Consultant : To Develop and Disseminate the Management of Municipal Solid Waste for Community Energy		6,000,000
6	Establishment Cost of Rural Energy Village Project	18,000,000	16,000,000
7	Establishment Cost of Energy Security Housing Project	15,000,000	30,000,000
8	Project Cost on Result Extension to Establish the Community Energy Plan that Responses to the Royal Initiative on Sufficiency Economic		50,000,000
9	Project Cost on Municipal Solid Waste for Community Energy	5,000,000	

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VI	Energy Technology Study and Development		
1	Hiring : To Study and Design the Detail of Solar Thermal Power Generation System		15,000,000
2	Hiring : To Study, Analyse and Assess the Efficiency of Solar Energy System		15,000,000
3	Hiring : To Study the Wind Energy Potential at Specific Source		5,500,000
4	Hiring : To Study, Research, Develop and Demonstrate the Prototype of Low Speed Wind Turbine Technology for Power Generation		15,000,000
5	Hiring : To Establish the Guidelines on Safety Requirement in Designing the Biogas Production and Utilisation System		1,500,000
6	Hiring : To Study and Develop a Prototype of Coal Water Mixer Utilisation for Replacing Fuel oil in Industry		5,000,000
7	Hiring : To Study and Design the Detail of Clean Coal Technology in Co-use with Biomass Energy in Industrial Sector		8,000,000
8	Hiring : To Develop and Demonstrate the Steam Reformation -Hydrogen Produced from Renewable Energy Sources		2,000,000
9	Hiring : To Inspect, Follow-up and Improve Using the PEMFC in Automobile for Prototype Development		1,000,000
10	Hiring : To Promote and Develop the Fuel Cell Economy		2,000,000
11	Hiring : To Administrate the Office of Secretariat of the Biofuel Development and Promotion Committee	1,000,000	
12	Hiring : To Follow-up and Assess the Project on Study and Develop the Biomass Gasification System for Power Generation in Internal Combustion Engine	2,000,000	
13	Hiring : To Follow-up and Assess the Geothermal Potential of Mae-Chan HotSpring Project (Project on Study and Development of MaeChan HotSpring in ChiangRai)	257,000	
14	Hiring : To Develop and Demonstrate a Small Sizing Digester for Biogas Production from Organic Waste	5,000,000	
15	Hiring : To Develop and Demonstrate a Test Producing of Biodiesel from Jatropha	6,000,000	
16	Hiring : To Study and Plan for Production and Utilisation of Biomass Thermal Energy in Industrial Sector	3,000,000	
17	Hiring : To Develop and Demonstrate Using Fuel Cells Type PEMFC in Tricycle (Tuk-Tuk)	10,000,000	
18	Hiring : To Research and Study on Waste Recovery from Ethanol Production for Utilising and Adding the Value	8,000,000	
19	Hiring the Consultant : To Study the Potential of Solar Thermal System for Power Generation	12,000,000	
20	Hiring : To Develop and Demonstrate the Hydrogen Production and Storage	5,000,000	

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VII Study and Development of Biofuel Technology			
1	Construction Cost of Production Plant for Community Biodiesel at Song-Kla		4,997,000
2	Hiring : To Research and Test of Using Biodiesel for 100 % (B100) in Automobile		16,000,000
3	Hiring : To Research and Test of Using Gasohol that Blending an Ethanol at Percentage of 20 and over for Fuelling to Automobile and Motorcycle		16,000,000
4	Hiring : To Adminstrate a Secretariat Office of the Biofuel Development and Promotion Committee		3,000,000
5	Hiring : To Study and Organise a Management System for an Integrated Jatropha Derived - Fuel		5,000,000
6	Hiring the Consultant : To Establish a Development Strategy for Down Stream Industries of Integrated Biodiesel Utilisations		3,000,000
7	Hiring : To Study the Optimised Organisation for Biofuel Administration		3,000,000
8	Hiring : To Conduct a Public Relation for Biofuel		4,150,000
VIII Energy Survey, Design and Feasibility Study			
1	Hiring: To Study and Report before Preliminary Reporting the Feasibility and Environment of a Hydro Power Project : Two Weirs (a Step ladder type Weir) at Khong River		26,000,000
2	Hiring the Consultant: To Study and Review the Feasibility and To Conduct the Proposal for Finding the Co-Investors in the Four Hydro Power Projects	10,000,000	
3	Hiring: To Study a Feasibility and Environmental Impact of the Huoi Mae U Su Hydropower Project		9,500,000
4	Hiring : To Design the Details and Prepare a Bidding Document for the HuoiSatho Hydropower Project		9,000,000
5	Hiring the Consultant: To Study the Types for Granting the Concession to an Administration on Micro Hydropower Plant in MaeHongSawn	6,000,000	
6	Hiring : To Study and Design the Demo-Power Plant Fuelled by Cassava Rhizome	7,991,000	
IX Constructing the Hydropower Plant at Klong Thoong Plae Dam			
1	Construction Cost of Klong Thoong Plae Dam (Upper Dam) : Power Plant and Its Buildings (C1)	108,007,000	
2	Construction Cost of Roads and Water (Supplying) Tunnel (C2)	72,483,800	47,423,500
3	Hiring: To Monitor and Inspect the Construction Work	6,879,000	1,205,500
4	Construction Cost of High Voltage Power Lines	7,135,300	
X Constructing the Hydropower Plant at an Upper Nan River Basin			
1	Land Purchasing and Compensation		5,000,000
2	Construction Cost of Nam Wah Dam and Penstock (Water Supplying Tunnel)	15,349,000	13,009,100
3	Construction Cost of Control Building, Power Plant and Water Supplying System	128,550,000	26,806,000
4	Cost of a 6000 kW Hydropower Generator with its equipment and Installation Cost		36,000,000
5	Hiring : To Monitor and Inspect the Construction Work	16,750,000	

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XI	Constructing the Mae Ga Nai Hydropower Plant		
1	Cost of Hydropower Generator with its equipment and Installation Cost	9,047,500	
2	Construction Cost of Weir, Water Supplying System, Power Plant and Other Components	11,683,600	6,760,000
3	Hiring : To Monitor and Inspect the Construction Work	2,279,700	1,619,900
XII	Production and Maintenance of Renewable Energy		
1	Hiring : To Maintain the Micro Hydropower Project		10,000,000
2	Improvement Cost of Water Turbine and Power Generator with its Equipment	16,000,000	18,000,000
3	Maintenance Cost of Transformers	1,100,000	1,100,000
4	Improvement Cost to Repair and Renovate the Sediment Drainage Gate with its Equipment at Mae Mao Project in Chiang Mai		12,000,000
5	Improvement Cost of the Controller for Opening-Closing an Intake Gate with the Project Equipment at Kee ReeTharn in Chunthaburi		1,200,000
6	Improvement Cost to Prevent an Erosion and Subside of Road heading to Dam Ridge and Hill Slope of Mae Mao Hydropower Project in Chiang Mai		8,000,000
7	Construction Cost of Residential Buildings (Mae Saab)		1,500,000
8	Repairing Cost of Residential Buildings (Mae Mao, Huoi Mae Phong, Huoi LamSint)		7,612,000
9	Repairing Cost of Roads (at Mae Toen, Klong Du Sone, Klong LamPorg, Boe Keaw)		10,000,000
10	Construction Cost of Residential Buildings (Mae Sa-Nga, Mae SaRieng, Huoi Mae Poong, Mae Saab, Mae Mao)		5,000,000
11	Improvement and Maintenance Cost of Diversion Steel Pipe Colour, Reducing Pressure Steel Tank, and Pressuring Steel Pipe	5,000,000	5,000,000
12	Improvement Cost of Power Plant Building	1,500,000	15,000,000
13	Repairing and Renovation Cost to Paint the Power Plant Building of Micro Hydropower Project		3,000,000