

III. URGENT SHORT-TERM PROGRAMS

**B. OUTSIDE JAWA MADURA BALI (JAMALI)
SYSTEM**

Region of Nangroe Aceh Darussalam (NAD)

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
Nangroe Aceh Darussalam (NAD)	1. Addition of new capacity	➤ New Generation	<ul style="list-style-type: none"> ♦ Add new generations: <ul style="list-style-type: none"> ✓ PLTG Aceh 100 MW in 2003 and 100 MW in 2004 	<ul style="list-style-type: none"> ♦ Complete generation capacity addition of 100 MW in 2003 and 100 MW in 2004 	<ul style="list-style-type: none"> ♦ APLN
		➤ Scattered Generation	<ul style="list-style-type: none"> ♦ Add generation PLTD in 2003 and 2004 <ul style="list-style-type: none"> ✓ PLTD Sabang 1 MW (2003) 	<ul style="list-style-type: none"> ♦ Complete addition of 2,5 MW scattered generation PLTD 	<ul style="list-style-type: none"> ♦ Loan from Denmark
		➤ New Generation	<ul style="list-style-type: none"> ♦ PLTA Peusangan (2x22.1)MW + (2x22.1)MW 	<ul style="list-style-type: none"> ♦ Enter Aceh system on March 2007 	<ul style="list-style-type: none"> ♦ JBIC
	2. Completion of Network/Grid	➤ Complete network interconnection (<i>on-going project</i>)	<ul style="list-style-type: none"> ♦ Accelerate interconnection project of 150 kV Lhokseumawe-Banda Aceh ♦ Develop transmission line and the equipments from PLTG Arun to the nearest PLN system. 	<ul style="list-style-type: none"> ♦ Complete network interconnection development in North Sumatera and Aceh ♦ Complete and enter PLN system in March 2003 	<ul style="list-style-type: none"> ♦ ADB PW-XXIV ♦ APLN
		➤ Complete the development of main station in: <ul style="list-style-type: none"> <input type="checkbox"/> Lhokseumawe <input type="checkbox"/> Bireun <input type="checkbox"/> Sigli <input type="checkbox"/> Banda Aceh 	<ul style="list-style-type: none"> ♦ Accelerate project of main station development in Lhokseumawe, Bireun, Sigli, and Banda Aceh 	<ul style="list-style-type: none"> ♦ Complete project development of main station in Lhokseumawe, Bireun, Sigli, and Banda Aceh 	

Region of North Sumatra

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
North Sumatera	1. Addition of new capacity	<ul style="list-style-type: none"> > New Generation 	<ul style="list-style-type: none"> ♦ Add generation PLTA Sipansihaporas 17 MW on October 2002 and 33 MW on December 2003. 	<ul style="list-style-type: none"> ♦ Complete additional generation capacity of 50 MW in 2003 	<ul style="list-style-type: none"> ♦ JBIC
			<ul style="list-style-type: none"> ♦ Accelerate renegotiation process of IPP - PLTU Sibolga 2x200 MW 	<ul style="list-style-type: none"> ♦ Complete renegotiation and development of generation 400 MW PLTU Sibolga 	<ul style="list-style-type: none"> ♦ Private Fund
			<ul style="list-style-type: none"> ♦ Add new generation: <ul style="list-style-type: none"> ✓ PLTG Medan 100 MW in 2003 and 200 MW in 2004 	<ul style="list-style-type: none"> ♦ Complete additional generation capacity of 100 MW in 2003 and 200 MW in 2004 	
			<ul style="list-style-type: none"> ♦ Add generation PLTA Renun 2x41 MW 	<ul style="list-style-type: none"> ♦ Enter the system in 2005 	<ul style="list-style-type: none"> ♦ JBIC
		<ul style="list-style-type: none"> > Implementation of Presidential Decree No.15 of 2002 	<ul style="list-style-type: none"> ♦ Continue private electricity projects, which was on review stage 	<ul style="list-style-type: none"> ♦ PLTA Asahan I 1 & 2 (2X90 MW), each enter in 2007 and 2008 	
			<ul style="list-style-type: none"> ♦ Continue private projects, which was on review stage 	<ul style="list-style-type: none"> ♦ PLTP Sibayak 1 & 2 each 60 MW and enter in 2006 and 2008 ♦ PLTP Sarulla 1 & 2 each 55 MW and enter in 2006 and 2008 	

Region of West Sumatra and Riau

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. West Sumatera	1. Addition of new capacity	> New Generation	<ul style="list-style-type: none"> ◆ Add new generation PLTG 100 MW in 2004. 	<ul style="list-style-type: none"> ◆ Complete additional generation capacity of 100 MW in 2004 	
	2. Completion of Network/Grid	> Complete network interconnection	<ul style="list-style-type: none"> ◆ Accelerate project interconnection 150 kV in Pekanbaru-Duri-Dumai 	<ul style="list-style-type: none"> ◆ Complete network interconnection development in Pekanbaru-Duri-Dumai 	<ul style="list-style-type: none"> ◆ ADB PW-XXIV
2. Riau	Addition of new capacity	> Scattered Generation	<ul style="list-style-type: none"> ◆ Add generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Bagansiapi-api 1 MW (2003) ✓ PLTD Selat Panjang 1 MW (2003) ✓ PLTD Rengat 1,5 MW (2003) ✓ PLTD Teluk Kuantan 1,5 MW (2003) ✓ PLTD Tembilahan 1,5 MW (2003) 	<ul style="list-style-type: none"> ◆ Complete addition of scattered generation PLTD 6,5 MW in 2003 	
3. Duri-Dumai	Completion Main Station	> Run Main Station	<ul style="list-style-type: none"> ◆ Accelerate the operation of Main Station Duri ◆ Accelerate the operation of Main Station Dumai 		

Region of South Sumatera, Lampung, Bengkulu, Jambi, and Bangka Belitung

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. South Sumatera	1. Addition of capacity	> New generation	<ul style="list-style-type: none"> ◆ Add new generation capacity 100 MW 	<ul style="list-style-type: none"> ◆ Add new generation capacity PLTG 100 MW in 2003 	
		> Implementation of Presidential Decree No.15 of 2002	<ul style="list-style-type: none"> ◆ Continue private projects which was on review stage 	<ul style="list-style-type: none"> ◆ PLTGU Palembang East (150 MW) enter in 2005 	
2. Lampung	2. Completion of Network/Grid	> Interconnection network system between Sumatera-Lampung and West Sumatera-Riau	<ul style="list-style-type: none"> ◆ Develop interconnection system between Sumatera-Lampung and West Sumatera-Riau, which has access load 	<ul style="list-style-type: none"> ◆ Complete development of network interconnection system between Sumatera-Lampung and West Sumatera-Riau 	<ul style="list-style-type: none"> ◆ ADB PW-XXIV and ◆ ADB PW-XXV
		> Complete the refurbishment	<ul style="list-style-type: none"> ◆ Refurbish PLTA Besai 90 MW in 2002 	<ul style="list-style-type: none"> ◆ Complete the refurbishment of PLTA Besai 	
3. Bengkulu	1. Maintenance PLTD 2. Network Interconnection	> Maintenance P. BAAI	<ul style="list-style-type: none"> ◆ Accelerate maintenance of PLTD P. BAAI 	<ul style="list-style-type: none"> ◆ Increase of system capacity of Bengkulu 	
		> Interconnect network system of Bengkulu with 150 kV distribution system of South-Side-of -Sumatra	<ul style="list-style-type: none"> ◆ Accelerate interconnection project of Bengkulu network system with 150 kV distribution system of South-Side-of -Sumatra 	<ul style="list-style-type: none"> ◆ Complete interconnection of Bengkulu network system with 150 kV South-Side-of -Sumatra distribution system 	<ul style="list-style-type: none"> ◆ ADB
4. Jambi	Network Interconnection	> Interconnect network system of Jambi with 150 kV distribution system of Bangko	<ul style="list-style-type: none"> ◆ Develop interconnection of Jambi network system with 150 kV distribution system of Bangko 	<ul style="list-style-type: none"> ◆ Complete interconnection of Jambi network system with 150 kV Bangko distribution system 	

Region of West Kalimantan

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. Inter-connection System of Pontianak	1. Addition of new capacity	➤ New generation	<ul style="list-style-type: none"> ♦ Plan of new generation addition PLTG 100 MW in 2003 and 50 MW in 2004 	<ul style="list-style-type: none"> ♦ Add generation capacity of new PLTG of 100 MW in 2003 and of 50 MW in 2004 	
		➤ Scattered PLTD	<ul style="list-style-type: none"> ♦ Plan to add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Ketapang 3MW (2003) ✓ PLTD Sambas 2,5 MW (2003) ✓ PLTD Sanggau 1,5 MW (2003) ✓ PLTD Sintang 1,5 MW (2003) ✓ PLTD Putusibau 1,5 MW (2003) 	<ul style="list-style-type: none"> ♦ Add capacity of interconnection system in Pontianak 	<ul style="list-style-type: none"> ♦ Loan from Denmark
		➤ New PLTMH	<ul style="list-style-type: none"> ♦ Add new generation PLTMH: <ul style="list-style-type: none"> ✓ Merasap 	<ul style="list-style-type: none"> ♦ Compete 2008 	<ul style="list-style-type: none"> ♦ ADB

Region of South Kalimantan, Central Kalimantan, and East Kalimantan

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. South Kalimantan	1. Addition of new capacity	> New generation PLTU	<ul style="list-style-type: none"> ◆ Accelerate project plan of Biomass PLTU of 30 MW in 2004 	<ul style="list-style-type: none"> ◆ Increase of interconnection system capacity of Barito by 30 MW in 2004 	<ul style="list-style-type: none"> ◆ Proposed to be funded by loan from JBIC
	2. Refurbishment	> Scattered PLTD > Repair machine	<ul style="list-style-type: none"> ◆ Plan to add new generation PLTD in KotaBaru of 5 MW in 2003 	<ul style="list-style-type: none"> ◆ Increase of installed capacity by 5 MW in KotaBaru in 2003 	
	3. Rehabilitation PLTD	> Scattered PLTD			

DEPARTMENT OF ENERGY AND MINERAL RESOURCES
DIRECTORATE GENERAL OF ELECTRICITY AND ENERGY UTILIZATION

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
2. East Kalimantan	1. Addition of new capacity	➤ New generation PLTG	<ul style="list-style-type: none"> ♦ Accelerate project plan of PLTG 50 MW (2003) and 100 MW (2004) 	<ul style="list-style-type: none"> ♦ Increase of interconnection capacity Balikpapan-Samarinda (Mahakam system) 	
		➤ Scattered PLTD	<ul style="list-style-type: none"> ♦ Plan to add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Petung 2 MW (2003) ✓ PLTD Sangata 2 MW (2003) ✓ PLTD Tj. Redep 1,5 MW (2003) ✓ PLTD Tarakan 5 MW (2003) ✓ PLTD Nunukan 1,5 MW (2003) 	<ul style="list-style-type: none"> ♦ Increase of scattered capacity throughout the Province of East Kalimantan 	<ul style="list-style-type: none"> ♦ Loan from Denmark
		➤ Rehabilitation PLTD			
3. Central Kalimantan	Addition of new capacity	➤ Scattered PLTD	<ul style="list-style-type: none"> ♦ Accelerate interconnection project of system Samarinda-Balikpapan with system Barito 	<ul style="list-style-type: none"> ♦ Complete the development of network interconnection of system Samarinda-Balikpapan with system Barito 	<ul style="list-style-type: none"> ♦ ADB
		➤ Interconnection of Samarinda-Balikpapan			
		➤ Rehabilitation PLTD			
	3. Completion of Network/Grid				
	2. Rehabilitation				
	1. Addition of new capacity		<ul style="list-style-type: none"> ♦ Plan to add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Muara Teweh 1,5 MW (2003) ✓ PLTD Buntok 1,5 MW (2003) 	<ul style="list-style-type: none"> ♦ To increase installed capacity 	

Region of North Sulawesi, Central Sulawesi and Gorontalo

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES	
1. Province of North Sulawesi (Minahasa System)	1. Addition of new capacity	➤ New generation	<ul style="list-style-type: none"> ♦ Plan to add new generation PLTG 2x50 MW in 2003 and in 2004 ♦ Plan to add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Ondong 1,5 MW (2003) ✓ PLTD Tahuna 2,5 MW (2003) ♦ Plan to build generation PLTA Poigar-2 (20 MW) ♦ Plan to build generation PLTM Mongango 1,2 MW ♦ Lahendong – PLN (20 MW) ♦ Lahendong – Swasta (2x20 MW) 	<ul style="list-style-type: none"> ♦ Completion of additional generation PLTG 2x50 MW in 2003 and in 2004 ♦ To Increase installed capacity 	<ul style="list-style-type: none"> ♦ Denmark 	
	2. Relocation			<ul style="list-style-type: none"> ♦ Complete by March 2008 	<ul style="list-style-type: none"> ♦ ADB 	
	3. Rent				<ul style="list-style-type: none"> ♦ Complete by 2008 ♦ Complete by 2005 ♦ Complete by 2005 	<ul style="list-style-type: none"> ♦ ADB ♦ ADB ♦ Private/Regional Government
	4. Generation Refurbishment		➤ Repair disturbances to the generation	<ul style="list-style-type: none"> ♦ MOU with VATH had been signed for studying the revitalize the Tondano River 		

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
2. Kotamubago	Completion of Network/Grid	➤ Completion of electricity projects	<ul style="list-style-type: none"> ◆ Accelerate project of 2nd circuit transmission Tomohon-Kawangkoan-Kotamubago 	<ul style="list-style-type: none"> ◆ Loan from Belgium 	
3. Province of Cental Sulawesi	Addition of new capacity	➤ New generation	<ul style="list-style-type: none"> ◆ Add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Ampana 1,5 MW (2003) ✓ PLTD Moutong 1,5 MW (2003), ✓ PLTD Luwuk 2,5 MW (2003) ✓ PLTD Parigi 3 MW (2003) ✓ PLTD Poso 1 MW (2003) 	<ul style="list-style-type: none"> ◆ To increase installed capacity 	
4. Province of Gorontalo	Addition of new capacity	➤ Scattered generation	<ul style="list-style-type: none"> ◆ Plan to add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Marisa 1,5 MW (2003) ✓ PLTD Gorontalo 2,5 MW 		
		➤ New PLTMH	<ul style="list-style-type: none"> ◆ PLTMH Lobong 1,6 MW 	<ul style="list-style-type: none"> ◆ Complete by March 2008 	<ul style="list-style-type: none"> ◆ ADB