

Region of South Sulawesi and Southeast Sulawesi

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. Province of South Sulawesi (Makassar System)	1. Addition of new capacity	> New generation	<ul style="list-style-type: none"> ◆ Add new generation PLTA Bili-Bili 16,2 MW in 2003 ◆ Add new generation PLTG 100 MW in 2004 	<ul style="list-style-type: none"> ◆ Completion of added generation PLTA 16,2 MW in 2003 ◆ Completion by 2004 	Loan from JBIC LP-464
	2. Completion of network project	> Completion of electricity project in South Sulawesi	<ul style="list-style-type: none"> ◆ Accelerate renegotiation process 	<ul style="list-style-type: none"> ◆ To address bottleneck and reduce diesel generator usage 	KE3 Lot 15
2. Palopo	Relocation of GI operation in Palopo	> Generation relocation	<ul style="list-style-type: none"> ◆ Accelerate generation relocation of 1,2 MW from PLTD Pajaleccang to PLTD Palopo 	<ul style="list-style-type: none"> ◆ Completion 	APLN
3. Bulukumba System	Rent generator to operate GI Bulukumba				
4. Province of Southeast Sulawesi	Addition of new capacity	> New generation	<ul style="list-style-type: none"> ◆ Plan to add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Kolaka 3 MW ✓ PLTD Raha 1 MW 	<ul style="list-style-type: none"> ◆ Complete by 2003 	

Region of Maluku and North Maluku

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
Maluku and North Maluku	Addition of new capacity	> Scattered generation	<ul style="list-style-type: none"> ♦ Add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Ambon 8 MW ✓ PLTD Bacan 1 MW ✓ PLTD Jailolo 1 MW ✓ PLTD Kairatu 1 MW ✓ PLTD Masohi 1 MW ✓ PLTD Saparua 1,5 MW ✓ PLTD Tobelo 2 MW ✓ PLTD Namlea 1,5 MW 	<ul style="list-style-type: none"> ♦ Complete by 2003 	<ul style="list-style-type: none"> Belgia Belgia Denmark Denmark Belgia

Region of Irian Jaya

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. Scattered	Addition of new capacity	> Scattered generation	<ul style="list-style-type: none"> ♦ Add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Manokwari 1,5 MW ✓ PLTD Merauke 1,5 MW ✓ PLTD Nabire 2 MW ✓ PLTD Serui 2 MW ✓ PLTD Timika 2MW ♦ Plan to add generation PLTM: <ul style="list-style-type: none"> ✓ PLTM Amai 1,1 MW ✓ PLTM Tatui 1,2 MW ✓ PLTM Prafi 1,6 MW 	<ul style="list-style-type: none"> ♦ Complete by 2003 	<ul style="list-style-type: none"> ♦ Belgium ♦ Belgium ♦ Belgium
2. Jayapura	Addition of new capacity			<ul style="list-style-type: none"> ♦ Complete by 2008 ♦ Complete by 2008 ♦ Complete by 2008 	<ul style="list-style-type: none"> ♦ ADB ♦ ADB ♦ ADB
3. Sorong	Addition of new capacity		<ul style="list-style-type: none"> ♦ Plan of development of PLTA Genyem 3x15,5 MW ♦ Development of PLTD Sorong 5 MW 	<ul style="list-style-type: none"> ♦ Complete by 2008, 2009, 2010 ♦ Complete by 2003 	<ul style="list-style-type: none"> ♦ ADB

Region of West Nusa Tenggara and East Nusa Tenggara

a) Supply Side

ELECTRICITY SYSTEM	PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. Kupang	Addition of new capacity	> Scattered generation	<ul style="list-style-type: none"> ◆ Add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Kefamenahu 1,5 MW ✓ PLTD Kupang 6 MW ✓ PLTD Soe 1 MW 	<ul style="list-style-type: none"> ◆ Complete by 2003 	Loan from Denmark
2. Flores	Addition of new capacity	> Scattered generation	<ul style="list-style-type: none"> ◆ Add new generation PLTD: <ul style="list-style-type: none"> ✓ PLTD Ende 3 MW ✓ PLTD Kalabahi 1,5 MW ✓ PLTD Lantutuka 1 MW ✓ PLTD Maumere 1,5 MW ◆ Development plan of PLTM Ndunga 1,9 MW ◆ Development plan of PLTP Ulumbu 3 MW ◆ Development plan of PLTP Mataloko 	<ul style="list-style-type: none"> ◆ Complete by 2003 ◆ Complete by March 2008 ◆ Complete by March 2008 ◆ Production well complete by 2003. PLTP completes by 2004 	<ul style="list-style-type: none"> ADB ADB RAPBN
3. Sumba	Addition of new capacity	> Scattered generation	<ul style="list-style-type: none"> ◆ PLTD Waingapu 1,5 MW 	<ul style="list-style-type: none"> ◆ Complete by 2003 	
4. Sumbawa	Addition of new capacity	> Scattered generation	<ul style="list-style-type: none"> ◆ PLTD Dompu 1,5 MW 		
5. Lombok	Addition of new capacity		<ul style="list-style-type: none"> ◆ Development plan of PLTM Santong 10 MW 	<ul style="list-style-type: none"> ◆ Complete by 2008 	ADB

b) Demand Side

PROGRAM	ACTIVITY	NECESSARY STEPS	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
1. Load growth management (particularly on peak load)	➤ Introduce energy saving concept and to socialize the usage of energy saving appliances particularly for R1 and street lighting (PJU).	♦ Run efficiency and energy saving campaign (seminars, media advertisement)	♦ Reduced peak load is archived by: ✓ 527 MW in 2001 ✓ 1054 MW in 2002 ✓ 1581 MW in 2003 ✓ 2108 MW in 2004	♦ Proposed to be funded by APBN
	➤ Reduce peak load	♦ Increase the ratio of tariff on peak load to tariff on off-peak load		♦ Source of fund has not been identified
	➤ Reduce non-technical loss	♦ Improve consumer administration ♦ Increase inspections on electricity connection (JPTL: <i>Ponanggungan Penerimaan Tenaga Listrik</i> -Program to address Electricity Loss due Stealing)		♦ APLN
	➤ Promote the use of efficient home appliances	♦ Implement standard energy-usage appliances and label electricity consumption		♦ APBN
2. Temporary limitation of installation of new connection	➤ Limit new customers	♦ New connections are limited to up to certain capacity		♦ Proposed to be funded by DJLPE
	➤ Reduce installed capacity	♦ Recollect data of installed capacity at the government offices		

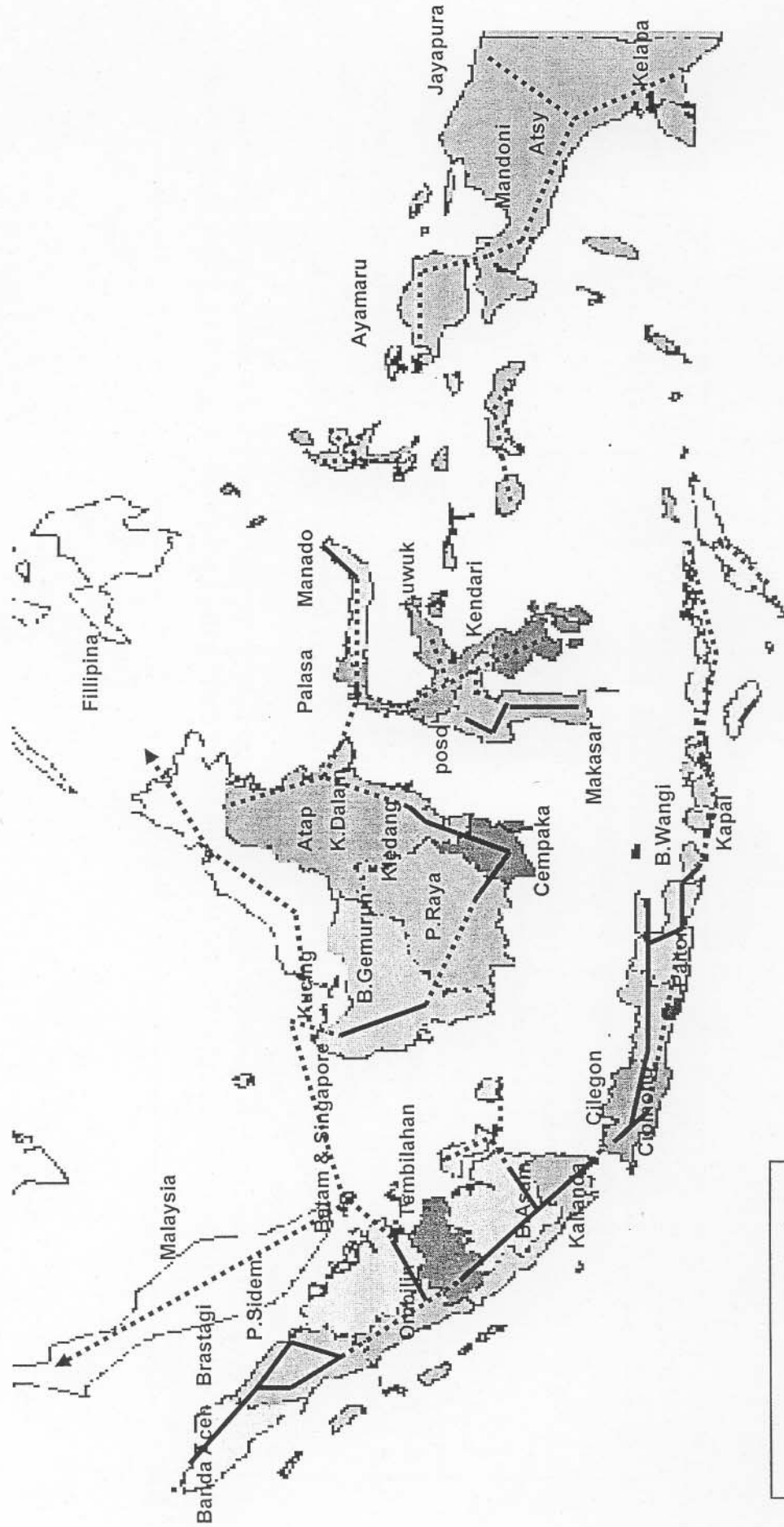
IV. LONG-TERM PROGRAMS

The Long-Term Programs

PROGRAM	NECESSARY STEPS	ACTIVITY	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES	
1. Restructuring of Electricity Sector	<ul style="list-style-type: none"> ➢ Revitalize PLN financial viability <ul style="list-style-type: none"> - Debt restructuring - Debt rescheduling - Asset revaluation 	<ul style="list-style-type: none"> ◆ Asset revaluation to adjust asset book value to asset current market value 	<ul style="list-style-type: none"> ◆ On preparation, complete by December 2002 		
	<ul style="list-style-type: none"> ➢ Rationalize electricity tariff <ul style="list-style-type: none"> - Increase the tariff gradually up to its economic level and commercial fairness 	<ul style="list-style-type: none"> ◆ Implementation of regional tariff, which is approved by the President. Minister of EMR request for proposed PP 10 revision. 			
	<ul style="list-style-type: none"> ➢ Eliminate subsidy for industry /commodity <ul style="list-style-type: none"> - Short-term goal is to eliminate subsidy for industry 				
	<ul style="list-style-type: none"> ➢ Restructure the electricity sector <ul style="list-style-type: none"> - Functionally separate the business in the electricity sector 				
	<ul style="list-style-type: none"> ➢ Redefine the government role <ul style="list-style-type: none"> - The government role is as the policy maker - The authority to regulate and supervise is held by an independent regulatory body 				
	<ul style="list-style-type: none"> ➢ Increase private participation in business of the electricity supply (including PSKSKSM) <ul style="list-style-type: none"> - Introduce gradual/full competition 				

PROGRAM	NECESSARY STEPS	ACTIVITY	GOAL (TIME & CONDITION)	FINANCIAL RESOURCES
	> Increase transparency in regulating the sector - Prepare draft of Electricity Law - Prepare regulatory framework (Elucidation of the draft law) - Create an independent regulatory body			
<p>2. Grid “Nusantara” or Nusantara Grid National grid is high, extra dan ultra voltage transmission lines established by the Government for transmitting electric energy to public or electricity consumers. This grid is open acces for all electricity business players. It is expected that among the Indonesia’s main islands will be interconnected each other in 2020 called “Nusantara Grid”.</p> <p>3. ASEAN Power Grids HAPUA’s masterplan study is currently ongoing, with expected completion by March 2003. Preliminary results of the ASEAN Interconnection Masterplan (AIMS) long-term power development plan study suggests 11 power interconnection projects</p>				

Planned "Grid Nusantara 2020"



— Existing
..... Plan

ASEAN Power Grid

