

# NATIONAL IRRIGATION AND POWER PROGRAM



NATIONAL PRIORITY PROGRAM

# WHO?

## Who are the Implementers of the NIPP?



NATIONAL PRIORITY PROGRAM

**THE LEAD MINISTRIES OF THE JOINT PROJECT TEAM  
(JPT) FOR THE NIPP ARE:**

**MIWRE**

**(The Ministry of Irrigation, Water Resources, and Environment)**

**MWP**

**(The Ministry of Water and Power)**



**NATIONAL PRIORITY PROGRAM**

**THE OTHER KEY MINISTRIES OF THE JOINT PROJECT  
TEAM (JPT) FOR THE NIPP ARE:**

**MAAH**

**(The Ministry of Agriculture and Animal Husbandry)**

**MRRD**

**(The Ministry of Rural Rehabilitation and Development)**

**MHUD**

**(The Ministry of Housing and Urban Development)**

**MMI**

**(The Ministry of Mining and Industry)**



**KEY PARTNERS OF THE JOINT PROJECT TEAM (JPT)  
FOR THE NIPP ARE:**

**USAID**

**JICA**

**GTZed**

**WB**

**CIDA**

**India**

**ADB**

**FAO**

**Iran**

**EU**

**KFW**



# WHY?

Why is the NIPP a priority program?



NATIONAL PRIORITY PROGRAM

# THE VISION

**To gain ample water supply for communities, irrigation water for various farmlands and sufficient power for the industries by harnessing the water and power generating potential of various river systems and other alternative energy sources.**



## THE GOAL

**“A fully functional independent State wherein by integrating resources development, Power and Irrigated Lands will be accessible to the citizens while contributing to regional food stability and sustaining economic growth”**



## Provide Water

**Sufficient water supply will mean that the effects of severe droughts are minimized or limited thus helping alleviate the burden on farmers to resort to auspicious crops.**



## Generate Power

**Afghanistan's hydropower generation potential is enough to provide sufficient energy to accommodate industrial infrastructures.**



## Sustain Growth

**Harnessing water and power will enable Afghanistan to have the capacity to build farmlands and industrial parks that could provide much needed jobs for its people.**



# WHAT?

What are the components and sub-programs of the NIPP?



## **Reconstruction and Rehabilitation**

**This subprogram aims to continue the work on uncompleted projects that was found to have great potential value to the people but have been held up by continuous strife through the years. It includes multi-purpose projects for irrigation as well as hydropower generation.**



# Reconstruction and Rehabilitation

REHABILITATION AND RECONSTRUCTION									
AFG Bud Ref	Project Title	Lead Ministry	1383			1384	1385	Beyond 1385	TOAL
			Exp Reqs	Funding Allocation	Gap	Exp Reqs	Exp Reqs	Exp Reqs	Exp Reqs
AFG/03369	Kunduz Khan Abad Irrigation & Power Project-Khan Abad Irrigation Plant	MolWE	3.00	0.00	3.00	10.00	10.00	5.00	28.00
AFG/03372	The Salma Dam Project-Feasibility Herat Province	MolWE	5.00	3.05	1.95	15.00	30.00	110.00	160.00
AFG/03370	Kajaki Gates and Kajaki Dam Rehabilitation and Srengthening	MolWE	0.00	0.00	0.00	5.00	7.00	9.00	21.00
NEW	Rebilitation of Nar e Lashkary in Nimroz province	MolWE	0.50	0.10	0.40	5.00	10.00	6.00	21.50
AFG/04579	Rehabilitation of Nationwide Small, Medium and Large Traditional Irrigation Schemes	MolWE	10.00	4.00	6.00	24.00	34.00	232.00	300.00
AFG/04563	Kamal Khan Irrigation and Lashkari Flood Control Project	MolWE	0.50	0.00	0.50	12.00	35.00	45.00	92.50
AFG/03146	Rehabilitation of Naghlu (100 MW) Hydro power plant	MoWP	8.00	8.00	0.00	18.00	4.00		30.00
AFG/04717	Rehabilitation of Hydro power plants pul-i-Khumri 2 and Darunta.	MoWP	4.00	4.00	0.00	10.00	9.00	0.00	23.00



# **Feasibility, Design and Implementation**

**This subprogram deals with work on medium and long term multi-purpose projects ensuring sustainable National economic development growth derived from the agricultural and power sectors**



# Feasibility, Design and Implementation

FEASIBILITY, DESIGN AND IMPLEMENTATION									
AFG Bud Ref	Project Title	Lead Ministry	1383			1384	1385	Beyond 1385	TOTAL
			Exp Reqs	Funding Allocation	Gap	Exp Reqs	Exp Reqs	Exp Reqs	Exp Reqs
AFG/03373	Kokcha Irrigation and Hydropower Plant	MoWE	0.70	0.00	0.70	5.00	25.00	35.00	65.70
AFG/03365	Farrud Basin Irrigation Rehabilitation - Urgent Rehabilitation of Canals & Drainage Systems	MoWE	0.75	0.00	0.75	1.70	10.00	38.80	51.25
AFG/05465	Warsej Storage Dam	MoWE	0.00	0.00	0.00	2.00	2.50	125.50	130.00
AFG/03378	Kelagai Storage Dam & Flood Control Project	MoWE	2.00	2.00	0.00	3.00	10.00	145.00	160.00
AFG/04560	Kabul Gutt Irrigation and Water Supply Storage Dam	MoWE	0.65	0.00	0.65	12.00	30.00	45.00	87.65
AFG/03377	Kama Irrigation and Power Project	MoWE	0.75	0.00	0.75	5.00	15.00	64.25	85.00
AFG/04571	Gambiri Irrigation Project		0.50	0.00	0.50	1.10	10.00	18.40	30.00
AFG/04572	Andkhai City Irrigation & Water Supply Pump Scheme	MoWE	0.00	0.00	0.00	5.00	10.00	60.00	75.00
AFG/03166	Feasibility Study for Sarobi II Hydro Power Plant	MoWP	0.00	0.00	0.00	2.00	3.00		5.00
AFG/03167	Pre- feasibility study for hydro Power Plants on Kokcha Koner revers.	MoWP	0.00	0.00	0.00	1.00	4.00		5.00
AFG/03176	Feasibility study for Shiberghan thermal power plant ,advisory services on private sector participation in development of Sheber Ghan power plant( DBO contract plus construction )	MoWP	3.50	3.50	0.00	1.50	50.00	75.00	130.00



# Energy Generation and Supply

**This subprogram involves work done on projects involving mostly non-hydro power generation and the distribution of power to end users with the construction and rehabilitation of transmission lines and city networks**



# Energy Generation and Supply

ENERGY GENERATION AND SUPPLY									
AFG Bud Ref	Project Title	Lead Ministry	1383			1384	1385	Beyond 1385	TOTAL
			Exp Reqs	Funding Allocation	Gap	Exp Reqs	Exp Reqs	Exp Reqs	Exp Reqs
AFG/03149	Diesel fuel, spare parts and engineering services for Kabul North West Gas Turbine Plant	MoWP	15.00	15.00	0.00	10.00	10.00		35.00
AFG/03163	Additional thermal electricity generation capacity in Kabul(Combined cycle)	MoWP	0.30	0.30	0.00	18.00			18.30
AFG/03177	Engineering , design study and construction 2X 220kV transmission line from Puli-khumri to Kabul ("the missing link") incl.220/110 KV S/S Kabul.	MoWP	2.00	2.00	0.00	48.00	24.50		74.50
AFG/03178	Rehabilitation and expansion of distribution networks in Kabul and other cities	MoWP	5.00	5.00	0.00	115.00	60.00	200.00	380.00
AFG/03182	Erection of 110kV transmission line from Andkoy 110 S/s to Maimana including 110/20kV, 2x16 Mw S/s at Maimana-Juma bazar and ? Faizabad with related distribution city netw0rk	MoWP	4.20	4.20	0.00	10.00			14.20
AFG/03230	Engineering and erection contracts to complete and expand distribution networksin kabul and provincial cities	MoWP	5.00	5.00	0.00	5.00	5.00	15.00	30.00
AFG/04403	Rehabilitation of provincial Diesel Station incl. related city networks; Diesel genrator leasing for Kandahar city.	MoWP	20.36	20.36	0.00	6.00	6.00	3.97	36.33
AFG/04726	Construction of Baghdara 4x70MW HPP	MoWP	0.00	0.00	0.00	20.00	200.00	410.00	630.00
AFG/04728	Construction of 110 KV transmission line Kunduz - Taloqan incl. 110 KV S/s and distribution network Taloqan	MoWP	0.00	0.00	0.00	4.00	0.00	0.00	4.00
AFG/04735	Construction of 2nd 110 KV transmission line Kajakai - Kandahar, rehabilitation of existing 110 KV lines reconstruction of 110/20 KV S/s Kandahar and Lashgargah, New 110 KV switching station ( junction)	MoWP	0.50	0.50	0.00	21.50	0.00	0.00	22.00



# Water Conservation

**This subprogram involves the formulation and implementation of water usage conservation projects such as Water harvesting and watershed management, and small storage dams**



# Water Conservation

WATER CONSERVATION									
AFG Bud Ref	Project Title	Lead Ministry	1383			1384	1385	Beyond 1385	TOTAL
			Exp Reqs	Funding Allocation	Gap	Exp Reqs	Exp Reqs	Exp Reqs	Exp Reqs
AFG/05462	Small Storage Dams for Rain Water Harvesting	MoiWE	0.30	0.30	0.00		10.00	100.00	110.30
AFG ----	Water Management Educational Program	MIWRE	0.25	0.00	0.25	1.00	1.50	0.25	3.00
AFG ----	Kabul River Valley Water Balance Study	MIWRE	0.65	0.00	0.65	0.20			0.85
AFG/03376	Uppler Amu Darya (Stage1)	MoiWE	0.00	0.00	0.00	1.50	2.00	1.00	4.50



# Bank Protection and Fluvial Mechanics

**This subprogram involves River training and riverbank stabilization program focusing upon fluvial mechanics with an underlying objective to restore agricultural lands in Afghanistan, particularly in Provinces bordering the Punj and Amu rivers and some other rivers in south and southwestern parts.**



# Bank Protection & Fluvial Mechanics

BANK PROTECTION AND FLUVIAL MECHANICS									
AFG Bud Ref	Project Title	Lead Ministry	1383			1384	1385	Beyond 1385	TOTAL
			Exp Reqs	Funding Allocation	Gap	Exp Reqs	Exp Reqs	Exp Reqs	Exp Reqs
AFG/ 05463	River Bank Protection Project	MolWE	10.00	0.00	10.00	30.00	40.00	200.00	280.00



# HOW MUCH?

How much does NIPP require?

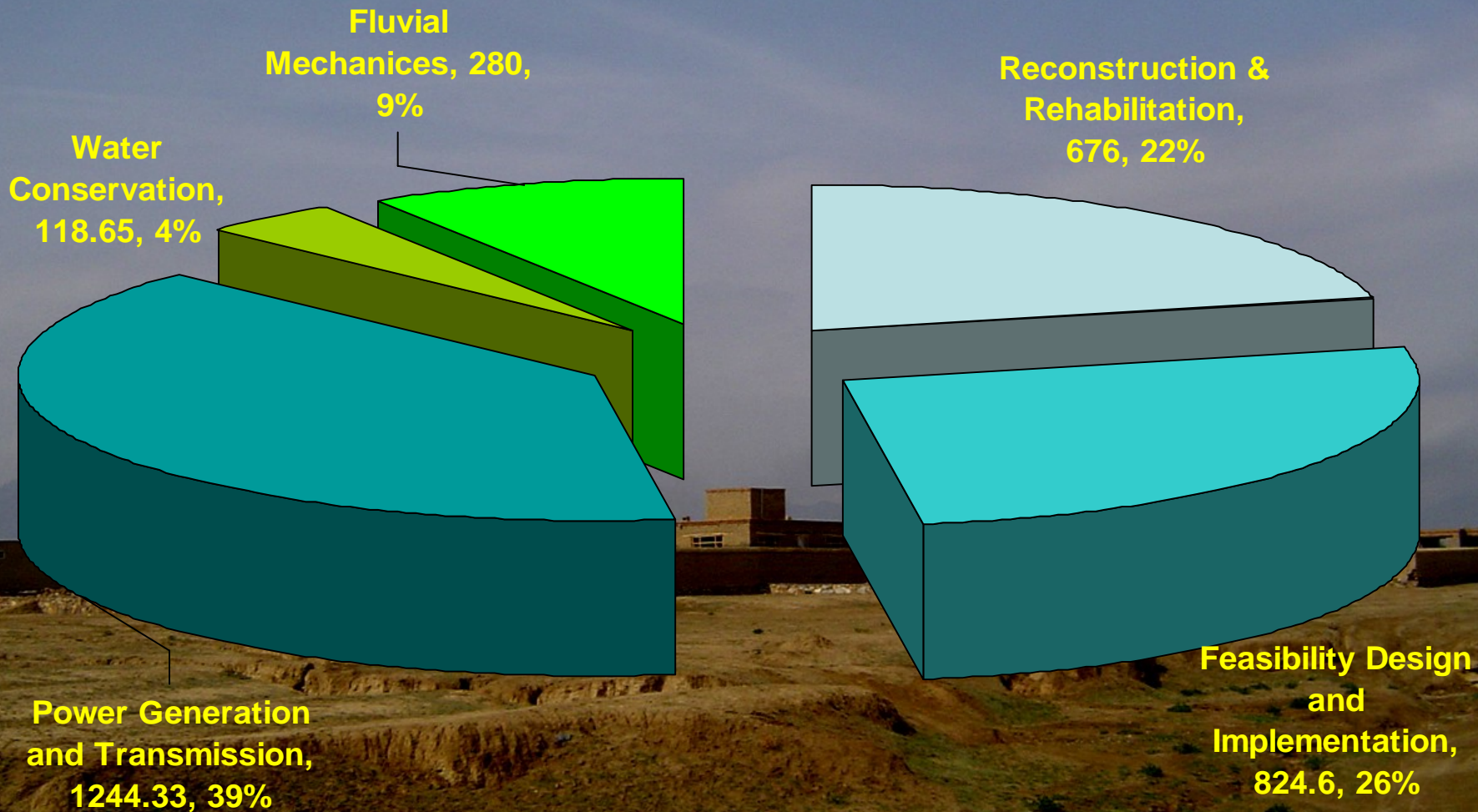


# National Irrigation and Power Program

## BUDGET SUMMARY FOR NIPP

AFG Bud Ref	Project Title	1383			1384	1385	Beyond 1385	TOTAL
		Exp Reqs	Funding Allocatio	Gap	Exp Reqs	Exp Reqs	Exp Reqs	
	Reconstruction and Rehabilitation	31.00	19.15	11.85	99.00	139.00	407.00	676.00
	Feasibility, Design and Implementation	8.85	5.50	3.35	39.30	169.50	606.95	824.60
	Energy Generation and Supply	52.36	52.36	0.00	257.50	305.50	628.97	1244.33
	Water Conservation	1.20	0.30	0.90	2.70	13.50	101.25	118.65
	Fluvial Mechanics	10.00	0.00	10.00	30.00	40.00	200.00	280.00
	<b>TOTAL</b>	<b>103.41</b>	<b>77.31</b>	<b>26.10</b>	<b>428.50</b>	<b>667.50</b>	<b>1944.17</b>	<b>3143.58</b>





- Reconstruction & Rehabilitation
- Feasibility Design and Implementation
- Power Generation and Transmission
- Water Conservation
- Fluvial Mechanics



# NIPP

## Abiding by National Principles



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# SOCIAL EQUITY

## National Irrigation and Power Program

**When irrigated land is made available to farmers, they are able to maximize the return of the land. This helps farmers be more productive thereby enabling them to have access to increased income.**

**Power is likewise vital to national growth and it produces the necessary jobs for Afghans. More company means more jobs and more jobs means more buying power for the people.**



# CAPACITY BUILDING

## National Irrigation and Power Program

**Institutional Capacity** is built up in the ministries as they tie up with experienced contractors and designers while implementing these projects.



# CAPACITY BUILDING

## National Irrigation and Power Program

MIRABS and other water users are consulted and are encouraged to participate in the implementation and construction of minor Irrigation and Hydropower projects thereby allowing access to **Human Capital**. This exposure gives local authorities the chance to take part through consultations and feedbacks. Most of these will be given the chance to participate in implementation.



# GENDER ISSUES

## National Irrigation and Power Program

The Project Coordination Unit of the Ministries, which is primarily involved with the design and implementation of the projects under the National Priority Program are comprised of men and women personnel. With this, we hope to promote **Gender Awareness and Equality** in the government sector.



# VULNERABLE GROUPS

## National Irrigation and Power Program

Farmers of different ethnicity from remote villages of the nation are considered one of the most **vulnerable groups** in Afghanistan.

Proper distribution of Irrigation Water and Power resource hopes to address the most vital needs of this sector and aims to promote welfare in these areas.



# STABILITY & SECURITY

## National Irrigation and Power Program

Drought and lack of power are the primary source of the uncertainty of the people. If this problems are addressed, a level of certainty is assured and people become more **Stable and secure.**



# PROVINCIAL EQUITY

## National Irrigation and Power Program

In order to assure **Provincial Equity**, the scope of the projects under the NIPP is broad-based and addresses the primary concern of equal distribution of resources. With the implementation of these various projects, it is foreseen that all the regions are benefited and will have access to Irrigation Water and Electricity.

