

# National Water Resources Plan (NWRP)

1- The supply of drinking water for domestic uses and the provision of sanitation services

2- The supply of water for industrial purposes and the provision of sewerage treatment facilities on a cost-recovery basis

3- The supply of water for irrigation based on a participatory approach

4- The protection of the water system from pollution, and the restoration of water Eco-systems

## Pillar-1 Developing additional Water Resources

## Pillar-2 Better using existing Water Resources

## Pillar-3 Water quality management

**Intervention 1.1**  
Add more conventional and non-conventional water resources to the country's water budget

**Intervention 2.1**  
Raise water use efficiency

**Intervention 2.2**  
Protect agricultural lands, improve soil fertility and productivity

**Intervention 2.3**  
Improve water distribution system to enhance water delivery

**Intervention 2.4**  
Improve water availability

**Intervention 3.1**  
Prevent/Minimize pollution of water resources

**Intervention 3.2**  
Treat polluted water resources

**Intervention 3.3**  
Control/match water uses with quality of water resources

**Measure 1.1.1**  
Continue co-operation with Nile riparians

**Measure 2.1.1**  
Continue irrigation improvement programs (IIP/IIIMP)

**Measure 2.2.1**  
Improve agricultural drainage

**Measure 2.3.1**  
Control well discharges in desert areas

**Measure 2.4.1**  
Coordinate irrigation supply and demand

**Measure 3.1.1**  
Minimize pollution of water courses from industries

**Measure 3.2.1**  
Expand wastewater treatment and sanitation services

**Measure 3.3.1**  
Define functions of waterways

**Measure 1.1.2**  
Develop groundwater in the Desert

**Measure 2.1.2**  
Expand on-farm improved water management

**Measure 2.2.2**  
Protect coastal zones

**Measure 2.3.2**  
Strengthen participatory irrigation management

**Measure 2.4.2**  
Continue planned horizontal expansion based on available water

**Measure 3.1.2**  
Introduce load-based discharge levies

**Measure 3.2.2**  
Initiate cost recovery for drinking water and sanitary services

**Measure 3.3.2**  
Reduce pollution to open waterways passing through residential areas

**Measure 1.1.3**  
Stimulate rainfall and flash floods harvesting

**Measure 2.1.3**  
Apply modern irrigation techniques in new lands and oases

**Measure 2.3.3**  
Continue canals and drains maintenance and extend aquatic weed biological control

**Measure 3.1.3**  
Enhance industrial effluent monitoring and control

**Measure 3.2.3**  
Promote treatment of industrial effluents

**Measure 3.3.3**  
Protect wells from pollution

**Measure 1.1.4**  
Increase seawater desalination and brackish groundwater use (in the coastal areas)

**Measure 2.1.4**  
Promote drainage water reuse in selected areas and expand intermediate drainage reuse

**Measure 2.3.4**  
Improve water distribution and control infrastructure

**Measure 3.1.4**  
Promote environmentally friendly and organic agriculture practices

**Measure 2.1.5**  
Promote growing salt-tolerant and short duration crops

**Measure 2.3.5**  
Rehabilitate and replace pumping stations

**Measure 3.1.5**  
Review cage culture on Nile and all waterways

**Measure 1.1.5**  
Improve management and increase pumping of shallow groundwater

**Measure 2.1.6**  
Improve drinking water availability and reduce losses

**Measure 2.3.6**  
Improve HAD & Lake Nasser

**Measure 2.1.7**  
Promote water saving technologies and practices in industry

**Measure 2.3.7**  
Protect and develop River Nile and its banks

**Measure 2.1.8**  
Expand the reuse of treated wastewater

**Measure 2.3.8**  
Provide rural solid waste management systems

**Measure 2.1.9**  
Study alternative operations of High Aswan Dam

**Measure 2.3.9**  
Maintain navigational channels in the Nile

**Measure 2.3.10**  
Restrict public water supply sources to Main Canals

## Enabling Environment

**Intervention 4.1**  
Improve planning capacity, financing and cooperation within the water sector

**Intervention 4.2**  
Expand family planning activities

**Measure 4.1.1**  
Capacity building

**Measure 4.1.6**  
Promote Private Sector participation in financing water infrastructure projects, operation and maintenance

**Measure 4.2.1**  
Expand family planning activities

**Measure 4.1.2**  
Intensify awareness campaigns & activities

**Measure 4.1.7**  
Promote national investment in the water sector

**Measure 3.1.3**  
Continue NWRC research studies

**Measure 4.1.8**  
Enhance planning processes

**Measure 4.1.4**  
Support survey and mapping within MWRI

**Measure 4.1.9**  
Establish permanent National Water Council

**Measure 4.1.5**  
promote decentralized restructuring of MWRI for future roles

**Pillar-1**  
**Developing additional Water Resources**

**Intervention 1.1**

**Add more conventional and non-conventional water resources to the country's water budget**

**Measure 1.1.1**  
**Continue co-operation with Nile riparians**

**Measure 1.1.2**  
**Develop groundwater in the Desert**

**Measure 1.1.3**  
**Stimulate rainfall and flash floods harvesting**

**Measure 1.1.4**  
**Increase seawater desalination and brackish groundwater use (in the coastal areas)**

**Measure 1.1.5**  
**Improve management and increase pumping of shallow groundwater**

# Pillar-2

## Better using existing Water Resources

### Intervention 2.1

#### Raise water use efficiency

**Measure 2.1.1**  
Continue irrigation improvement programs (IIP/IIIMP)

**Measure 2.1.2**  
Expand on-farm improved water management

**Measure 2.1.3**  
Apply modern irrigation techniques in new lands and oases

**Measure 2.1.4**  
Promote drainage water reuse in selected areas and expand intermediate drainage-reuse

**Measure 2.1.5**  
Promote growing salt-tolerant and short duration crops

**Measure 2.1.6**  
Improve drinking water availability reduce losses

**Measure 2.1.7**  
Promote water saving technologies and practices in industry

**Measure 2.1.8**  
Expand the reuse of treated wastewater

**Measure 2.1.9**  
Study alternative operations of High Aswan Dam

### Intervention 2.2

#### Protect agricultural lands, improve soil fertility and productivity

**Measure 2.2.1**  
Improve agricultural drainage

**Measure 2.2.2**  
Protect coastal zones

### Intervention 2.3

#### Improve water distribution system to enhance water delivery

**Measure 2.3.5**  
Rehabilitate and replace pumping stations

**Measure 2.3.6**  
Improve HAD & Lake Nasser

**Measure 2.3.7**  
Protect and develop River Nile and its banks

**Measure 2.3.8**  
Provide rural solid waste management systems

**Measure 2.3.9**  
Maintain navigational channels in the Nile

**Measure 2.3.10**  
Restrict public water supply sources to Main Canals

### Intervention 2.4

#### Improve water availability

**Measure 2.4.1**  
Coordinate irrigation supply and demand

**Measure 2.4.2**  
Continue planned horizontal expansion based on available water

**Measure 2.3.1**  
Control well discharges in desert areas

**Measure 2.3.2**  
Strengthen participatory irrigation management

**Measure 2.3.3**  
Continue canals and drains maintenance and extend aquatic weed biological control

**Measure 2.3.4**  
Improve water distribution and control infrastructure

## **Pillar-3**

### **Water quality management**

#### **Intervention 3.1**

**Prevent/Minimize pollution of water resources**

**Measure 3.1.1**  
Minimize pollution of water courses from industries

**Measure 3.1.2** Introduce load-based discharge levies

**Measure 3.1.3**  
Enhance industrial effluent monitoring and control

**Measure 3.1.4**  
Promote environmentally friendly and organic agriculture practices

**Measure 3.1.5**  
Review cage culture on Nile and all waterways

#### **Intervention 3.2**

**Treat polluted water resources**

**Measure 3.2.1**  
Expand wastewater treatment and sanitation services

**Measure 3.2.2**  
Initiate cost recovery for drinking water and sanitary services

**Measure 3.2.3**  
Promote treatment of industrial effluents

#### **Intervention 3.3**

**Control/match water uses with quality of water resources**

**Measure 3.3.1**  
Define functions of waterways

**Measure 3.3.2**  
Reduce pollution to open waterways passing through residential areas

**Measure 3.3.3**  
Protect wells from pollution

## Enabling Environment

### Intervention 4.1

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