COMMISSION

Publication of main points of decisions to grant financial assistance under Regulation (EC) No 1164/94 establishing a Cohesion Fund

(98/C 112/01)

LIST OF PROJECTS

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</table>
PROJECT No: 94/09/61/004

1. **Project title:** Biological treatment Phase B’ Works in Psyttalia

2. **Authority making the application:**
   2.1. **Name:** Ministry of the National Economy, Greece
   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**
   3.1. **Name:** Ministry of the Environment, Planning and Public Works
   3.2. **Address:** 182, Charilaou Trikoupi 10178 Athens

4. **Location:**
   4.1. **Member State:** Greece
   4.2. **Region:** Attica

5. **Description:**

   **Existing**

   In the existing area Psyttalia — Akrokeramos, the following works of waste water primary treatment-phase A’ have been constructed:
   - Division chamber of sewage flow
   - Supplementary main sewer pipe (SKAA)
   - Primary sewage treatment works in Akrokeramos (debris removal, lift pumping station, screening, grit removal)
   - Inverted siphon pipes between Akrokeramos and Psyttalia
   - Works of sewage treatment in Psyttalia (primary treatment — sedimentation, sludge thickening, anaerobic digestion, sludge dewatering)
   - Outfall pipelines of treated sewage to the sea south of Psyttalia island

   **Proposed:**

   Phase B’ works of the biological waste water treatment constitutes the completion and extension of the existing works to provide biological treatment of the sewage in Psyttalia with a time horizon of the works to the year 2020 and an average dry weather flow of 1 000 000 m³/day.

   The project comprises:

   (a) The design and construction of the works for the secondary (biological) treatment of the primary sewage with an average dry weather flow of 1 000 000 m³/day and more specifically the works shall include:

   1. Excavations — disposal of surplus material from the island — approximately 1.5 million m³.
   2. Primary effluent screw lift pumping station — six screw pumps each 3,2 m³/sec capacity, together with associated mechanical/electrical equipment.
   3. Return activated sludge (RAS) and surplus activated sludge (SAS) pumping station — minimum total RAS pumping capacity 18 m³/sec and minimum SAS total pumping capacity of 600 l/sec, together with all associated mechanical/electrical equipment.
   4. Bio-reactors of minimum 12 identical tanks, including anoxic and aerobic zones together with aerators, mixers, pipe work, pumps, etc. Minimum total bio-reactor capacity 200 000 m³.
   5. Air Blower House, including a minimum of eight compressors to achieve a minimum total capacity of 550 000 m³/hour of air, including all air filters, pipe work, etc.
   6. Final Settlement Tanks of minimum surface area 44,200 m², including ‘flight’ scrapers, sludge and scum removal equipment and all ancillary equipment.
   7. SAS mechanical thickening plant of sufficient capacity to thicken a SAS of 0.55—0.80 % solids content to a final product of 6.5 % dry content. Including a buffer tank, pumps, polly-electrolyte preparation units and all ancillary equipment.
   8. Sludge digestion plant, including a minimum of four anaerobic digestors (minimum total capacity 40 000 m³) — sludge mixing tank, pumping station, sludge heat exchangers, boilers, sludge mixing system, biogas compressors and ancillary equipment.
   9. Sludge storage tanks of minimum total capacity 7 160 m³.
   10. Sludge dewatering plant with the capacity to cater for, in conjunction with the existing phase A plant, a digestive sludge of total dry solids content of 210 000 kg per day, and produce a final sludge cake of minimum 28 % dry solids content. Including pumps, polyelectrolyte
preparation units and all ancillary equipment.

11. Biogas holder of minimum capacity 5,600 m³ together with gas burner and ancillary equipment.

12. Site services, including industrial effluent system channels, pipework, pumping mains, valve chambers, flow metering, irrigation system, etc.

13. Site works, including roads, footpaths, fencing and landscaping.

14. Electrical power distribution which comprises switchboards, transformers, cabling, earthing, Scada system, site lighting and lighting protection.

15. Electrical power supply which will include the provision of a 150/20 kV substation, on Akrokeramos, including transformers, protection and distribution switchgears, etc. The provision of twin 20 kV cables from the Akrokeramos substation to the Psyttalia substation and works to supply the phase B-plant from the Public Power Corporation high voltage network.

16. The commissioning and testing of the works during the last six months period of the construction programme.

17. The training of EYDAP staff on the project during the last two years of the five years operation and maintenance of the project by the contractor.

(b) Also, in the phase B’ project there will be included the submission of design for the final sludge treatment disposal, the preparation of the tender documents and the construction of works for the treatment of the final sludge product from the primary and biologically sewage treatment.

(c) Since April 1995 a technical consultant has been appointed for the provision of Services regarding the design, preparation of tender documents, and supervision of the construction of the above works.

(d) Programme for monitoring the quality of the Saronic Gulf waters.

(e) Programme for information and publicity.

6. Objectives:

A further improvement of the environmental conditions in the area of the Keratsini Drapet-sona, Piraeus and Perama Municipalities and the sea environment of the greater Saronic Gulf area with the biological treatment of the sewage.

The biological treatment will ensure the removal of the organic load to a degree as to comply to the requirements, for the Directive 91/271/EEC. In particular it shall ensure final effluent in the treated sewage (at the outlet) with concentrations of 25 mg/l for BOD, 35 mg/l for SS and 125 mg/l for COD on a 93% compliance, based on daily sampling for a period of one year.

7. Work schedule:

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designs</td>
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<tr>
<td>Main works</td>
<td>July 1997</td>
<td>July 2000</td>
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<td>Testing/commissioning</td>
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<td>Operation/maintenance</td>
<td>January 2001</td>
<td>December 2005</td>
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</table>

The above work schedule is the fastest possible from a technical point of view.

8. Economic and social cost-benefit analysis:

The project is not expected to provide economic benefits, but it will be financially sustainable. However, there will be considerable social-economic benefits from the improvement of the environment in the greater Athens area.

9. Environmental impact analysis:

The assessment of the project is that it will have no adverse consequences on the environment but, to the contrary, it will contribute to its improvement. The approved environmental conditions will with the Ministry's Approval No 35775 of 30 December 1994 have been included in the Contract Documents of the Works and its application is the pre-requisite for the Construction and Operation of the plant and the attainment of its goals.

The goals of the project addresses a priority objective of the Mediterranean Action Plan as stated by the Genoa declaration.

10. Cost and assistance:

Total cost: ECU 152 182 000

Eligible costs (after 06. 07. 1994): ECU 152 182 000

Rate of assistance: 85%

Cohesion Fund assistance: ECU 129 354 700
11. **Special conditions of application on the project:**

(a) The Greek authorities should present within three months after the signature of the present decision a sound concept for sewage sludge treatment and disposal.

(b) The Greek authorities should present within three months after the signature of the present decision a monitoring programme for the water quality in the Saronic Gulf.

(c) The Greek authorities should present within three months after the signature of the present decision a detailed programme for improving the state of the existing sewage collection system, including survey and assessment of the existing network, elimination of clear water and not pretreated industrial waste water as well as the effluents from Metamorfosis Treatment Plant.

(d) The Greek authorities should establish within 18 months after the signature of the present decision a comprehensive tariff study, taking into account the investment costs and above all the operation and maintenance costs for Psyttalia.

(e) The Greek authorities commit themselves that the operation and maintenance costs for Psyttalia will be covered by the relevant revenues of water charges.

---

**ANNEX**

**FINANCING PLAN**

Project No: 94/09/61/004

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost</th>
<th>Public expenditure</th>
<th>Cohesion Fund</th>
<th>National authorities</th>
<th>Private sector</th>
<th>Community loans</th>
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<tbody>
<tr>
<td></td>
<td>(in ECU)</td>
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<td>%</td>
<td>%</td>
<td>Total</td>
<td>%</td>
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<td>100</td>
<td>100</td>
<td>129 354 700</td>
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</tbody>
</table>

(1) Total eligible cost of project.
1. **Project title:**

   Flood control works for the protection of the low-lying coastal areas of the Thessaloniki, Khalastra and Kalochorio plain

2. **Authority making the application:**

   2.1. **Name:** Ministry of the National Economy
   
   2.2. **Address:** Nikis 5
   
   Platia Syntagmatos
   
   10180 Athens

3. **Authority responsible for implementation:**

   3.1. **Name:** Ministry of Regional Planning, the Environment and Public Works
   
   3.2. **Address:** Charilaou Trikoupi 182
   
   10178 Athens

4. **Location:**

   4.1. **Member State:** Greece
   
   4.2. **Region:** Central Macedonia

5. **Description:**

   The project about flood control works for the protection of the low-lying coastal areas of the Thessaloniki, Khalastra and Kalochorio plain comprises the following;

   Position 1: Rock-fill coastal dike (0,50—500 kg) 141 m long.
   
   Position 2: Rock-fill coastal dike (0,50—820 kg) 1 407 m long and widening of a dike along 104,5 m.
   
   Position 3: Rock-fill coastal dike (0,50—700 kg) 1 898 m long.
   
   Position 4: Rock-fill coastal dike (30—500 kg) 185 m long with cut-off sheet piling along 1 950 m.
   
   Position 5: Heightening and widening of flood-prevention dike at Kalochorio and strengthening of shielding with rock-fill (0,50—1 100 kg) along 3 000 m, sporadically, where required.

6. **Objectives:**

   Protection of the existing coastal dike in the Kalochorio and Khalastra region from further corrosion by the sea.
   
   Protection of the existing coastal dike KS. ditch — bridge from corrosion and landslide.
   
   Reinforcement of the protection of the existing dike of the of Kalochorio lagoon.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
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<td>Land acquisition</td>
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<td>31.12.1998</td>
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</table>

8. **Economic and social cost-benefit analysis**

   The ration cost-benefits is B/C= 1.

   Impact on the employment: the number of jobs expected to be created during the implementation phase is directly 50 and indirectly 20.

   Main beneficiaries: the inhabitants of Kalochorio—Khalastra and the surrounding region.

9. **Environmental impact analysis:**

   The protection of the Kalochorio village, of the road network and of the ditch T9 from the flood. This ditch is the reception of the outcome of the Thessaloniki biological treatment plant on Gallikos river.

   During the execution of the works the Environmental Conditions No 45535 of 10 December 1996 issued by the Ministry of Environment have to be followed.

10. **Cost and assistance:**

    **Total cost:** ECU 3 278 000

    **Eligible costs (after 11. 07. 1994):** ECU 3 278 000

    **Rate of assistance:** 80%

    **Cohesion Fund assistance:** ECU 2 622 400
## ANNEX

### FINANCING PLAN

**Project No:** 94/09/61/007

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(1) Total eligible cost of project.
1. **Project title:**
Capacity augmentation of Mornos aqueduct downstream part of Kitheronas aqueduct

2. **Authority making the application:**
2.1. **Name:** Ministry of National Economy
2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**
3.1. **Name:** Athens Water Supply and Sewerage Company
3.2. **Address:** Oropou 156 11146 Galatsi

4. **Location:**
4.1. **Member State:** Greece
4.2. **Region:** Central Greece

5. **Description:**
Augmentation of the capacity of the Mornos aqueduct by means of the construction of a complementary pipeline aqueduct from the exit of Kitheronas tunnel to the water treatment plants of Mandra and Menidi.

**Stage A**

The complementary aqueduct will have the capacity to supply the Mandra and Menidi plants with flows that have been deemed to be up to 6.6 m³/s and 5.6 m³/s respectively and to supply the existing (Mornos) canal at a location downstream of regulation point L 13 with flow up to 7.2 m³/s as well as finally to supply untreated water towards the Helidonous installation and the Galatsi WTP without using the Morns canal with flow rates that will be determined in connection with the new pipeline from Menidi to Helidonous, currently under study.

The project (length 28 km) starts from the exit of the Kitheronas tunnel (A) and runs for the first kilometres in the Sarantapotamos river bed. It subsequently branches off at the point where it meets the road to the Mandra purification plan (B), with one branch leading to the plant (C) and having the ability to supply either the plant or directly the canal downstream of regulation point L 13 (D). The other branch leads to the Menidi treatment plant (E), following an alignment through the Thriassio plain and, along the last part of the Morns canal, up to Menidi.

The project has been divided into the following major elements:

1. **1st Project Element:** Comprise the pipelines of 2 000 mm and 1 800 mm diameter except for the sections which will be laid in the Sarantapotamos river bed and a section parallel to the existing canal north of Ano Liosia.

2. **2nd Project Element:** is the pipeline of 2 000 mm diameter laid in the Sarantapotamos river bed.

3. **3rd Project Element:** is the pipeline of 2 000 mm diameter laid alongside and parallel to the Morns canal at the section north of Ano Liosia.

4. **4th Project Element:** Comprises the works for water abstraction from the Kitheronas tunnel and the required head works.

5. **5th Project Element:** Comprises the works for the outlet of the 1 800 diameter pipeline into the existing Morns canal, upstream of the Mandra treatment plant.

6. **6th Project Element:** Comprises the works for the outlet of the 1 800 diameter pipeline into the existing inlet works at the Menidi treatment plan and the works for the subsequent connection of the project with the Menidi — Helidonous pipeline for untreated water, currently under design.

7. **7th Project Element:** Comprises the works for the crossing of the 2 000 diameter pipeline under the Spata- Eleusina motorway.

8. **8th Project Element:** Comprises the works for the outlet of the 2 000 diameter pipeline into the existing inlet works at the Menidi treatment plan and the works for the subsequent connection of the project with the Menidi — Helidonous pipeline for untreated water, currently under design.

**Part of Stage B**

Studies related to the static reinforcement, heightening and covering of the existing Morns aqueduct downstream of Kitheronas tunnel.

6. **Objectives:**

Improvement of the safety and reliability of the existing water supply system of Athens in relation to any emergency conditions or a prolonged drought.

More specifically, the construction of the 2 000 diameter line will contribute to the more efficient utilization of the high elevation reservoirs...
(Evinos, Mornos), by augmenting the existing Mornos aqueduct downstream of Kitheronas which, under certain conditions, is already insufficient (present capacity 11 m$^3$/s). It will also supply the treatment plants with water of lower transportation cost (and in total with a capacity exceeding 20 m$^3$/s).

7. Work schedule:

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
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</thead>
<tbody>
<tr>
<td>Operation</td>
<td>31.12.1999</td>
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</tr>
</tbody>
</table>

8. Economic and social cost-benefit analysis:

Benefit to cost ratio (B/C) 1.07, internal rate of return (8.56%). The economic viability of the works increases with increasing number of wet years.

The social benefits of the proposed works become apparent from the impact that would arise from their non-construction, i.e. from the continuation of the unreliable operation of the existing aqueduct, but also the lack of sufficient spare capacity for the response to emergency situations. In addition to the above, the construction of the works will result in employment benefits (150 temporary and 5—8 permanent employment position).

9. Environmental impact analysis:

The project does not impact negatively on the environment. However, during its construction, the Environment Conditions of Decision reference 84214 dated 11.3.97 of the Ministry of the Environment, Land Planning and Public Works will need to be observed.

10. Cost and assistance:

Total cost: ECU 36 447 098
Eligible cost (after 1.9.1994) ECU 31 158 000
Rate of assistance: 85%
Cohesion Fund assistance: ECU 26 484 300

11. Special conditions:

The Greek authorities undertake to appoint a project manager for the range AWSSC projects financed from the Cohesion Fund.

ANNEX

FINANCING PLAN

Project No: 94/09/61/011-9

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost(1)</th>
<th>Total public expenditure</th>
<th>Cohesion Fund</th>
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<th>Private sector</th>
<th>Community loans</th>
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</table>

(1) Total eligible cost of project.
PROJECT No: 94/09/61/025

1. **Title:**
   Waste-water disposal for the region of Khania-Kolimvari, Khania-Maleme section in Crete

2. **Body making the application:**
   2.1. **Name:** Ministry of the National Economy
   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**
   3.1. **Name:** OADIK, Khania
   3.2. **Address:** Ministry for the Interior, Stadiou 27, Athens

4. **Location:**
   4.1. **Member State:** Greece
   4.2. **Region:** Crete

5. **Description:**
   **Waste-water disposal**
   
   Supply of rainwater pipes 1 794 m
   Supply of waste-water pipes 26 511 m
   Laying of rainwater pipes (not including supply) 4 916 m
   Laying of waste-water pipes (not including supply) 36 680 m
   Standard manholes for waste-water system 980 unit
   Structural part of pumping stations 6 unit
   Electromechanical equipment of pumping stations 6 unit
   Outfall (underground section) 1 800 m
   Outfall (underwater section) 1 200 m
   **Biological treatment plant**
   Repurchase of site 50 ha
   Entrance well — grit channel 1 unit
   Aeration tank 1 unit
   Settling tank 1 unit
   Sludge pumping station 1 unit
   Chlorination tank 1 unit
   Sludge thickening tank 1 unit
   Sludge dehydration building (band filters) 1 unit
   Administrative building 1 unit
   Other structural work 100%

6. **Aims**
   To complete the region’s waste-water disposal system and build a waste-water treatment plant with a capacity to serve 30 000 inhabitants and the possibility of extension to 60 000 inhabitants in the future. The project complies with Directive 91/271/EEC.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main work</td>
<td>1.9.1995</td>
<td>31.12.1999</td>
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</tbody>
</table>

8. **Assessment of costs and socio-economic advantages:**
   There is rapid tourism development in the Khania-Kolimvari area, with large-scale tourist accommodation being built. At the same time, the permanent population of the area has increased substantially in the last 10 years. These developments require a proper waste-water disposal system and the construction of the biological treatment plant.

   The project is clearly in the public interest. It will improve the standard of living of the permanent population and the tourists visiting the town (public health). The project will also contribute to the economic development of the area and, in the long term, to decentralization.

9. **Environmental impact analysis:**
   The Gulf of Khania and the sea around the area of Kolimvari-Maleme have suffered serious pollution as the receptor for sewage. The area is environmentally sensitive because it contains the
Agia Keriti biotope and is of special importance for the protection of fish and birds. The project must fulfil the conditions of Decision No 30747 of the Ministry for the Environment, Regional Planning and Public Works of 31 May 1994 and Decision No 84427 of 10 October 1996 amending Decision No 30747.

10. **Cost and assistance:**

Total cost: ECU 8 103 633

Rate of assistance: 80 %

Cohesion Fund assistance: ECU 6 482 906

---

**ANNEX**

**FINANCING PLAN**

Project No: 94/09/61/025

<table>
<thead>
<tr>
<th>Year</th>
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\(^{(1)}\) Total eligible cost of project.
PROJECT No: 94/09/61/029-1

1. **Title:**

Waste-water treatment facilities for Patras

2. **Body making the application:**

2.1. **Name:** Ministry of the National Economy

2.2. **Address:** Platia Syntagmatos

10180 Athens

3. **Authority responsible for implementation:**

3.1. **Name:** DEYA (State Company for Water Supply and Drainage), Patras

3.2. **Address:** Ministry for the Interior

Stadiou 27

Athens

4. **Location:**

4.1. **Member State:** Greece

4.2. **Region:** Peloponnese

5. **Description:**

5.1. Purchase of 80 hectares of land

5.2. Extension of the city’s central sewage collector from the point at which it terminates to the point of entry to the treatment plant (630 m). Connection to the pumping station at the entrance to the plant.

5.3. Entrance works

1. Pumping station to lift the waste water

2. Coarse screening facilities

3. Facilities for desanding and oil and grease removal

4. Initial settling tanks

5. Aeration tanks

6. Final settling facilities

7. Decontamination facilities

8. Sludge thickening facilities

9. Sludge dehydration facilities

10. Facilities for anaerobic digestion of sludge — biogas

11. Construction of bypass pipelines

12. Tertiary treatment facilities

13. Water-supply and rainwater drainage systems

14. Landscaping and construction of access road

15. Automation

16. Substation for electric lighting, low voltage

17. Buildings (for administration, housing the units, auxiliary purposes)

18. Fixed and movable equipment, tools, instruments, etc.

19. Training for personnel

20. Operating trials during 24 months.

5.4. Pipeline for discharge of treated waste water

— underground section 225 m

— underwater section 765 m

5.5. Study on developing uses for biogas

5.6. Use of the treated waste water to replenish the water table.

6. **Aims:**

To build and operate waste-water treatment facilities described at 5.1. in accordance with Directive 91/271/EEC, to benefit 150 000 permanent residents of Patras.

7. **Work schedule:**

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<thead>
<tr>
<th>Category of work</th>
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<tbody>
<tr>
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8. **Assessment of costs and socio-economic advantages:**

The project is in the public interest given that Patras is the third largest city in Greece after Athens and Thessaloniki and a major industrial and cultural centre. Its population has been growing rapidly since 1981. In addition the port of Patras is the Greek gateway into Europe, particularly following the events in ex-Yugoslavia. The increase in both the permanent population and the number of tourists is putting pressure on the standard of living of the residents (public health) and the environment in general. The proposed project is designed to solve these problems.
9. **Environmental impact analysis:**

The project contributes to improving the collection, treatment and discharge of waste water with a view to gradually cleaning up the natural receptor (the Gulf of Patras).

The project must meet the conditions of Decision No 30339 of the Ministry of the Environment, Regional Planning and Public Works of 20 June 1994.

10. **Cost and assistance:**

   Total cost: ECU 16 900 000

   Rate of assistance: 80%

   Cohesion Fund assistance: ECU 13 520 000

---

**ANNEX**

**FINANCING PLAN**

Project No: 94/09/61/029-1

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Total public expenditure</th>
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(1) Total eligible cost of project.
1. **Title:**

Definitive rehabilitation of the waste disposal site at Skhistos

2. **Body making the application:**

   2.1. **Name:** Ministry of the National Economy
   
   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**

   3.1. **Name:** Association of municipalities of southern Attika
   
   3.2. **Address:** Ministry for the Interior Stadiou 27 Athens

4. **Location:**

   4.1. **Member State:** Greece
   
   4.2. **Region:** Attika

5. **Description:**

   - Studies and research (environmental impact assessment, final design)
   
   - Drainage work
   
   - Biogas management
   
   - Purchase and installation of biogas reclamation unit
   
   - Construction of the cover and slopes
   
   - Landscaping
   
   - Rainwater drainage
   
   - Site clearance and layout
   
   - Facilities for new uses
   
   - Purchase and installation of monitoring systems
   
   - Purchase of mobile equipment for the operation and maintenance of the site after completion

6. **Aims:**

Rehabilitation of the former tip. Protection of the environment.

7. **Work schedule:**

<table>
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<tr>
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8. **Assessment of costs and socio-economic advantages:**

Improvement of the quality of life and public health of the inhabitants.

9. **Environmental impact analysis:**

Protection of the environment and prevention of pollution from dumping of solid waste. New waste management system.

The project must comply with all the terms of Decision No 82321 of 23 July 1997 of the Ministry of the Environment, Spatial Planning and Public Works.

10. **Cost and assistance:**

   - Total cost: ECU 10 440 139
   
   - Rate of assistance: 80 %
   
   - Cohesion Fund assistance: ECU 8 352 111

11. **Special provisions:**

The beneficiary of the project must take account of the studies and data from other Community projects with the same object (rehabilitation of landfill sites) and in particular the pilot project financed under the Medspa programme (1991) for the environmental rehabilitation and creation of a nursery on the landfill site at Skhistos, including utilization of the biogas produced by the site.
## ANNEX

### FINANCING PLAN

Project No: 94/09/61/034-1

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(1) Total eligible cost of project.
PROJECT No: 94/09/61/035

1. **Title:**
Rehabilitation of sanitary landfill sites and design and construction of a complete transit station for Thessaloniki.

2. **Body making the application:**

2.1. **Name:** Ministry of the National Economy

2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**

3.1. **Name:** OTA Association, Thessaloniki

3.2. **Address:** Ministry for the Interior Stadiou 27 Athens

4. **Location:**

4.1. **Member State:** Greece

4.2. **Region:** Macedonia

5. **Description:**

1. Rehabilitation of the entire old landfill site at Thermi
2. Rehabilitation of the old landfill site at Derveni
3. Restructuring and improvement of the management of the sanitary landfill sites in the eastern sector
4. Design and construction of a complete station for managing the transit of waste for Thessaloniki

Specifically:

A.1. Project title: *Rehabilitation of the entire old landfill site at Thermi*

2. Work to be carried out:
   - environmental impact analysis, topographical operations, preparation of invitation to tender 1
   - control boring 1
   - surface works 1
   - insulation of the surface and shielding of fuel pipeline 1
   - construction of filters 1
   - fencing 1
   - construction of biogas exhaust shafts 1
   - lining slopes 1
   - construction of a perimeter ditch 1
   - purchase and installation of equipment and materials (plants, fertilizer, soil, etc.) 1
   - installation and operation of irrigation system 1
   - construction of facilities for public use 1

B.1. Project title: *Rehabilitation of the old landfill site at Derveni*

2. Work to be carried out:
   - topographical operations, study on the volume of waste, environmental impact analysis 1
   - construction of a network of sampling boreholes 1
   - final insulation 1
   - drainage management 1
   - rainwater management 1
   - landscaping and irrigation 1
   - rehabilitation work 1
   - purchase of scientific equipment 1
   - infrastructure work (electrification, lighting, security, etc.) 1
   - work to strengthen the embankments 1

C.1. Project title: *Restructuring and improvement of the management of the sanitary landfill sites in the eastern sector (Kalamaki-Tagarades)*

2. Work to be carried out:
   - environmental impact analysis 1
   - geological and hydrogeological study 1
   - biogas study 1
   - topographical operations 1
   - construction of a network of sampling boreholes 1
   - insulation of the area to be rehabilitated 1
   - earthworks for final relief 1
   - construction of biogas collection network 1
D.1. Project title: *Design and construction of a complete station for managing the transit of waste for Thessaloniki*

2. Work to be carried out:

Closed circuit system for compacting and transit with a capacity of 600 t/16 hours, with the following components:

- reception and unloading area
- hoppers
- compactors
- odour and dust elimination system
- containers and tractors with a capacity of 600 t/16 hours
- weigh bridge with weighing unit
- refuelling station
- automatic washing of vehicles and containers
- system for the pre-processing and collection of liquid waste at the transit station
- Water storage tank with pumping unit
- Parking and waiting space, manoeuvring space, staff car park
- administrative building with control room (manager’s office, offices for surveillance and administrative staff, canteen, toilets, warehouse and boiler room)
- fencing with electrically-operated metal gates and barriers
- fire protection system and electricity station
- landscaping of surrounding area
- two-way access route
- publicity.

6. **Aims:**

1. To improve and protect the environment by rehabilitating the old landfill sites and planting plants, bushes and trees and carrying out work to enhance and develop the sites at Therimi, Derveni and Tagarades.

2. To build and operate a waste transit station to serve 600 000 to 800 000 inhabitants. The station will be located to the north of the Thessaloniki conurbation at Derveni.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main work</td>
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</table>

8. **Assessment of costs and socio-economic advantages:**

- Improvement in the quality of life and public health of the inhabitants.
- Jobs created during implementation of the project:
  - Direct: 79
  - Indirect: 500
- Jobs created by operation of the station:
  - Direct: 247
  - Indirect: 20
- The construction of the waste transit station will contribute:
  - (a) to reducing the distance waste is transported from 23—38 km to 8—10 km, with a consequent saving in fuel and prevention of wear and tear of up to 55%,
  - (b) to reducing the pressure of traffic on the roads,
  - (c) to lengthening the life of the vehicles,
  - (d) to making better use of the workers and equipment of the management body,
  - (e) to reducing the total cost of waste management.
9. **Environmental impact analysis:**
   - Protection and enhancement of the environment. Prevention of pollution from the disposal of solid waste.
   - Operation of the waste transit station will reduce the pollutants from vehicles contaminating the environment, reduce noise and improve the quality of life.
   - The project must comply with the following Decisions of the Ministry of the Environment, Regional Planning and Public Works:
     - for Derveni: No 82408 of 3 September 1996
     - for Tagarades: No 82409 of 5 September 1996
     - for Thermi: No 82432 of 21 August 1996.

10. **Cost and assistance:**
    
    **Project No 1:** Rehabilitation of the entire old landfill site at Thermi
    
    Total cost: ECU 2,420,000
    
    Rate of assistance: 80%
    
    Cohesion Fund assistance: ECU 1,936,000
    
    **Project No 2:** Rehabilitation of the old landfill site at Derveni
    
    Total cost: ECU 4,966,887
    
    Rate of assistance: 80%
    
    Cohesion Fund assistance: ECU 3,973,510
    
    **Project No 3:** Restructuring and improvement of the management of the sanitary landfill sites in the eastern sector (Kalamaki-Tagarades)
    
    Total cost: ECU 7,751,421
    
    Rate of assistance: 80%
    
    Cohesion Fund assistance: ECU 6,201,137
    
    **Project No 4:** Design and construction of a complete station for managing the transit of waste for Thessaloniki
    
    Total cost: ECU 3,973,509
    
    Rate of assistance: 80%
    
    Cohesion Fund assistance: ECU 3,178,807

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**ANNEX**

**FINANCING PLAN**

Project No: 94/09/61/035

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<th>Year</th>
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(1) Total eligible cost of project.
PROJECT No: 94/09/61/041-1

1. **Title:**

Biological sewage treatment plant at Iraklion

2. **Body making the application:**

2.1. **Name:** Ministry of the National Economy

2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**

3.1. **Name:** DEYA (State Company for Water Supply and Drainage), Iraklion

3.2. **Address:** Ministry for the Interior Stadiou 27 Athens

4. **Location:**

4.1. **Member State:** Greece

4.2. **Region:** Crete

5. **Description:**

1. Waste water treatment plant for the city of Iraklion

   (a) Inflow and by-pass installations and connections unit 100%
   (b) Lift station unit 100%
   (c) Inflow and balancing installation for effluent from septic tanks unit 100%
   (d) Pretreatment (coarse screening/ degritting, etc.) unit 100%
   (e) Primary settling tank unit 100%
   (f) Aeration tank unit 100%
   (g) Secondary settling tank unit 100%
   (h) Sludge pumping station unit 100%
   (i) Consolidation tank unit 100%
   (j) Sludge digestion unit unit 100%
   (k) Mechanical dehydration unit 100%
   (l) Administration building and annexes unit 100%
   (m) Mains net unit 100%
   (n) Electrical power systems unit 100%
   (o) Installation for the decontamination of liquid waste unit 100%
   (p) Remote control system and device unit 100%
   (q) External compound — auxiliary buildings — deodorization unit 100%
   (r) Segregation basin unit 100%
   (s) Anti-flooding installations unit 100%
   (t) Sewer overflow unit 100%

2. Biological sewage treatment — waste water pumping station

   (a) Pumping station A2 unit 100%
   (b) Pumping station A3 unit 100%
   (c) Pumping station A4 unit 100%
   (d) Pumping station A5 unit 100%

3. Biological sewage treatment — compulsory purchase — access

4. Completion of the drainage system

   (a) 200—1000 PVC waste water conduits metre 40 000
   (b) 400—1 600 cement rainwater conduits (rectangular section, tiled) metre 10 000
   (c) Catch pit — inspection chambers — collecting drain unit 1500
   (d) Pumping stations at Alikarnassos unit 100%
   (e) Pumping stations at Giofiro unit 100%

6. **Aims:**

Completion of a biological sewage treatment plant with a capacity for the equivalent of 164 000 inhabitants and a collecting system for waste water at Iraklion. The project complies with the Directive 91/271/EEC.

7. **Work schedule:**

<table>
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<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
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<tbody>
<tr>
<td>Main work</td>
<td>1.9.1995</td>
<td>31.12.1999</td>
</tr>
</tbody>
</table>

8. **Assessment of costs and socio-economic advantages:**

Iraklion, the capital of the prefecture of the same name, is an administrative and economic centre. In the last few years the city’s population has increased steadily (both inhabitants and visitors) causing a deterioration of the urban environment. This project helps to improve the quality of life for the inhabitants while promoting more rational
long-term development of the city’s economy and the decentralization of activities.

9. **Environmental impact analysis:**

   The project aims to protect the sea from effluent which will be pumped into it after treatment in future by means of an underwater pipe laid at a depth of 12 metres.

10. **Cost and assistance:**

    Total cost: ECU 15 500 000
    Rate of assistance: 80%
    Cohesion Fund assistance: ECU 12 400 000

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ANNEX

FINANCING PLAN

Project No: 94/09/61/041-1

<table>
<thead>
<tr>
<th>Year</th>
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<td>4 642 175</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>3 713 740</td>
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<td>80</td>
<td>928 435</td>
</tr>
<tr>
<td>1998</td>
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<td>4 152 778</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>3 322 222</td>
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<td>80</td>
<td>830 556</td>
</tr>
<tr>
<td>1999</td>
<td>4 152 779</td>
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<td>80</td>
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<td></td>
<td>3 322 223</td>
<td>3 322 223</td>
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<td>830 556</td>
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<td>15 500 000</td>
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<td>80</td>
</tr>
<tr>
<td></td>
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<td>12 400 000</td>
<td>80</td>
<td>3 100 000</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.
PROJECT No: 94/09/61/053-2 and 95/09/61/001

1. **Title:**
   Waste-water disposal and water supply for Corinth

2. **Body making the application:**
   
   2.1. **Name:** Ministry of the National Economy
   
   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**
   
   3.1. **Name:** DEYA (State Company for Water Supply and Drainage), Corinth
   
   3.2. **Address:** Ministry for the Interior Stadiou 27 Athens

4. **Location:**
   
   4.1. **Member State:** Greece
   
   4.2. **Region:** Peloponnese

5. **Description:**
   
   5.1. **Waste-water disposal system**
       - Mechanical and electrical equipment for pumping stations 5 units
       - Double force pipe to waste-water treatment plant 2 x 2 180 m = 4 360 m
       - Waste-water disposal system:
         - Pipes 15 000 m
         - Manholes 300 units

   5.2. **Water supply**
       - Steel pipeline from Galata to Simfalia, 355.6 mm in diameter, comprising:
         - Pipe 7 334 m
         - Piezometric head shaft 1 unit
         - Cleaning shafts 13 units
         - Release points 12 units
       - Exploitation of three boreholes in Simfalia, comprising:
         - Pumping stations for water supply 3 units
         - Steel connecting pipes, 355.6 mm in diameter 4 000 m
         - Electricity substation 1 unit
       - Cathodic protection of the pipeline 53 500 m
       - Tank with a capacity of 2 800 m³ 1 unit
       - Facilities for purification and decontamination of water 1 unit
       - Connection of the pipeline to the tank 1 unit
       - Replacement of the internal water-supply system with PVC and polyethylene pipe with diameters from 80 mm to 350 mm 86 077 m

6. **Aims:**
   To complete the waste-water disposal system and connect it to the biological treatment plant; to construct a new water-supply system to replace the old system; to complete the town's central water supply pipe.

7. **Work schedule:**
   
<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main work</td>
<td>1.10.1996</td>
<td>31.12.1999</td>
</tr>
</tbody>
</table>

8. **Assessment of costs and socio-economic advantages:**
   Public interest. Improvement of the standard of living of the 28 959 inhabitants of the town which is a major communication centre in the Peloponnese.

9. **Environmental impact analysis:**
   The aquifers in the area and the Gulf of Corinth have been seriously polluted by the use of septic pits. This project will contribute to cleaning up the environment and therefore complies with Directive 91/271/EEC. In addition, the water supply work will provide the town with an adequate supply of good quality drinking water and will reduce leakage, which amounts to 50% in the town.

10. **Cost and assistance:**
    
    **Total cost:** ECU 9 613 000
    
    **(a) Waste water disposal for Corinth:** ECU 4 171 000
    
    **(b) Water supply for Corinth:** ECU 5 442 000
    
    **Rate of assistance:** 80 %
    
    **Cohesion Fund assistance:** ECU 7 690 400
    
    **(a) Waste water disposal for Corinth:** ECU 3 336 800
    
    **(b) Water supply for Corinth:** ECU 4 353 600
ANNEX

FINANCING PLAN

Project No: 94/09/61/053-2 and 95/09/61/001

(\textsuperscript{(in ECU)})

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline
Year & Total & \multicolumn{2}{|c|}{Public expenditure} & \multicolumn{2}{|c|}{National authorities} & Private sector & Community loans \\
& cost\textsuperscript{(1)} & Total public & Cohesion & Total & Central & Other & & & \\
& & expenditure & Fund & & government & & & & \\
& & 1+2+11 & 3=2/1 & 2=4+6+10 & 4=5+4/2 & 6=8+9 & 7=6/2 & 8 & 9 & 10 & 11 & 12=11/1 & 13 \\
\hline
1996 & 800 000 & & & 800 000 & & 640 000 & 80 & 160 000 & 20 & 160 000 & \\
1997 & 4 271 000 & & & 4 271 000 & & 3 416 800 & 80 & 854 200 & 20 & 854 200 & \\
1998 & 2 800 000 & & & 2 800 000 & & 2 240 000 & 80 & 560 000 & 20 & 560 000 & \\
1999 & 1 742 000 & & & 1 742 000 & & 1 393 600 & 80 & 348 400 & 20 & 348 400 & \\
Total & 9 613 000 & & & 9 613 000 & & 7 690 400 & 80 & 1 922 600 & 20 & 1 922 600 & \\
\hline
\end{tabular}

\textsuperscript{(1)} Total eligible cost of project.

PROJECT No: 94/09/61/058

1. \textbf{Title:}

Water supply for Veria

2. \textbf{Body making the application:}

2.1. \textbf{Name:} Ministry of the National Economy

2.2. \textbf{Address:} Platia Syntagmatos 10180 Athens

3. \textbf{Authority responsible for implementation:}

3.1. \textbf{Name:} DEYA (State Company for Water Supply and Drainage), Veria

3.2. \textbf{Address:} Ministry for the Interior Stadiou 27 Athens

4. \textbf{Location:}

4.1. \textbf{Member State:} Greece

4.2. \textbf{Region:} Central Macedonia

5. \textbf{Description:}

Water-supply system — 48 829 m.

6. \textbf{Aims:}

To complete the replacement and extension of the water-supply system in the town of Veria.

7. \textbf{Work schedule:}

\begin{tabular}{|c|c|c|}
\hline
Category of work & Commencement & Completion \\
\hline
\hline
\end{tabular}

8. \textbf{Assessment of costs and socio-economic advantages:}

— Improvement of the standard of living and public health of the inhabitants.

— Improvement of water quality and increase in the quantity of water available.

— Number of direct jobs created during construction: 80.

— Number of indirect jobs created during construction: 8.

— Number of direct jobs created during operation: 10.
— Number of indirect jobs created during operation: 4.

9. Environmental impact analysis:

The project aims at improving the management of water resources. The project will contribute indirectly to developing and improving the management of the areas of the town connected to the water supply mains.

10. Cost and assistance:

Total cost: ECU 1 867 550
Rate of assistance: 80%
Cohesion Fund assistance: ECU 1 494 040

ANNEX

FINANCING PLAN

Project No: 94/09/61/058

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Total public expenditure</th>
<th>Public expenditure</th>
<th>National authorities</th>
<th>Other</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2=4+6+10</td>
<td>3=2/1</td>
<td>4</td>
<td>%</td>
<td>5=4/2</td>
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<td>605 258</td>
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<td>484 206</td>
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<td>1996</td>
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<td>100</td>
<td>575 397</td>
<td>80</td>
<td>143 849</td>
<td>20 143 849</td>
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<tr>
<td>1997</td>
<td>543 046</td>
<td>543 046</td>
<td>100</td>
<td>434 437</td>
<td>80</td>
<td>108 609</td>
<td>20 108 609</td>
</tr>
<tr>
<td>Total</td>
<td>1 867 550</td>
<td>1 867 550</td>
<td>100</td>
<td>1 494 040</td>
<td>80</td>
<td>373 510</td>
<td>20 373 510</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 94/09/61/067

1. Title:
Sewerage system at Dhidhimotikhon

2. Body making the application:

2.1. Name: Ministry of the National Economy
2.2. Address: Platia Syntagmatos 10180 Athens

3. Authority responsible for implementation:

3.1. Name: DEYA (State Company for Water Supply and Drainage), Dhidhimotikhon
3.2. Address: Ministry for the Interior Stadiou 27 Athens

4. Location:
4.1. Member State: Greece
4.2. Region: Thrace

5. Description:

1. Northern outer pipeline (sewage system) 1 000 m
2. Inspection chambers 10
3. Effluent drain hold-up tank 4 000 m³
4. Pumping stations 3
5. Interior drainage pipes 800 + 149 = 949 m
6. Connections 6
6. **Aims:**

Creation of a sewerage system for the town of Dhidhimotikhon

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
</table>

8. **Assessment of costs and socio-economic advantages:**

The collective benefit derived from the project will be particularly important, improving the quality of life (public health) of the inhabitants of Dhidhimotikhon and the region in general. In the long term, the local economy will be developed, enabling the population and labour force to remain in this frontier zone.

9. **Environmental impact analysis:**

The aim of the project is to safeguard the environment, which has been heavily polluted by effluent poured into the river Erythopotamos, a tributary of the Evros, whose biotope is protected by the Ramsar Convention. The construction of a biological sewage treatment plant should complete the project.

10. **Cost and assistance:**

| Total cost: | ECU 1 711 329 |
| Rate of assistance: | 80% |
| Cohesion Fund assistance: | ECU 1 369 063 |

---

**ANNEX**

**FINANCING PLAN**

Project No: 94/09/61/067

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost((^1))</th>
<th>Public expenditure</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1=2+11)</td>
<td>(2=4+6+10)</td>
<td>(3=2/1)</td>
<td>(4)  (5+4/2) (6=8+9)  (7=6/2) (8) (9) (10) (11) (12=11/1) (13)</td>
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<tr>
<td>1995</td>
<td>1 053 000</td>
<td>1 053 000</td>
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<td>842 400</td>
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<tr>
<td>1996</td>
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<td>100</td>
<td>96 800</td>
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<tr>
<td>1997</td>
<td>537 329</td>
<td>537 329</td>
<td>100</td>
<td>429 863</td>
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<tr>
<td>Total</td>
<td>1 711 329</td>
<td>1 711 329</td>
<td>100</td>
<td>1 369 063</td>
</tr>
</tbody>
</table>

\(^1\) Total eligible cost of project.
PROJECT No: 94/09/61/081-1

1. **Project title:**
   Water supply of the greater region around the town of Rhodes, Gadoura dam. Aqueduct of transportation and water treatment plant, Section: Studies — Project Manager

2. **Authority making the application:**
   2.1. Name: Y.P.ETH.O
   2.2. Address: Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**
   3.1. Name: Y.PE.CHO.DE/G.G.D.E.
   3.2. Address: D6 water supply and water treatment works

4. **Location:**
   4.1. Member State: Greece
   4.2. Region: South Aegean

5. **Description:**
   Studies — Consultants — Project Manager

6. **Objectives:**
   Preparation of the work of the water supply of the general area of the town of Rhodes, other coastal areas and the neighbouring waterless islands.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
</table>

8. **Economic and social cost-benefit analysis:**
   The object of the present decision concerns studies and consulting. The project itself, which is not part of the present decision presents a cost/benefit of 0,97 and IRR 4,8%.

9. **Environmental impact analysis:**
   The object of the present decision concerns studies and consulting. The project itself, which is not part of the present decision, is in conformity with the environmental integrated master plan.

10. **Cost and assistance:**
    Total cost: ECU 2 300 000
    Eligible costs (after 26 September 1994): ECU 2 300 000
    Rate of assistance: 80%
    Cohesion Fund assistance: ECU 1 840 000
### ANNEX

### FINANCING PLAN

**Project No:** 94/09/61/081-1

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>1=2+11</th>
<th>2=4+6+10</th>
<th>3=2/1</th>
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<td>44,785</td>
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<td>800,000</td>
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<td></td>
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<td>337,511</td>
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<td>84,378</td>
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<td>100</td>
<td>1,840,000</td>
<td>80</td>
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</tbody>
</table>

(1) Total eligible cost of project.

**PROJECT No:** 95/09/61/074

1. **Project title:**
   Water supply of Athens from the Evinos river Dam — phase C

2. **Authority making the application:**
   2.1. **Name:** Ministry for the National Economy
   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**
   3.1. **Name:** Ministry for the Environment, Regional Planning and Public Works
   3.2. **Address:** Kharilaou Trikoupi 182 10180 Athens

4. **Location:**
   4.1. **Member State:** Greece
   4.2. **Region:** Western Greece

5. **Description:**
   Physical indicators for Evinos Dam in relation with the present decision

<table>
<thead>
<tr>
<th>Works category</th>
<th>Units</th>
<th>Indexes year 1996</th>
<th>Indexes year 1997</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dam</td>
<td>m</td>
<td>104 622</td>
<td>100 000</td>
</tr>
<tr>
<td>1.1. Excavation in the open</td>
<td>m³</td>
<td>3 850 861</td>
<td>930 000</td>
</tr>
<tr>
<td>1.2. Dam embankments</td>
<td>m⁴</td>
<td>280</td>
<td>200</td>
</tr>
<tr>
<td>1.3. Grouting tunnels, galleries, etc.</td>
<td>m</td>
<td>2 900</td>
<td>25 000</td>
</tr>
<tr>
<td>1.4. Spillway tunnel</td>
<td>m³</td>
<td>27 12 10</td>
<td></td>
</tr>
<tr>
<td>1.5. Remaining spillway works (contract concrete)</td>
<td>m³</td>
<td>28 084</td>
<td>30 000</td>
</tr>
<tr>
<td>1.6. Grouting boreholes for the dam foundation</td>
<td>m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
6. **Objectives:**

The project aims to meet Athens’ water requirements by exploiting the surface waters of the Evinos basin in order to increase the water reserves of the Mornos reservoir, which is the main source of drinking water for greater Athens.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main works</td>
<td>1.1.1996</td>
<td>31.12.1999</td>
</tr>
</tbody>
</table>

8. **Economic and social cost-benefit analysis:**

The cost of the works of the present decision is included in the cost of the works of the entire project for the purpose of the cost-benefit analysis.

The cost-benefit ratio is: $B/C > 1$

9. **Environmental impact analysis:**

The project of Evinos, assuring the water supply of Athens in the long-run will not have a harmful effect on the environment. A smooth ecological revitalization of the greater mountainous region is expected through the improvement of the nearby infrastructure works (roads and other interventions).

10. **Cost and assistance:**

- **Total cost:** ECU 48 660 853
- **Eligible costs (after 11/1995):** ECU 48 660 853
- **Rate of assistance:** 85%
- **Cohesion Fund assistance:** ECU 41 361 725

11. **Special conditions:**

This project does not concern irrigation. The Greek authorities are therefore obliged to take the necessary steps to ensure that the project does not result in any way in an intensification or increase in irrigated crops.

The studies and additional work mentioned in Article 6 have not been included in the cost of this project.

A project manager will be appointed for the project according to mutual agreement between the Commission and the Member State concerned.

The balance of Community assistance (20%) shall be paid provided that the enlarged final study is finished and approved both by the Consultative Co-ordinating Board for the Construction of Evinos and the European Commission.

The reservoir cannot be filled with water before the agreement by the Consultative and Co-ordinating Board for the Construction of Evinos and the European Commission:

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**ANNEX**

**FINANCING PLAN**

Project No: 95/09/61/074

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (€)</th>
<th>Public expenditure</th>
<th>National authorities</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2+4+6+10 % 3=2/1</td>
<td>4 % 5+4/2 6+8+9 % 7=6/2 8 9 10</td>
<td>11</td>
<td>12=11/1</td>
</tr>
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<tr>
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<td>1998</td>
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<td>9 732 171 100</td>
<td>8 272 345 85</td>
<td>1 459 826 15</td>
<td>1 459 826</td>
</tr>
<tr>
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<td>48 660 853 100</td>
<td>41 361 725 85</td>
<td>7 299 128 15</td>
<td>7 299 128</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.
PROJECT No: 96/09/61/084

1. **Title:**
   Sewage disposal system for Nea Kalikratia-Ag.
   Pavlos

2. **Body making the application:**
   2.1. **Name:** Ministry of the National Economy
   2.2. **Address:** Platia Syntagmatos
   10180 Athens

3. **Authority responsible for implementation:**
   3.1. **Name:** Municipality of Nea Kalikratia
   3.2. **Address:** Ministry for the Interior
   Stadiou 27
   10180 Athens

4. **Location:**
   4.1. **Member State:** Greece
   4.2. **Region:** Macedonia

5. **Description:**
   — collectors 3 821 m
   — secondary pipelines 5 706 m
   — sewage system 31 492 m
   — discharge and overflow pipes 10 395 mm
   — manholes and pumping stations for the sewage system 428 units
   — computers for pumping stations 4 units
   — primary discharge system 8 000 m
   — secondary discharge system 16 000 m
   — pumping stations for discharge system 4 units
   — electromechanical equipment for discharge system pumping stations 4 units
   — telemetring operation of systems and ground-water quality control 1 unit
   — study 1 unit
   — 2 years of operation 1 unit

6. **Aims:**
   The aims of this project are:
   — to construct the sewage disposal and discharge systems;
   — to construct the pumping stations and discharge pipes transporting sewage to the treatment facilities;
   — to install a telemetering system for monitoring pollution of ground water and checking the pumping stations.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
</table>

8. **Assessment of costs and socio-economic advantages:**

Nea Kalikratia is a well-known site of outstanding natural beauty located in the region of Khalkidiki in northern Greece. The 3 000 permanent residents of the area mainly work in agriculture, winegrowing and fisheries. Tourist infrastructure is fairly developed. Construction of the sewage disposal system is clearly in the public interest as it will improve the quality of life of both inhabitants and tourists visiting the region. In the long term, the project will contribute to the rational development of the region, both economically and in terms of infrastructure (programming in the construction sector and protection of the environment).

9. **Environmental impact analysis:**

Until now this area has had no sewage disposal system and the use of cesspools has had an impact on pollution of the ground water, causing serious problems for irrigation in a region where agriculture is the population’s main source of employment.

The project complies with Directive 91/271/EEC.

The project must comply with Decision No 1711244 of the Ministry of Regional Planning, the Environment and Public Works of 13 March 1997.

10. **Cost and assistance:**

<table>
<thead>
<tr>
<th>Total cost</th>
<th>ECU 13 992 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate of assistance</td>
<td>80%</td>
</tr>
<tr>
<td>Cohesion Fund assistance</td>
<td>ECU 11 193 680</td>
</tr>
</tbody>
</table>
ANNEX

FINANCING PLAN

Project No: 96/09/61/084

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Public expenditure</th>
<th>National authorities</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Cohesion Fund</td>
<td>Total</td>
<td>Central government</td>
<td>Other</td>
</tr>
<tr>
<td>1997</td>
<td>4 669 200</td>
<td>3 735 360</td>
<td>933 840</td>
<td>933 840</td>
<td>100</td>
</tr>
<tr>
<td>1998</td>
<td>4 076 100</td>
<td>3 260 880</td>
<td>815 220</td>
<td>815 220</td>
<td>100</td>
</tr>
<tr>
<td>1999</td>
<td>5 246 800</td>
<td>4 197 440</td>
<td>1 049 360</td>
<td>1 049 360</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>13 992 100</td>
<td>11 193 680</td>
<td>2 798 420</td>
<td>2 798 420</td>
<td>100</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 97/09/61/006

1. **Title:**
   Completion of the internal secondary system for disposal of urban waste water for Messini

2. **Body making the application:**

   2.1. **Name:** Ministry of the National Economy
   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**

   3.1. **Name:** Municipality of Messini
   3.2. **Address:** Ministry for the Interior Stadiou 27 Athens

4. **Location:**

   4.1. **Member State:** Greece
   4.2. **Region:** Peloponnese

5. **Description:**
   Construction of internal waste-water disposal system over a length of 30 000 m.

6. **Aims:**

   The purpose of this project is to construct a section of the internal waste-water disposal system in order to complete the system and connect it with the biological treatment plant at Kalamata.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
</table>

8. **Assessment of costs and socio-economic advantages:**

   The project is in the public interest. It will improve the quality of life and protect the health of the residents of Messini and the wider area. The project complies with the strategic and development objectives for the Peloponnese region regarding agriculture and tourism and with the policy for maintaining the population in the region.
9. **Environmental impact analysis:**

The entire sewer system runs over a length of 47,000 m. 17,000 m of sewer are already in place, leaving a further 30,000 m to be built to complete the system. In addition, this system is to be connected to the biological treatment plant at Kalamata to prevent discharge of sewage into the Pamiso river and the Messini Gulf.

Discharge of untreated sewage is currently

— polluting and destroying the ground water,
— destroying the flora and fauna at the mouth of the Pamiso river, which is considered a very important biotope and ecosystem,
— polluting the coastal area of the Messini Gulf and eating away at fisheries resources.

10. **Cost and assistance:**

Total cost: ECU 2,921,000

Rate of assistance: 80%

Cohesion Fund assistance: ECU 2,336,800

---

**ANNEX**

**FINANCING PLAN**

Project No: 97/09/61/006

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Total public expenditure</th>
<th>National authorities</th>
<th>Other</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2=4+6+10</td>
<td>3+2/1</td>
<td>4</td>
<td>5+4/2</td>
<td>6+8+9</td>
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<tr>
<td>1997</td>
<td>585 000</td>
<td>585 000</td>
<td>100</td>
<td>468 000</td>
<td>80</td>
<td>117 000</td>
</tr>
<tr>
<td>1998</td>
<td>1,169 000</td>
<td>1,169 000</td>
<td>100</td>
<td>935 200</td>
<td>80</td>
<td>233 800</td>
</tr>
<tr>
<td>1999</td>
<td>1,167 000</td>
<td>1,167 000</td>
<td>100</td>
<td>933 600</td>
<td>80</td>
<td>233 400</td>
</tr>
<tr>
<td>Total</td>
<td>2,921 000</td>
<td>2,921 000</td>
<td>100</td>
<td>2,336 800</td>
<td>80</td>
<td>584 200</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.
PROJECT No: 94/09/65/015-a

1. **Project title:**
   PATHE, section: By-pass of Patras, K1-K4 (MR 0+000-MR 2+890)

2. **Authority making the application:**
   2.1. **Name:** Ministry of National Economy
   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**
   3.1. **Name:** YPECHODE/ General Secretariat of Public Works, EYDE/PATHE
   3.2. **Address:** Alexandras 205 11523 Athens

4. **Location:**
   4.1. **Member State:** Greece
   4.2. **Region:** West Greece

5. **Description:**
   By pass of Patras is going to be dual carriageway motorway with central median reserve and emergency lanes. The standard cross-section is of 24,50m. The adjacent roads are going to have a standard cross-section of 6,00/7,50m.

   This section comprises the completion of branch C.D. (MR 0+000-MR 0+789) and the section from MR 1+000-MR 2+890 and the construction of all the technical structures and earthworks which are not affected by the connection with the existing national road Athens-Patras.

   — Studies
   — Removement of Public networks of common interest
   — Expropriations
   — Project Management

6. **Objectives:**
   — accomodate the high transport demand
   — to connect Greece to EU
   — the development of the area and the settlement of the traffic at the area of the port.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design studies</td>
<td>1994</td>
<td>1999</td>
</tr>
<tr>
<td>Land acquisition</td>
<td>1994</td>
<td>1999</td>
</tr>
<tr>
<td>Main works</td>
<td>1994</td>
<td>1999</td>
</tr>
<tr>
<td>Operational phase</td>
<td>2000</td>
<td></td>
</tr>
</tbody>
</table>

8. **Economic and social cost-benefit analysis:**
   The project is feasible. B/C = 0.72, IRR = 2.6 %

9. **Environmental impact analysis:**
   The environmental terms specified in the Ministerial Decision No 16049 of 12 August 1993 are included in the objectives of the project.

10. **Cost and assistance:**
    
    Total cost: ECU 39 792 454
    
    Eligible costs (after 13/7/1994): ECU 39 792 454
    
    Rate of assistance: 85 %
    
    Cost taken into account for the calculation of assistance after deduction of revenues: ECU 28 093 472
    
    Cohesion Fund assistance: ECU 23 879 451
ANNEX

FINANCING PLAN

Project No: 94/09/65/015-a

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Public expenditure</th>
<th>Private sector Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2=4+6+10</td>
<td>%</td>
</tr>
<tr>
<td>1994</td>
<td>35 631</td>
<td>25 155</td>
<td>70,60</td>
</tr>
<tr>
<td>1995</td>
<td>3 268 640</td>
<td>2 307 660</td>
<td>70,60</td>
</tr>
<tr>
<td>1996</td>
<td>14 035 639</td>
<td>9 909 161</td>
<td>70,60</td>
</tr>
<tr>
<td>1997</td>
<td>10 299 540</td>
<td>7 271 475</td>
<td>70,60</td>
</tr>
<tr>
<td>1998</td>
<td>10 169 089</td>
<td>7 179 377</td>
<td>70,60</td>
</tr>
<tr>
<td>1999</td>
<td>1 983 914</td>
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<td>70,60</td>
</tr>
<tr>
<td>Total</td>
<td>39 792 454</td>
<td>28 093 472</td>
<td>70,60</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 94/09/65/016-d

1. **Project title:**

   Via Egnatia, section: Kristalopigi-Psilorahi

2. **Authority making the application**

   2.1. **Name:** Ministry of National Economy

   2.2. **Address:** Platia Syntagmatos 10180 Athens

3. **Authority responsible for implementation:**

   3.1. **Name:** Egnatia Odos SA

   3.2. **Address:** 6th km Thessaloniki-Thermi, 57001 Thessaloniki

4. **Location:**

   4.1. **Member State:** Greece

   4.2. **Region:** Hepirus

5. **Description:**

   Studies, supplementary investigations, parallel works and construction of the section Kristalopigi-Psilorahi (MR 25+191-MR 35+346)

   Expropriations

   Preparation and support of Cohesion Fund requests

   Project Management, Construction Management, Technical Assistance

   The expenditure for the technical assistance of Egnatia Odos SA, including the Project Manager and the Construction Managers costs for the project are eligible up to a maximum of four percent (4%) of the total cost of the project and only during its construction period.

6. **Objectives:**

   — Development of regions Hepirus and Macedonia

   — Link Greece with European Union through Italy
7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design studies</td>
<td>1994</td>
<td>1999</td>
</tr>
<tr>
<td>Land acquisition</td>
<td>1994</td>
<td>1999</td>
</tr>
<tr>
<td>Main works</td>
<td>1994</td>
<td>1999</td>
</tr>
<tr>
<td>Operational phase</td>
<td>2000</td>
<td></td>
</tr>
</tbody>
</table>

8. **Economic and social cost-benefit analysis:**

The project is feasible. B/C = 1.55, IRR = 8.8%

9. **Environmental impact analysis:**

The environmental terms specified in the Ministerial Decision No 66967 of 19 November 1993 are included in the objectives of the project.

10. **Cost and assistance:**

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>ECU 44 280 528</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eligible costs</td>
<td>ECU 44 280 528</td>
</tr>
<tr>
<td>(after 13/7/1994)</td>
<td></td>
</tr>
<tr>
<td>Cost taken into account for the calculation of assistance after deduction of revenues:</td>
<td>ECU 31 262 053</td>
</tr>
<tr>
<td>Rate of assistance:</td>
<td>85%</td>
</tr>
<tr>
<td>Cohesion Fund assistance:</td>
<td>ECU 26 572 745</td>
</tr>
</tbody>
</table>

---

**ANNEX**

FINANCING PLAN

**Project No: 94/09/65/016-d**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1) (in ECU)</th>
<th>Public expenditure</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2=4+6+10</td>
<td>3=2/1</td>
<td>4=5+6/2</td>
</tr>
<tr>
<td>1994</td>
<td>25 871</td>
<td>18 265</td>
<td>70,60</td>
<td>15 525</td>
</tr>
<tr>
<td>1995</td>
<td>144 642</td>
<td>102 117</td>
<td>70,60</td>
<td>86 800</td>
</tr>
<tr>
<td>1996</td>
<td>495 276</td>
<td>349 665</td>
<td>70,60</td>
<td>297 215</td>
</tr>
<tr>
<td>1997</td>
<td>6 029 987</td>
<td>4 257 171</td>
<td>70,60</td>
<td>3 618 595</td>
</tr>
<tr>
<td>1998</td>
<td>13 770 868</td>
<td>9 722 233</td>
<td>70,60</td>
<td>8 263 898</td>
</tr>
<tr>
<td>1999</td>
<td>23 813 884</td>
<td>16 812 602</td>
<td>70,60</td>
<td>14 290 712</td>
</tr>
<tr>
<td>Total</td>
<td>44 280 528</td>
<td>31 262 053</td>
<td>70,60</td>
<td>26 572 745</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.
1. **Project title:**
   The Burren and North Clare Water Services Plan

2. **Authority making the application:**
   2.1. **Name:** Department of the Environment
   2.2. **Address:** O'Connell Bridge House
       Dublin 2

3. **Authority responsible for implementation:**
   3.1. **Name:** Clare County Council
   3.2. **Address:** New Road
       Ennis, County Clare

4. **Location:**
   4.1. **Member State:** Ireland
   4.2. **Region:** The Burren, Clare

5. **Description:**
   The Lisdoonvarna water supply is aimed at servicing the area from an existing modern treatment plant at Ennistimon. The system consists of trunk and distribution mains to transport water from Ennistimon to serve Lisdoonvarna and Doolin.

   The Lisdoonvarna sewerage scheme will extend and upgrade the existing waste water collection system. This includes the construction of four pumping stations. A new treatment plant will include screening, extended aeration treatment, nitrate and phosphate reduction, sedimentation and sludge thickening and storage.

6. **Objectives:**
   - the scheme will assist in enabling compliance with Directive 80/778/EEC on drinking water quality;
   - compliance with Directive 91/271/EEC on urban waste water;
   - the scheme should help to overcome water shortages arising in the summer period and help to protect the delicate Burren eco-system form being polluted with sewage discharges.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning</td>
<td>1994</td>
<td>1996</td>
</tr>
<tr>
<td>Land acquisition</td>
<td>1994</td>
<td>1996</td>
</tr>
<tr>
<td>Construction</td>
<td>1996</td>
<td>1999</td>
</tr>
</tbody>
</table>

8. **Economic and social benefit analysis:**
   An economic cost benefit analysis is being carried out.

9. **Environmental impact analysis:**
   An EIS is not required for this project.

10. **Cost and assistance:**

    | Total cost (ECU million) | Private sector capital contribution (ECU million) | Expenditure before eligible date (ECU million) | Total eligible cost (ECU million) | Cohesion Fund grant (ECU million) | Grant rate (%) |
    |--------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------|---------------------------------|----------------|
    | 12,024                   | —                                             | —                                             | 12,024                           | 9,619                           | 80             |
ANNEX

FINANCING PLAN

Project No: 94/07/61/010

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Public expenditure</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2=4+6+10</td>
<td>3=2/1</td>
<td>4=5+4/2</td>
</tr>
<tr>
<td>1994</td>
<td>298 830</td>
<td>298 830</td>
<td>100</td>
<td>239 064</td>
</tr>
<tr>
<td>1996</td>
<td>211 210</td>
<td>211 210</td>
<td>100</td>
<td>168 968</td>
</tr>
<tr>
<td>1997</td>
<td>62 500</td>
<td>62 500</td>
<td>100</td>
<td>50 000</td>
</tr>
<tr>
<td>1998</td>
<td>4 431 334</td>
<td>4 431 334</td>
<td>100</td>
<td>3 545 067</td>
</tr>
<tr>
<td>1999</td>
<td>7 020 000</td>
<td>7 020 000</td>
<td>100</td>
<td>5 616 000</td>
</tr>
<tr>
<td>Total</td>
<td>12 023 874</td>
<td>12 023 874</td>
<td>100</td>
<td>9 619 099</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 94/07/61/013

1. **Project title:** Waterford City and Environs Water Supply Improvement Scheme

2. **Authority making the application:**

   2.1. **Name:** Department of the Environment

   2.2. **Address:** O’Connell Bridge House Dublin 2

3. **Authority responsible for implementation:**

   3.1. **Name:** Waterford County Council

   3.2. **Address:** County Buildings City Hall Dungarvan, County Waterford

4. **Location:**

   4.1. **Member State:** Ireland

   4.2. **Region:** Eastern part of County Waterford

5. **Description:**

   The overall scheme concerns the upgrading and extension of the existing water supply for Waterford city and environs. The supply area covers Waterford city, which is the fifth largest in Ireland, with a population of over 50 000 persons and a number of towns surrounding the city with a combined population approaching 10 000 persons. The area is a major tourist resort with more than 120 000 overseas visitors each year.

   The main water treatment plant at Adamstown is presently overloaded and other small plants also suffer severe supply and quality problems. Deficiencies also exist in mains capacity on the filtered water side of the treatment plant.

   The scheme consists of the following elements:

   - extension and upgrading of the distribution network for Waterford and Environs;

   - expansion of the reservoir capacity for the city;

   - implementation of the Waterford city water conservation project which will reduce the levels of unaccounted for water from 59% to
25%. The conservation project is based on a leakage detection and reduction programme which was assisted by Commission Decision C(94) 3070 final of 16 November 1994, CF Project No 94/07/61/002. This programme will be expanded to the remaining areas of Waterford city;

— depending on the results of the leakage detection and reduction programme the scheme may include the upgrading of Adamstown treatment plant.

The project concentrates on Waterford city and Tramore and this Decision covers the following works:

— the construction of a new trunk main from the Adamstown plant to Waterford and a 13 500 m³ reservoir for the city and the construction of a new trunk main and a 10 000 m³ reservoir to service Tramore. Pumphouses, pumps and associated works are included in the construction;

— completion of work commenced under the leakage detection and reduction programme assisted by the Commission, including district metering to all areas of the city, telemetry infrastructure and also mains rehabilitation in Waterford city and in the old areas of Tramore.

6. **Objectives:**

— Safeguard EU standards for drinking water in the area and provide for increasing quantities of good quality water to provide for development in the area;

— provide additional capacity by the construction of new trunk mains and reservoirs;

— reduce leakage of treated water through water conservation measures.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning and design</td>
<td>started</td>
<td>1997</td>
</tr>
<tr>
<td>Land acquisition</td>
<td>started</td>
<td>1997</td>
</tr>
<tr>
<td>Construction</td>
<td>1997</td>
<td>1999</td>
</tr>
</tbody>
</table>

8. **Economic and social cost-benefit analysis:**

An economic cost-benefit analysis has been carried out and the results are reported in the application registered under CF Project No 94/07/61/013.

9. **Environmental impact analysis:**

An EIS is not required for this project.

10. **Cost and assistance:**

<table>
<thead>
<tr>
<th>Total cost (ECU million)</th>
<th>Private sector capital contribution (ECU million)</th>
<th>Expenditure before eligible date (ECU million)</th>
<th>Total eligible cost (ECU million)</th>
<th>Cohesion Fund grant (ECU million)</th>
<th>Grant rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15,988</td>
<td>—</td>
<td>0,191</td>
<td>15,797</td>
<td>12,638</td>
<td>80</td>
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</table>
ANNEX

FINANCING PLAN

Project No: 94/07/61/013

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Public expenditure</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2=4+6+10</td>
<td>%</td>
<td>4</td>
</tr>
<tr>
<td>1997</td>
<td>4 010 315</td>
<td>4 010 315</td>
<td>100</td>
<td>3 208 252</td>
</tr>
<tr>
<td>1998</td>
<td>8 490 000</td>
<td>8 490 000</td>
<td>100</td>
<td>6 792 000</td>
</tr>
<tr>
<td>1999</td>
<td>3 296 875</td>
<td>3 296 875</td>
<td>100</td>
<td>2 637 500</td>
</tr>
<tr>
<td>Total</td>
<td>15 797 190</td>
<td>15 797 190</td>
<td>100</td>
<td>12 637 752</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 96/07/61/004

1. **Project title:**

   National Water Conservation Project

2. **Authority making the application:**

   **Name:** Department of the Environment
   **Address:** O’Connell Bridge House Dublin 2

3. **Authority responsible for implementation:**

   **Name:** Department of the Environment
   **Address:** O’Connell Bridge House Dublin 2

   **Name:** Cork Corporation
   **Address:** City Hall Cork

   **Name:** Limerick Corporation
   **Address:** City Hall Limerick

   **Name:** Wexford County Council
   **Address:** County Hall Wexford

4. **Location:**

   **Member State:** Ireland
   **Region:** All regions except Greater Dublin region

5. **Description:**

   This project has four components:

   - A national water audit to be carried out by external consultants which will involve a detailed assessment of existing water resources (production capacity of water sources, scope for increasing production of these sources, breakdown of water use in each area etc), an analysis of existing water supply infrastructure (water treatment plants, reservoirs etc) and the organisational structure of water supply (staff resources, water conservation policies etc). Physical indicators for monitoring of assessment purposes will also be developed. The indicative cost of this water audit will be ECU 0,63 million.
— The second stage of the project will involve the implementation of water conservation schemes in Cork and Limerick cities and in Wexford town and county. These will involve active leakage control, structural rehabilitation of water supply systems, infrastructure installation (for example, district metering, modelling, data management systems) and the establishment of water conservation strategies. The indicative cost of these projects is ECU 5.9 million.

6. **Objectives:**

— to gather information of the existing water supply system,
— to greatly reduce the level of leakage,
— to put in place effective water management systems.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Start Date</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational phase</td>
<td>1.1.2000</td>
<td></td>
</tr>
</tbody>
</table>

8. **Economic and social cost-benefit analysis:**

It is difficult at this stage to quantify the benefits which will follow from this project. However, recent evaluation work carried out by external consultants for the European Commission and the major Dublin region water supply strategy study completed in April 1996 clearly indicate that the most cost-effective way of producing water in current conditions in Ireland is through leakage control and other water conservation and management measures.

The national water audit is an indispensable first step towards a series of regional water conservation projects along the lines of the Greater Dublin water conservation programme which followed the strategy study previously mentioned. In the case of the three projects in Cork, Limerick and Wexford, substantial potential savings have already been identified (estimated at 5 500 m³/day, 14 200 m³/day and 10 500 m³/day respectively). While it is not possible to be absolutely precise about the quantification of benefits at this stage, it is clear that the benefit-cost ratio is higher than one and that the projects are justified as investments.

9. **Environmental impact assessment:**

An EIA is not required for any part of this group of projects.

10. **Cost and assistance:**

<table>
<thead>
<tr>
<th></th>
<th>Total cost (ECU million)</th>
<th>Expenditure before eligible date (ECU million)</th>
<th>Total eligible costs (ECU million)</th>
<th>Cohesion Fund grant (ECU million)</th>
<th>Grant rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,5</td>
<td></td>
<td>—</td>
<td>6,5</td>
<td>5,525</td>
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</tr>
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</table>

(1) Expenditure after the date of submission of the project, 18 June 1996, is eligible.
ANNEX

FINANCING PLAN

Project No: 96/07/61/004

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Public expenditure</th>
<th>National authorities</th>
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<th>Community loans</th>
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</thead>
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<td>Cohesion Fund</td>
<td>Total</td>
<td>Central government</td>
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<td>2 422 500</td>
<td>85</td>
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<td>1998</td>
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<td>1999</td>
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<td>500 000</td>
<td>100</td>
<td>425 000</td>
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<td>Total</td>
<td>6 500 000</td>
<td>6 500 000</td>
<td>100</td>
<td>5 525 000</td>
<td>85</td>
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</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 96/07/61/007

1. Project title:
   Dublin Region Water Supply Scheme — stage III

2. Authority making the application:
   2.1. Name: Department of the Environment
   2.2. Address: O'Connell Bridge House Dublin 2

3. Authority responsible for implementation:
   3.1. Name: A) Dublin Corporation
   B) Fingal County Council
   C) Dun Laoghaire/Rathdown County Council
   D) South Dublin County Council
   3.2. Address: A) Civic Offices
   Fishamble Street
   Dublin 2
   B) 46-49 Upper O'Connell Street
   Dublin 1
   C) Town Hall
   Dun Laoghaire
   D) Town Centre
   Tallaght
   Dublin 24

4. Location:
   4.1. Member State: Ireland
   4.2. Region: Dublin

5. Description:
   This Decision concerns a group of projects, which are all except one, specifically recommended by the Greater Dublin water supply strategic study. The purpose of the study was to assess service levels and water supply problems in the Dublin region and to provide for the cost effective future development of the water supply for Dublin city and the Greater Dublin area. The study was assisted by Commission Decision C(94) 3298/3 final of 2 December 1994 and was completed in April 1996.

   The Commission has earlier granted assistance to stage 1 of the Dublin Region Water Supply Scheme by Commission Decision C(94) 3298/2 of 2 December 1994 as amended by Commission Decision C(95) 3250 final/3 of 18 December 1995.

   This Decision covers the planning, the construction or both for the following projects as specified below:
Planning:

Lucan Water Supply Scheme

The strategic study has identified a number of projects, which while outside the scope of the study, are regarded as important in terms of strengthening the distribution network. Lucan Water Supply Scheme is one such project.

South Dublin County Council intend to obtain additional water from the Leixlip plant when the refurbishment and expansion works on the plant are completed. The water will be pumped to a new high-level reservoir via a new rising main and will be distributed to the existing network via a new delivery main. The project concerns the planning of these works.

Cost: ECU 250 000

Sandyford High Level Scheme

The project concerns planning for two reservoirs (2,500 m³ at Barnacullia and 7,700 m³ at Dun Gaoithe), new pumps at Sandyford reservoir, distribution mains and pressure valves to aid leakage control.

Cost: ECU 625 000

Bohernabreena spillways

The Decision covers the planning of the upgrading and modification of the upper and lower spillways which is urgently needed for reasons of public safety.

Cost: ECU 812 000

Wavewall at Upper Dam in Roundwood

The project concerns the planning of a reinforced concrete wall on the dam. Studies have found that the spillway of the dam would be incapable of passing a probable maximum flood, which in turn would cause water level in the reservoir to rise and hence endanger the dam.

Cost: ECU 125 000

Reservoirs

The project concerns the planning of the covering of the reservoirs at Stillorgan, Ballyboden and Vartry for water quality reasons.

Cost: ECU 2 500 000

Construction:

Dun Laoghaire Water Supply Scheme

The project concerns construction of contract 4 for which planning costs were granted under Stage I. The work includes the provision of pumps at the Church Road reservoir, a rising main to a new 3,500 m³ intermediate level reservoir and from there to a new 300 m³ high-level reservoir. It also includes new distribution mains from the reservoirs and a booster station at the intermediate level.

Cost: ECU 3 125 000

Planning and construction

Leixslip waterworks

Planning and construction on contracts 1, 2 and 3 were covered under stage I of the project. This project concerns the planning and construction on contracts 4, 5, 6 and 7. Contracts 4 and 5 provide for a new clearwater tank with a capacity of 18,250 m³ as well as pumps and pumping station. Contracts 6 and 7 provide for a sludge dewatering facility using the plate press option, thereby making the sludge suitable for landfill purposes.

Cost: ECU 16 000 000

Ballyboden/Stillorgan pipeline

The project concerns the planning and construction of the last section of trunk main from Ballymore Eustace Treatment Works via Saggart and Ballyboden reservoirs to Stillorgan reservoir.

Cost: ECU 9 500 000

6. Objectives:

— To provide for the cost effective future development of the water supply network for Dublin city and the Greater Dublin area.

— To ensure that adequate water resources and associated treatment capacities will be available to cater for future domestic, commercial and industrial needs of the Greater Dublin area over the next twenty years.

— To eliminate the risk of pollution by covering the reservoirs at Stillorgan and Ballyboden and the clearwater tank at Vartry, as well as providing sludge management facilities at Leixlip.

— To improve safety levels at reservoirs by upgrading the spillways at Bohernabreena and providing for a Wavewall at Roundwood.

7. Work schedule:

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning and design</td>
<td>1992</td>
<td>1998</td>
</tr>
<tr>
<td>Land acquisition</td>
<td>1996</td>
<td>1998</td>
</tr>
<tr>
<td>Construction</td>
<td>1996</td>
<td>1998</td>
</tr>
</tbody>
</table>
8. Economic and social benefit analysis:

This project consists mainly of stages of projects which are specifically recommended by the Greater Dublin water supply strategic study and they have been appraised as part of the study, which is registered under CF Project No 94/07/61/005.

9. Environmental impact analysis:

An EIS is not required for this project.

10. Cost and assistance:

<table>
<thead>
<tr>
<th>Total cost</th>
<th>Private sector capital contribution</th>
<th>Expenditure before eligible date</th>
<th>Total eligible cost</th>
<th>Cohesion Fund grant</th>
<th>Grant rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ECU million)</td>
<td>(ECU million)</td>
<td>(ECU million)</td>
<td>(ECU million)</td>
<td>(ECU million)</td>
<td>(% )</td>
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<td>32,937</td>
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ANNEX

FINANCING PLAN

Project No: 96/07/61/007

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost</th>
<th>Public expenditure</th>
<th>National authorities</th>
<th>Other</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>2=6+10</td>
<td>3=2/1</td>
<td>4</td>
<td>5+4/2</td>
<td>6+8+9</td>
</tr>
<tr>
<td>1997</td>
<td>9 750 000</td>
<td>9 750 000</td>
<td>100</td>
<td>7 800 000</td>
<td>80</td>
<td>1 950 000</td>
</tr>
<tr>
<td>1998</td>
<td>23 187 000</td>
<td>23 187 000</td>
<td>100</td>
<td>18 549 600</td>
<td>80</td>
<td>4 637 400</td>
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<tr>
<td>Total</td>
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<td>32 937 000</td>
<td>100</td>
<td>26 349 600</td>
<td>80</td>
<td>6 587 400</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 96/07/61/009

1. Project title:

Limerick Water Supply (stage II)

2. Authority making the application:

2.1. Name: Department of the Environment

2.2. Address: O‘Connell Bridge House

Dublin 2

3. Authority responsible for implementation:

3.1. Name: Limerick Corporation

3.2. Address: City Hall

Limerick

4. Location:

4.1. Member State: Ireland

4.2. Region: Limerick City
5. **Description:**

A previous Commission Decision (C(93) 3257/12 of 15 November 1993) approved Cohesion Fund aid for the planning, design and construction of a 50 000 m³ reservoir and associated equipment to improve the water supply of Limerick city. The present Decision covers complementary stages which are:

- relining and roofing the existing Limerick city reservoir, which is 100 years old, to improve drinking water quality, to reduce leakage from the reservoir and to provide an alternative reservoir while routine cleaning and maintenance takes place on the new reservoir,

- to upgrade the existing water treatment works at Clareville, part of which is at present unable to consistently produce drinking water of acceptable quality,

- to provide sewage treatment facilities at Castleconnel village north of Limerick city which is immediately upstream of the principal water abstraction site on the Shannon river.

6. **Objectives:**

- to protect public health,

- to provide an increased supply of water of an acceptable standard to Limerick city (population covered: 90 000),

- to reduce the risk of supply difficulties by providing alternative water storage to the newly constructed reservoir,

- to greatly reduce water leakage,

- to complement investment already undertaken.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Start Date</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational phase</td>
<td>1.1.2000</td>
<td></td>
</tr>
</tbody>
</table>

8. **Economic and social cost-benefit analysis:**

It is difficult to separately identify the benefits of stages 1 and 2 and the economic assessment which was undertaken evaluated the overall project.

The main benefits of the whole project will come from the improvement in the quality of drinking water supplied to 90 000 consumers, the elimination of leakage from the old reservoir of up to 5 000 m³ of water per day and the provision of sufficient water capacity to support tourism and industrial development.

The cost-benefit analysis states that the internal rate of return for the project is estimated at 10.4% and the benefit-cost ratio at over 2. By far the largest part of the benefit comes from ending the major leaks in the old reservoir.

9. **Environmental impact assessment:**

An EIA is not required for this project.

10. **Cost and assistance:**

<table>
<thead>
<tr>
<th>Total cost (ECU million)</th>
<th>Expenditure before eligible date (ECU million)</th>
<th>Total eligible costs (ECU million)</th>
<th>Cohesion Fund grant (ECU million)</th>
<th>Grand rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.3</td>
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<td>7.3</td>
<td>5,840</td>
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</table>

(1) Expenditure after the date of submission of the project, 3 September 1996, is eligible.
ANNEX

FINANCING PLAN

Project No: 96/07/61/009

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Public expenditure</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
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<td>3=2/1</td>
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<tr>
<td>1996</td>
<td>162 500</td>
<td>162 500</td>
<td>100</td>
<td>130 000</td>
</tr>
<tr>
<td>1997</td>
<td>1 012 500</td>
<td>1 012 500</td>
<td>100</td>
<td>810 000</td>
</tr>
<tr>
<td>1998</td>
<td>3 812 500</td>
<td>3 812 500</td>
<td>100</td>
<td>3 050 000</td>
</tr>
<tr>
<td>1999</td>
<td>2 312 500</td>
<td>2 312 500</td>
<td>100</td>
<td>1 850 000</td>
</tr>
<tr>
<td>Total</td>
<td>7 300 000</td>
<td>7 300 000</td>
<td>100</td>
<td>5 840 000</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

PROJECT No: 96/07/61/010

1. **Project title:**
   Cork City Main Drainage

2. **Authority making the application:**
   2.1. **Name:** Department of the Environment
   2.2. **Address:** O’Connell Bridge House
       Dublin 2

3. **Authority responsible for implementation:**
   3.1. **Name:** Cork Corporation
   3.2. **Address:** City Hall,
       Cork

4. **Location:**
   4.1. **Member State:** Ireland
   4.2. **Region:** Cork

5. **Description:**
   The project concerns the refurbishment and, if appropriate, the replacement of the city sewer network, the provision of essential new sewers and the construction of a secondary treatment plant and associated works. In addition, the project involves the construction of a marine outfall along a deep channel in the estuary. Sludge will be dewatered and dried for re-use or disposal.

   The scheme also embraces the provision of flood relief measures in the Turners Cross, Blackpool and Ballyvolane areas of Cork city.

   The first stage of the project relating to a preliminary planning report and the environmental impact statement for the drainage scheme has been assisted by the Commission through its Decision C(93) 2798/5 of 6 October 1993 and subsequently modified by Commission Decision C(94) 2684 final/13 of 14 October 1994.

   The second stage of the project focuses on the completion of the sewer network and collection system. It also involves planning for the treatment works.

   This Decision embraces the first and the second stage of the project.

6. **Objectives:**
   - Compliance with the Urban Waste Water Directive No 91/271/EEC;

— Provision of a drainage collection system to eliminate multiple discharges of untreated waste water into the River Lee.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning</td>
<td>1993</td>
<td>1997</td>
</tr>
<tr>
<td>Land acquisition</td>
<td>1997</td>
<td>1997</td>
</tr>
<tr>
<td>Construction</td>
<td>1997</td>
<td>1999</td>
</tr>
</tbody>
</table>

8. **Social benefit analysis:**

An economic cost benefit analysis has been carried out, the results of which have been reported in the initial application registered under 93/07/61/017.

9. **Environmental impact assessment:**

An environmental impact study has been carried out in the first stage of the project and was assisted by the Cohesion Fund through Commission Decision C(93) 2798/5.

An environmental impact assessment (EIA) is not required for the collection system elements of this project. However, the eventual construction of the treatment plant to treat the collected wastes does require an EIA under Directive 85/337/EEC.

10. **Cost and assistance:**

<table>
<thead>
<tr>
<th>Total cost (ECU million)</th>
<th>Private sector capital contribution (ECU million)</th>
<th>Expenditure before eligible date (ECU million)</th>
<th>Total eligible cost (ECU million)</th>
<th>Cohesion Fund grant (ECU million)</th>
<th>Grant rate (%)</th>
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</thead>
<tbody>
<tr>
<td>79,485</td>
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<td>—</td>
<td>79,485</td>
<td>63,588</td>
<td>80</td>
</tr>
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</table>

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**ANNEX**

**FINANCING PLAN**

Project No: 96/07/61/010

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (ECU)</th>
<th>Public expenditure</th>
<th>National authorities</th>
<th>Other</th>
<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
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<td>2=4+6+10</td>
<td>3=2/1</td>
<td>4</td>
<td>6=8+9</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>5=4/2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1993</td>
<td>1 125 000</td>
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<td>100</td>
<td>900 000</td>
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<tr>
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<td>100</td>
<td>200 000</td>
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<td>50 000</td>
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<td>8 081 407</td>
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<td>79 485 193</td>
<td>100</td>
<td>63 588 154</td>
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<td>15 897 039</td>
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</table>

(1) Total eligible cost of project.
PROJECT No: 96/07/61/011

1. **Project title:**

   Cohesion Fund Publicity and Information Project

2. **Authority making the application:**

   2.1. Name: Department of the Environment

   2.2. Address: O’Connell Bridge House
                Dublin 2

3. **Authority responsible for implementation:**

   3.1. Name: Department of the Environment

   3.2. Address: O’Connell Bridge House
                Dublin 2

4. **Location:**

   Member State: Ireland

5. **Description:**

   Article 14 of Regulation (EC) 1164/94 establishing a Cohesion Fund requires that Member States ensure to give adequate publicity to the measures assisted by the Fund, in particular that the public be made aware of the role played by the Community. With its Decision 96/455/EC of 25 June 1996 concerning information and publicity measures to be carried out by the Member States and by the Commission concerning the activities of the Cohesion Fund under Council Regulation (EC) 1164/94 the Commission has issued detailed rules concerning the publicity measures required in the beneficiary Member States.

   The Cohesion Fund information and publicity project shall enable Ireland to comply with the requirements set out in the above Commission Decision in the area of water services and roads projects commissioned by the Department of the Environment and the NRA (national roads authority).

   The project is split in two types of measures according to the financial envelope of the projects concerned. It consists of hiring a consultant who assists and advises the implementing bodies and prepares general guidelines applicable in Ireland for commissioning billboards, commemorative plaques, artistic features, editing brochures and for the preparation of audio-visual material.

6. **Objectives:**

   The project enables Ireland to increase its capacity for satisfying the information requirement specified in Article 14 (2) of Council Regulation 1164/94 which has been implemented by Commission Decision 96/455/EC of 25 June 1996.

   It is anticipated that the quality and information contents of the information and publicity measures in Ireland will considerably improve.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execution of project</td>
<td>1996</td>
<td>1999</td>
</tr>
</tbody>
</table>

8. **Economic and social benefit analysis:**

   Not applicable.

9. **Environmental impact analysis:**

   Not applicable.

10. **Cost and assistance:**

    | Total cost (ECU million) | Private sector capital contribution (ECU million) | Expenditure before eligible date (ECU million) | Total eligible cost (ECU million) | Cohesion Fund grant (ECU million) | Grant rate (%) |
    |--------------------------|-----------------------------------------------|---------------------------------------------|-------------------------------|---------------------------------|----------------|
    | 327 500                  | —                                             | —                                          | 327 500                       | 278 375                         | 85             |
### FINANCING PLAN

**Project No: 96/07/61/011**

<table>
<thead>
<tr>
<th>Year</th>
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<th>Private sector</th>
<th>Community loans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1=2+11</td>
<td>2=4+6+10</td>
<td>%</td>
<td>3=2/1</td>
<td>4</td>
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<td>14 250</td>
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<td>117 800</td>
<td>100</td>
<td>100 130</td>
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<td>17 670</td>
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<td>100</td>
<td>278 375</td>
<td>85</td>
<td>49 125</td>
</tr>
</tbody>
</table>

(1) Total eligible cost of project.

---

### PROJECT No: 97/07/61/003

1. **Project title:**
   Tuam Regional Water Supply Scheme, stage III

2. **Authority making the application:**

   2.1. **Name:** Department of the Environment, Water Services Section

   2.2. **Address:** O’Connell Bridge House Dublin 2

3. **Authority responsible for implementation:**

   3.1. **Name:** Galway County Council

   3.2. **Address:** County Buildings Prospect Hill Galway

4. **Location:**

   4.1. **Member State:** Ireland

   4.2. **Region:** West-Sub Region, Co. Galway

5. **Description:**

   Stage I and II of the Tuam Regional Water Supply Scheme are assisted by earlier Commission Decisions. These were replaced by Commission Decision C(97) 2609/1 of 29 July 1997, which grouped the first stages under a single Decision. Stage I and II provided for the planning and construction of new water abstraction and treatment works and main supply infrastructure from the source Lough Corrib to serve Tuam and the surrounding area.

   Stage III concerns the extension of Tuam regional water supply to Galway city to supplement the existing water supply for the city and to serve the city environs and the rural areas between Tuam and Galway. This stage also includes a water conservation project for Galway city.

   Galway city and its environs is currently supplied by two water treatment plants with a capacity of 14 000 m³/day and 27 000 m³/day. Existing demand is around 42 000 m³/day with peak summer demand rising to 48 000 m³/day. The smaller of the water treatment plants is old and unable to supply water in compliance with the standards for drinking water. The plant will be shut down when this project is completed. The other plant, build in the 1980’s, is grossly overloaded and consequently water quality is variable and not in accordance with the standards for drinking water.
The distribution networks in Galway city are seriously deficient and water losses are running at 50% on some sections of the distribution system.

The project consists of the following elements:

- A new reservoir and trunk and distribution mains to deliver 20 000 m³/day of treated water; 10 000 m³/day to Galway city, 5 000 m³/day to the city environs and 5 000 m³/day to the rural areas between Tuam and Galway.

- The establishment of a water conservation project for Galway city aimed at conserving up to 10 000 m³ per day.

Galway County Council will be responsible for implementing the extension of the Tuam water supply to Galway and its environs. Galway Corporation will be responsible for the implementation of the water conservation project.

This Decision covers the following works:

- The construction of the trunk main from Claretuam to Carnmore, a 7 000 m³ reservoir at Carnmore with associated pumping plant and the distribution mains/pipelines from Carnmore to Oranmore, from Carnmore to Galway city and from Carnmore to adjacent rural areas (in all approximately 34 km of mains/pipelines).

- The planning of the distribution pipeline from Carnmore to Galway city.

- Water conservation measures in Galway city including:
  (a) Leakage detection study
  (b) Mains rehabilitation (16 km)
  (c) Pressure management and district metering/valving
  (d) Provision of Supervisory Control and Data Acquisition System (SCADA)

6. **Objectives:**

- To assist in enabling compliance with the Directive on drinking water quality 80/778/EEC

- To satisfy the water supply requirements of Galway city and its environs and adjacent rural areas

- To improve the water supply infrastructure of Galway city in order to conserve water, eliminate quality deficiencies and improve the overall reliability of the supply

- To provide a replacement source of quality water to group water supply schemes currently depending on poor quality private sources

- To protect public health and safety by retiring quality deficient private sources for group schemes, retiring the old obsolete Galway city treatment works and bringing the quality of supply up to the standards of the Drinking Water Directive. Leak eradication and pressure management will improve fire fighting capacity

- To ensure that maximum benefit is derived from the investment to date in Stage I and II of the Tuam scheme.

7. **Work schedule:**

<table>
<thead>
<tr>
<th>Category of work</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning and design</td>
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<td>1998</td>
</tr>
<tr>
<td>Land acquisition</td>
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<td>1998</td>
</tr>
<tr>
<td>Construction</td>
<td>1997</td>
<td>1999</td>
</tr>
</tbody>
</table>

8. **Economic and social benefit analysis:**

A cost-benefit analysis of the project has been carried out and is registered under Project 97/07/61/003.

9. **Environmental impact analysis:**

An EIS is not required for this project.

10. **Cost and assistance:**

<table>
<thead>
<tr>
<th>Total cost (ECU million)</th>
<th>Private sector capital contribution (ECU million)</th>
<th>Expenditure before eligible date (ECU million)</th>
<th>Total eligible cost (ECU million)</th>
<th>Cohesion Fund grant (ECU million)</th>
<th>Grant rate (%)</th>
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</thead>
<tbody>
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## ANNEX

### FINANCING PLAN

**Project No:** 97/07/61/003

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cost (1)</th>
<th>Public expenditure</th>
<th>Private sector</th>
<th>Community loans</th>
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<td>Total public expenditure</td>
<td>Cohesion Fund</td>
<td>National authorities</td>
<td>Other</td>
</tr>
<tr>
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<td>1=2+11</td>
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<td>100</td>
<td>14 875 675</td>
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</table>

(1) Total eligible cost of project.