



**EREF - FEDARENE - OPET
WORKSHOP**

**RATIONALISING AND SIMPLIFYING
THE ADMINISTRATIVE (LICENSING)
PROCEDURES FOR RES PROJECTS:
THE CASE OF GREECE**

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NATIONAL RES TARGETS FOR GREECE (2010)

- **EU DIRECTIVE ON THE PROMOTION OF RES ELECTRICITY**

i) Indicative target for Greece, for the year 2010 :

- 20.1% of total electricity demand, or 14.5 TWh/year, to be covered by RES (including large hydro)
- 14.5% of total electricity demand, or 10.5 TWh/year, to be covered by RES (excluding large hydro)

- **REQUIRED RES-ELECTRICITY CAPACITY BY THE YEAR 2010**

i) Total RES-electricity capacity required:
 $\sim 3500 \text{ MW}_e$ (*based on a RES-averaged capacity utilisation factor of 35%, or about 3000 hr/year*)

ii) Indicative capacity breakdown by RES type :

- 2800 MW_e of wind parks
- 400 MW_e of small hydro plants
- 200 MW_e of biomass plants
- 100 MW_e of other RES units

Total : 3500 MW_e

CURRENT RES-ELECTRICITY CAPACITY IN GREECE (SEPTEMBER 2003)

	In operation	Under construction (Installation license granted)	Under licensing (Electricity generation license granted)
• Wind parks	375 MW <i>(PPC:37 MW)</i>	181 MW	3120 MW
• Small hydro plants (< 10 MW)	61 MW <i>(PPC:22 MW)</i>	63 MW	293 MW
• Biomass units	21 MW	5 MW	80 MW
• Photovoltaic units	0.9 MW <i>(PPC : 0.4 MW)</i>	-	-
Total :	458 MW	249 MW	3493 MW

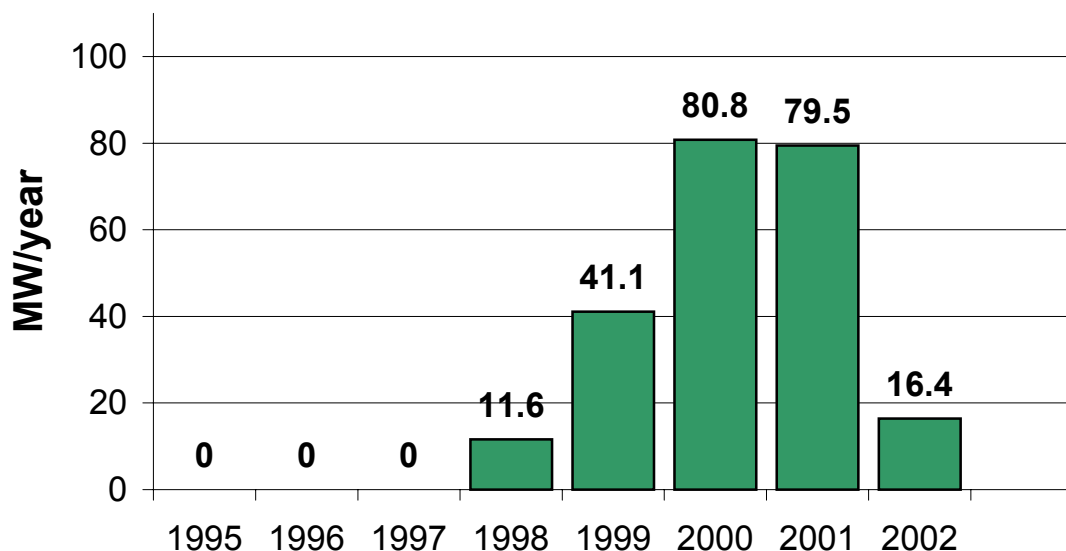
ADMINISTRATIVE AND LEGISLATORY FRAMEWORK

RES licensing procedures and jurisdictions



THE PROBLEM : RES LICENSING MARATHON

- Total number of required official permits for the licensing of RES projects : **7**
- Total number of public authorities, agencies and directorates required to provide (positive) opinion during RES licensing : **41**
- Average length of time required for full licensing of a RES project : **2.5 – 3 years**
- Consequences :
 - Long delays and changes in project conditions
 - Frequent abandonment of RES projects
 - Loss of State grants & subsidies
- Wind energy, by far, the biggest loser :



THE “MARATHON RACE” FOR THE LICENSING OF RES PROJECTS

LIST OF THE PUBLIC AUTHORITIES, AGENCIES AND DIRECTORATES REQUIRED TO GIVE AN OPINION OR TO MAKE A DECISION REGARDING THE LICENSING OF RES PROJECTS

ELECTRICITY GENERATION LICENSE

1. REGULATORY AUTHORITY FOR ENERGY (EVALUATION / OPINION)
 2. MINISTRY OF DEVELOPMENT (ISSUING OF THE ELECTRICITY GENERATION LICENSE)
 - A) DIRECTORATE FOR RENEWABLE ENERGY SOURCES AND ENERGY SAVINGS
 - B) MINISTER OF DEVELOPMENT
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INTERCONNECTION TO THE GRID

3. TRANSMISSION SYSTEM OPERATOR (or DISTRIBUTION GRID OPERATOR, i.e. PPC)
 - A) SPECIFICATION OF THE TERMS AND CONDITIONS FOR INTERCONNECTION TO THE GRID (OPINIONS FROM VARIOUS PPC DIRECTORATES)
 - B) (i) TECHNICAL INTERCONNECTION CONTRACT, (ii) COMMERCIAL ELECTRICITY SALES CONTRACT
 - C) CERTIFICATE CONFIRMING COMPLETION OF THE INTERCONNECTION WORKS (AUTOPSY)
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INSTALLATION LICENSE

4. DIRECTORATE FOR PLANNING AND DEVELOPMENT OF THE REGIONAL GOVERNMENT
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PRELIMINARY ENVIRONMENTAL ASSESSMENT AND EVALUATION

5. DIRECTORATE FOR ENVIRONMENT AND LAND PLANNING OF THE REGIONAL GOVERNMENT (DEPARTMENT FOR LAND AND URBAN PLANNING)

6. SPECIAL ENVIRONMENTAL AGENCY OF THE MINISTRY OF ENVIRONMENT, LAND PLANNING AND PUBLIC WORKS
 - A) DIRECTORATE FOR ENVIRONMENTAL PLANNING
 - B) DIRECTORATE FOR ENVIRONMENTAL PROTECTION & NATURAL RESOURCES
 7. DIRECTORATE FOR ATMOSPHERIC POLLUTION & NOISE CONTROL / MINISTRY OF ENVIRONMENT, LAND PLANNING AND PUBLIC WORKS
 8. LOCAL FORESTRY INSPECTION OFFICE
 9. PREFECTURAL COMMITTEE FOR LAND PLANNING & ENVIRONMENT (MINISTRY OF AGRICULTURE)
 10. DIRECTORATE FOR TECHNICAL SERVICES OF THE LOCAL PREFECTURE
 11. LOCAL URBAN PLANNING OFFICE
 - A) OPINION ABOUT THE RES PROJECT'S DISTANCE FROM URBAN SETTLEMENTS, ZONES OF URBAN CONTROL, etc.
 - B) BUILDING PERMIT (FOR ISSUING THE OPERATION LICENSE)
 12. STATE COMMITTEE FOR PREHISTORIC AND CLASSICAL ANTIQUITIES (+ REGIONAL AND/OR CENTRAL ARCHEOLOGICAL COUNCILS)
 13. STATE COMMITTEE FOR BYZANTINE AND POST-BYZANTINE MONUMENTS (+ REGIONAL AND/OR CENTRAL ARCHEOLOGICAL COUNCILS)
 14. CIVIL AVIATION AUTHORITY
 15. MINISTRY OF NATIONAL DEFENSE / CENTRAL MILITARY COMMAND
 - A) ARMY COMMAND
 - B) NAVY COMMAND
 - C) AIR FORCE COMMAND
 16. PUBLIC TELECOMMUNICATIONS CORPORATION
 17. PUBLIC RADIO & TELEVISION CORPORATION
 18. NATIONAL TOURISM ORGANISATION
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19. CENTER FOR RENEWABLE ENERGY SOURCES (CERTIFICATE OF APPROVAL OF THE WIND TURBINES & CERTIFICATE OF MEASUREMENTS OF THEIR POWER QUALITY CHARACTERISTICS)
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APPROVAL OF ENVIRONMENTAL TERMS AND CONDITIONS

20. LOCAL MUNICIPALITY (MUNICIPAL COUNCIL)

21. LOCAL PREFECTURE

- A) DIRECTORATE FOR LAND AND URBAN PLANNING & ENVIRONMENT (ENVIRONMENTAL DEPARTMENT)**
 - B) PREFECTURAL COUNCIL**
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CONCESSION OR APPROVAL OF INTERVENTION ON PUBLIC LAND

- 22. DIRECTORATE FOR AGRICULTURAL DEVELOPMENT (LOCAL PREFECTURE)**
 - 23. DIRECTORATE FOR LAND IMPROVEMENT (" ")**
 - 24. VETERINARY DIRECTORATE (" ")**
 - 25. FISHERY DIRECTORATE (" ")**
 - 26. LOCAL FORESTRY INSPECTION OFFICE**
 - 27. PREFECTURAL DIRECTORATE FOR FORESTS**
 - 28. REGIONAL DIRECTORATE FOR FORESTS**
 - 29. MINISTRY OF AGRICULTURE**
 - A) DIRECTORATE FOR THE PROTECTION OF FORESTS & NATURAL ENVIRONMENT**
 - B) DIRECTORATE FOR WOOD FORESTS, PROTECTED FOREST LANDS AND HUNTING**
 - C) MINISTER OF AGRICULTURE**
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OPERATION LICENSE

- 30. FIRE-FIGHTING SERVICE**
- 31. DIRECTORATE FOR INDUSTRY AND TRANSPORTATION OF THE LOCAL PREFECTURE (AUTOPSY OF THE COMPLETED PROJECT)**

TOTAL NUMBER OF PUBLIC AUTHORITIES, AGENCIES AND DEPARTMENTS PROVIDING OPINION : 41
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THE SOLUTION

Joint Ministerial Decision (JMD) No. 1726 (April 2003) for the simplification of the RES licensing procedures (for wind and small hydro plants)

- JMD 1726 is signed by the ministers of all seven (7) Ministries that are co-responsible for the RES licensing process, namely the Ministries of :
 - National Economy
 - Development (Energy)
 - Environment, Land Planning & Public Works
 - Agriculture
 - Culture
 - Transportation & Communications
 - National Defense

- JMD 1726 covers all three basic (and time consuming) stages of the RES licensing process :
 - Preliminary environmental impact assessment
 - Approval of environmental terms and conditions
 - Approval of intervention on public land

- JMD 1726 defines clearly and unambiguously the specific public authorities, agencies and directorates that are required to give an opinion (or to make a decision) regarding the licensing of a RES project. Their total number is significantly reduced.

- JMD 1726 describes in detail the contents of the specific opinion, to be given by each one of the above authorities or agencies

- JMD 1726 sets strict deadlines for the licensing authorities or agencies, within which they are required to give their opinions about the RES project under consideration. These deadlines are :

1.	Preliminary environmental impact assessment	:	30	working	days	(total)
2.	Approval of environmental terms and conditions	:	60	''	''	''
3.	Approval of intervention on public land	:	40	''	''	''
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Total licensing time for RES projects		:	90	working	days	(total)

- The above deadlines have an irrevocable character, i.e. beyond them, the respective authorities, agencies, committees, etc., that have not responded, are counted as having positive opinions (answers) towards the given RES project, and the licensing procedure moves on to the next stage.

AN EFFECTIVE CURE ??

- New RES projects already in the licensing “pipeline” (electricity generation license granted) :

-	Wind parks	:	3120	MW
-	Small hydro	:	293	MW
-	Biomass	:	80	MW

Total : 3493 MW

- New wind parks that commenced operation in 2003 :

